

1 elements such as unnatural edges, roads, landings, and structures do not  
2 dominate the composition.

### 3 ***Visual Management Classes***

4 For both the BLM and Forest Service, where management decisions have been made to  
5 preserve and protect the visual characteristics of the landscape, these areas are likely to  
6 provide better habitat and protection for GRSG.

### 7 **3.19 Lands with Wilderness Characteristics**

8 The purpose and need of the National GRSG Planning Effort is limited to providing LUP  
9 guidance specific to the conservation of GRSG habitats. No decisions related to the  
10 management of lands with wilderness characteristics will be made as part of this planning  
11 effort; therefore, management of lands with wilderness characteristics is considered outside  
12 the scope of this plan amendment process. Impacts on lands with wilderness characteristics  
13 from the alternatives being analyzed for this planning effort are presented in **Section 4.14**.

14 Section 201 of FLPMA and BLM Manual Section 6310 require the BLM to maintain on a  
15 continuing basis an inventory of all BLM-administered lands and their resources and other  
16 values, which includes wilderness characteristics. It also provides that the preparation and  
17 maintenance of the inventory shall not, of itself, change or prevent change of the  
18 management or use of BLM-administered lands. Regardless of past inventory, the BLM must  
19 maintain and update as necessary, its inventory of wilderness resources on BLM-  
20 administered lands. In some circumstances conditions relating to wilderness characteristics  
21 may have changed over time, and an area that was once determined to lack wilderness  
22 characteristics may now possess them. The BLM determines when it is necessary to update  
23 its wilderness characteristics inventory.

24 Under the following circumstances, the BLM considers whether to update a wilderness  
25 characteristics inventory or conduct a wilderness characteristics inventory for the first time:

- 26 1. The public or the BLM identifies wilderness characteristics as an issue during the  
27 NEPA process.
- 28 2. The BLM is undertaking a land use planning process.
- 29 3. The BLM has new information concerning resource conditions, including  
30 wilderness characteristics information submitted by the public that meets the  
31 BLM's minimum standard described in the Wilderness Characteristics Inventory  
32 Process section of this policy.
- 33 4. A project that may impact wilderness characteristics is undergoing NEPA  
34 analysis.
- 35 5. The BLM acquires additional lands.

36 There also may be other circumstances in which BLM will find it appropriate to update its  
37 wilderness characteristics inventory.



1 The original FLPMA Section 603 mandated inventories that were conducted during past  
2 RMP revisions and amendments and through other lands with wilderness characteristics  
3 inventory updates that have recently taken place. Inventories for wilderness characteristics  
4 were conducted between 2009 and 2013 and reflect the most up-to-date lands with  
5 wilderness characteristics baseline information for this planning area. For inventories that  
6 were conducted after 2011, findings were documented following guidance in BLM IM 2011-  
7 154, Requirement to Conduct and Maintain Inventory Information for Wilderness  
8 Characteristics and to Consider Lands with Wilderness Characteristics in Land Use Plans,  
9 which is now encompassed in BLM Manuals 6310 and 6320. Lands with wilderness  
10 characteristics inventories will be updated for any site-specific NEPA analyses that are  
11 conducted in the planning area. This will be to determine if a project will have impacts on  
12 lands with wilderness characteristics identified through previous or updated inventories.

13 The primary function of an inventory is to determine the presence or absence of wilderness  
14 characteristics. The BLM has completed lands with wilderness characteristics inventories in  
15 the Bruneau, Jarbidge, Salmon, Pocatello and Dillon Field Offices. Upper Snake has a draft  
16 inventory, and partial inventories have been completed in the Owyhee, Shoshone, and  
17 Burley Field Offices. The Pocatello Field Office found that it has no lands with wilderness  
18 characteristics. The Bruneau, Salmon, Owyhee, Burley, Shoshone, Dillon, and Jarbidge Field  
19 Offices found areas that do contain lands with wilderness characteristics.

20 Currently no Field Offices have taken their lands with wilderness characteristics through a  
21 complete planning process to determine how they will be managed. There are 252,296 acres  
22 of lands with wilderness character within the planning area boundary (**Table 3-58**, Lands  
23 with Wilderness Characteristics within the Planning Area).

**Table 3-54**  
**Lands with Wilderness Characteristics within**  
**the Planning Area**

BLM Field Office	Acres
Bruneau	153,900
Burley	31,000
Dillon	68,400
Jarbidge	88,500
Owyhee	102,500
Salmon	7,300
Shoshone	760
<b>Total</b>	<b>452,360</b>

Source: BLM GIS 2015

24  
25 **Figure 3-16**, Lands with Wilderness Characteristics and Roadless Areas in Planning Area,  
26 shows BLM Lands with Wilderness Characteristics and Forest Service Roadless Areas in the  
27 planning area.



1           **3.20 Forest Service Roadless Areas**

2           Under 36 CFR 294, the Forest Service designated Roadless Areas in Idaho (**Figure 3-16**).  
3           The purpose of designating Roadless Areas is to conserve areas with wilderness attributes.

4           The Forest Service organizes Roadless Areas into five management classifications. These  
5           management classifications are; 1. Wild Land Recreation, 2. Special Areas of Historic or  
6           Tribal Significance, 3. Primitive, 4. Backcountry/Restoration, and 5. General Forest,  
7           Rangeland, and Grassland. Management of Roadless Areas is impacted by the management  
8           classification into which a Roadless Area falls. The Forest Service restricts activities such as  
9           road construction and reconstruction, timber cutting, and mineral activities to various  
10          degrees under each management classification in order to protect Roadless Areas (36 CFR  
11          294).

12          There are approximately 1,695,900 acres of Roadless Areas on National Forest System lands.

13           **3.21 Air Quality and Climate Change**

14          Air resources include air quality, air quality related values, and climate change. As part of the  
15          decision-making process, the BLM and Forest Service consider and analyze the potential  
16          effects of agency and agency-authorized activities on air resources.



Figure 3-16 Lands with Wilderness Characteristics and Roadless Areas in Planning Area



1 The US Environmental Protection Agency (USEPA) has the primary responsibility for  
2 regulating air quality, including seven criteria air pollutants subject to National Ambient Air  
3 Quality standards (NAAQS). Pollutants regulated under NAAQS include carbon monoxide  
4 (CO), lead, nitrogen dioxide (NO<sub>2</sub>), ozone, particulate matter with a diameter less than or  
5 equal to 10 microns (PM<sub>10</sub>), particulate matter with a diameter less than or equal to 2.5  
6 microns (PM<sub>2.5</sub>), and sulfur dioxide (SO<sub>2</sub>). Two additional pollutants, nitrogen oxides (NO<sub>x</sub>)  
7 and volatile organic compounds (VOCs), are regulated because they form ozone in the  
8 atmosphere. Air quality is determined by pollutant emissions and emission characteristics,  
9 atmospheric chemistry, dispersion meteorology, and terrain. Air quality related values include  
10 effects on soil and water, such as sulfur and nitrogen deposition and lake acidification, and  
11 aesthetic effects, such as visibility.

12 In addition to USEPA regulations, air quality is also regulated by the Idaho Department of  
13 Environmental Quality, Air Quality Division. This agency develops state-specific regulations  
14 and issues air quality permits to emission sources.

15 Climate is the composite of generally prevailing weather conditions of a particular region  
16 through the year, averaged over a series of years. Climate change includes both historic and  
17 predicted climate shifts that are beyond normal weather variations.

### 18 **3.21.1 Conditions within the Planning Area**

#### 19 ***Air Quality***

20 Human Health. The USEPA classifies areas of the US according to whether they meet the  
21 NAAQS. Areas that violate air quality standards are designated as nonattainment areas for  
22 the relevant criteria air pollutants. Areas that comply with air quality standards are designated  
23 as attainment areas for the relevant criteria air pollutants. Areas that have been reclassified  
24 from nonattainment to attainment are considered maintenance areas. The majority of the  
25 planning area is in attainment for all of the NAAQS.

26 The Air Quality Index is an USEPA health index that normalizes the various air pollutants in  
27 order to report one health level. The Air Quality Index is reported on a scale of 0 to 300,  
28 with 0 to 50 indicating good air quality; 51 to 100 indicating moderate air quality; 101 to 150  
29 indicating air quality unhealthy for sensitive groups; 151 to 200 indicating unhealthy air  
30 quality; and 201 to 300 indicating very unhealthy air quality. Idaho Department of  
31 Environmental Quality publishes annual data summaries of Idaho's air quality that describe  
32 the Air Quality Index for all areas where air quality is monitored. The Air Quality Index is  
33 computed using the 24-hour average for PM<sub>2.5</sub> and the eight hour average for ozone.

34 Visibility and Regional Haze. There are no mandatory Class I areas on BLM-administered  
35 lands in the planning area; all designated wilderness areas on BLM-administered lands are  
36 Class II.

#### 37 ***Climate Change***

38 Climate change is defined by the Intergovernmental Panel on Climate Change (IPCC) as “a  
39 change in the state of the climate that can be identified (e.g., using statistical tests) by changes



1 in the mean and/or the variability of its properties, and persist for an extended period,  
2 typically decades or longer. It refers to any change in climate over time whether due to  
3 natural variability to as a result of human activity (IPCC 2007).” Climate change is generally  
4 described on a global, national, or regional scale (state or multi-state), while greenhouse gas  
5 emissions in the US are generally reported on a national or statewide scale.

6 Climate change is manifested in several ways, of which the most commonly analyzed are  
7 precipitation, temperature, and snowpack. Temperature and precipitation data for the  
8 planning area were retrieved from WestMap, a climate analysis and tracking tool that uses  
9 hydrologic basins as the mapping unit.

#### 10 *Greenhouse Gas Emissions*

11 There are six greenhouse gases tracked by the IPCC, carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>),  
12 nitrous oxide (N<sub>2</sub>O), hydroflouorocarbons (HFCs), perflouorocarbons, and sulfur hexafluoride  
13 (SF<sub>6</sub>; US Department of State 2010). Hydroflouorocarbons, perflouorocarbons, and sulfur  
14 hexafluoride are also known as high global warming potential due to their warming  
15 effectiveness (140 to 23,900 times the warming potential compared to carbon dioxide,  
16 depending on the compound) and their essential permanence in the atmosphere (remaining  
17 over 3,000 years; US Department of State 2010; USEPA 2012). Carbon dioxide, methane,  
18 and nitrous oxide have both natural and human generated sources, while high global  
19 warming potential gases are strictly human generated from various industrial processes.  
20 Greenhouse gas emissions are tracked as carbon dioxide equivalents (CO<sub>2</sub>e) with one gram  
21 of carbon dioxide molecule counting as one and other molecules some multiple. Emissions  
22 are usually reported in teragrams or million metric tonnes, which are equivalent measures  
23 (USEPA 2010).

24 In the US, USEPA tracks and reports greenhouse gas emissions; the Department of State  
25 also reports emissions.

26 Greenhouse gas emissions in the US and in Idaho are similar in terms of percentages and in  
27 the main sources of the different gases. Idaho’s greenhouse gases have remained about 1  
28 percent of the US emissions from 1990 to 2010. Carbon dioxide is the primary greenhouse  
29 gas, comprising 83 to 85 percent of total emissions in the US and in Idaho, with fossil fuel  
30 combustion for energy the primary sources of carbon dioxide. Methane production accounts  
31 for 7 to 10 percent of greenhouse gas emissions. In the US, the primary source is natural gas  
32 systems, while in Idaho the primary source is enteric fermentation from domestic livestock.  
33 Nitrous oxide production accounts for 4 to 6 percent of the total emissions, slightly more in  
34 Idaho than in the US with agricultural soil management the primary sources.

35 The high global warming potential gas comprises 1 to 3 percent of total emissions, more in  
36 Oregon than in the US. The primary sources of hydroflouorocarbons are the production of  
37 substitutes for ozone-depleting compounds, while aluminum production and semiconductor  
38 manufacturing are the primary sources of perflouorocarbons and electricity transmission and  
39 distribution are the primary sources of sulfur hexafluoride.

1 The USEPA also estimates greenhouse gas sinks arising from land use, land use changes, and  
2 forestry. These sinks effectively reduce total greenhouse gas emissions by 15 to 16 percent  
3 nationally (USEPA 2010). The proportion in Idaho may be somewhat higher due to the  
4 productivity of Idaho forests.

### 5 **3.21.2 Conditions on BLM-Administered and National Forest System** 6 **Lands**

#### 7 *Air Quality*

8 Air quality conditions on BLM-administered and National Forest System lands are generally  
9 as described for the planning area.

### 10 **3.21.3 Trends**

#### 11 *Air Quality*

12 Human Health. There are no clear long term trends in particulate emissions or the number  
13 of unhealthy days in the planning area; the lack of trends maybe due to a number of factors.  
14 There are no trends in the number of wildfires of acres burned or in the prescribed burning  
15 programs of BLM districts or National Forests; there are also no documented trends in the  
16 other particulate emitting sectors. The recent downturn in the economy may have resulted in  
17 temporary or permanent changes in the number or types of particulate emitters. The 2010  
18 Clean Air status and trends network report indicates that 2009 was the lowest year on the 15  
19 year recorded for several criteria pollutants, with increases in 2010 (USEPA 2012). That  
20 trend would be consistent with the recent downturn and slow recovery. In the western states  
21 as a whole, mean annual sulfur dioxide and particulate sulfur concentrations, total nitrate  
22 levels, total nitrogen deposition, and ozone concentrations have declined between 1996 and  
23 2010 (Hand et al. 2011; USEPA 2012).

#### 24 *Climate Change*

25 Certain precipitation, temperature, and snowfall trends within the planning area are similar,  
26 while others differ. The reasons for the observed differences are not clear. In the Oregon  
27 closed basins, precipitation has increased annually and in all four season, with the greatest  
28 seasonal increase in spring. Temperatures are also increasing, with greater increases in  
29 minimum temperature in winter and summer, consistent with observed national and global  
30 trends. Even temperatures are warming, above a threshold elevation that varies by mountain  
31 range; temperatures are still cold enough for winter precipitation to fall as snow. The  
32 combination of warmer temperatures and increased water vapor means that either more  
33 snow, snow with a higher moisture content, or some combination of these two factors will  
34 occur.

#### 35 *Projections*

36 Karl et al. (2009) summarize the observed trends and projections in climate for the US, with  
37 an updated report due in 2013. In the US, average temperature has risen 2 degrees  
38 Fahrenheit (°F) in the last 50 years, compared to the 1961 to 1979 baseline, and is projected  
39 to increase by 2 to 3 °F by the 2020s. Precipitation has increased by 5 percent in the last 50  
40 years. Summers are expected to become drier over most of the US, and winters are expected  
41 to become wetter. Spring is expected to become drier in the southern tier of the US. The



1 amount of rain falling in the heaviest storms has increased by 20 percent. This trend is  
2 expected to continue, with the greatest increase in the wettest places. In contrast, the amount  
3 of rain falling in the lightest storms has decreased, with the trend expected to continue.  
4 Extreme weather events such as heat waves and drought have become more frequent and  
5 more intense. Heat event frequency is expected to increase from 1 every 20 years to 1 every  
6 2 to 3 years, with the number of days above 90 °F increasing as well. Snowpack is expected  
7 to decrease, especially in the western US. Cold season storm tracts should continue to shift  
8 northward, and the strongest winter storms are expected to become stronger and more  
9 frequent.

10 For the Pacific Northwest (Oregon, Washington, Idaho, and western Montana) the  
11 projections are somewhat different than for the US as a whole (Mote and Salathe 2010).  
12 Most climate models tend to over predict precipitation as compared to observed means in  
13 the Pacific Northwest, so must be corrected in any projections. In the Pacific Northwest,  
14 temperatures are expected to increase by about 1 to 3 degrees by the 2020s, 1.5 to 5 by mid-  
15 century, and 3 to 10 by the end of the century. The greatest warming is expected in summer,  
16 and least is expected in spring. Annual precipitation is expected to change little, but summers  
17 should become drier and all other seasons possibly wetter. As with the US as a whole and  
18 globally, the frequency of extreme precipitation events, heat waves, and droughts are  
19 expected to increase, and snowpack is expected to decrease.

#### 20 *Greenhouse Gas Emissions*

21 Between 1990 and 2010, total us greenhouse gas emissions increased by 10.5 percent,  
22 averaging 0.5 percent per year (USEPA 2012). Carbon dioxide emissions, particularly those  
23 associated with energy production and use, are the dominant factor in US trends. Emissions  
24 from fossil fuel combustion increased by 13.7 percent between 1990 and 2010, and increased  
25 by 3.5 percent between 2009 and 2010. Emissions tend to decline during economic  
26 slowdowns and increase during economic recoveries. Emissions in Idaho followed similar  
27 trends as the US as a whole. The State Department (2010) projected greenhouse gas  
28 emissions for 2015 and 2020 based on data through 2007. Carbon dioxide emissions are  
29 expected to increase only slightly from 2007 levels, although the projected increase is  
30 considerably lower than the observed trend. All other emissions are expected to increase as  
31 well, with the least increase in methane and the most increase in the high global warming  
32 potential gases.

### 33 **3.22 Social and Economic Conditions (Including Environmental Justice)**

34 Due to the nature of social, economic, and environmental justice conditions, the social and  
35 economic analysis is based on a somewhat different area for analysis than is used for other  
36 resources. Specifically, the Socioeconomic Study Area is made up of counties within the  
37 Idaho-Southwestern Montana sub-region that contain GRSG habitat and within which social  
38 and economic conditions might reasonably be expected to change based on alternative  
39 management actions. In addition, the BLM reviewed the need to include additional counties  
40 within a secondary study area that may not contain GRSG habitat but are closely linked from  
41 an economic and/or social perspective to counties that do contain habitat. This latter  
42 category includes what are sometimes called “service area” counties, or counties from which



1 businesses operate that regularly provide critical economic services, such as recreational  
2 outfitting or support services for the livestock grazing sector, within the counties that  
3 contain habitat (METI Corp/Economic Insights of Colorado 2012). Including service area  
4 counties is important because a change in economic activity in a county containing habitat  
5 may result in changes in economic activity within service area counties as well.

6 The Primary Socioeconomic Study Area contains 27 counties in Idaho: Adams, Bear Lake,  
7 Bingham, Blaine, Bonneville, Butte, Camas, Caribou, Cassia, Clark, Custer, Elmore,  
8 Fremont, Gem, Gooding, Jefferson, Jerome, Lemhi, Lincoln, Madison, Minidoka, Oneida,  
9 Owyhee, Payette, Power, Twin Falls, and Washington; and two counties in Montana:  
10 Beaverhead and Madison. Each of these counties contains GRSG habitat. A secondary study  
11 area is included that contains an additional four counties in Idaho: Ada, Bannock, Boise, and  
12 Canyon; and two counties in Montana: Gallatin and Silver Bow. All of these counties are  
13 included in the secondary study area because of identified links to the primary area based on  
14 commuter patterns (OMB 2009; US Census Bureau 2012a).<sup>2</sup>

15 **Table 3-55**, Commuter Patterns in the Socioeconomic Study Area, 2010, shows the share of  
16 workers employed in a given county of the Primary and Secondary Socioeconomic Study  
17 Areas and that reside in the same county. It also shows other counties that provide labor to  
18 the selected primary or secondary study area.

**Table 3-55**  
**Commuter Patterns in the Socioeconomic Study Area, 2010**

Geographic Area of Employment	Live in Same Area of Employment	Other Counties Where Considerable Share of Workers Live
<b>Primary Socioeconomic Study Area</b>		
Adams County, Idaho	69.4%	Valley (7.3%), Idaho (6.7%), Washington (3.5%)
Bear Lake County, Idaho	77.2%	Ada (2.7%), Bannock (2.4%)
Bingham County, Idaho	64.3%	Bannock (10.2%), Bonneville (9.5%), Ada (2.0%)
Blaine County, Idaho	70.9%	Ada (6.7%), Lincoln (3.6%), Canyon (2.6%), Twin Falls (2.6%)
Bonneville County, Idaho	61.0%	Bingham (8.7%), Jefferson (8.3%), Bannock (6.3%), Madison (3.3%), Ada (2.5%)

<sup>2</sup> Other counties considered but excluded from the secondary area were: (a) Valley County, Idaho, which has its main commuter tie to Ada County, Idaho, a secondary area county; (b) Franklin County, Idaho, which has its main commuter tie to Cache County, Utah, a county outside of the Socioeconomic Study Area; (c) Teton County, Idaho, which has its main commuter tie to Teton County, Montana, a county outside of the Socioeconomic Study Area; (d) Jefferson and Broadwater Counties, Montana, both of which have their main commuter ties to Lewis and Clark County, Montana, a county outside of the Socioeconomic Study Area; (e) Ravalli County, Montana, which has its main commuter tie outside the primary study area, is linked to the Salmon Challis National Forest or the Beaverhead Deerlodge National Forest, but is less likely to be affected by GRSG habitat management alternatives because GRSG habitat is concentrated in the southeast of Lemhi County, Idaho, at a distance from Ravalli County; (f) Deer Lodge and Park counties in Montana, whose main ties are to Silver Bow and Gallatin, counties of the secondary area; and (g) the counties of Missoula, Granite, and Powell (all in Montana) were not included in the secondary study area because the Beaverhead Deerlodge National Forest areas potentially affected by GRSG habitat management alternatives are located considerably to the south of those counties.

**Table 3-55  
Commuter Patterns in the Socioeconomic Study Area, 2010**

<b>Geographic Area of Employment</b>	<b>Live in Same Area of Employment</b>	<b>Other Counties Where Considerable Share of Workers Live</b>
Butte County, Idaho	21.5%	Bonneville (40.9%), Bingham (14.2%), Bannock (7.6%), Jefferson (6.5%), Custer (2.1%), Madison (2.0%)
Camas County, Idaho	58.5%	Gooding (10.9%), Blaine (8.3%), Twin Falls (5.7%), Jerome (3.0%), Ada (2.6%), Elmore (2.6%)
Caribou County, Idaho	56.8%	Bannock (11.4%), Bear Lake (9.8%), Ada (2.8%), Bonneville (2.8%), Franklin (2.8%)
Cassia County, Idaho	49.9%	Minidoka (23.8%), Twin Falls (6.8%), Ada (3.0%), Jerome (2.5%), Bonneville (2.1%)
Clark County, Idaho	51.4%	Bonneville (18.3%), Jefferson (18.3%), Bannock (2.2%), Madison (2.2%)
Custer County, Idaho	65.7%	Lemhi (13.6%), Butte (2.8%), Bonneville (2.7%), Ada (2.6%)
Elmore County, Idaho	69.7%	Ada (11.3%), Canyon (4.2%), Twin Falls (2.3%)
Fremont County, Idaho	70.5%	Madison (10.3%), Bonneville (6.2%), Jefferson (2.9%)
Gem County, Idaho	60.0%	Ada (15.4%), Canyon (10.7%), Payette (2.7%)
Gooding County, Idaho	48.5%	Twin Falls (17.3%), Jerome (10.7%), Lincoln (2.5%), Ada (2.3%)
Jefferson County, Idaho	51.6%	Bonneville (23.7%), Madison (8.4%), Bingham (2.4%)
Jerome County, Idaho	42.8%	Twin Falls (26.1%), Gooding (8.8%), Ada (3.3%), Cassia (2.4%), Minidoka (2.2%)
Lemhi County, Idaho	88.1%	Bonneville (2.1%)
Lincoln County, Idaho	49.7%	Twin Falls (14.2%), Gooding (12.4%), Jerome (7.0%), Minidoka (3.3%), Blaine (2.0%)
Madison County, Idaho	49.6%	Bonneville (12.9%), Fremont (12.2%), Jefferson (9.5%), Bannock (3.2%), Bingham (2.3%)
Minidoka County, Idaho	54.9%	Cassia (19.7%), Twin Falls (7.2%), Ada (2.3%), Bannock (2.2%)
Oneida County, Idaho	78.3%	Bannock (7.0%), Bonneville (2.5%), Box Elder, UT (2.1%)
Owyhee County, Idaho	42.2%	Canyon (31.5%), Ada (8.2%), Elmore (4.3%), Malheur, OR (2.4%),
Payette County, Idaho	51.3%	Canyon (14.4%), Malheur, OR (10.4%), Ada (8.0%), Washington (4.6%), Gem (3.4%)
Power County, Idaho	45.5%	Bannock (24.2%), Bingham (6.5%), Twin Falls (5.0%), Ada (2.7%)
Twin Falls County, Idaho	64.8%	Jerome (7.0%), Ada (5.2%), Gooding (2.6%), Cassia (2.6%), Canyon (2.5%), Minidoka (2.5%)
Washington County, Idaho	63.4%	Payette (6.3%), Ada (4.7%), Malheur, OR (4.5%), Canyon (4.5%)
Beaverhead County, Montana	62.1%	Lewis and Clark (6.9%), Yellowstone (6.7%), Silver Bow (5.7%), Gallatin (3.6%), Missoula (3.2%), Cascade (2.8%)
Madison County, Montana	67.8%	Gallatin (17.3%), Jefferson (3.0%)

**Table 3-55**  
**Commuter Patterns in the Socioeconomic Study Area, 2010**

Geographic Area of Employment	Live in Same Area of Employment	Other Counties Where Considerable Share of Workers Live
<b>Secondary Socioeconomic Study Area</b>		
Ada County, Idaho	71.9%	Canyon (14.9%)
Bannock County, Idaho	68.6%	Bonneville (6.5%), Bingham (6.5%), Ada (2.8%), Twin Falls (2.2%)
Boise County, Idaho	77.0%	Ada (12.2%), Gem (3.4%), Canyon (2.5%)
Canyon County, Idaho	60.2%	Ada (24.7%), Owyhee (2.7%)
Gallatin County, MT	77.6%	Yellowstone (3.1%), Park (2.8%), Lewis and Clark (2.9%)
Silver Bow County, MT	64.8%	Missoula (5.8%), Deer Lodge (4.4%), Lewis and Clark (4.4%), Gallatin (3.5%), Jefferson (2.3%), Cascade (2.1%), Yellowstone (2.0%)

Source: US Census Bureau 2012a

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Because any effects on the secondary study area would be indirect and sometimes focused on specific sectors, this chapter focuses primarily on the social and economic conditions of the Primary Socioeconomic Study Area and provides what is necessary to convey appropriate context for the impact analysis. The impact analysis in the next chapter will document potential effects on both the primary and the secondary study areas.

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**Table 3-60**, BLM and Forest Service Plans, Management Units, and Counties within the Socioeconomic Study Area, shows the planning documents that may be altered by the Idaho-Southwestern Montana sub-region planning process and the counties containing GRSG habitat within the area encompassed by those plans.

**Table 3-60**  
**BLM and Forest Service Plans, Management Units, and Counties within the Socioeconomic Study Area**

Agency	Plan or Document	Management Unit	Counties
BLM	Birds of Prey National Conservation Area RMP (2008)	Four Rivers Field Office	Ada, Canyon, Elmore, Owyhee (Idaho)
	Bruneau RMP revision	Bruneau Field Office	Owyhee (Idaho)
	Challis RMP (1999)	Challis Field Office	Custer, Lemhi (Idaho)
	Craters of the Moon National Monument RMP (2006)	Shoshone Field Office	Blaine, Butte, Lincoln, Minidoka, Power (Idaho)
	Dillon RMP (2006)	Dillon Field Office	Beaverhead, Madison (Montana)



**Table 3-60**  
**BLM and Forest Service Plans, Management Units, and Counties within the Socioeconomic Study Area**

Agency	Plan or Document	Management Unit	Counties
	Four Rivers RMP revision	Four Rivers Field Office	Ada, Adams, Boise, Canyon, Elmore, Gem, Payette, Valley, Washington (Idaho)
	Jarbidge RMP revision	Jarbidge Field Office	Elmore, Owyhee, Twin Falls (Idaho); Elko (Nevada)
	Lemhi RMP (1987)	Salmon Field Office	Lemhi (Idaho)
	Owyhee RMP (1999)	Owyhee Field Office	Owyhee (Idaho)
	Pocatello RMP revision	Pocatello Field Office	Bannock, Bear Lake, Bingham, Bonneville, Caribou, Cassia, Franklin, Oneida, Power (Idaho)
	Shoshone-Burley RMP revision	Shoshone Field Office, Burley Field Office	Blaine, Camas, Elmore, Jerome, Minidoka, Power (Idaho)
	Upper Snake RMP revision	Upper Snake Field Office	Blaine, Bingham, Bonneville, Butte, Clark, Fremont, Jefferson, Madison, Power, Teton (Idaho)
Forest Service	Beaverhead-Deerlodge National Forest Plan (2009)	Dillon, Wise River, Wisdom, Butte, Jefferson, Pintler, and Madison Ranger Districts	Granite, Powell, Jefferson, Deer Lodge, Silver Bow, Madison, Gallatin, Beaverhead (Montana)
	Boise National Forest Plan, as amended in 2010	Cascade, Lowman, Emmett, Mountain Home, and Idaho City Ranger Districts	Valley, Boise, Elmore, Gem, Ada (Idaho)
	Caribou National Forest Revised Forest Plan (2003)	Montpelier, Soda Springs, and Westside Ranger Districts	Caribou, Bonneville, Bannock, Bear Lake, Oneida, Franklin, Power (Idaho); Lincoln (Wyoming); Box Elder, Cache (Utah)
	Challis National Forest Plan (1987)	Challis, Lost River, Middle Fork, and Yankee Fork Ranger Districts	Custer, Lemhi, Butte, Valley, Blaine, Clark (Idaho)
	Curlew National Grassland Management Plan (2002)	Westside Ranger District	Oneida, Power (Idaho)
	Salmon National Forest Plan (1988)	Cobalt, Leadore, North Fork, and Salmon Ranger Districts	Idaho, Lemhi, Valley (Idaho)
	Sawtooth National Forest Revised Forest Plan (2003)	Fairfield, Ketchum, Minidoka, and Sawtooth National Recreation Area Ranger Districts	Blaine, Boise, Cassia, Camas, Custer, Elmore, Oneida, Power, Twin Falls (Idaho); Box Elder (Utah)

**Table 3-60**  
**BLM and Forest Service Plans, Management Units, and Counties within the Socioeconomic Study Area**

Agency	Plan or Document	Management Unit	Counties
	Targhee National Forest Plan (1997)	Ashton/Island Park, Dubois, Palisades, and Teton Basin Ranger Districts	Bonneville, Butte, Clark, Fremont, Jefferson, Lemhi, Madison, Teton (Idaho); Lincoln, Teton (Wyoming)

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2 Because of the nature of the Socioeconomic Study Area, the socioeconomic resources  
3 section has a slightly different format than the other resource analyses in the EIS. Rather  
4 than proceeding by field office and National Forest, the section provides information for the  
5 entire Socioeconomic Study Area except where the relevant information or data is tabulated  
6 for the specific geographic area of Field Office or National Forest. In addition, the analysis  
7 presents information about existing conditions and trends within the same section, because  
8 that is the common practice for analysis of social and economic conditions.

9 **3.2.2.1 Indicators**

10 Many of the indicators used to characterize social and economic conditions are quantitative,  
11 including population, demographics (e.g., age and gender breakouts), local industry (e.g.,  
12 recreation and mineral development), employment, personal income, and presence of  
13 minority and low-income populations. Other indicators, especially for social conditions, are  
14 qualitative.

15 **3.2.2.2 Existing Conditions and Trends**

16 ***Social Conditions***

17 Social conditions concern human communities, including towns, cities, and rural areas, and  
18 the custom, culture, and history of the area as it relates to human settlement, as well as  
19 current social values.

20 ***Population and Demographics***

21 **Table 3-56**, Population Growth, 1990-2010, shows current and historic populations in the  
22 Socioeconomic Study Area.

**Table 3-56**  
**Population Growth, 1990-2010**

Geographic Area	1990	2000	2010	Percent Change (1990-2010)	Population as Percentage of Study Area Total (2010)
Adams County, Idaho	3,254	3,476	3,976	22.2%	0.6%
Bear Lake County, Idaho	6,084	6,411	5,986	-1.6%	0.9%
Bingham County, Idaho	37,583	41,735	45,607	21.4%	6.6%





**Table 3-56  
Population Growth, 1990-2010**

Geographic Area	1990	2000	2010	Percent Change (1990-2010)	Population as Percentage of Study Area Total (2010)
Blaine County, Idaho	13,552	18,991	21,376	57.7%	3.1%
Bonneville County, Idaho	72,207	82,522	104,234	44.4%	15.2%
Butte County, Idaho	2,918	2,899	2,891	-0.9%	0.4%
Camas County, Idaho	727	991	1,117	53.6%	0.2%
Caribou County, Idaho	6,963	7,304	6,963	0.0%	1.0%
Cassia County, Idaho	19,532	21,416	22,952	17.5%	3.3%
Clark County, Idaho	762	1,022	982	28.9%	0.1%
Custer County, Idaho	4,133	4,342	4,368	5.7%	0.6%
Elmore County, Idaho	21,205	29,130	27,038	27.5%	3.9%
Fremont County, Idaho	10,937	11,819	13,242	21.1%	1.9%
Gem County, Idaho	11,844	15,181	16,719	41.2%	2.4%
Gooding County, Idaho	11,633	14,155	15,464	32.9%	2.3%
Jefferson County, Idaho	16,543	19,155	26,140	58.0%	3.8%
Jerome County, Idaho	15,138	18,342	22,374	47.8%	3.3%
Lemhi County, Idaho	6,899	7,806	7,936	15.0%	1.2%
Lincoln County, Idaho	3,308	4,044	5,208	57.4%	0.8%
Madison County, Idaho	23,674	27,467	37,536	58.6%	5.5%
Minidoka County, Idaho	19,361	20,174	20,069	3.7%	2.9%
Oneida County, Idaho	3,492	4,125	4,286	22.7%	0.6%
Owyhee County, Idaho	8,392	10,644	11,526	37.3%	1.7%
Payette County, Idaho	16,434	20,578	22,623	37.7%	3.3%
Power County, Idaho	7,086	7,538	7,817	10.3%	1.1%
Twin Falls County, Idaho	53,580	64,284	77,230	44.1%	11.2%
Washington County, Idaho	8,550	9,977	10,198	19.3%	1.5%
Beaverhead County, Montana	8,424	9,202	9,246	9.8%	1.3%
Madison County, Montana	5,989	6,851	7,691	28.4%	1.1%
Socioeconomic Study Area	420,204	491,581	562,795	33.9%	100.0%
Idaho	1,006,734	1,293,953	1,567,582	55.7%	-
Montana	799,065	902,195	989,415	23.8%	-
United States	248,790,925	281,421,906	308,745,538	24.1%	-

Sources: US Census Bureau 1990, 2000, 2010a

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Since 1990, the population in Idaho has increased by 55.7 percent, more than doubling the United States population growth rate (24.1 percent) during the same time period. In contrast, Montana's population has grown 23.8 percent, closer to the rate of the United States as a whole. Both states experienced a higher percentage of population growth from 1990 to 2000 than they did from 2000 to 2010. The Socioeconomic Study Area population growth also outpaced the United States, growing 36 percent between 1990 and 2010.



1 The “Communities of Place” section below provides more information about the character  
2 and history of the counties in the Socioeconomic Study Area. **Table 3-57**, Demographic  
3 Characteristics, Share in Total Population (percent), 2010, shows age and gender  
4 characteristics of the population in each county of the Socioeconomic Study Area.

**Table 3-57**  
**Demographic Characteristics, Share in Total Population (percent), 2010**

Geographic Area	Women	20 to 64 Years of Age	Under 20 Years of Age	65 Years of Age or Older
Adams County, Idaho	48.7	58.2	21.0	20.8
Bear Lake County, Idaho	50.4	52.1	29.5	18.4
Bingham County, Idaho	49.8	52.8	35.8	11.4
Blaine County, Idaho	49.1	62.4	26.0	11.6
Bonneville County, Idaho	50.1	55.2	33.9	10.9
Butte County, Idaho	48.6	52.5	30.0	17.5
Camas County, Idaho	47.9	61.1	23.0	15.9
Caribou County, Idaho	49.6	53.3	30.9	15.8
Cassia County, Idaho	49.4	51.1	36.0	12.9
Clark County, Idaho	44.7	53.7	33.2	13.1
Custer County, Idaho	46.9	60.1	21.2	18.7
Elmore County, Idaho	48.3	58.9	31.1	10.0
Fremont County, Idaho	47.4	52.2	33.9	13.9
Gem County, Idaho	50.5	54.4	27.0	18.6
Gooding County, Idaho	48.3	52.6	32.3	15.1
Jefferson County, Idaho	49.8	52.2	38.2	9.6
Jerome County, Idaho	48.9	54.7	34.1	11.2
Lemhi County, Idaho	49	56.1	21.7	22.2
Lincoln County, Idaho	48.3	53.9	35.1	11.0
Madison County, Idaho	51.6	59.1	35.3	5.6
Minidoka County, Idaho	49.4	53.0	32.2	14.8
Oneida County, Idaho	48.9	51.1	32.2	16.7
Owyhee County, Idaho	48.9	54.1	31.9	14.0
Payette County, Idaho	50.5	53.3	31.4	15.3
Power County, Idaho	48.5	53.9	34.0	12.1
Twin Falls County, Idaho	50.6	55.7	30.4	13.9
Washington County, Idaho	50.8	52.4	27.1	20.5
Beaverhead County, Montana	48.8	58.9	24.2	16.9
Madison County, Montana	48	59.6	19.4	21.0
Socioeconomic Study Area	49.5	56.7	30.8	12.5
Idaho	49.9	57.2	30.4	12.4
Montana	49.8	59.9	25.3	14.8
United States	50.8	60.1	26.9	13.0

Source: US Census Bureau 2010b

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1 The Socioeconomic Study Area, Idaho, Montana, and the United States all generally follow  
2 the same trend in gender, with approximately half of the population being female. Of the  
3 counties within the Socioeconomic Study Area, Clark County, Idaho (44.7 percent) and  
4 Custer County, Idaho (46.9 percent) have the lowest percentages of women. And only one  
5 county, Madison County, Idaho (51.6 percent) has a higher percentage of women than the  
6 nation.

7 Idaho and the Socioeconomic Study Area have a younger population than the nation: each  
8 having 57 percent of the population between 20 and 64 years of age compared to 60 percent  
9 of the national population, and more than 30 percent of the population less than 20 years of  
10 age compared to only 27 percent of the national population. In contrast, Montana has a  
11 slightly older population than the nation, having nearly 15 percent of the population being  
12 65 years or older compared to only 13 percent of the national population. Of the counties  
13 within the Socioeconomic Study Area, Bingham County, Idaho; Cassia County, Idaho;  
14 Jefferson County, Idaho; Jerome County, Idaho; Lincoln County, Idaho; Madison County,  
15 Idaho; and Power County, Idaho, have the highest percentages of residents under the age of  
16 20, all at least 7 percentage points higher than the national average (60.1 percent). In  
17 contrast, Adams County, Idaho; Lemhi County, Idaho; Washington County, Idaho; and  
18 Madison County, Montana, have the highest percentages of residents over the age of 65, all  
19 at least 7 percentage points higher than the national average (13 percent).

#### 20 *Interest Groups and Communities of Place*

21 There is a range of interest groups in the Socioeconomic Study Area, including groups that  
22 focus advocacy on resource conservation and others that focus advocacy on resource uses  
23 such as livestock grazing. There are also groups that represent coalitions of interest groups.  
24 A list of interest groups that have requested to receive a copy of the LUPA/DEIS are  
25 provided in Chapter 5. The types of interest groups identified within the Socioeconomic  
26 Study Area include the following: federal agencies, state agencies, county agencies, local  
27 agencies, congressional representatives, local representatives, academic institutions, civic  
28 organizations, local chambers of commerce, environmental groups, land conservation  
29 groups, outdoors groups, local school boards, farm associations, Native American groups  
30 and Tribal Governments, and various business groups. Specific types of business interest  
31 groups identified include the following: real estate, tourism, mineral extraction,  
32 farms/ranches, textile manufacturers, livestock growers, and news media.

33 The Socioeconomic Study Area includes various communities of people who are bound  
34 together because of where they reside, work, visit, or otherwise spend a continuous portion  
35 of their time. Stakeholder groups currently benefitting from BLM-administered and National  
36 Forest System lands within the Socioeconomic Study Area include those associated with  
37 agriculture and livestock production; forest products; mining; travel, tourism, and recreation;  
38 and local residents (see, for example, BLM 2006a and 2008; Forest Service 2003).

39 A common perception is that there is a dichotomy of values and attitudes between  
40 stakeholder groups in the Socioeconomic Study Area between individuals or groups who feel  
41 that resource conservation and nonconsumptive uses of BLM-administered lands are more  
42 important than benefits derived from consumptive type uses, such as livestock grazing,

1 timber harvesting, and mining. At a more nuanced scale, however, personal attitudes,  
2 interests, and values are quite complex, and these groupings are not mutually exclusive. The  
3 high value that residents and visitors place on small town character, private property rights,  
4 low population density, scenery and landscape, outdoors and open space, the rural lifestyle,  
5 fishing, and hunting are commonly held throughout the Socioeconomic Study Area (BLM  
6 2006a and 2008; Forest Service 2003). These values are commonly expressed within  
7 individual county land use plans, and were also expressed by attendees at both scoping  
8 meetings and the Economic Strategies Workshop that BLM and Forest Service held in Twin  
9 Falls, Idaho, in June 2012.

10 A unifying theme expressed by residents of the Socioeconomic Study Area – including in  
11 previous planning processes – is the concern for the preservation of rural characteristics and  
12 values. For example, a shift toward larger, more mechanized agricultural operations, as well  
13 as the increasing diversification of local economies, have challenged traditional ways of life in  
14 many communities. These changes are evident in the declining number of mid-sized farms  
15 and the number of workers employed in agriculture and agriculture-based industries (Blaine  
16 County 1994; Power County 2009; Headwaters Economics 2012; US Department of  
17 Commerce 2012a). Nevertheless, farming and ranching remain important parts of the  
18 economy, society, and culture across the Socioeconomic Study Area.

19 In some areas, particularly those with scenic and recreational amenities, farmlands and  
20 ranches are being sold and used for recreation purposes or subdivided for homesites. This  
21 phenomenon is part of a larger trend in which many rural communities in the western  
22 United States have witnessed "migration turnaround," a reversal of the rural-to-urban  
23 migration that characterized much of the United States prior to the 1970s. Many rural areas  
24 are now experiencing a significant increase in population after decades of stability or decline  
25 (BLM 2006a). In response to recent commercial and industrial expansion and the associated  
26 demand for affordable, diversified housing, many counties are encouraging infill  
27 development and other strategies to prevent the loss of agricultural lands and maintain the  
28 rural character of their communities (Caribou County 2006).

29 Despite population increases across most of the study area, some rural areas continue to lose  
30 population (Idaho Department of Labor 2011). This is due, in part, to the out-migration of  
31 young people and aging of the population (Idaho Commerce & Labor 2005). In contrast to  
32 communities where in-migration is occurring, residents of these communities may be more  
33 concerned about the economic survival of their communities. Multiple use management of  
34 and access to BLM-administered lands, which comprise a large portion of lands in many  
35 counties, are cited as paramount concerns in these areas (BLM 2006a). Residents expressed  
36 some similar themes during public scoping and the June 2012 Economic Strategies  
37 Workshop for this planning effort (BLM and Forest Service 2012; BLM 2012b). Comments  
38 received from these outreach efforts came from nonprofit or citizen groups; local, state and  
39 federal agencies; the commercial sector and members of the general public. These comments  
40 strongly supported maintaining or expanding access to BLM-administered lands for grazing  
41 and recreational purposes. Many expressed concern that placing additional constraints on  
42 these activities might create economic hardship within their communities and alter



1 traditional cultural values and lifestyles. Additionally, some argued that constraints on  
2 livestock grazing would exacerbate existing trends of conversion of ranch lands to  
3 agricultural and residential uses, perhaps with the unintended consequence of decreasing  
4 open space and wildlife habitat. Other issues of concerns cited by residents include the  
5 management of invasive species, fire and fuels, and whether BLM-administered lands should  
6 be opened to wind energy development.

7 Economic activity and land use patterns in the Socioeconomic Study Area have been  
8 strongly influenced by the region's dramatic geography. Agriculture, timber harvesting, and  
9 mining have historically defined the character and lifestyle of much of the Study Area.  
10 Within the past two decades, however, increasing urbanization and the growth of service  
11 sector industries, including retail trade, local government, and health care, have been  
12 powerful agents of change on the landscape and local cultures (Headwaters Economics  
13 2012; US Department of Commerce 2012a).

14 The rolling hills and valleys of the Northern Basin and Range, which stretches across much  
15 of southern Idaho, provide ample opportunities for livestock grazing with occasional  
16 croplands, and contains all or substantial parts of Caribou, Cassia, Oneida, Owyhee, Power,  
17 and Twin Falls Counties (McGrath et al. 2002). The region is still heavily dependent on  
18 agriculture and agriculture-based industries, despite stagnant or declining employment in  
19 these sectors (Headwaters Economics 2012; US Department of Commerce 2012a). Twin  
20 Falls is the most populous city in the Socioeconomic Study Area and the seventh largest city  
21 in the State of Idaho, and serves as the major commercial and industrial hub of south-central  
22 Idaho's Magic Valley region, so named due to the transformation of the basin into  
23 productive farmland through the construction of extensive irrigation systems in the early  
24 1900s. Twin Falls is also the principal city of the Twin Falls, Idaho Micropolitan Statistical  
25 Area, which includes Jerome and Twin Falls Counties.

26 The broad Snake River Plain that arcs just north of Idaho's Basin and Range region contains  
27 all or substantial parts of Ada, Adams, Bingham, Canyon, Elmore, Gem, Gooding, Jefferson,  
28 Jerome, Lincoln, Madison, Minidoka, Payette, and Washington Counties. Potatoes, sugar  
29 beets, alfalfa, grains, and vegetables are grown in areas where irrigation and soil depth are  
30 suitable for crop production (McGrath et al. 2002). Other prominent land uses include  
31 livestock grazing, cattle feedlots, and dairy operations. The barren, lava-field landscape of  
32 Craters of the Moon National Monument is a popular visitor attraction showcasing the  
33 region's unique geologic history. Upward trends in population growth, fueled by expansion  
34 in the retail trade and small manufacturing sectors over the past decade, have left some  
35 school districts and governmental service struggling to provide maintain adequate levels of  
36 service (Jefferson County 2005).

37 Butte, Camas, Clark, Custer, and Lemhi Counties are located in Idaho's Rocky Mountain  
38 region, which rises sharply from the northern edge of the Snake River Plain. Here, timber  
39 harvesting, grazing, and recreation are the predominant land uses (McGrath et al. 2002). The  
40 counties of Bonneville, Butte, Caribou, and Fremont in Idaho and Beaverhead, and Madison  
41 in southwestern Montana also offer abundant opportunities for outdoor recreation. Popular  
42 activities include fishing, hunting, hiking, horseback riding, off-highway vehicle use, skiing,

1 and sightseeing, which attract residents, as well as visitors from all areas of the United States  
2 (BLM, 2005b, 2008). In many communities, growth in tourism and recreation industries has  
3 largely outpaced historical land uses. The in-migration of residents who purchase smaller  
4 ranches or farms, but do not depend on the economic return from these activities as their  
5 primary source of income, has created conflict with long-time rural residents (BLM 2008).

6 Bear Lake County, which occupies the far southeastern corner of Idaho and the Wasatch  
7 and Uinta Range, has remained largely rural but serves also as an important destination for  
8 tourists and recreationists.

9 *County Land Use Plans*

10 BLM-administered, National Forest System, and other federal lands in the Socioeconomic  
11 Study Area are intermingled with state and private lands. County governments have land use  
12 planning responsibility for the private lands located within their jurisdictions. County-level  
13 LUPs (also referred to as Comprehensive plans or Growth Policies) were identified for 26 of  
14 the 29 counties within the Socioeconomic Study Area (Adams County, 2006; Bingham  
15 County, 2005; Blaine County, 1994; Bonneville County, 2004; Camas County, 2006; Caribou  
16 County, 2006; Cassia County, 2006; Clark County, 2010; Custer County, 2006; Elmore  
17 County, 2004; Fremont County, 2008; Gem County, 2010; Gooding County, 2010; Jefferson  
18 County, 2005; Jerome County, 2006; Lemhi County, 2007; Lincoln County, 2008; Madison  
19 County, 2008; Minidoka County, 2001; Owyhee County, 2010; Payette County, 2006; Power  
20 County, 2009; Twin Falls County, 2008; Washington County, 2010; Beaverhead County,  
21 2009; Madison County, 2006). Of the counties with identified LUPs, all had some form of  
22 economic development component, such as promotion of specific industrial sectors and  
23 natural resource use.

24 *Economic Conditions*

25 Economic analysis is concerned with the production, distribution, and consumption of  
26 goods and services. This section provides a summary of economic information, including  
27 trends and current conditions. It also identifies and describes major economic sectors in the  
28 Socioeconomic Study Area that can be affected by management actions. Most likely affected  
29 would be those economic activities that rely or could rely on BLM-administered lands, such  
30 as recreation and livestock grazing.

31 *Economic Sectors, Employment, and Personal Income*

32 The distribution of employment and income by industry sector within the Socioeconomic  
33 Study Area is summarized in **Table 3-58**, Employment by Sector within the Socioeconomic  
34 Study Area, and **Table 3-59**, Labor Income by Sector within the Socioeconomic Study Area  
35 (2010 dollars), below. See **Appendix Z** for equivalent data by county.





**Table 3-58**  
**Employment by Sector within the Socioeconomic Study Area**

Socioeconomic Study Area	Absolute			Percentage of Total		Percent Change 2001-2010
	2001	2010	Change 2001-2010	2001	2010	
<b>Total Employment (number of jobs)</b>	<b>281,346</b>	<b>309,620</b>	<b>28,274</b>	<b>100.00%</b>	<b>100.00%</b>	<b>10.05%</b>
<b>Non-services related</b>	<b>72,614</b>	<b>67,772</b>	<b>-4,842</b>	<b>25.81%</b>	<b>21.89%</b>	<b>-6.67%</b>
Farm	28,028	25,639	-2,389	9.96%	8.28%	-8.52%
Forestry, fishing, & related activities	2,613	2,938	325	0.93%	0.95%	12.44%
Mining (including oil and gas)	777	960	183	0.28%	0.31%	23.55%
Construction	19,432	18,913	-519	6.91%	6.11%	-2.67%
Manufacturing	21,764	19,322	-2,442	7.74%	6.24%	-11.22%
<b>Services related</b>	<b>142,525</b>	<b>171,386</b>	<b>28,861</b>	<b>50.66%</b>	<b>55.35%</b>	<b>20.25%</b>
Utilities	374	762	388	0.13%	0.25%	103.74%
Wholesale trade	11,080	11,115	35	3.94%	3.59%	0.32%
Retail trade	31,535	32,653	1,118	11.21%	10.55%	3.55%
Transportation and warehousing	5,787	9,361	3,574	2.06%	3.02%	61.76%
Information	2,973	3,761	788	1.06%	1.21%	26.51%
Finance and insurance	7,325	10,547	3,222	2.60%	3.41%	43.99%
Real estate and rental and leasing	7,906	12,986	5,080	2.81%	4.19%	64.25%
Professional and technical services <sup>1</sup>	16,507	19,380	2,873	5.87%	6.26%	17.40%
Management of companies and enterprises	480	361	-119	0.17%	0.12%	-24.79%
Administrative and waste services	10,062	9,350	-712	3.58%	3.02%	-7.08%
Educational services	1,273	1,792	519	0.45%	0.58%	40.77%
Health care and social assistance	14,042	19,239	5,197	4.99%	6.21%	37.01%
Arts, entertainment, and recreation	3,593	5,247	1,654	1.28%	1.69%	46.03%
Accommodation and food services	16,691	18,404	1,713	5.93%	5.94%	10.26%
Other services, except public administration	12,897	16,428	3,531	4.58%	5.31%	27.38%



**Table 3-58**  
**Employment by Sector within the Socioeconomic Study Area**

Socioeconomic Study Area	Absolute			Percentage of Total		Percent Change 2001-2010
	2001	2010	Change 2001-2010	2001	2010	
<b>Government</b>	<b>42,027</b>	<b>43,854</b>	<b>1,827</b>	<b>14.94%</b>	<b>14.16%</b>	<b>4.35%</b>
Federal	10,984	10,670	-314	3.90%	3.45%	-2.86%
State	3,484	3,425	-59	1.24%	1.11%	-1.69%
Local	27,559	29,759	2,200	9.80%	8.6%	7.98%

Sources: US Department of Commerce 2012a

<sup>1</sup>Professional and technical services activities require a high degree of expertise and training. Example activities include: legal advice and representation; accounting, bookkeeping, and payroll services; architectural, engineering, and specialized design services; computer services; consulting services; research services; advertising services; photographic services; translation and interpretation services; and veterinary services.

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**Table 3-59**  
**Labor Income by Sector within the Socioeconomic Study Area (2010 dollars)**

Socioeconomic Study Area	Absolute (Millions)			Percentage of Total <sup>1</sup>		Percent Change 2001-2010
	2001	2010	Change 2001-2010	2001	2010	
<b>Total Labor Earnings<sup>2</sup></b>	<b>10,272</b>	<b>\$11,793</b>	<b>\$1,521</b>	<b>100.00%</b>	<b>100.00%</b>	<b>14.81%</b>
<b>Non-services related</b>	<b>\$2,990</b>	<b>\$2,947</b>	<b>-\$43</b>	<b>29.11%</b>	<b>24.99%</b>	<b>-1.44%</b>
Farm	\$1,081	\$1,215	\$134	10.52%	10.30%	12.40%
Forestry, fishing, & related activities	\$71	\$96	\$25	0.69%	0.81%	35.21%
Mining (including oil and gas)	\$33	\$38	\$5	0.32%	0.32%	15.15%
Construction	\$851	\$693	-\$158	8.28%	5.88%	-18.57%
Manufacturing	\$954	\$905	-\$49	9.29%	7.67%	-5.14%
<b>Services related</b>	<b>\$4,612</b>	<b>\$5,712</b>	<b>\$1,100</b>	<b>44.90%</b>	<b>48.44%</b>	<b>23.85%</b>
Utilities	\$24	\$70	\$46	0.23%	0.59%	191.67%
Wholesale trade	\$467	\$602	\$135	4.55%	5.10%	28.91%
Retail trade	\$809	\$806	-\$3	7.88%	6.83%	-0.37%
Transportation and warehousing	\$267	\$422	\$155	2.60%	3.58%	58.05%
Information	\$107	\$140	\$33	1.04%	1.19%	30.84%
Finance and insurance	\$224	\$290	\$66	2.18%	2.46%	29.46%
Real estate and rental and leasing	\$138	\$159	\$21	1.34%	1.35%	15.22%
Professional and technical services	\$1,070	\$1,293	\$223	10.42%	10.96%	20.84%
Management of companies and enterprises	\$34	\$17	-\$17	0.33%	0.14%	-50.00%

**Table 3-59**  
**Labor Income by Sector within the Socioeconomic Study Area (2010 dollars)**

Socioeconomic Study Area	Absolute (Millions)			Percentage of Total <sup>1</sup>		Percent Change 2001-2010
	2001	2010	Change 2001-2010	2001	2010	
Administrative and waste services	\$178	\$202	\$24	1.73%	1.71%	13.48%
Educational services	\$22	\$28	\$6	0.21%	0.24%	27.27%
Health care and social assistance	\$557	\$827	\$270	5.42%	7.01%	48.47%
Arts, entertainment, and recreation	\$120	\$98	-\$22	1.17%	0.83%	-18.33%
Accommodation and food services	\$270	\$330	\$60	2.63%	2.80%	22.22%
Other services, except public administration	\$325	\$428	\$103	3.16%	3.63%	31.69%
<b>Government</b>	<b>\$1,924</b>	<b>\$2,208</b>	<b>\$284</b>	<b>18.73%</b>	<b>18.72%</b>	<b>14.76%</b>
Federal	\$684	\$841	\$157	6.66%	7.13%	22.95%
State	\$172	\$179	\$7	1.67%	1.52%	4.07%
Local	\$1,068	\$1,188	\$120	10.40%	10.07%	11.24%
<b>Non-labor Income<sup>3</sup></b>	<b>\$5,939</b>	<b>\$8,250</b>	<b>\$2,311</b>	<b>41.71%</b>	<b>47.14%</b>	<b>38.91%</b>
Dividends, interest, and rent	\$2,719	\$3,325	\$606	19.10%	19.00%	22.29%
Personal current transfer receipts <sup>4</sup>	\$2,112	\$3,516	\$1,404	14.83%	20.09%	66.48%
Contributions to government social insurance <sup>5</sup>	\$1,108	\$1,409	\$301	7.78%	8.05%	27.17%
<b>Total Personal Income<sup>6</sup></b>	<b>\$14,239</b>	<b>\$17,501</b>	<b>\$3,262</b>	<b>100.00%</b>	<b>100.00%</b>	<b>22.91%</b>

Sources: US Department of Commerce, 2012a. Values reported in 2001 dollars were converted to 2010 dollars using the Consumer Price Index (Bureau of Labor Statistics [BLS] 2012a).

<sup>1</sup>Industry earnings are reported as a share of total labor earnings. Dividends, interest, and rent; personal current transfer receipts; and contributions to government social insurance are reported as a share of personal income.

<sup>2</sup>Total labor earnings are reported by place of work.

<sup>3</sup>Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>4</sup>“Personal current transfer receipts” are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>5</sup>“Contributions for government social insurance” consists of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans’ life insurance; publicly-administered workers’ compensation; military medical insurance; and temporary disability insurance (US Department of Commerce 2012b).

<sup>6</sup>Total personal income is reported by place of residence.

1 With respect to employment by industry sector, the services-related sector accounted for the  
2 largest share (55.4 percent) of total employment in the Socioeconomic Study Area in 2010.  
3 This reflects a growth rate of 20.3 percent from 2001 (compared to an overall employment  
4 growth rate for all sectors of 10.1 percent from 2001). Compared to the services related  
5 sector, the non-services related sector and the government sector represented lower levels of  
6 employment, 21.9 percent and 14.2 percent, respectively. At the industry level, retail trade  
7 (10.6 percent) accounted for the largest share of employment of all industries in the  
8 Socioeconomic Study Area in 2010, followed by local government (9.6 percent), professional  
9 and technical services (6.3 percent), and health care and social assistance (6.2 percent).  
10 Although mining contributed a relatively small share of total employment within the study  
11 area in 2010, a notable proportion of total employment within Caribou County (21 percent)  
12 and Custerlark County (32 percent) came from the mining industry, according to estimates  
13 from Headwaters Economics (2013). The industries that demonstrated the largest growth  
14 between 2001 and 2010 were utilities, with an increase of 103.7 percent; real estate rental and  
15 leasing, with an increase of 64.3 percent; and transportation and warehousing, with an  
16 increase of 61.8 percent. The industries with greatest decrease in employment levels from  
17 2001 to 2010 were management of companies and enterprises (decrease of 24.8 percent),  
18 manufacturing (decrease of 11.2 percent), and farming (decrease of 8.5 percent).

19 **Appendix Z** provides county-level employment figures. The greatest difference in industry  
20 sector proportion between counties in 2010 was in the professional and technical services  
21 industry. Professional and technical services contributed a low 1.5 percent of total  
22 employment in Power County, Idaho, but a much larger percentage in Butte County, Idaho  
23 (83.8 percent). Other industries also showed large variation in shares of employment across  
24 counties, including the farm industry (from 1.5 percent in Blaine County, Idaho, to 25.6  
25 percent in Gooding County, Idaho) and the manufacturing industry (from 0.6 percent in  
26 Butte County, Idaho, to 24.8 percent in Power County, Idaho). Other counties identified as  
27 having relatively high employment shares in the farming industry include Lincoln County,  
28 Idaho (22.5 percent); Oneida County, Idaho (22.6 percent); and Owyhee County, Idaho  
29 (25.3 percent). The federal government industry also showed a high level of variation in  
30 shares across counties (from 1 percent in Blaine County, Idaho, to 35.5 percent in Elmore  
31 County, Idaho). However, in 24 of the 29 counties included in the Socioeconomic Study  
32 Area, the federal government contributed less than 5 percent of employment. Recreation-  
33 related economic activity, including the arts, entertainment, and recreation; retail trade; and  
34 accommodation and food services industries, varied across the counties (by 8.4 percentage  
35 points, 12.7 percentage points, and 16.7 percentage points, respectively). Note that these  
36 sectors are influenced not only by recreation but also by many other industries. See  
37 **Appendix Z** for individual county detail.

38 With respect to labor earnings, the services-related sector accounted for the largest share  
39 (48.4 percent) of labor earnings in the Socioeconomic Study Area in 2010, followed by the  
40 non-services related sector (25.0 percent) and the government sector (18.7 percent). In 2010,  
41 the individual industries that generated the largest shares of labor earnings included the  
42 professional and technical services industry (11.0 percent), farming (10.3 percent) and the  
43 local government industry (10.1 percent). Labor earnings associated with utilities almost



1 tripled during the 2001-2010 period. Other sectors showing strong trends of growth since  
2 2001 include transportation and warehousing (58.1 percent) and health care and social  
3 assistance (48.5 percent). During the same time period, management of companies and  
4 enterprises, construction and recreation experienced the largest decline in earnings of all the  
5 industry sectors (declines of 50.0 percent, 18.6 percent and 18.3 percent, respectively).

6 **Appendix Z** provides county-level labor earnings figures. The county-by-county patterns are  
7 similar to those for employment, with relatively more variation in income from professional  
8 and technical services than from other industries; professional and technical services  
9 contribute the most to earnings in Butte County, Idaho at 93.5 percent. At the other end of  
10 the range, professional and technical services accounts for only 1.2 percent of earnings in  
11 Elmore County, Idaho and only 1.3 percent in Power County, Idaho. Of the counties for  
12 which data are provided (20 of 29), only two earn more than 10 percent of income from the  
13 professional and technical services industry. Farm income varied from a low share of -2.1  
14 percent of total earnings in Adams County, Idaho to highs of 47.3 percent in Gooding  
15 County, Idaho, followed by 46.9 percent in Owyhee County, Idaho. Manufacturing income  
16 varied in proportion across the counties, from 0.2 percent of earnings in Butte County,  
17 Idaho to 32.9 percent in Power County, Idaho. Earnings from the mining sector are left  
18 undisclosed in 15 of the 29 counties included in the Socioeconomic Study Area due to  
19 confidentiality requirements. Furthermore, mining sector earnings figures are not provided  
20 for nine of the 29 counties because the earnings amounted to less than \$50,000 in those  
21 counties. For the counties for which data are available, earnings from mining range from 0.1  
22 percent in Twin Falls County, Idaho to a share of 12.7 percent of total earnings in Caribou  
23 County, Idaho. Accommodation and food services contributes 0.1 percent of total earnings  
24 in Butte County, Idaho and up to 16.6 percent in Madison County, Montana. The other  
25 recreation and travel-related industries (i.e., retail trade and arts, entertainment, and  
26 recreation) contribute between 0.1 percent (arts, entertainment, and recreation in Elmore  
27 County, Idaho) and 16.2 percent (retail trade in Adams County, Idaho).

28 In addition to industry shares of labor earnings, another metric – residence adjustment –  
29 provides information about the economic conditions in the Socioeconomic Study Area.  
30 Residence adjustment represents the net inflow of the earnings of inter-area commuters. A  
31 positive number indicates that, on balance, area residents commute outside to find jobs; a  
32 negative number indicates that, on balance, people from outside the area commute in to find  
33 jobs. Jefferson County, Idaho’s residence adjustment represented 27.8 percent of its total  
34 personal income, the highest share of all counties in the Socioeconomic Study Area. Gem  
35 County, Idaho had the second highest share (25.8 percent). Residence adjustment accounted  
36 for the lowest share of total personal income in Butte County, Idaho (-701.3 percent),  
37 followed by Caribou County, Idaho (-22.1 percent). See **Appendix Z** for individual county  
38 detail.

39 **Appendix Z** provides employment and earnings data for Ada, Bannock, Boise, and Canyon  
40 Counties in Idaho, and Gallatin and Silver Bow Counties in Montana, which constitute the  
41 secondary study area as discussed in the introduction. In 2010, overall employment in the  
42 six-county secondary study area (472,046) was greater than overall employment levels in the  
43 29-county Primary Socioeconomic Study Area (309,753). Earnings (by place of work) in the

1 six-county secondary study area were \$19,896, considerably larger than earnings in the  
2 Primary Socioeconomic Study Area (\$11,793). The impact analysis in the next chapter will  
3 document potential effects on the economy in the secondary study area, as well as for the 29  
4 counties within the Primary Socioeconomic Study Area.

5 Error! Reference source not found., Error! Reference source not found., presents the  
6 unemployment rates for each county in the Socioeconomic Study Area, as well as the rates  
7 for the counties aggregated and the States of Idaho and Montana. The data show that  
8 unemployment in the Socioeconomic Study Area matches or approximates that of the state  
9 for each of the years listed. At the county level, in 2013, the unemployment rates in the  
10 Socioeconomic Study Area ranged from a low of 3.8 percent in Oneida County to a high of  
11 12.8 percent in Adams County.

**Table 3-60**  
**Annual Unemployment, 2007 – 2013**

<b>Geographic Area</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>
Adams County, Idaho	5.5%	10.1%	14.1%	16.4%	17.0%	14.3%	12.8%
Bear Lake County, Idaho	2.3%	3.2%	5.0%	6.2%	5.3%	4.8%	4.5%
Bingham County, Idaho	2.6%	3.8%	5.6%	6.9%	7.0%	6.3%	5.9%
Blaine County, Idaho	2.3%	3.7%	7.1%	8.8%	8.3%	6.7%	5.6%
Bonneville County, Idaho	2.1%	3.4%	5.4%	6.6%	6.8%	6.2%	5.4%
Butte County, Idaho	2.4%	4.1%	4.8%	6.2%	7.0%	7.4%	6.7%
Camas County, Idaho	2.4%	4.3%	9.0%	11.2%	10.5%	9.3%	6.0%
Caribou County, Idaho	2.8%	3.5%	5.7%	7.5%	7.3%	6.0%	5.3%
Cassia County, Idaho	3.1%	3.7%	5.1%	6.7%	6.5%	5.7%	5.3%
Clark County, Idaho	2.2%	3.3%	5.1%	8.4%	7.8%	6.6%	5.2%
Custer County, Idaho	3.3%	4.4%	5.2%	7.1%	7.1%	7.4%	7.8%
Elmore County, Idaho	3.8%	5.4%	7.2%	8.5%	8.3%	7.7%	7.0%
Fremont County, Idaho	3.2%	4.7%	7.6%	9.1%	7.9%	6.7%	5.9%
Gem County, Idaho	3.7%	6.7%	10.0%	11.0%	11.0%	9.5%	7.7%
Gooding County, Idaho	2.1%	3.3%	5.3%	6.8%	6.3%	5.3%	4.6%





**Table 3-60**  
**Annual Unemployment, 2007 – 2013**

<b>Geographic Area</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>
Jefferson County, Idaho	2.4%	3.6%	6.0%	7.2%	7.0%	6.2%	5.2%
Jerome County, Idaho	2.8%	4.0%	6.0%	8.1%	7.6%	6.7%	5.5%
Lemhi County, Idaho	4.4%	6.5%	7.7%	9.9%	10.4%	10.0%	9.8%
Lincoln County, Idaho	3.3%	5.4%	10.2%	12.9%	12.0%	9.4%	7.9%
Madison County, Idaho	2.1%	3.3%	5.1%	5.8%	6.4%	5.1%	4.6%
Minidoka County, Idaho	3.8%	4.3%	5.7%	7.4%	7.0%	6.2%	5.7%
Oneida County, Idaho	1.7%	3.3%	5.3%	5.0%	5.0%	4.3%	3.8%
Owyhee County, Idaho	1.9%	3.0%	3.8%	4.8%	4.9%	5.1%	4.6%
Payette County, Idaho	4.1%	5.6%	8.4%	9.2%	9.1%	8.2%	7.2%
Power County, Idaho	3.9%	5.1%	6.9%	9.2%	8.9%	8.3%	7.0%
Twin Falls County, Idaho	2.7%	3.8%	5.9%	8.0%	7.7%	6.8%	5.7%
Washington County, Idaho	4.1%	5.5%	8.4%	10.0%	9.7%	8.5%	7.6%
Beaverhead County, Montana	2.7%	3.6%	4.4%	5.3%	5.5%	5.1%	4.5%
Madison County, Montana	2.8%	3.8%	5.6%	6.9%	6.6%	6.0%	5.3%
Socioeconomic Study Area	2.7%	4.0%	6.1%	7.6%	7.5%	6.6%	5.8%
Idaho	3.0%	4.8%	7.4%	8.7%	8.4%	7.3%	6.2%
Montana	3.4%	4.5%	6.0%	6.7%	6.5%	6.0%	5.6%

Source: BLS 2014b

*Recreation*

An estimated 15.3 percent of the employment in the primary study area is related to travel and tourism (Headwaters Economics 2012). This estimate is based on data from the US Census Bureau County Business Patterns and includes industrial sectors that, at least in part, provide goods and services to visitors, the local economy, and the local population. This estimate includes both full- and part-time jobs. Most of these jobs are concentrated in the “accommodation and food services” and “retail trade” sectors. Jobs related to travel and tourism are more likely to be seasonal or part-time and are more likely to have lower average annual earnings than jobs in non-travel and tourism-related sectors. The average annual wage



1 per travel or tourism related job is roughly half that of jobs not related to travel and tourism.  
2 In 2010 dollars, the average annual wage was \$14,820 in 2011 compared to \$31.315 for jobs  
3 not related to travel and tourism (Headwaters Economics 2013).

4 Although much of the recreation use on BLM-administered lands is dispersed and far from  
5 counting devices (e.g., trail registers, fee stations, and vehicle traffic counters),  
6 approximations of the number of visitors to BLM-administered lands can be obtained from  
7 the BLM Recreation Management Information Service database, in which BLM recreation  
8 specialists provide estimated total visits and visitor days to various sites within their field  
9 office boundaries. **Table 3-61**, Estimated Annual Visits by Planning Unit, summarizes BLM  
10 visitation data in each field office area for fiscal year (FY) 2011 (i.e., the year ending  
11 September 30, 2011), and Forest Service visitation data from Round 2 of the National  
12 Visitor Use Monitoring program.

13 Visitor expenditures can be approximated by using the BLM Recreation Management  
14 Information Service database and Forest Service National Visitor Use Monitoring program  
15 visitation data in conjunction with data from Forest Service, which has constructed  
16 recreation visitor spending profiles based on years of survey data gathered through the  
17 Forest Service National Visitor Use Monitoring program. Although the data are collected  
18 from National Forest visitors, the analysis that follows is based on the National Visitor Use  
19 Monitoring program profiles because the BLM has no analogous database. The profiles  
20 break down recreation spending by type of activity, day use versus overnight use, local  
21 versus non-local visitors, and “non-primary” visits (i.e., incidental visits where the primary  
22 purpose of the trip was other than visiting BLM-administered lands). **Table 3-62**, Visitor  
23 Spending from Recreation on BLM-Administered and National Forest System Land in  
24 Socioeconomic Study Area, FY 2011, summarizes individual and party visits and  
25 expenditures by trip type and estimated direct expenditure.

**Table 3-61**  
**Estimated Annual Visits by Planning Unit**

Field Office or National Forest	Total Individual Visits, FY 2011	Local Individual Visits <sup>1</sup>	Non-local Individual Visits <sup>1</sup>	Non Primary <sup>1</sup> Individual Visits <sup>2</sup>
Bruneau Field Office, Idaho	24,740	13,360	8,164	3,216
Burley Field Office, Idaho	642,867	347,148	212,146	83,573
Challis Field Office, Idaho	217,505	117,453	71,777	28,276
Four Rivers Field Office, Idaho	235,643	127,247	77,762	30,634
Jarbridge Field Office, Idaho	39,980	21,589	13,193	5,197
Owyhee Field Office, Idaho	288,968	156,043	95,359	37,566
Pocatello Field Office, Idaho	292,275	157,829	96,451	37,996
Salmon Field Office, Idaho	269,976	145,787	89,092	35,097
Shoshone Field Office, Idaho	926,637	500,384	305,790	120,463

**Table 3-61**  
**Estimated Annual Visits by Planning Unit**

Field Office or National Forest	Total Individual Visits, FY 2011	Local Individual Visits <sup>1</sup>	Non-local Individual Visits <sup>1</sup>	Non Primary <sup>1</sup> Individual Visits <sup>2</sup>
Upper Snake Field Office, Idaho	1,174,536	634,249	387,597	152,690
Dillon Field Office, Montana	1,431,825	773,186	472,502	186,137
Beaverhead-Deerlodge National Forest	907,830	490,228	299,584	118,018
Boise National Forest	1,509,436	815,095	498,114	196,227
Caribou-Targhee National Forest <sup>3</sup>	1,291,105	697,197	426,065	167,844
Salmon-Challis National Forest	236,435	127,675	78,024	30,737
Sawtooth National Forest	1,086,883	586,917	358,671	141,295
<b>Total</b>	<b>10,576,641</b>	<b>5,711,387</b>	<b>3,490,291</b>	<b>1,374,966</b>

Source: BLM 2012c; Forest Service 2012b

<sup>1</sup> Non primary means incidental visits where the primary purpose of the trip was other than visiting the National Forest being surveyed.

<sup>2</sup> Based on national averages for all National Forests. White and Goodding (2012).

<sup>3</sup> Includes Curlew National Grassland

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**Table 3-62**  
**Visitor Spending from Recreation on BLM-Administered and National Forest System Land in Socioeconomic Study Area, FY 2011**

Trip Type	Percent of Visits	Estimated Number of Individual Visits	Average Party Size	Estimated Number of Party Visits	Party Spending Per Visit (2010 \$)	Estimated Direct Expenditure (Millions \$)
Non-local Day Trips	10	1,057,664	2.5	423,066	\$63.68	\$26.94
Non-local Overnight on Public Lands	9	951,898	2.6	366,115	\$237.27	\$86.87
Non-local Overnight off Public Lands	14	1,480,730	2.6	569,511	\$522.63	\$297.64
Local Day Trips	49	5,182,554	2.1	2,467,883	\$33.56	\$82.82
Local Overnight on Public Lands	4	423,066	2.6	162,718	\$165.14	\$26.87
Local Overnight off Public Lands	1	105,767	2.4	44,070	\$216.48	\$9.54
Non Primary Visits	13	1,374,964	2.5	549,985	\$376.62	\$207.14
<b>Total</b>	<b>100</b>	<b>10,576,641</b>	<b>-</b>	<b>4,583,347</b>	<b>-</b>	<b>\$737.82</b>

Source: White and Goodding 2012; Forest Service 2012b; BLS 2012a

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As **Table 3-62** shows, the estimated total visitor spending on BLM-administered and National Forest System lands in the Socioeconomic Study Area was about \$737.82 million in FY 2011. It is important to note that this includes expenditures from local residents and from visitors whose use of BLM-administered lands was incidental to some other primary purpose.

*Grazing*

Farming employed approximately 25,639 people in the Socioeconomic Study Area in 2010, accounting for 8.2 percent of total employment. The average annual wage for a farm job in the Study Area was \$27,565 in 2011 (in \$2010 dollars). This was lower than the average annual wage for a non-farm job (\$28,603) (Headwaters Economics 2013).<sup>3</sup>

**Table 3-638**, Farm Earnings Detail, 2010 (2010 dollars), presents the proportion of personal income originating from farm earnings and the farm cash receipts from livestock received throughout the Socioeconomic Study Area and Idaho and Montana as a whole. As shown in **Table 3-68**, agricultural services are an important contribution in several counties; however, in some counties the data are not released for confidentiality reasons.

**Table 3-68** shows the relative contribution of farm earnings across the counties in the Socioeconomic Study Area. Farm earnings constitute the largest share of total earnings in Camas, Cassia, Clark, Gooding, Jefferson, Jerome, Lincoln, Minidoka, Oneida, Owyhee and Twin Falls Counties. Both livestock and crops provide substantial cash receipts, with some variations across the counties. Though approximately 62.5 percent of farm cash receipts in the Socioeconomic Study Area come from livestock, many counties have significant percentages of farm cash receipts from crops, including Camas, Caribou, Clark, Gem, Madison, Minidoka, Oneida, and Power Counties.

**Table 3-63**  
**Farm Earnings Detail, 2010 (2010 dollars)**

Geographic Area	Farm Earnings as Share of All Earnings	Agriculture and Forestry Support Activities Earnings as Share of All Earnings <sup>1</sup>	Farm Cash Receipts (Millions)	Share of Farm Cash Receipts from Livestock	Share of Farm Cash Receipts from Crops
Adams County, Idaho	2.1%	(D)	\$11.5	80.8%	19.2%
Bear Lake County, Idaho	7.8%	(D)	\$21.9	74.7%	25.3%
Bingham County, Idaho	5.3%	2.7%	\$310.0	33.5%	66.5%
Blaine County, Idaho	1.4%	(D)	\$34.3	39.9%	60.1%
Bonneville County, Idaho	1.7%	(D)	\$177.8	51.3%	48.7%

<sup>3</sup> All dollar values were converted to 2010 dollars using the Consumer Price Index (BLS, 2012a).

**Table 3-63**  
**Farm Earnings Detail, 2010 (2010 dollars)**

Geographic Area	Farm Earnings as Share of All Earnings	Agriculture and Forestry Support Activities Earnings as Share of All Earnings <sup>1</sup>	Farm Cash Receipts (Millions)	Share of Farm Cash Receipts from Livestock	Share of Farm Cash Receipts from Crops
Butte County, Idaho	1.3%	(D)	\$41.6	23.2%	76.8%
Camas County, Idaho	29.5%	(D)	\$20.0	9.9%	90.1%
Caribou County, Idaho	5.6%	(D)	\$51.6	43.2%	56.8%
Cassia County, Idaho	28.2%	2.2%	\$688.7	72.1%	27.9%
Clark County, Idaho	31.6%	(D)	\$38.0	22.0%	78.0%
Custer County, Idaho	9.5%	(D)	\$22.6	65.6%	34.4%
Elmore County, Idaho	6.6%	0.3%	\$349.3	66.7%	33.3%
Fremont County, Idaho	-1.1%	(D)	\$59.8	19.5%	80.5%
Gem County, Idaho	6.3%	(D)	\$37.7	53.1%	46.9%
Gooding County, Idaho	47.3%	2.5%	\$664.4	90.0%	10.0%
Jefferson County, Idaho	19.9%	(D)	\$247.0	48.3%	51.7%
Jerome County, Idaho	28.0%	3.5%	\$516.0	75.9%	24.1%
Lemhi County, Idaho	2.6%	(D)	\$25.4	88.5%	11.5%
Lincoln County, Idaho	46.0%	(D)	\$147.2	76.2%	23.8%
Madison County, Idaho	-1.1	1.0%	\$63.5	10.5%	89.5%
Minidoka County, Idaho	24.1%	(D)	\$290.2	28.5%	71.5%
Oneida County, Idaho	27.8%	(D)	\$35.9	30.5%	69.5%
Owyhee County, Idaho	46.9%	(D)	\$263.8	63.5%	36.5%
Payette County, Idaho	8.4%	(D)	\$165.1	77.6%	22.4%
Power County, Idaho	9.7%	2.6%	\$122.2	29.2%	70.8%
Twin Falls County, Idaho	10.9%	(D)	\$531.5	66.6%	33.4%
Washington County, Idaho	7.2%	3.5%	\$49.7	54.6%	45.4%
Beaverhead County, Montana	5.3%	1.1%	\$81.4	67.3%	32.7%
Madison County, Montana	1.9%	1.1%	\$64.7	64.0%	36.0%

**Table 3-63**  
**Farm Earnings Detail, 2010 (2010 dollars)**

Geographic Area	Farm Earnings as Share of All Earnings	Agriculture and Forestry Support Activities Earnings as Share of All Earnings <sup>1</sup>	Farm Cash Receipts (Millions)	Share of Farm Cash Receipts from Livestock	Share of Farm Cash Receipts from Crops
Socioeconomic Study Area	10.3%	0.7%	\$5,132.8	62.5%	37.6%
Idaho	4.5%	0.7%	\$6,128.8	59.2%	40.8%
Montana	2.5%	0.4%	3,162.6	43.8%	56.2%

Sources: Headwaters Economics 2012; US Department of Commerce 2012a. Values reported in 2001 dollars were converted to 2010 dollars using the Consumer Price Index (BLS 2012a).

<sup>1</sup>This division is the finest resolution of data provided by the US Department of Commerce's Bureau of Economic Analysis that includes agricultural services.

<sup>2</sup>(D) indicates that the value is not shown to avoid disclosure of confidential information.

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**Table 3-64**, Active and Billed Animal Unit Months, provides information on active and billed AUMs on BLM-administered and National Forest System land, for each of the BLM field offices and National Forests. The estimated gross receipts in the table are calculated from USDA Economic Research Service (ERS) data, which publishes annual budgets for cow-calf operations for different production regions across the country (USDA ERS 2012). The BLM calculated a ten-year inflation-adjusted average gross receipt per cow-calf operation from the ERS budgets, then converted that information to a per-AUM figure based on average forage requirements for a cow including other livestock (e.g., bulls and replacement heifers) that are needed to support the production from the cow (Workman 1986). Southwest Montana falls into the Basin and Range region, whereas southern Idaho is in the ERS's Fruitful Rim region. The BLM's calculations resulted in a ten-year average gross receipt in the Basin and Range region of \$50.24 per AUM (2010 dollars), and in the Fruitful Rim region of \$30.29 per AUM (2010 dollars). However, the BLM used the higher value for both regions, both to err on the side of conservative analysis and because the characteristics of livestock grazing in southern Idaho seem more like those in southwestern Montana (and across southeast Oregon, Nevada, and Utah, which are also in ERS's Basin and Range region) than like those in the remainder of the Fruitful Rim (e.g., much of the California coast, western Oregon, and Washington State).

**Table 3-64**  
**Active and Billed Animal Unit Months**

Geographic Area	Active (2011) <sup>1</sup>	% Billed (2000-2011)	Billed (2011)	Cattle (%)	Sheep (%)	Other (%)	Allotments	Acres per AUM	Gross Receipts (millions)
Beaverhead-Deerlodge National Forest	154,629	98%	152,144	96%	4%	1%	224	11.25	\$7.6



**Table 3-64**  
**Active and Billed Animal Unit Months**

Geographic Area	Active (2011) <sup>1</sup>	% Billed (2000-2011)	Billed (2011)	Cattle (%)	Sheep (%)	Other (%)	Allotments	Acres per AUM	Gross Receipts (millions)
Birds of Prey National Conservation Area	47,807	52%	24,632	88%	12%	0%	23	12.3	\$1.2
Boise National Forest	59,319	86%	51,172	82%	18%	1%	54	25.78	\$2.6
Bruneau Field Office	128,394	78%	98,949	99%	0%	1%	37	10.9	\$5.0
Burley Field Office	141,091	72%	102,231	92%	8%	0%	201	6.1	\$5.1
Caribou-Targhee National Forest (includes Curlew National Grassland)	288,344	97%	280,451	73%	26%	0%	254	7.21	\$14.1
Challis Field Office	55,107	59%	32,512	98%	0%	2%	63	13.4	\$1.6
Craters of the Moon National Monument	14,956	11%	1,692	93%	7%	0%	4	7.1	\$0.1
Dillon Field Office	105,669	75%	78,782	97%	0%	3%	394	8.0	\$4.0
Four Rivers Field Office	105,328	81%	85,367	93%	7%	0%	305	7.1	\$4.3
Jarvis Field Office	182,212	84%	153,365	97%	2%	0%	92	9.0	\$7.7
Owyhee Field Office	121,975	86%	104,898	98%	2%	1%	145	10.2	\$5.3
Pocatello Field Office	86,492	86%	73,991	90%	10%	1%	328	6.6	\$3.7
Salmon Field Office	62,680	80%	50,306	99%	0%	1%	83	7.9	\$2.5
Salmon-Challis National Forest	146,804	81%	118,876	97%	2%	1%	106	15.36	\$6.0
Sawtooth National Forest	155,511	87%	135,730	77%	22%	0%	128	9.36	\$6.8
Shoshone Field Office	187,217	61%	114,717	84%	15%	0%	197	7.7	\$5.8
Upper Snake River Field Office	210,842	67%	140,614	80%	20%	0%	309	7.5	\$7.1
Total	2,148,814								\$90.5

Sources: BLM 2012d; Forest Service 2013c; Workman 1986; USDA ERS 2012

<sup>1</sup> Forest Service data is for 2013

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Thus, the table above reflects a gross receipt value of \$50.24 per AUM, and the last column of the table represents annual gross receipts in the region from livestock operations in 2010

1 dollars. Gross receipts are calculated based on billed AUMs and ten-year average gross  
2 receipts, as described in the text.

3 The data in the table help to demonstrate the importance of livestock grazing throughout the  
4 Socioeconomic Study Area. It is important to remember, as well, that the data are only for  
5 forage values on BLM-administered and National Forest System lands; forage on other  
6 public and private lands contribute additional values to the Socioeconomic Study Area. The  
7 economic analysis of the alternatives, presented in Chapter 4, addresses additional indirect  
8 contributions of livestock grazing (as well as other resource uses) to the regional economy,  
9 comparing the alternatives to one another.

#### 10 *Forestry and Wood Products*

11 Approximately 1,570 jobs (1 percent of total employment in 2011) in the Socioeconomic  
12 Study Area came from timber-related industries, which is 0.3 percentage points higher than  
13 the national average of 0.7 percent (Headwaters Economics 2013). This estimate is based on  
14 data from the US Census Bureau County Business Patterns. The proportion of employment  
15 associated with timber-related industries varied by county, with a low of zero percent in  
16 Butte, Camas, Clark, Jerome, Lincoln, and Minidoka Counties and highs of 25.3 percent in  
17 Adams County, 8.8 percent in Washington County, 6.8 percent in Owyhee County, and 6.5  
18 percent in Payette County. These estimates include both full- and part-time jobs and reflect  
19 three timber-related industries: growing and harvesting, sawmills and paper mills, and wood  
20 products manufacturing.

21 Average annual earnings for timber-related jobs tend to be higher than for non-timber jobs.  
22 The average annual wage per timber-related job in the Socioeconomic Study Area in 2011  
23 was \$35,521 (2010 dollars), compared to \$29,971 for non-timber jobs.<sup>4</sup>

#### 24 *Mining and Minerals*

25 The data in **Table 3-70**, Mining Sector Employment by County, show that within the 29  
26 counties in the Socioeconomic Study Area, mining industries employed 1,248 people in  
27 2010, accounting for approximately 0.4 percent of total employment, which is 0.3 percentage  
28 points higher than the national average (Headwaters Economics 2012). Mining industries  
29 include those for phosphate, metals, building stone quarrying, sand and gravel quarrying,  
30 geothermal exploration and development, oil and gas exploration, and mining-related  
31 businesses. The proportion of employment associated with mining industries varied by  
32 county, from zero percent in 12 of the counties up to 30.4 percent of total employment in  
33 Custer County and 22.7 percent of total employment in Caribou County. The average annual  
34 earnings per mining-related job in the Socioeconomic Study Area are higher than non-  
35 mining jobs. The average annual wage per job in this sector was \$56,239 (2010 dollars) in the  
36 Socioeconomic Study Area in 2011, compared to an average of \$33,926 for private sector  
37 jobs (Headwaters Economics, 2013). States receive 50 percent of all rents and royalties  
38 collected from mineral extraction on public lands. In FY2012, \$10 million was collected in  
39 Idaho (the state received \$5 million).

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<sup>4</sup> All dollar values were converted to 2010 dollars using the Consumer Price Index (BLS 2012a).



1 Phosphate mining on BLM-administered land in Caribou County for phosphate raw ore  
2 produced 4.2 million units for a sales total of \$167.4 million in 2011 (ONRR 2012). There  
3 are currently three companies operating mines and processing plants that mine phosphate, at  
4 least in part, from Federal mineral leases who employ over 1,800 people, in mines or plants  
5 (BLM 2013f). According to the Idaho Department of Labor, almost half of the jobs in  
6 Caribou County involve the production of phosphate and manufacturing of phosphate-  
7 derived products, and wages are higher than most of the state because of phosphate mining  
8 and manufacturing (Idaho Department of Labor 2015). None of these operations are located  
9 within GRSG habitat. As discussed in **Section 3.12**, Mineral Resources, only one of the 86  
10 federal phosphate leases (not under operation) is located in GRSG habitat.

11 This 65-acre lease is held by Stonegate Agricom who also has a 240-acre prospecting lease.  
12 These acres are located in the Paris-Bloomington Known Phosphate Leasing Area (KPLA)  
13 and are both associated with the potential Paris Hills Phosphate project.

14 Idaho's phosphate ore is used primarily in the agribusiness industry. Two of the three  
15 companies that mine phosphate refine the ore and mix it with other elements to produce  
16 fertilizer, while one company refines the ore to produce elemental phosphorous, which is  
17 primarily used by the company to produce herbicides. These companies do not sell their  
18 refined ore on the open market, but rather use the ore to produce their own products (BLM  
19 2014). Idaho and Utah produce approximately 15 percent of the phosphate rock in the  
20 country, with the remaining 85 percent being produced in Florida and North Carolina  
21 (USGS 2014b).

**Table 3-70**  
**Mining Sector Employment by County**

<b>Geographic Area</b>	<b>Number of Jobs</b>	<b>Percentage of Total Employment</b>
Adams County, Idaho	0	0.0%
Bear Lake County, Idaho	0	0.0%
Bingham County, Idaho	0	0.0%
Blaine County, Idaho	13	0.1%
Bonneville County, Idaho	10	0.0%
Butte County, Idaho	0	0.0%
Camas County, Idaho	0	0.0%
Caribou County, Idaho	643	22.7%
Cassia County, Idaho	44	0.7%
Clark County, Idaho	0	0.0%
Custer County, Idaho	289	30.4%
Elmore County, Idaho	5	0.1%
Fremont County, Idaho	3	0.2%
Gem County, Idaho	13	0.6%
Gooding County, Idaho	2	0.1%
Jefferson County, Idaho	2	0.1%
Jerome County, Idaho	0	0.0%
Lemhi County, Idaho	15	0.9%

**Table 3-70**  
**Mining Sector Employment by County**

Geographic Area	Number of Jobs	Percentage of Total Employment
Lincoln County, Idaho	0	0.0%
Madison County, Idaho	0	0.0%
Minidoka County, Idaho	0	0.0%
Oneida County, Idaho	13	2.3%
Owyhee County, Idaho	6	0.4%
Payette County, Idaho	7	0.2%
Power County, Idaho	13	0.6%
Twin Falls County, Idaho	31	0.1%
Washington County, Idaho	0	0.0%
Beaverhead County, Montana	66	2.8%
Madison County, Montana	73	5.3%
Socioeconomic Study Area	1,248	0.4%
Idaho	2,444	0.5%
Montana	5,962	1.8%
US	581,582	0.5%

Source: Headwaters Economics 2012.

All dollar values were converted to 2010 dollars using the Consumer Price Index (BLS 2012a).

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Although some of the richest silver-producing regions in the US are in the northern Idaho panhandle (outside the Socioeconomic Study Area), the study area does produce some silver, along with industrial minerals such as molybdenum (Idaho Mining Association 2010). Idaho has several large stone quarries that support the rural communities of Oakley (Cassia County) and Challis (Custer County). It is estimated that approximately 40,000 tons of Oakley Stone are mined annually from unpatented mining claims in southern Idaho/northern Utah (not including patented claims). Approximately 60 people are employed full-time from these operations, and an additional 100 to 200 skilled laborers are employed during the summer months (BLM 2013d).

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*Other Values*

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BLM-administered lands provide a range of goods and services that benefit society in a variety of ways. Some of these goods and services, such as timber and minerals, are bought and sold in markets, and hence have a readily observed economic value (as documented in the sections above); others have a less clear connection to market activity, even though society derives benefits from them. In some cases, goods and services have both a market and a non-market component value to society. This section provides an overview of several non-market values described through a qualitative and quantitative economic valuation analysis.

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The non-market values associated with BLM-administered lands can be classified as values that derive from direct or indirect use (e.g., recreation) and those that do not derive from



1 use, such as existence values held by the general public from self-sustaining populations of  
2 GRSG. This section and the related appendix describe the use and nonuse economic values  
3 associated with recreation, populations of GRSG, and land that is currently used for  
4 livestock grazing and ranch operations. The sections that follow discuss each of these values  
5 in turn. **Appendix AA** provides more discussion of the concepts and measurement of use  
6 and nonuse nonmarket values. It is important to note that these nonmarket values are not  
7 directly comparable to previous sections that describe output (sales or expenditures) and  
8 jobs associated with various resource uses on BLM-administered and National Forest System  
9 lands (see **Appendix AA** for more information).

#### 10 *Values Associated with Recreation*

11 Actions that promote the conservation of GRSG habitat may result in changes in recreation  
12 activity, by changing opportunities or access for different recreational activities.  
13 Opportunities for some activities such as wildlife viewing may increase as the amount of  
14 habitat may increase for species that depend on BLM-administered lands, including GRSG.  
15 The Environmental Consequences analysis (**Chapter 4**) addresses this issue for each of the  
16 management alternatives. This section documents baseline nonmarket values visitor receive  
17 associated with recreation activities. This is measured by what economists call consumer  
18 surplus, which refers to the additional value that visitors receive over and above the price  
19 they pay. **Appendix BB** provides an explanation of consumer surplus. Fees to use BLM-  
20 administered lands for recreation are typically very low or nonexistent, so the value people  
21 place on BLM-administered land recreation opportunities is not fully measured simply by the  
22 entrance fees people pay.

23 Economists estimate the consumer surplus from recreation by measuring how the variation  
24 in visitors' travel costs corresponds to the number of visits taken. This "travel cost method"  
25 has been developed extensively in academic literature and is used by federal agencies in  
26 economic analyses; the method is explained more fully in **Appendix AA**. Conducting  
27 original travel cost method studies can be time-consuming and expensive. For this project,  
28 the BLM and Forest Service relied on estimates of consumer surplus from prior recreation  
29 studies in the same geographic region, using an established scientific method called "benefit  
30 transfer." Based on the studies reviewed and cited in **Appendix AA**, visitors to natural areas,  
31 such as BLM-administered and National Forest System lands, gain values (in excess of their  
32 direct trip cost) ranging from approximately \$32 per day for camping, to about \$175 per day  
33 for mountain biking.

34 To calculate the aggregate "consumer surplus" value of recreation in the study area, BLM  
35 multiplied this per-day value of recreation by the estimated number of visitor days associated  
36 with each activity type. Visitation estimates by activity are derived based on the BLM  
37 Recreation Management Information Service database and the Forest Service National  
38 Visitor Use Monitoring program for the study area.

39 Accounting for the value per day and the number of days, the total nonmarket value of  
40 recreation on BLM-administered and National Forest System lands in the study area was  
41 estimated to be about \$431.8 million per year (see **Appendix BB** for details). Based on the  
42 quantity of recreational trips and the economic value of each type of activity, the largest



1 annual nonmarket values are associated with hunting, camping, fishing, hiking, sightseeing,  
2 floatboating/rafting/canoeing, and pleasure driving. These categories omit downhill skiing,  
3 because there is little or no overlap between GRSG habitat and lands used for downhill  
4 skiing. The Environmental Consequences section (**Chapter 4**) discusses how recreational  
5 visits and total nonmarket value for recreation may change under the alternatives being  
6 considered.

7 *Values Associated with Populations of GRSG*

8 The existence and perseverance of the Endangered Species Act and similar acts reflects the  
9 values held by the American public associated with preventing species from going extinct.  
10 Economists have long recognized that rare, threatened and endangered species have  
11 economic values beyond those associated with active “use” through viewing. This is  
12 supported by legal decisions and technical analysis (see **Appendix AA** for details), as well as  
13 a number of conceptual and empirical publications that refine concepts and develop  
14 methods to measure these nonuse or existence values.

15 The dominant method uses surveys to construct or simulate a market or referendum for  
16 protection of areas of habitat, or changes in populations of species. The survey asks the  
17 respondent to indicate whether they would pay for an increment of protection, and if so  
18 how much they would pay. Economists have developed increasingly sophisticated survey  
19 methods for nonuse value over the last two decades to improve the accuracy of this method.  
20 **Appendix AA** offers an in-depth discussion of this method of value estimation.

21 Original surveys to estimate nonuse values are complex and time-consuming; rather than  
22 perform a new survey, the BLM and Forest Service reviewed existing literature to determine  
23 if there were existing nonuse value studies for GRSG. No existing studies on valuation  
24 specific to the GRSG were found. However, there are several studies published in peer-  
25 reviewed scientific journals for bird species that the BLM judged to have similar  
26 characteristics with GRSG, including being a candidate for listing as threatened or  
27 endangered and being a hunted species. These studies find average stated willingness to pay  
28 of between \$15 and \$58 per household per year in order to restore a self-sustaining  
29 population or prevent regional extinction (see **Appendix BB** for details). These values  
30 represent a mix of use and nonuse values, but the nonuse components of value are likely to  
31 be the majority share, since the studies primarily address species that are not hunted. Since  
32 GRSG protection is a public good available to all households throughout the intermountain  
33 west, if similar per-household values apply to the species the aggregate regional existence  
34 value could be substantial.

35 *Values Associated with Grazing Land*

36 BLM-administered land managed for livestock grazing provides both market values (e.g.,  
37 forage for livestock) and nonmarket values, including open space and western ranch scenery,  
38 which provide value to some residents and outside visitors, and may also provide some value  
39 to the nonusing public (e.g., the cultural icon of the American cowboy). Many people who  
40 ranch for a living or who otherwise choose to live on ranches value the ranching lifestyle in  
41 excess of the income generated by the ranching operations. This could be seen as a  
42 nonmarket value associated with livestock grazing. On the other hand, some residents and



1 visitors perceive nonmarket opportunity costs associated with livestock grazing. Although  
2 some scholars and policy makers have discussed nonmarket values associated with livestock  
3 grazing, the process for incorporating these values into analyses of net public benefits  
4 remains uncertain, and the BLM and Forest Service did not attempt to quantify these values  
5 for the present study.

6 Furthermore, some of the lifestyle value of ranching is likely to be captured in markets, such  
7 as through the property values of ranches adjacent to BLM-administered lands with historic  
8 leases or permits for grazing on BLM-administered land. Economists typically use a method  
9 called the hedonic price method to estimate values associated with particular amenities; this  
10 method may be used to explain the factors that influence the observed sale prices of ranch  
11 land. **Appendix AA** provides more information about this method, as well as additional  
12 information to address potential nonmarket values associated with grazing.

### 13 *Fiscal*

14 Most of Idaho's tax revenue comes from three sources: income, sales and use, and property  
15 taxes (US Census Bureau 2010d). The Idaho State Tax Commission collects income tax and  
16 sales and use tax, while property taxes fund local governments and are imposed and  
17 collected by the county where the property is located. Idaho imposes a sales and use tax of 6  
18 percent, a corporate net income tax of 7.6 percent, and an individual income tax rate that  
19 ranges from 1.6 percent to 7.8 percent. States receive 50 percent of rents and royalties  
20 collected from federal mineral leases. In 2012, \$4.6 million was disbursed to the State and  
21 individual counties, primarily from phosphate royalties, but also from geothermal rent (BLM  
22 2013f). In addition, Idaho imposes a severance tax rate of 2 percent of the market value of  
23 oil and gas produced or sold in the state. It also imposes a mine license tax of 1 percent of  
24 the value of ores mined or extracted, which accounted for approximately \$2.5 million in tax  
25 revenue in 2011 (Idaho State Tax Commission 2011).

26 Idaho's counties receive most of their revenue from property taxes, charges for local services  
27 and redistribution of State and Federal sources. In 2009-2010, Idaho counties received  
28 approximately 25 percent of their revenues from property taxes, 25 percent from charges,  
29 and 40 percent from state government intergovernmental transfers (US Census Bureau  
30 2010e). Major sources of state funds received by counties include state liquor revenues,  
31 highway user taxes and fees, sales taxes and education funds and endowments (Idaho  
32 Association of Counties 2011). Public elementary and secondary schools received, in 2008-  
33 2009, approximately 67 percent of their resources from state sources, 10 percent from  
34 federal funds, and 23 percent from local funds, mostly property taxes (National Center for  
35 Education Statistics 2012).

36 The largest source of revenue in Montana is the individual income tax. The second largest  
37 source is severance and other taxes (US Census Bureau 2010d), although most of the mineral  
38 production in Montana is outside the Socioeconomic Study Area for this sub-region. Two-  
39 thirds of the severance and other taxes category is made up of an oil and gas production tax,  
40 with the remainder of the category being composed of mining taxes and other miscellaneous  
41 taxes. While it is collected at the state level, about half of the oil and gas tax is distributed to  
42 local governments and school districts. Montana does not have a general sales tax, but

1 selective sales taxes account for about 14 percent of state tax revenue (Montana Department  
2 of Revenue 2010).

3 In Montana, local government and school district tax collections come almost entirely from  
4 property taxes. Local jurisdictions also collect a coal gross proceeds tax, a local severance tax  
5 that imposes a flat tax on the value of production so that all mines pay the same rate  
6 (Montana Department of Revenue 2010).

7 The primary government revenues that are directly linked to BLM-administered and  
8 National Forest System lands are Payments in Lieu of Taxes (PILT), which are federal  
9 government payments based on the presence of all federal lands (not just BLM-administered  
10 lands) within each county. **Table 3-65**, Payments in Lieu of Taxes (PILT) Received in the  
11 Socioeconomic Study Area by County in 2010, shows the payments each county received in  
12 2010. The nontaxable status of federal lands is of interest to local governments, which must  
13 provide public safety and other services to county residents. BLM revenue-sharing programs  
14 provide resources to local governments in lieu of property taxes because local governments  
15 cannot tax federally owned lands the way they would if the land were privately owned.

**Table 3-65**  
**Payments in Lieu of Taxes (PILT) Received in**  
**the Socioeconomic Study Area by County in 2010**

<b>Geographic Area</b>	<b>PILT (thousands of dollars)</b>
Adams County, Idaho	\$179
Bear Lake County, Idaho	\$373
Bingham County, Idaho	\$679
Blaine County, Idaho	\$1,807
Bonneville County, Idaho	\$1,065
Butte County, Idaho	\$295
Camas County, Idaho	\$147
Caribou County, Idaho	\$507
Cassia County, Idaho	\$1,874
Clark County, Idaho	\$153
Custer County, Idaho	\$684
Elmore County, Idaho	\$2,338
Fremont County, Idaho	\$591
Gem County, Idaho	\$220
Gooding County, Idaho	\$603
Jefferson County, Idaho	\$452
Jerome County, Idaho	\$232
Lemhi County, Idaho	\$874
Lincoln County, Idaho	\$749
Madison County, Idaho	\$21
Minidoka County, Idaho	\$430
Oneida County, Idaho	\$532
Owyhee County, Idaho	\$1,209



**Table 3-65**  
**Payments in Lieu of Taxes (PILT) Received in**  
**the Socioeconomic Study Area by County in 2010**

<b>Geographic Area</b>	<b>PILT (thousands of dollars)</b>
Payette County, Idaho	\$153
Power County, Idaho	\$704
Twin Falls County, Idaho	\$1,530
Washington County, Idaho	\$770
Beaverhead County, Montana	\$674
Madison County, Montana	\$443
Socioeconomic Study Area	\$22,070

Sources: DOI 2012. . Includes payments received from BLM, Forest Service, Bureau of Reclamation, National Park Service, and USFWS.

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Other federal payments to states, counties, and public schools associated with the presence of federal lands include Forest Service revenue transfers and federal mineral royalties. Since 2008, the Forest Service pays 25 percent of its receipts to states for use on roads and schools in the counties where national forests are located. The decline in the sale of timber from Federal lands over time has led to the decline in these payments. However, the Secure Rural Schools and Community Self-Determination Act of 2000 has attempted to limit this decline (Congressional Research Service 2012). Idaho and Montana also receive federal mineral royalties from mining activities on federal land. In Idaho, 90 percent of these receipts are distributed to the Public School Income Fund and the other 10 percent are distributed to the general fund of the counties where the revenue was generated. In Montana, 25 percent of federal mineral royalties are distributed to counties (Headwaters Economics 2011). Other revenues from federal lands include fees for grazing, recreation, and rents on ROWs.

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*BLM Expenditures and Employment*

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BLM offices provide a direct contribution to the economy of the local and surrounding area. BLM operations and management make direct contributions to area economic activity by employing people who reside within the area and by spending on project related goods and services. Contracts for facilities maintenance, shuttling vehicles, and projects contribute directly to the area economy and social stability as well. **Table 3-66**, BLM and Forest Service Employment and Related Expenditures in the Socioeconomic Study Area, provides available information on the BLM expenditures from each field office and National Forest, including both labor and nonlabor expenditures.

**Table 3-66**  
**BLM and Forest Service Employment and Related Expenditures in the Socioeconomic**  
**Study Area**

<b>Agency</b>	<b>State</b>	<b>Field Office</b>	<b>Employment, 2011 (Full-Time)</b>	<b>Nonlabor Expenditures, 2011 (2010 dollars)</b>
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BLM	Idaho	Bruneau	14.2	\$189,214
	Idaho	Burley	23.9	\$1,776,536
	Idaho	Challis	21.9	\$472,283
	Idaho	Four Rivers	20.8	\$810,326
	Idaho	Jarbridge	23.5	\$6,072,960
	Idaho	Owyhee	20.0	\$594,148
	Idaho	Pocatello	30.9	\$699,083
	Idaho	Salmon	24.8	\$670,559
	Idaho	Shoshone	24.1	\$1,902,984
	Idaho	Upper Snake	30.1	\$1,104,839
	Montana	Dillon	44.9	\$1,107,213
Forest Service	Idaho	Boise National Forest	234	\$11,682,250
	Idaho, Wyoming, Utah	Caribou-Targhee National Forest	177	\$8,918,490
	Idaho	Salmon-Challis National Forest	159	\$10,828,200
	Idaho, Utah	Sawtooth National Forest	129	\$6,568,660
	Montana	Beaverhead-Deerlodge National Forest	150	\$6,942,850

Sources: BLM 2012b; Forest Service 2013d, 2013e. Values reported in 2001 dollars (BLM) or 2011 dollars (Forest Service) were converted to 2010 dollars using the Consumer Price Index (BLS 2012a)

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### *Environmental Justice*

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Environmental justice pertains to the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. Fair treatment means that no group of people, including racial, ethnic, or socioeconomic groups, should bear a disproportionate share of the adverse environmental consequences resulting from industrial, municipal, and commercial operations or the execution of federal, state, local, and Tribal programs and policies). The BLM and Forest Service incorporate environmental justice into their planning processes, both as a consideration in the environmental effects analysis and by ensuring a meaningful role in the decision-making process for minority and low-income populations.

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Executive Order 12898 requires federal agencies to “identify and address the disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations.” The BLM Land Use Planning Handbook reiterates the BLM’s commitment to environmental justice – both in providing meaningful opportunities for low-income, minority, and Tribal populations to participate in decision-making, and to identify and minimize any disproportionately high or adverse impacts on these populations. Similarly, the USDA’s Departmental Regulation on Environmental Justice provides direction to agencies for integrating environmental justice considerations into USDA programs and activities, including those of Forest Service. Specifically, the Departmental Regulation on





1 Environmental Justice calls for the identification, prevention, and mitigation of  
 2 disproportionately high and adverse human health or environmental effects of USDA  
 3 programs and activities on minority and low-income populations and provision for the  
 4 opportunity for minority and low-income populations to participate in planning, analysis,  
 5 and decision-making that affects their health or environment.

6 According to the Council on Environmental Quality Environmental Justice Guidance Under  
 7 the National Environmental Policy Act (CEQ 1997), “minority populations should be  
 8 identified where either: (a) the minority population of the affected region exceeds 50 percent  
 9 or (b) the minority population percentage of the affected region is meaningfully greater than  
 10 the minority population percentage in the general population or other appropriate unit of  
 11 geographic analysis.” The same document states that, “In identifying low-income  
 12 populations, agencies may consider as a community either a group of individuals living in  
 13 geographic proximity to one another, or a set of individuals (such as migrant workers or  
 14 Native Americans), where either type of group experiences common conditions of  
 15 environmental exposure or effect.”

16 Additionally, the same guidance (CEQ 1997) advises that, “In order to determine whether a  
 17 proposed action is likely to have disproportionately high and adverse human health or  
 18 environmental effects on low-income populations, minority populations, or Indian tribes,  
 19 agencies should identify a geographic scale, obtain demographic information on the potential  
 20 impact area, and determine if there is a disproportionately high and adverse effect on these  
 21 populations. Agencies may use demographic data available from the Bureau of the Census to  
 22 identify the composition of the potentially affected population. Geographic distribution by  
 23 race, ethnicity, and income, as well as a delineation of tribal lands and resources, should be  
 24 examined.”

25 *Minority Populations*

26 **Table 3-67**, Population Race and Ethnicity, 2010, summarizes the percentage of the  
 27 population made up of ethnic minority groups in each county of the Socioeconomic Study  
 28 Area and in the State of Idaho, the State of Montana, and the United States as a whole.

**Table 3-67**  
**Population Race and Ethnicity, 2010**

Geographic Unit Analyzed	Total Population	Percent of Total Population								
		White	Black or African American	Alaska Native or American Indian	Asian	Native Hawaiian & Other Pacific Islander	Other Race	Two or More Races	Hispanic or Latino <sup>1</sup>	Total Minorities <sup>2</sup>
Adams County, Idaho	3,976	96.1	0.1	1.0	0.4	0.1	0.7	1.7	2.4	5.3

**Table 3-67  
Population Race and Ethnicity, 2010**

Geographic Unit Analyzed	Total Population	Percent of Total Population								
		White	Black or African American	Alaska Native or American Indian	Asian	Native Hawaiian & Other Pacific Islander	Other Race	Two or More Races	Hispanic or Latino <sup>1</sup>	Total Minorities <sup>2</sup>
Bear Lake County, Idaho	5,986	96.3	0.1	0.5	0.4	0.0	1.6	1.1	3.6	5.2
Bingham County, Idaho	45,607	80.6	0.2	6.5	0.6	0.1	9.8	2.1	17.2	24.9
Blaine County, Idaho	21,376	84.9	0.2	0.6	0.9	0.1	11.8	1.5	20.0	22.0
Bonneville County, Idaho	104,234	90.6	0.6	0.8	0.8	0.1	5.1	2.1	11.4	14.6
Butte County, Idaho	2,891	95.5	0.2	0.4	0.2	0.2	2.0	1.5	4.1	6.2
Camas County, Idaho	1,117	94.1	0.3	0.5	0.1	0.0	1.8	3.2	6.7	9.7
Caribou County, Idaho	6,963	95.3	0.1	0.3	0.2	0.2	2.3	1.5	4.8	6.9
Cassia County, Idaho	22,952	81.8	0.3	0.8	0.5	0.1	14.2	2.3	24.9	27.1
Clark County, Idaho	982	72.4	0.7	1.0	0.5	0.0	23.8	1.5	40.5	42.9
Custer County, Idaho	4,368	96.4	0.2	0.6	0.2	0.1	1.5	1.0	4.0	5.9
Elmore County, Idaho	27,038	82.2	2.7	1.0	2.8	0.4	6.8	4.1	15.2	24.7
Fremont County, Idaho	13,242	89.5	0.3	0.7	0.2	0.1	7.6	1.5	12.8	14.8
Gem County, Idaho	16,719	93.4	0.1	0.6	0.5	0.1	3.1	2.2	8.0	10.9
Gooding County, Idaho	15,464	80.7	0.2	0.8	0.5	0.1	15.3	2.4	28.1	30.5
Jefferson County, Idaho	26,140	91.2	0.2	0.8	0.4	0.1	5.8	1.5	10.1	12.3
Jerome County, Idaho	22,374	80.0	0.3	1.3	0.3	0.1	15.8	2.1	31.0	33.2
Lemhi County, Idaho	7,936	96.4	0.2	0.7	0.4	0.0	0.6	1.6	2.3	4.9
Lincoln County, Idaho	5,208	80.1	0.4	0.7	0.4	0.1	16.2	2.2	28.3	30.6
Madison County, Idaho	37,536	93.9	0.5	0.3	0.9	0.1	2.8	1.5	5.9	8.7
Minidoka County, Idaho	20,069	80.2	0.4	1.2	0.4	0.0	15.3	2.4	32.4	34.6
Oneida County, Idaho	4,286	96.7	0.2	0.5	0.5	0.0	1.1	1.0	2.9	4.9
Owyhee County, Idaho	11,526	76.0	0.2	4.3	0.5	0.0	16.6	2.4	25.8	31.6
Payette County, Idaho	22,623	88.6	0.2	1.1	0.8	0.1	6.3	2.8	14.9	18.7
Power County, Idaho	7,817	75.1	0.3	2.3	0.4	0.1	19.5	2.4	29.8	34.0
Twin Falls County, Idaho	77,230	88.9	0.4	0.8	1.2	0.1	6.3	2.3	13.7	17.4
Washington County, Idaho	10,198	86.6	0.2	1.0	0.9	0.0	9.1	2.2	16.8	19.7
Beaverhead County, Montana	9,246	94.8	0.2	1.4	0.4	0.4	1.2	1.6	3.7	7.3
Madison County, Montana	7,691	96.8	0.2	0.5	0.3	0.0	0.8	1.4	2.4	4.6

**Table 3-67  
Population Race and Ethnicity, 2010**

Geographic Unit Analyzed	Total Population	Percent of Total Population								
		White	Black or African American	Alaska Native or American Indian	Asian	Native Hawaiian & Other Pacific Islander	Other Race	Two or More Races	Hispanic or Latino <sup>1</sup>	Total Minorities <sup>2</sup>
Socioeconomic Study Area	562,795	87.5	0.5	1.4	0.8	0.1	7.6	2.1	15.0	18.6
Idaho	1,567,582	89.1	0.6	1.4	1.2	0.1	5.1	2.5	11.2	15.9
Montana	989,415	89.4	0.4	6.3	0.6	0.1	0.6	2.5	2.9	12.3
United States	308,745,538	72.4	12.6	0.9	4.8	0.2	6.2	2.9	16.3	36.0

Source: US Census Bureau 2010b.

<sup>1</sup> Individuals who identify themselves as Hispanic or Latino might be of any race; the sum of the other percentages under the “Percent of Total Population” columns plus the “Hispanic or Latino” column therefore does not equal 100 percent, and the sum of the percentages for each racial and ethnic category does not equal the percentage of “total minorities.”

<sup>2</sup> The total minority population, for the purposes of this analysis, is the total population for the geographic unit analyzed minus the non-Latino/Hispanic white population.

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Of the 27 Idaho counties in the Socioeconomic Study Area, 14 have a higher minority population than Idaho as a whole, while neither of the 2 Montana counties in the Socioeconomic Study Area have a higher minority population than Montana as a whole. The percentage of minorities among counties ranges from a low of 4.6 percent in Madison County, Montana, to a high of 42.9 percent in Clark County, Idaho. Several Idaho counties have a Hispanic or Latino population greater than 25 percent, with the highest being Clark County (41 percent). Additionally, Montana as a whole has a high percentage of Alaska Native or American Indian residents (6.3 percent), though neither of the Montana counties included in the study area have a population of this minority group higher than 2 percent.

*Low-income Populations*

**Table 3-68**, Low-Income Populations, 2006-2010 Average, summarizes the percentage of the population below the poverty line in each county of the Socioeconomic Study Area and in Montana, Idaho, and the United States as a whole. Following the Office of Management and Budget’s Directive 14, the Census Bureau uses a set of money income thresholds that vary by family size and composition to detect what part of the population is considered to be in poverty (US Census Bureau 2012b).

**Table 3-68**  
**Low-Income Populations, 2006-2010 Average**

<b>Geographic Area</b>	<b>Percent Population Below Poverty Level</b>
Adams County, Idaho	12.4
Bear Lake County, Idaho	13.9
Bingham County, Idaho	14.7
Blaine County, Idaho	9.3
Bonneville County, Idaho	11.0
Butte County, Idaho	13.8
Camas County, Idaho	16.3
Caribou County, Idaho	8.4
Cassia County, Idaho	15.4
Clark County, Idaho	11.3
Custer County, Idaho	13.8
Elmore County, Idaho	12.0
Fremont County, Idaho	8.5
Gem County, Idaho	14.7
Gooding County, Idaho	16.5
Jefferson County, Idaho	10.2
Jerome County, Idaho	15.5
Lemhi County, Idaho	20.0
Lincoln County, Idaho	15.3
Madison County, Idaho	32.2
Minidoka County, Idaho	13.1
Oneida County, Idaho	13.4
Owyhee County, Idaho	22.2
Payette County, Idaho	15.7
Power County, Idaho	11.1
Twin Falls County, Idaho	13.0
Washington County, Idaho	13.2
Beaverhead County, Montana	15.0
Madison County, Montana	11.6
Socioeconomic Study Area	14.3
Idaho	13.6
Montana	14.5
United States	13.8

Source: US Census Bureau 2010c

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Of the 27 Idaho counties in the Socioeconomic Study Area, 14 have a higher percentage of residents below the poverty line than Idaho overall (13.6 percent), and one of the two Montana counties has a higher percentage of residents below the poverty line than Montana as a whole (14.5 percent). Both Idaho and Montana have a higher percentage of residents above the poverty line than the United States as a whole (13.8 percent). The percentages of residents below the poverty line range from a low of 8.4 percent in Caribou County, Idaho, to a high of 32.2 percent in Madison County, Idaho.



1 *Tribal Populations*

2 Five Native American reservations in the State of Idaho are home to federally recognized  
3 tribes. These reservations comprise almost 2 million acres in trust. The Shoshone-Bannock  
4 Tribe of the Fort Hall Indian Reservation (Bannock, Bingham, Caribou, and Power  
5 Counties) and Shoshone-Paiute Tribe of the Duck Valley Indian Reservation (Owyhee  
6 County) are located within the Socioeconomic Study Area. Other tribes outside the  
7 Socioeconomic Study Area include Coeur d'Alene in Benewah and Kootenai Counties;  
8 Kootenai in Boundary County; and Nez Perce in Clearwater, Idaho, Latah, Lewis, and Nez  
9 Perce Counties (Rodríguez 2011).

10 Several major tribes live in Montana: the Blackfeet nation, the Confederated Salish, the Pend  
11 d'Oreille, the Kootenai, the Assiniboine, the Sioux, the Northern Cheyenne, the Crow  
12 Nation, the Gros Ventre, and the Little Shell Chippewa (Montana Office of Indian Affairs  
13 2011). However, none of these tribes' reservations are located in or near the Socioeconomic  
14 Study Area.

15 **3.23 Forest and Woodland Products**

16 The NEPA, the FLPMA, the Water Quality Act of 1987, as amended from the Federal  
17 Water Pollution Control Act (Clean Water Act) of 1977, the Endangered Species Act of  
18 1973, and the Archaeological Resources Protection Act of 1979 direct the protection and  
19 management of forest management and woodland products on BLM-administered lands.  
20 The FLPMA directs that BLM-administered lands be managed on the basis of multiple use  
21 and sustained yield without the permanent impairment of the productivity of the land and  
22 the quality of the environment. Guidance provided under FLPMA applies to those forested  
23 lands containing what is traditionally referred to as timber lands, capable of producing in  
24 excess of 20 cubic feet per acre per year; as well as woodlands, those forested lands  
25 producing less than 20 cubic feet per acre per year; and other vegetative material, or those  
26 lands containing cactus and other salable vegetation which were not previously covered by  
27 management policy. Other salable vegetation includes Christmas trees and plant seed. BLM  
28 forest management policy and requirements are identified in the BLM Forest Management  
29 regulations (43 CFR Part 5000).

30 In the analysis area there are approximately 368,000 acres of BLM-administered forest land;  
31 250,000 acres of BLM-administered forest land (timberland) available for commercial  
32 management; 353,000 acres of BLM-administered woodland; and 197,000 acres of BLM-  
33 administered woodland available for commercial management.

34 In the analysis area, annual production of commercial product from timberlands has  
35 averaged approximately 2,877 thousand board feet (MBF) per year. Annual production of  
36 special forest products (wood) in the past ten years has averaged approximately: 4 MBF per  
37 year for sawtimber; 490 MBF for fuel wood; 8 MBF per year for fence posts; 11 MBF per  
38 year for fence poles; and 1 MBF per year for other wood products (such as mine timbers and  
39 teepee poles). Annual production of special forest products (nonwood, such as Christmas  
40 trees) in the past 10 years has averaged approximately 379 tickets per year.



1

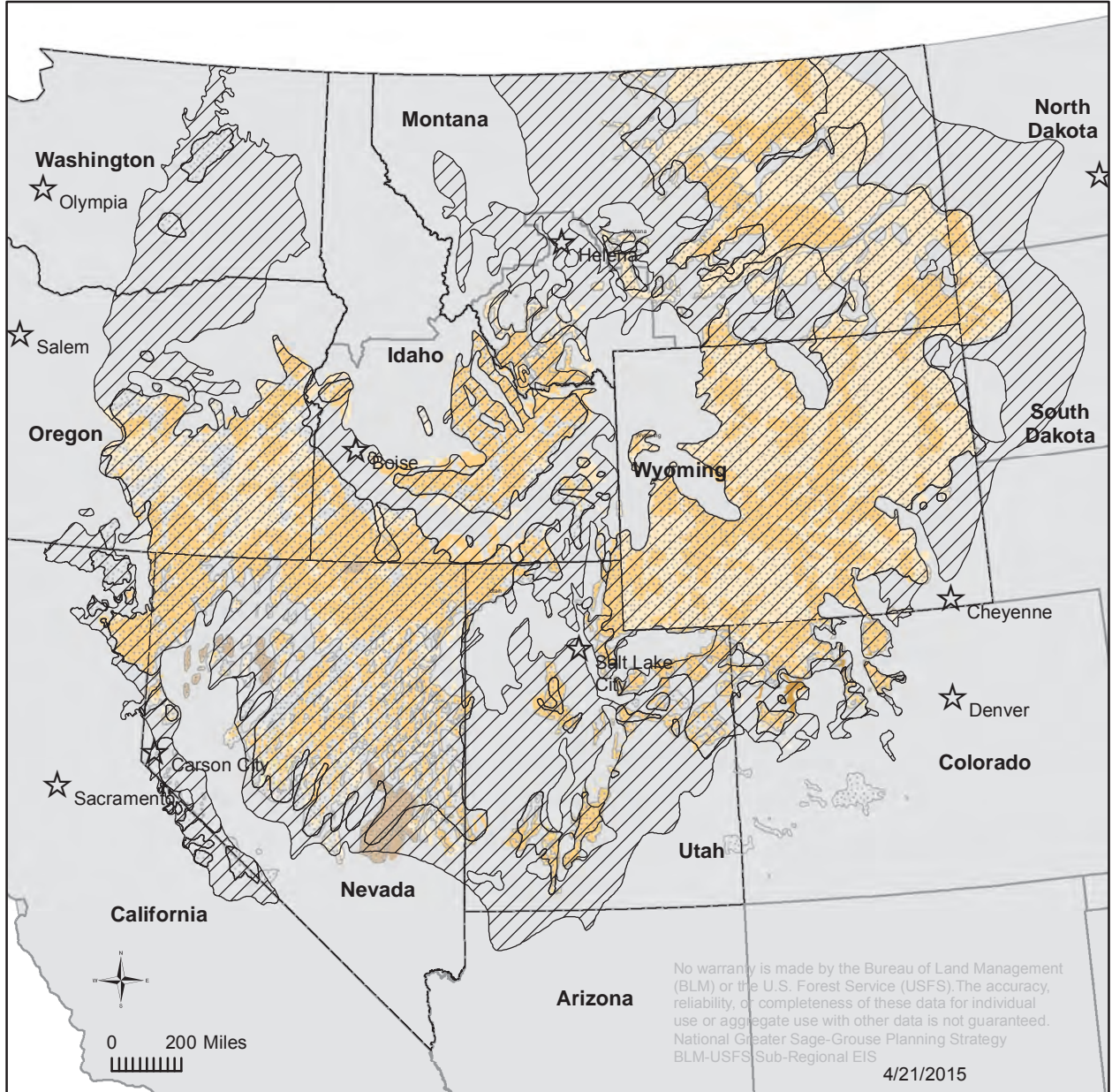
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Administrative Draft  
Cooperating Agency Review



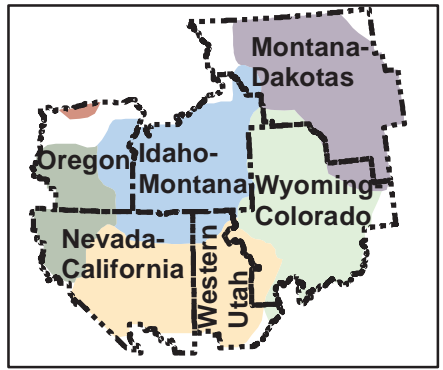


**Figure 1-1  
Greater Sage-Grouse Distribution**



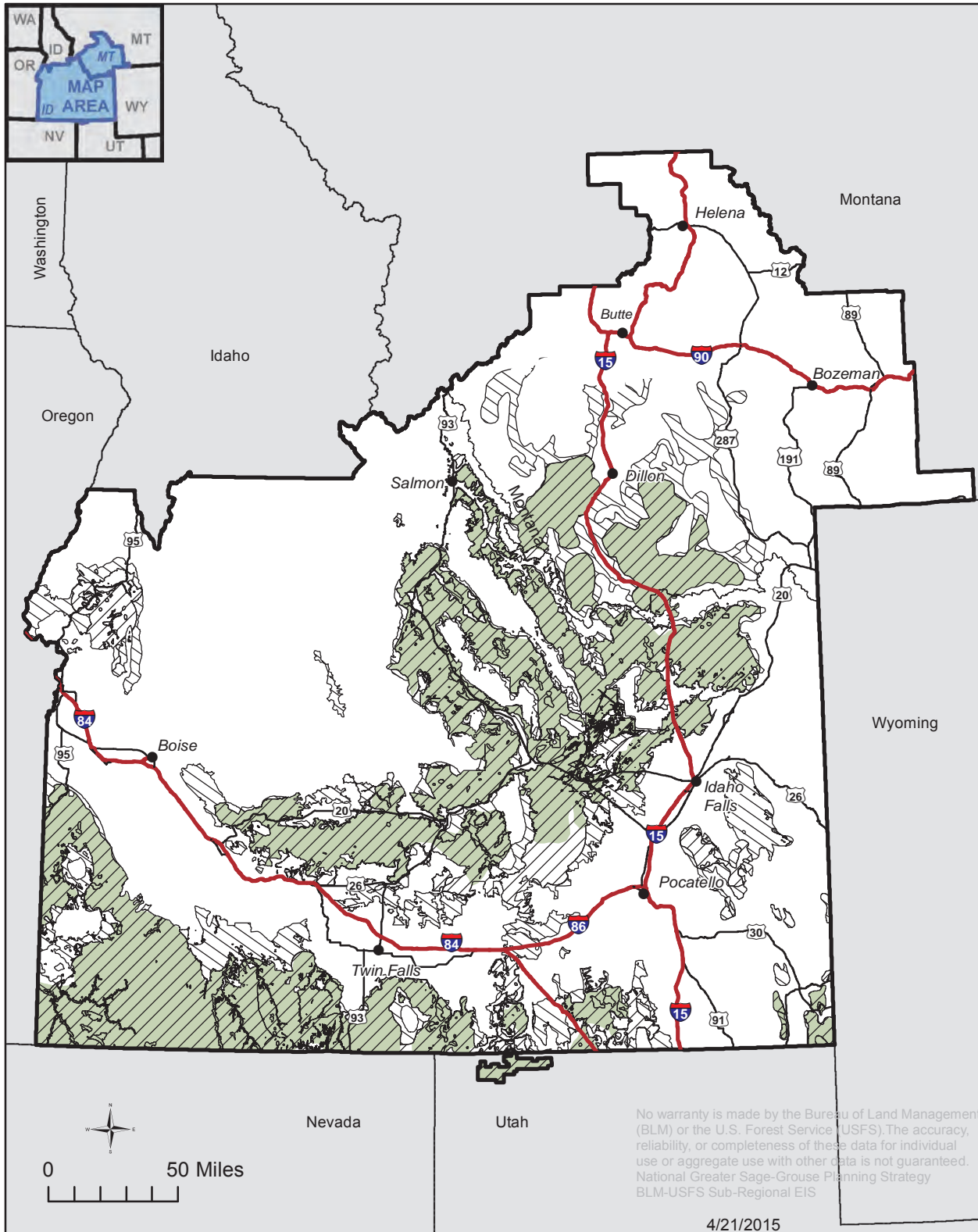
- Sub-Regional EIS Boundary
  - Sage-Grouse Historic Distribution
  - Sage-Grouse Current Distribution
- Consolidated Preliminary Priority and Preliminary General Habitat June 26, 2012**
- Preliminary Priority Habitat
  - Preliminary General Habitat
  - CO SG Population Linkage Areas
  - NV PPH/PGH Analysis Ongoing

- Sub-Regional EIS Boundary
- WAFWA Zone**
- MZ I
  - MZ II and VII
  - MZ III
  - MZ IV
  - MZ V
  - MZ VI





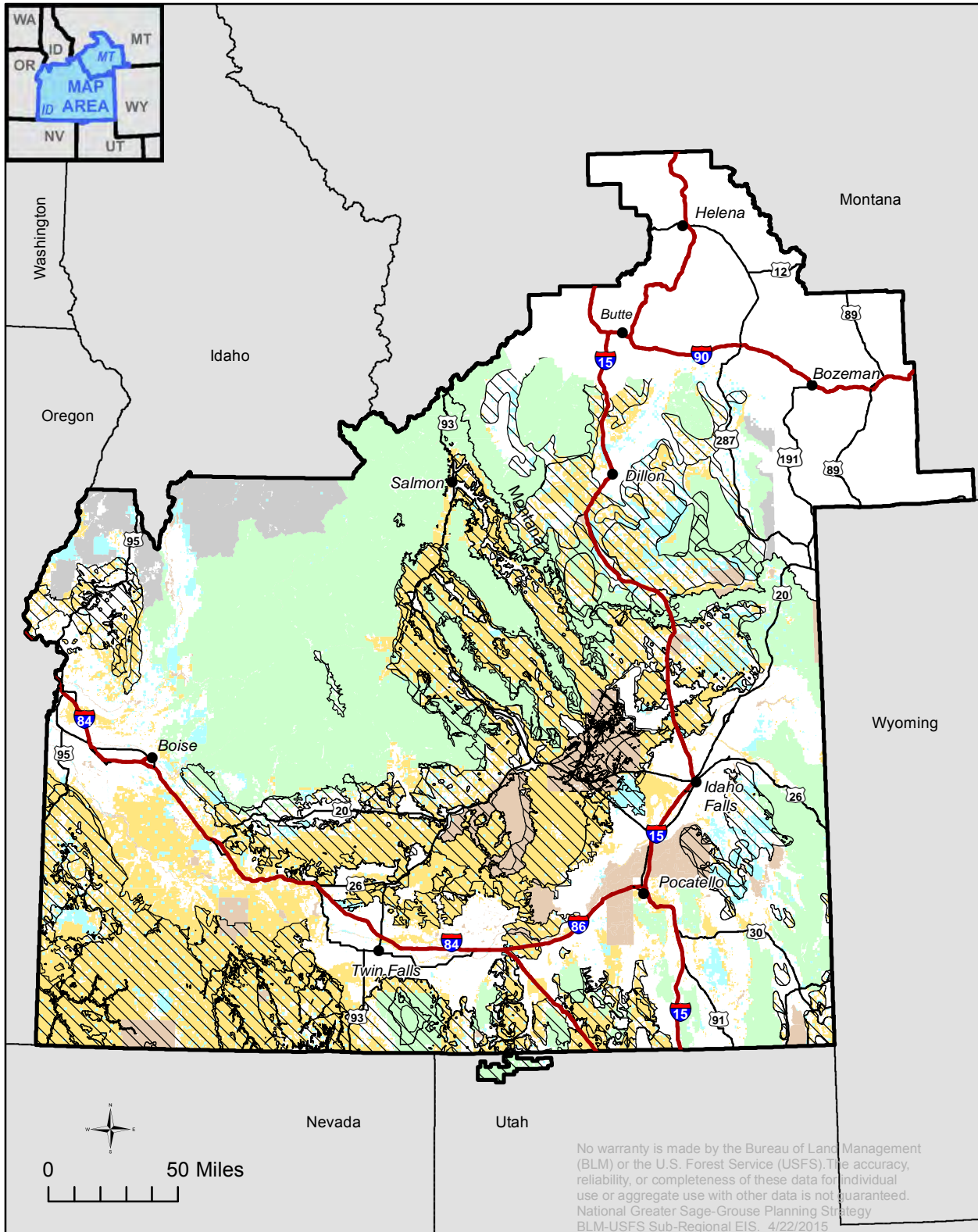
**Figure 1-3**  
**USFWS Priority Areas for Conservation**  
**with Preliminary Priority and General Habitat**



- GRSG COT PAC
- Priority Habitat
- General Habitat
- Analysis Boundary
- Interstate Highway
- US Highway
- Major Cities



**Figure 1-4**  
**Idaho and Southwestern Montana Sub-Regional Planning Area**



**Management Agency**

- Bureau of Land Management
- United States Forest Service
- Private
- State
- Other
- USFS Not Analyzed
- Idaho and SW Montana Sub-regional boundary

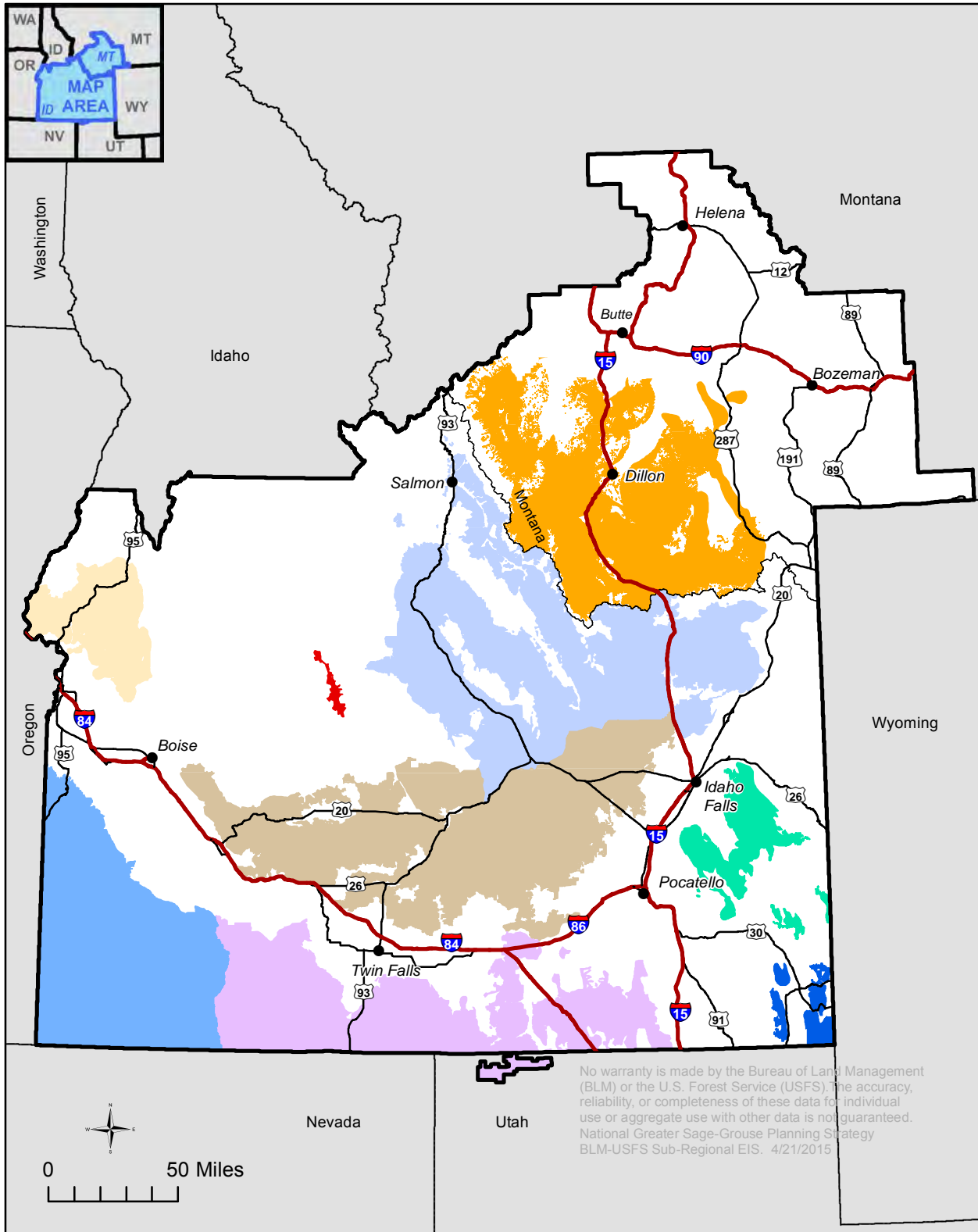
**Preliminary Priority Habitat**









- Priority
- General





**Figure 1-5**  
**Idaho and Southwestern Montana**  
**Greater Sage-Grouse Population Areas**



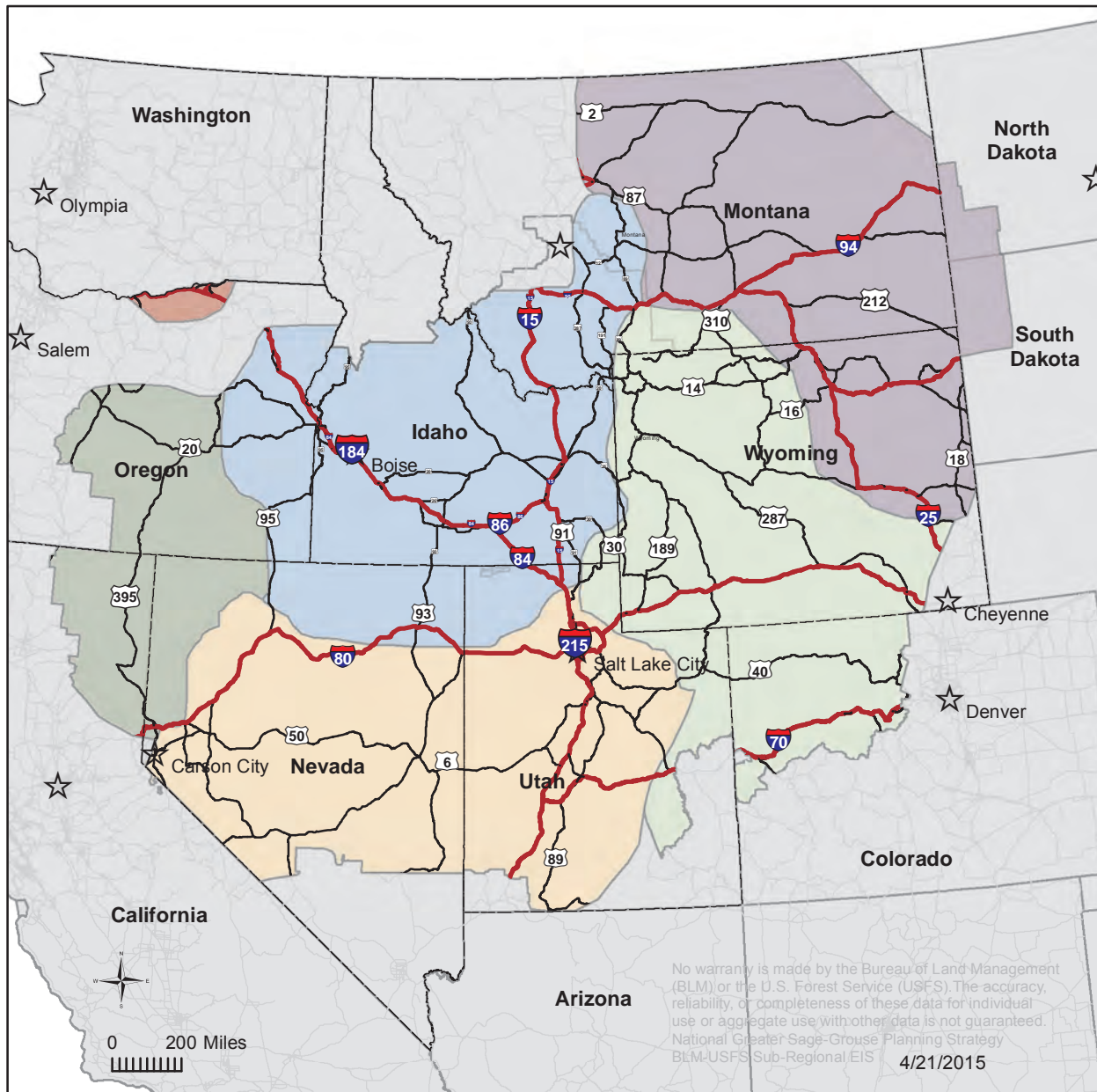
- Population Area \***
-  Bear Lake
  -  SW Montana
  -  South Side Snake
  -  East-Central Idaho
  -  Sawtooth
  -  Southwest Idaho
  -  Mountain Valleys
  -  Weiser
  -  Idaho and SW Montana Sub-regional boundary

\* Modified Connelly et al. 2004





Figure 3-1  
Western United States WAFWA Zones



--- Sub-Regional EIS Boundary

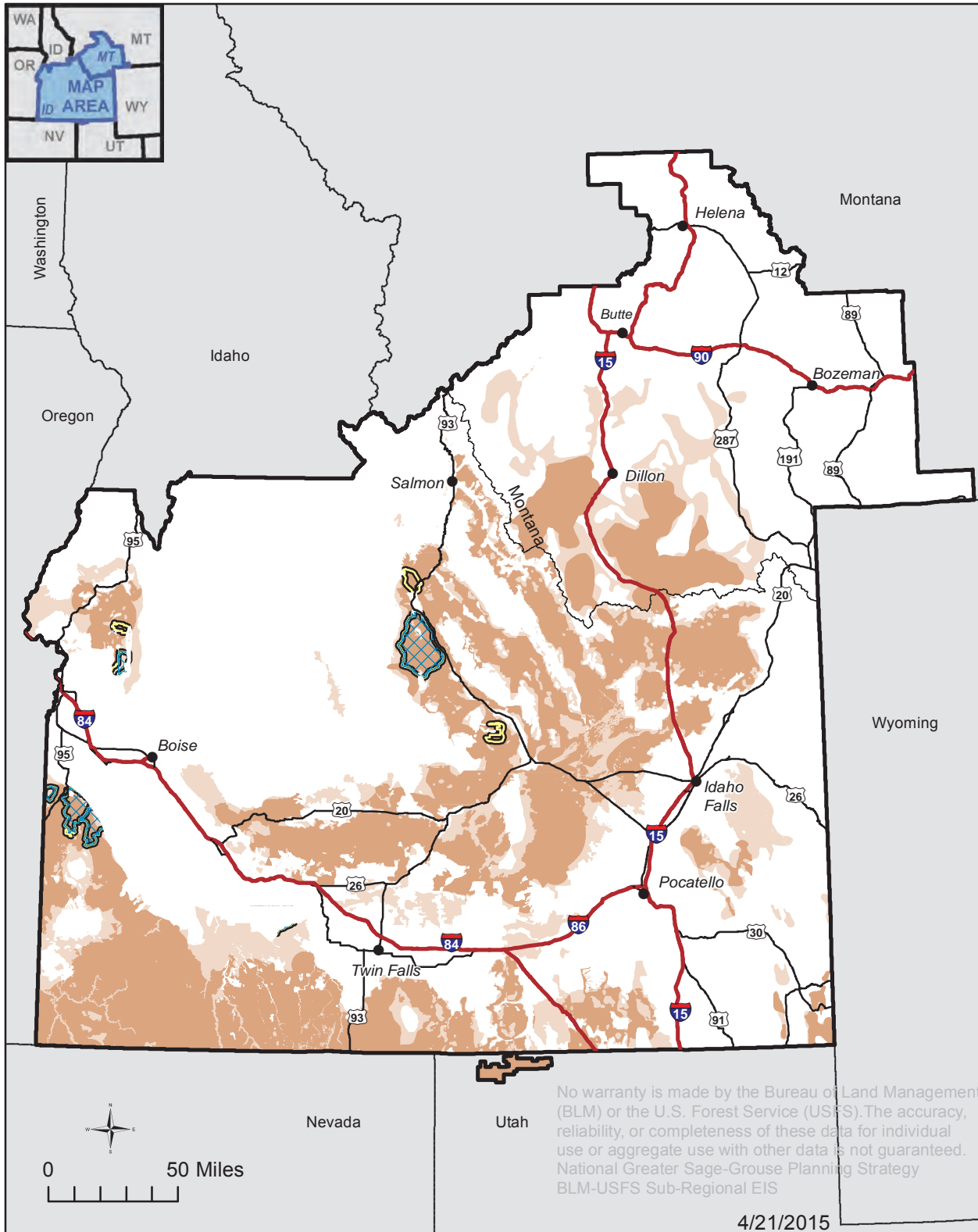
**WAFWA Zone**

- MZ I
- MZ II and VII
- MZ III
- MZ IV
- MZ V
- MZ VI





**Figure 3-2**  
**Wild Horse and Burro Herd Management Areas and Herd Areas**



**Alternative B Habitat**

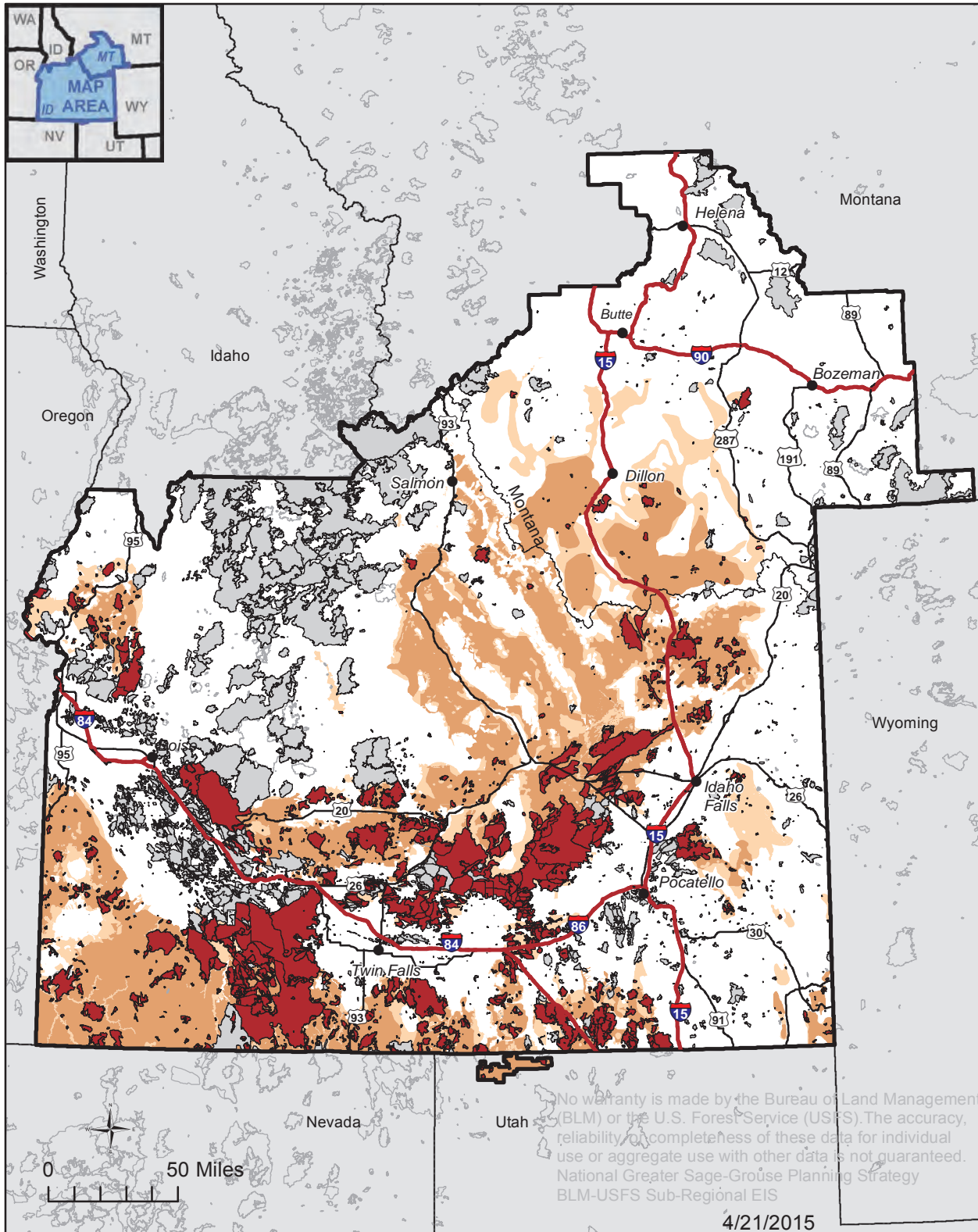
- Preliminary Priority Management Area
- Preliminary General Management Area

- Wild Horse and Burro Herd Management Areas
- Wild Horse and Burro Herd Areas

- Major Cities
- Idaho and SW Montana Sub-regional boundary
- Interstate Highway
- US Highway



### Figure 3-3 Fire History in the Planning Area

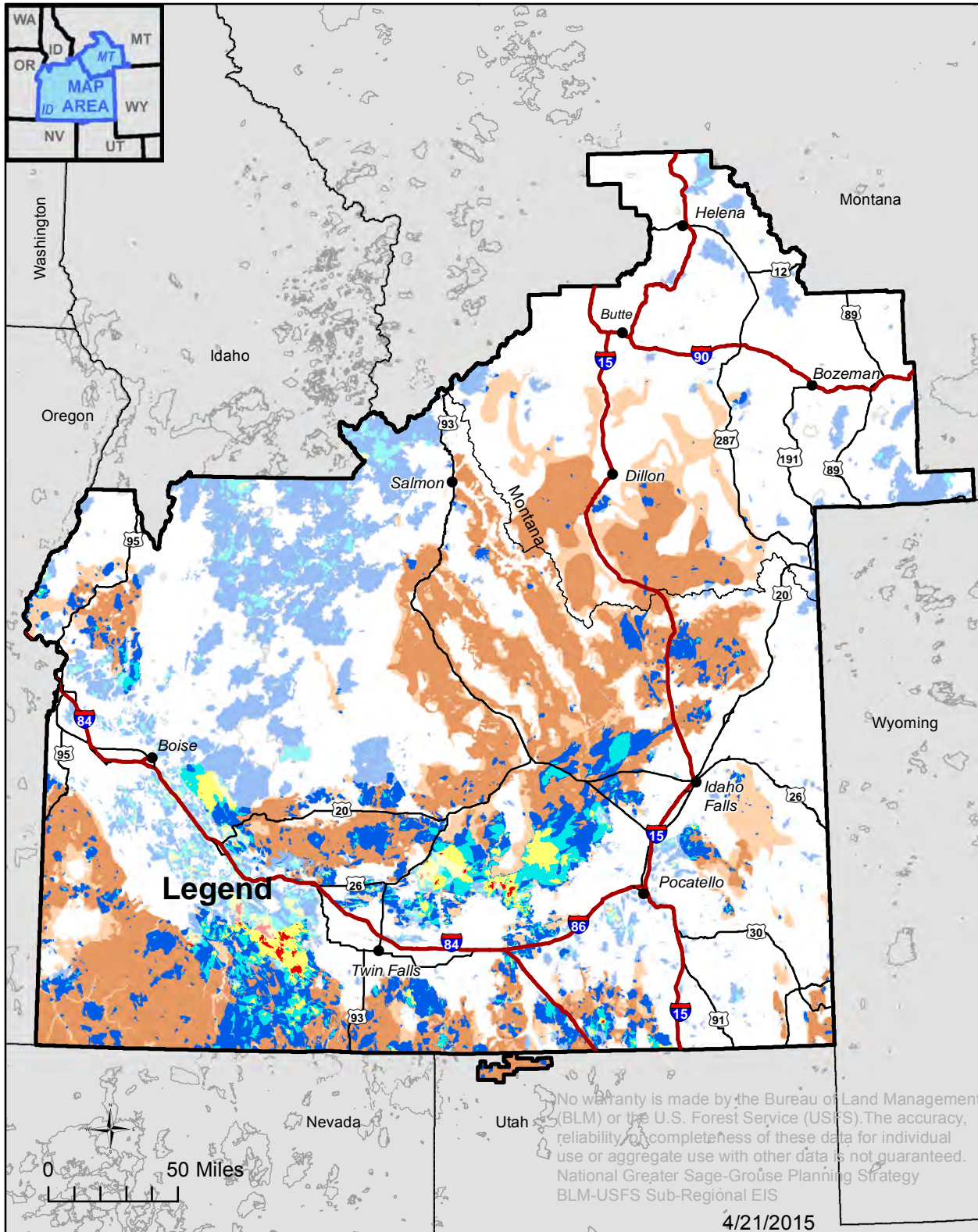


- Fire History - Within Habitat 1980-2013
- Fire History - Outside Habitat 1980-2013
- National Historic Perimeters 2000-2013
- Preliminary Priority Management Area
- Preliminary General Management Area
- Analysis Boundary





**Figure 3-4  
Fire Frequency in the Planning Area**

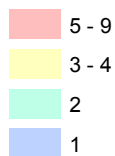


**Fire Frequency 1980-2013**

**within Habitat**



**Outside Habitat**



White outline: National Historic Perimeters 2000-2012

**Alternative B Habitat**

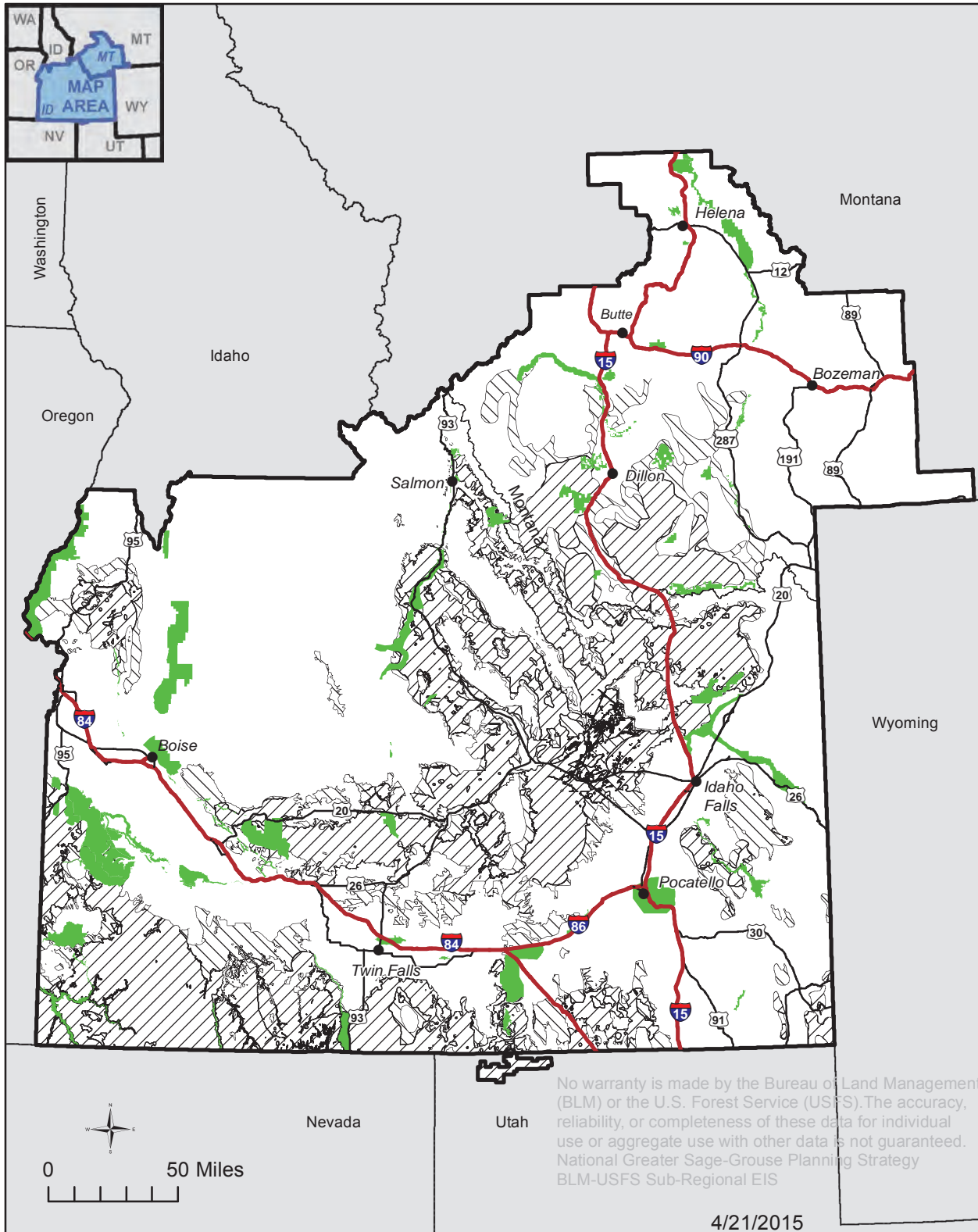
**Habitat Management Area**



Black outline: Idaho and SW Montana Sub-regional boundary



**Figure 3-5**  
**Special Recreation Management Areas**

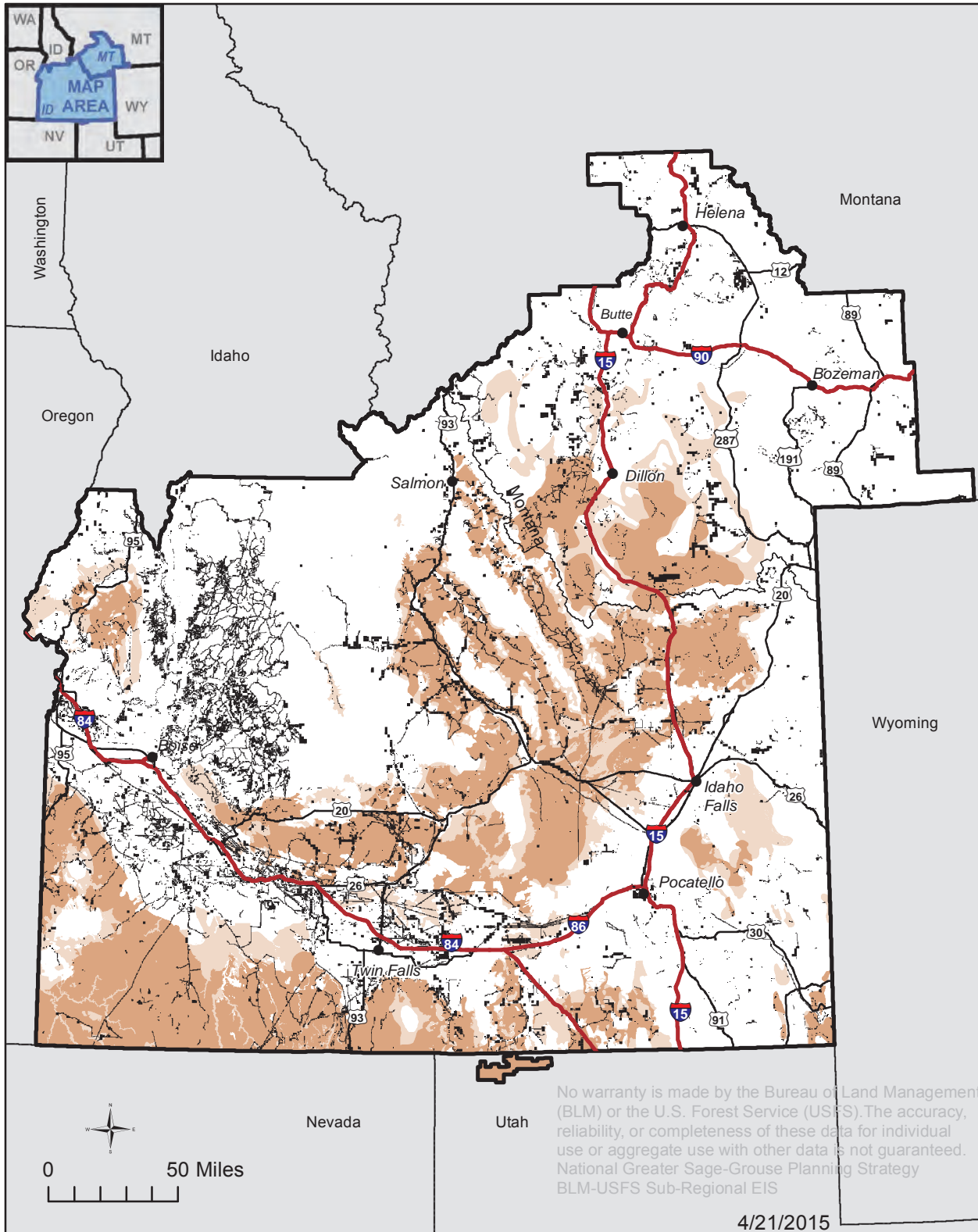


- Special Recreation Management Areas
- Preliminary Priority Management Area
- Preliminary General Management Area
- Analysis Boundary





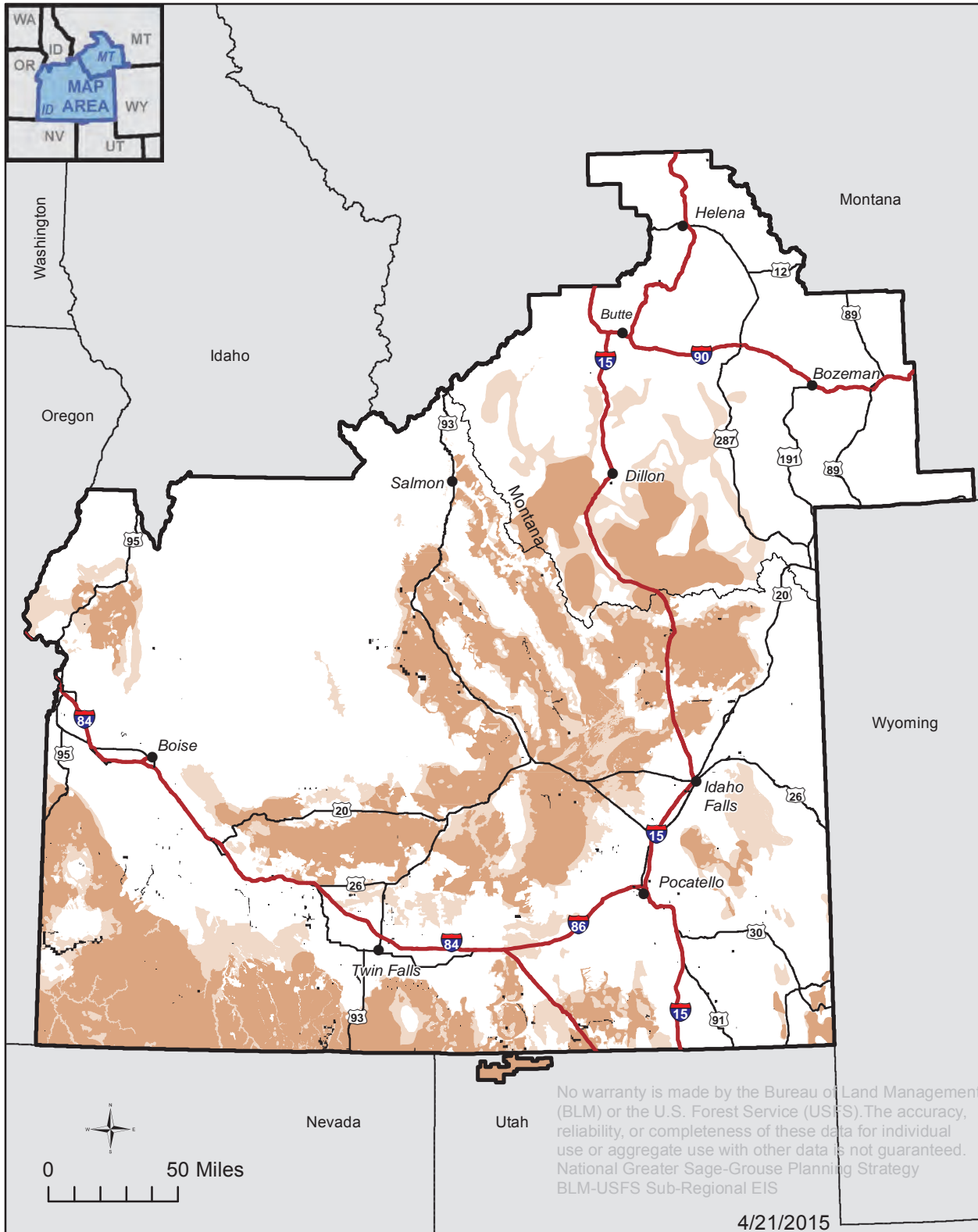
**Figure 3-6**  
**Authorized Rights-of-Way in the Planning Area**



- Authorized Rights of Way as of 4/26/2013
- Preliminary Priority Management Area
- Preliminary General Management Area



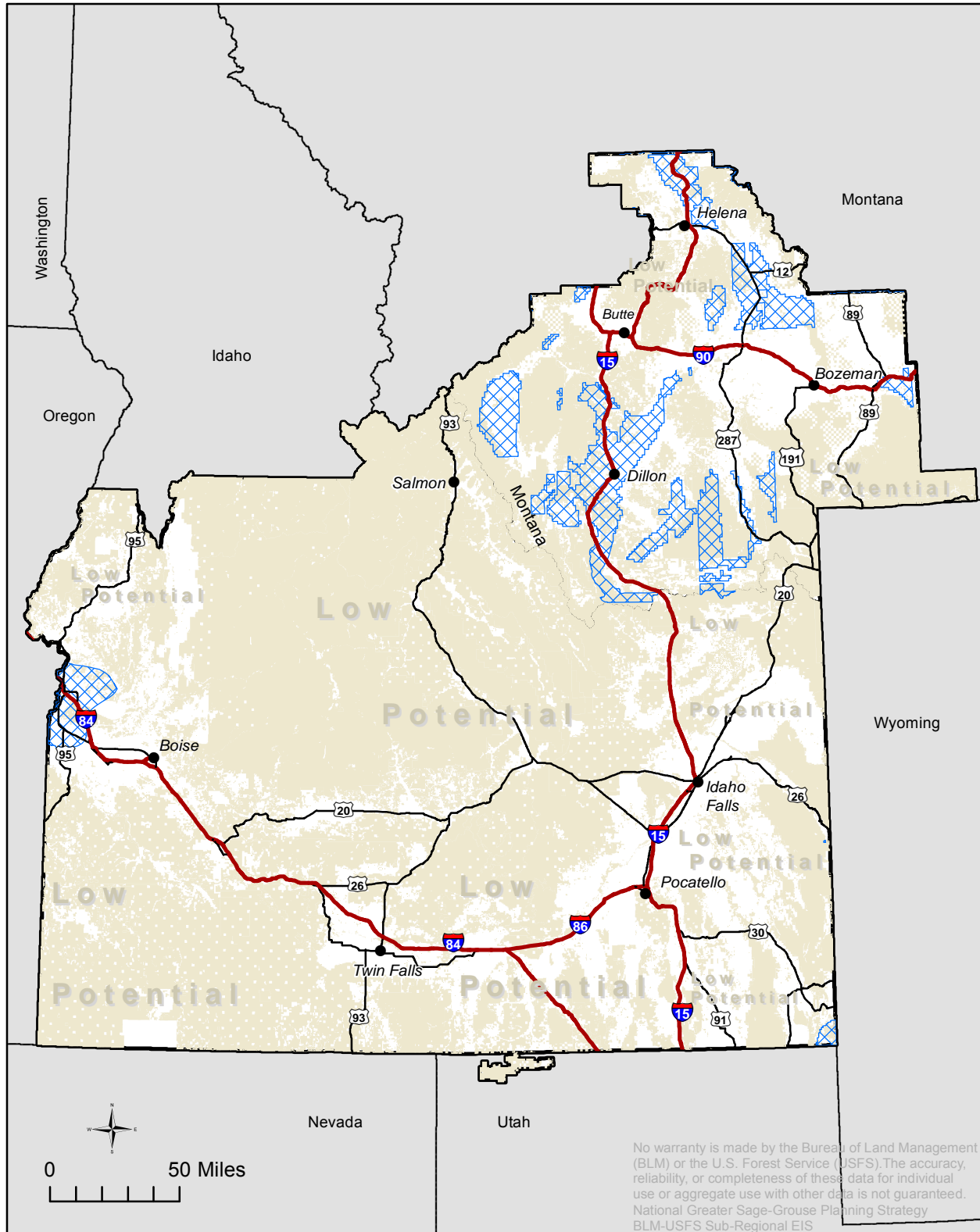
**Figure 3-7**  
**Pending and Expired Rights-of-Way in the Planning Area**






- Pending and Expired Rights of Way as of 4/26/2013
- Preliminary Priority Management Area
- Preliminary General Management Area



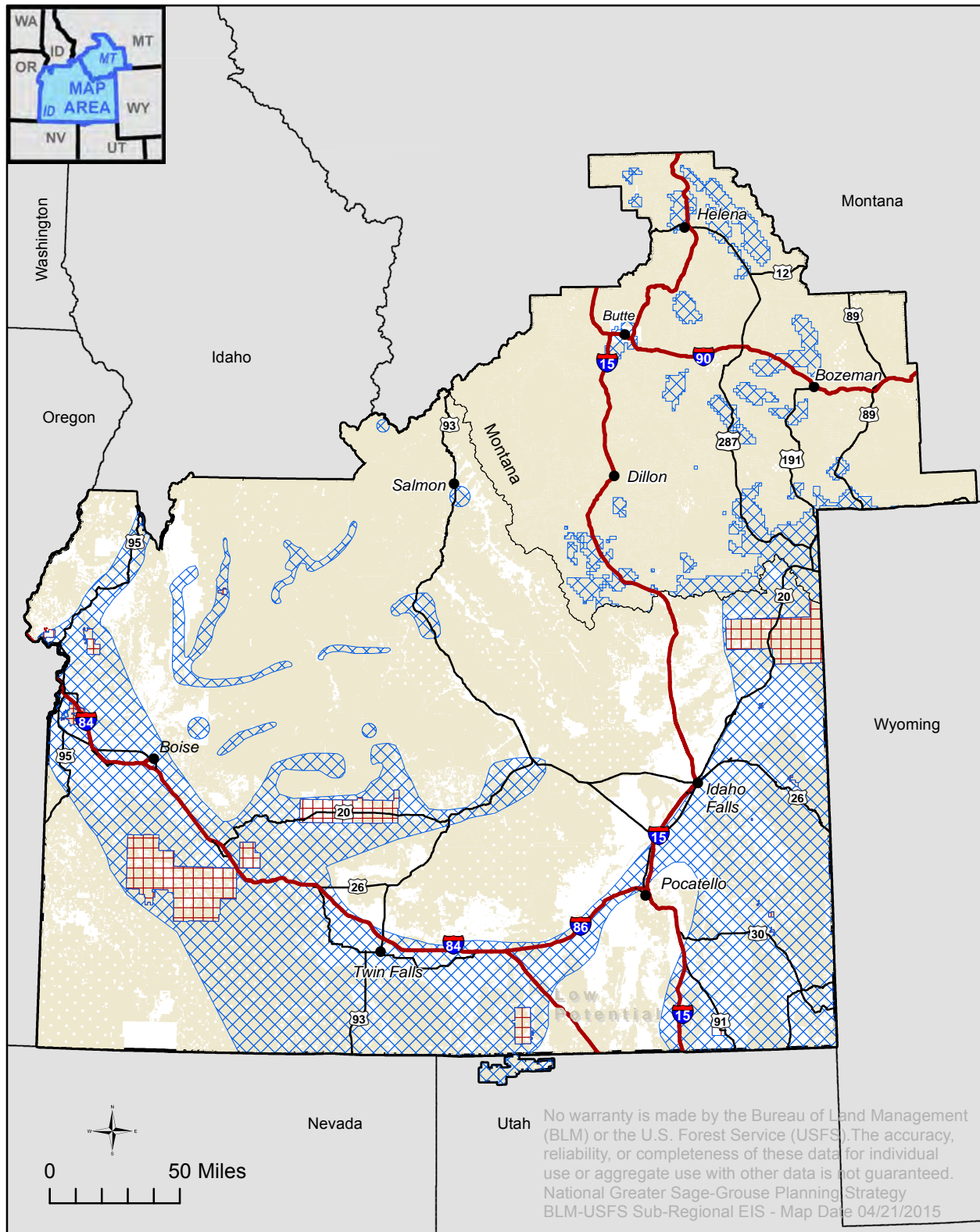
**Figure 3-8**  
**Oil and Gas Potential of Federal Oil and Gas Mineral Estate**







-  Medium Potential for Oil and Gas Resources
  -  Federal Oil and Gas Mineral Estate
  -  Idaho and SW Montana Sub-regional boundary
- No High Potential for Oil and Gas Resources  
 in the Idaho-SW Montana Sub-region



**Figure 3-9**  
**Geothermal Potential of Federal Geothermal Mineral Estate**

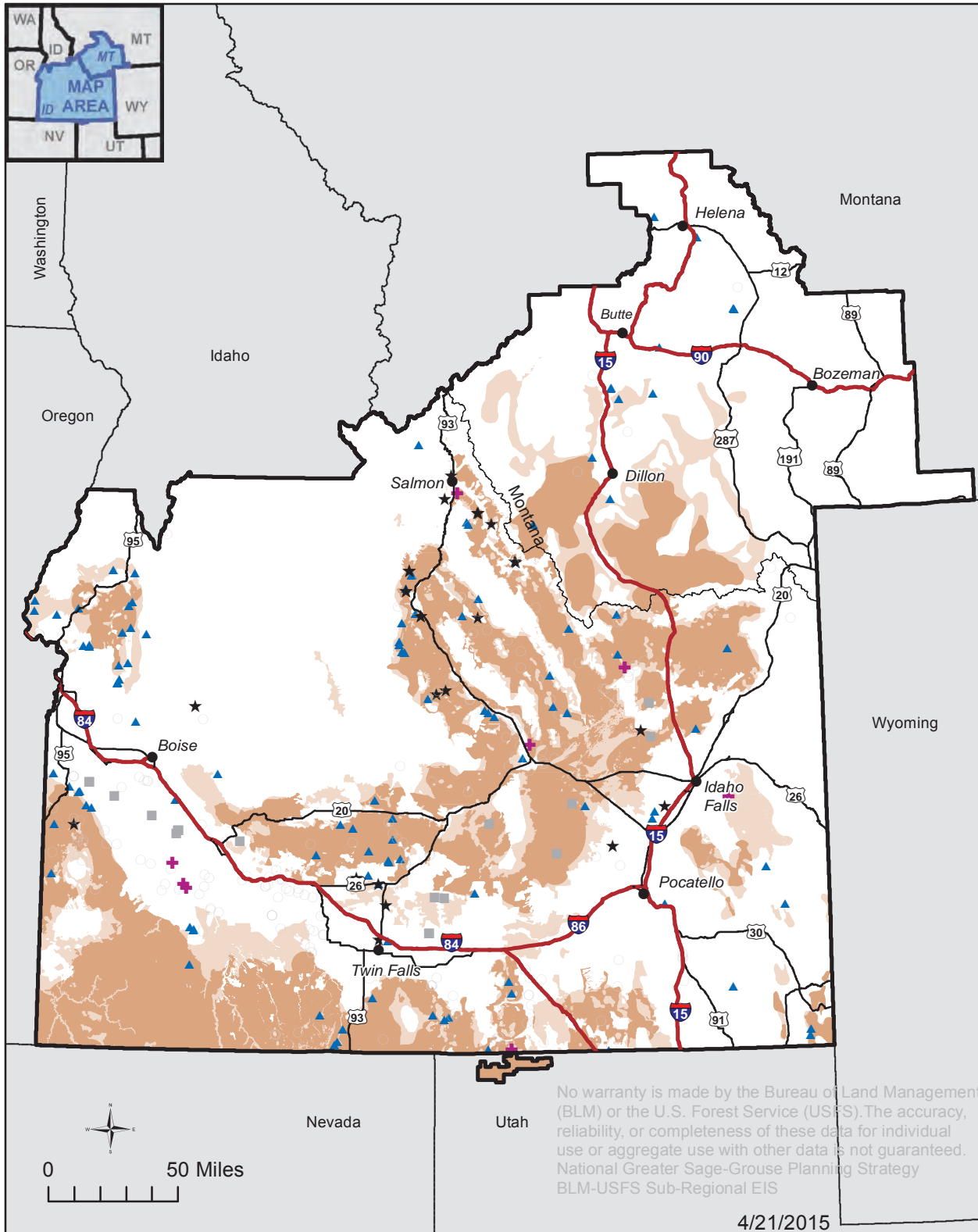


-  High Potential for Geothermal Resources
-  Moderate Potential for Geothermal Resources
-  Federal Geothermal Mineral Estate
-  Idaho and SW Montana Sub-regional boundary





**Figure 3-10**  
**Mineral Material Commodity Types in the Planning Area**

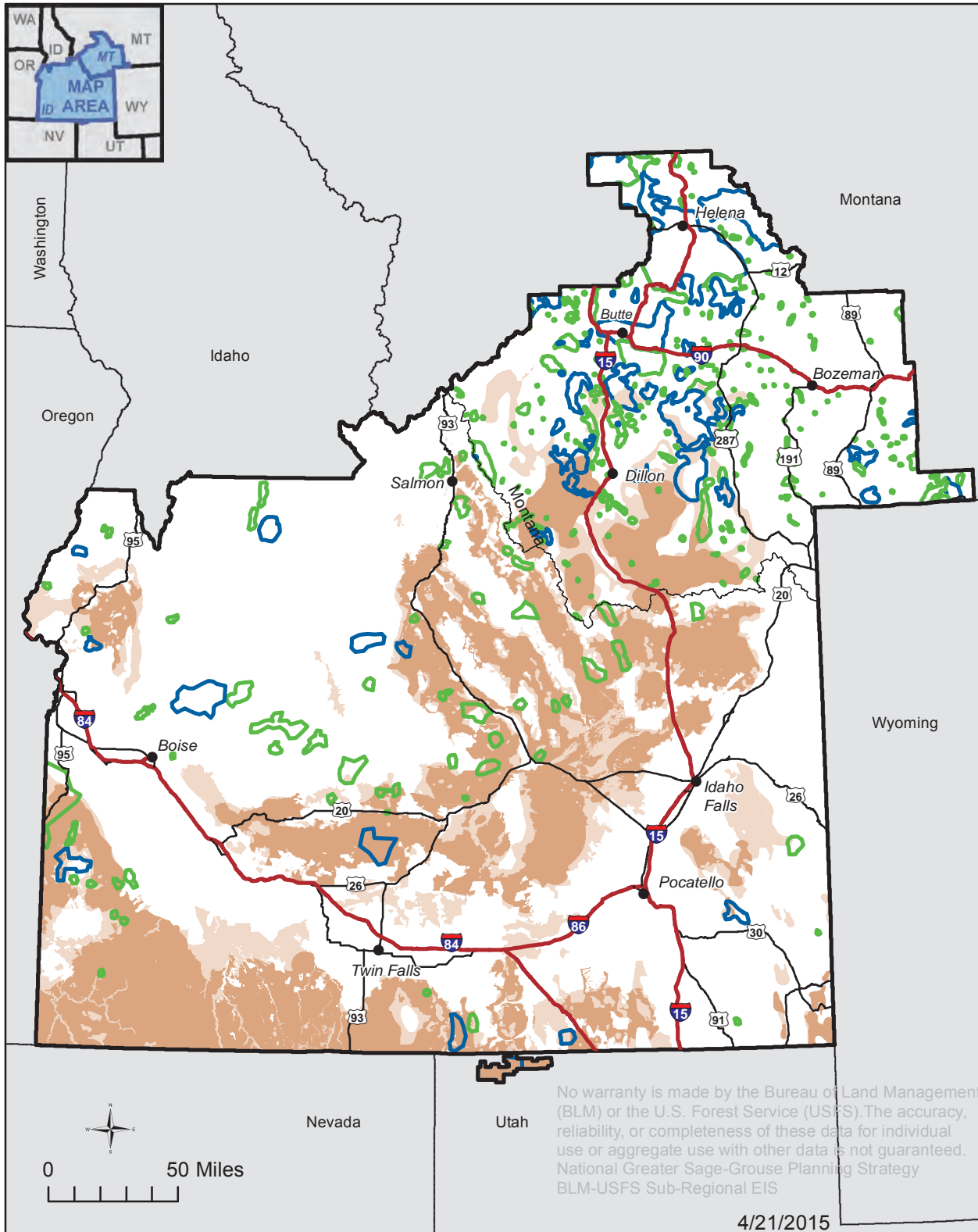


- ▲ Stone
- Sand and Gravel
- ✚ Clay and Limestone
- ★ Soil
- Pumice and Volcanic
- Preliminary Priority Management Area
- Preliminary General Management Area
- ▭ Idaho and SW Montana Sub-regional boundary





**Figure 3-11**  
**Locatable Mineral Potential in the Planning Area**








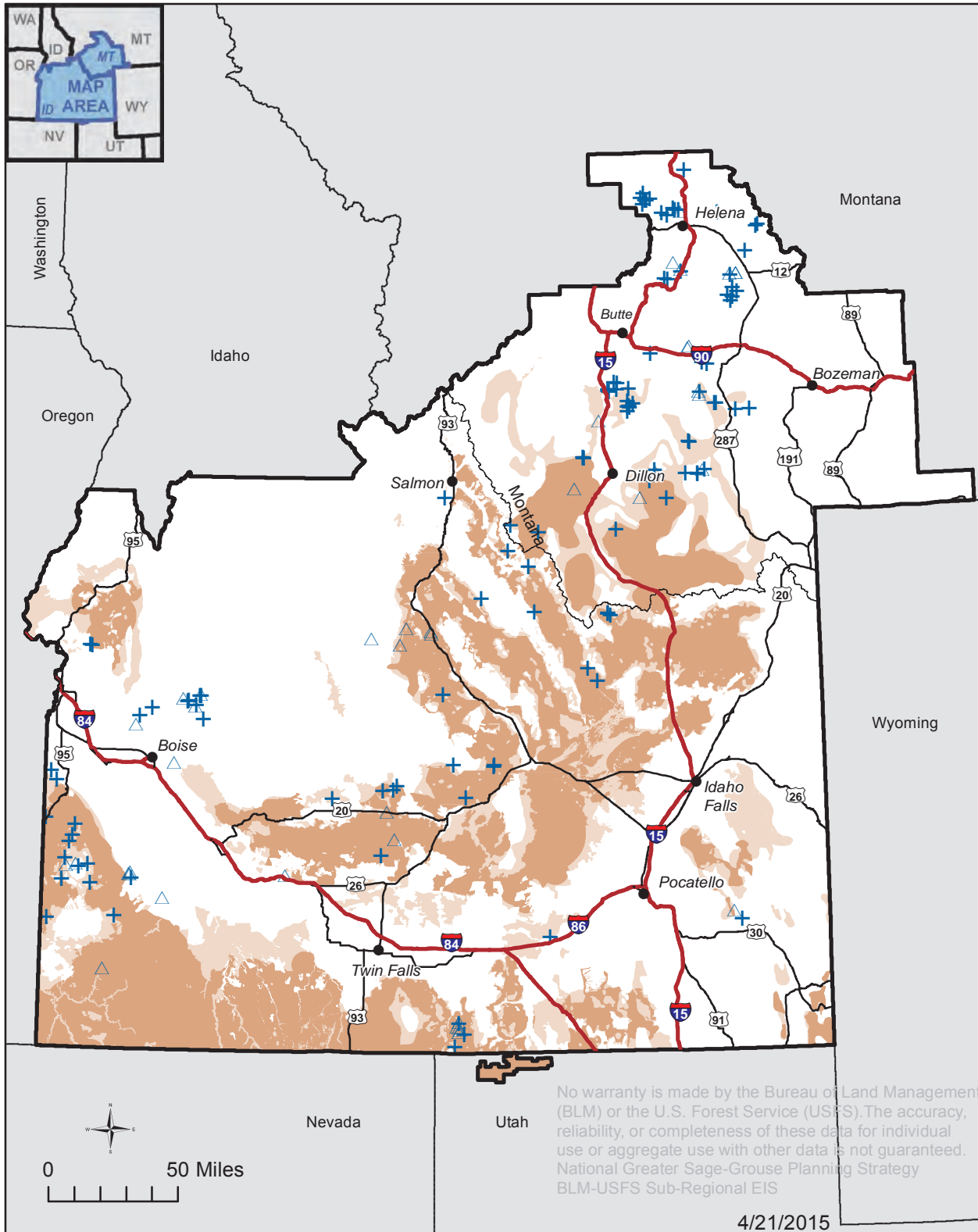
-  High Locatable Mineral Potential
-  Moderate Locatable Mineral Potential
-  Preliminary Priority Management Area
-  Preliminary General Management Area
-  Idaho and SW Montana Sub-regional boundary



Figure 3-12

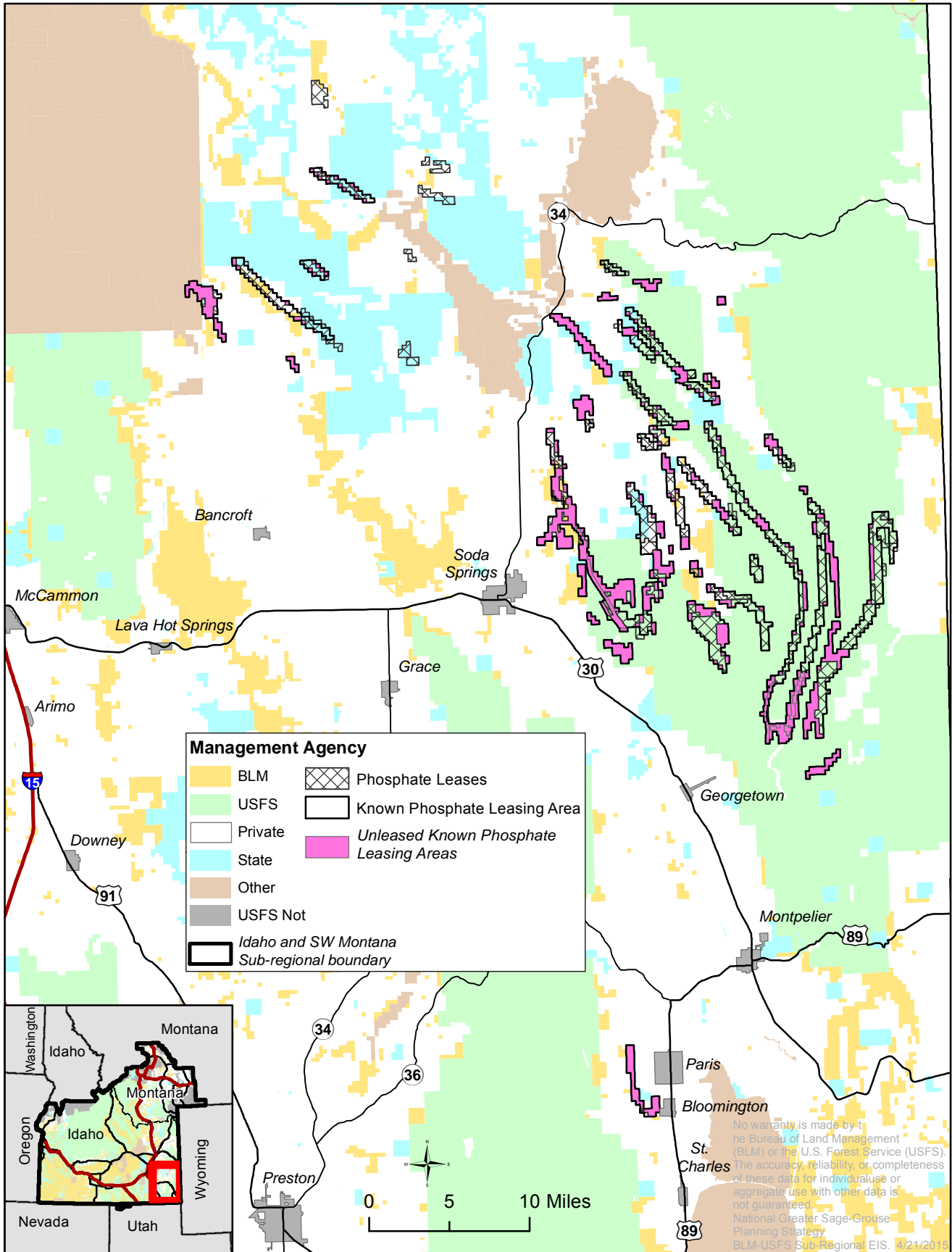
Existing Surface Management Plans or Notices in the Planning Area



- △ SURFACE MGT- PLAN
- + SURFACE MGT- NOTICE
- Preliminary Priority Management Atea
- Preliminary General Management Area
- Analysis Boundary

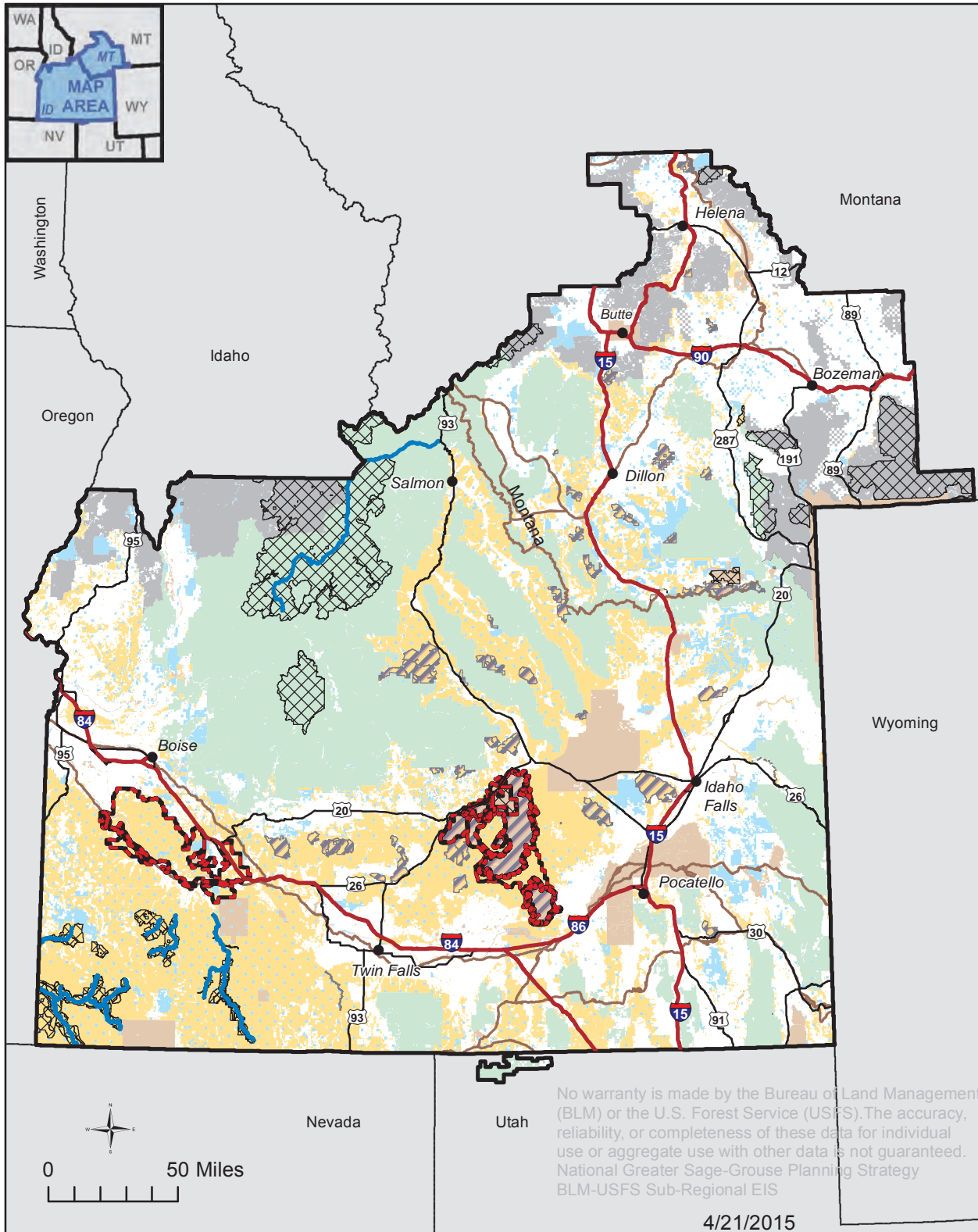


**Figure 3-13**  
**Unleased Known Phosphate Leasing Areas**





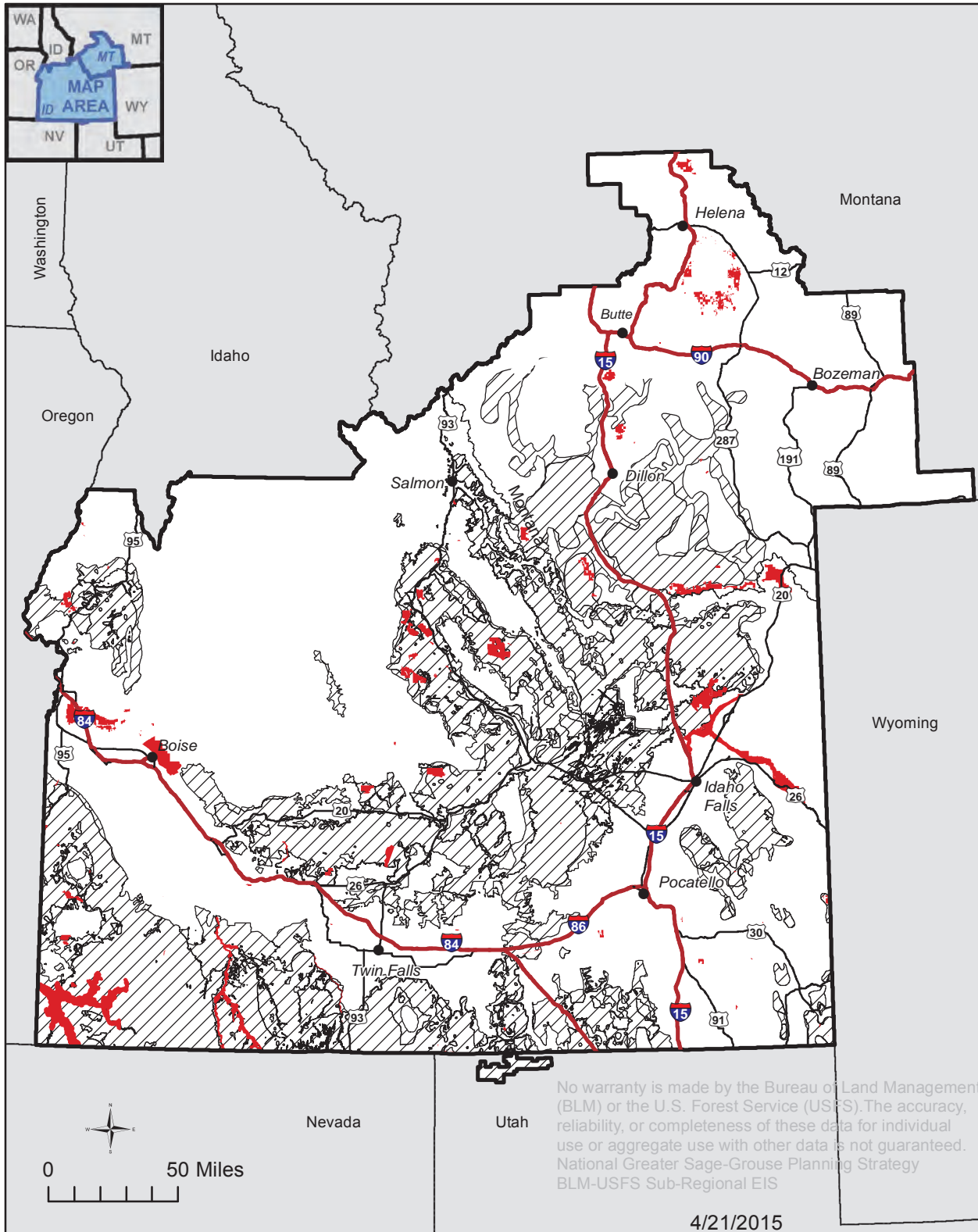
**Figure 3-14**  
**Special Designations in the Planning Area**



- |  |                              |
|--|------------------------------|
| National Historic Trails                       | Bureau of Land Management    |
| Wild Scenic River                              | United States Forest Service |
| National Monument & National Conservation Area | Private                      |
| Wilderness Study Areas                         | State                        |
| Wilderness                                     | Other                        |
| Analysis Boundary                              | USFS Not Analyzed            |



**Figure 3.15**  
**Existing Areas of Critical Environmental Concern with**  
**Preliminary Priority and General Habitat**

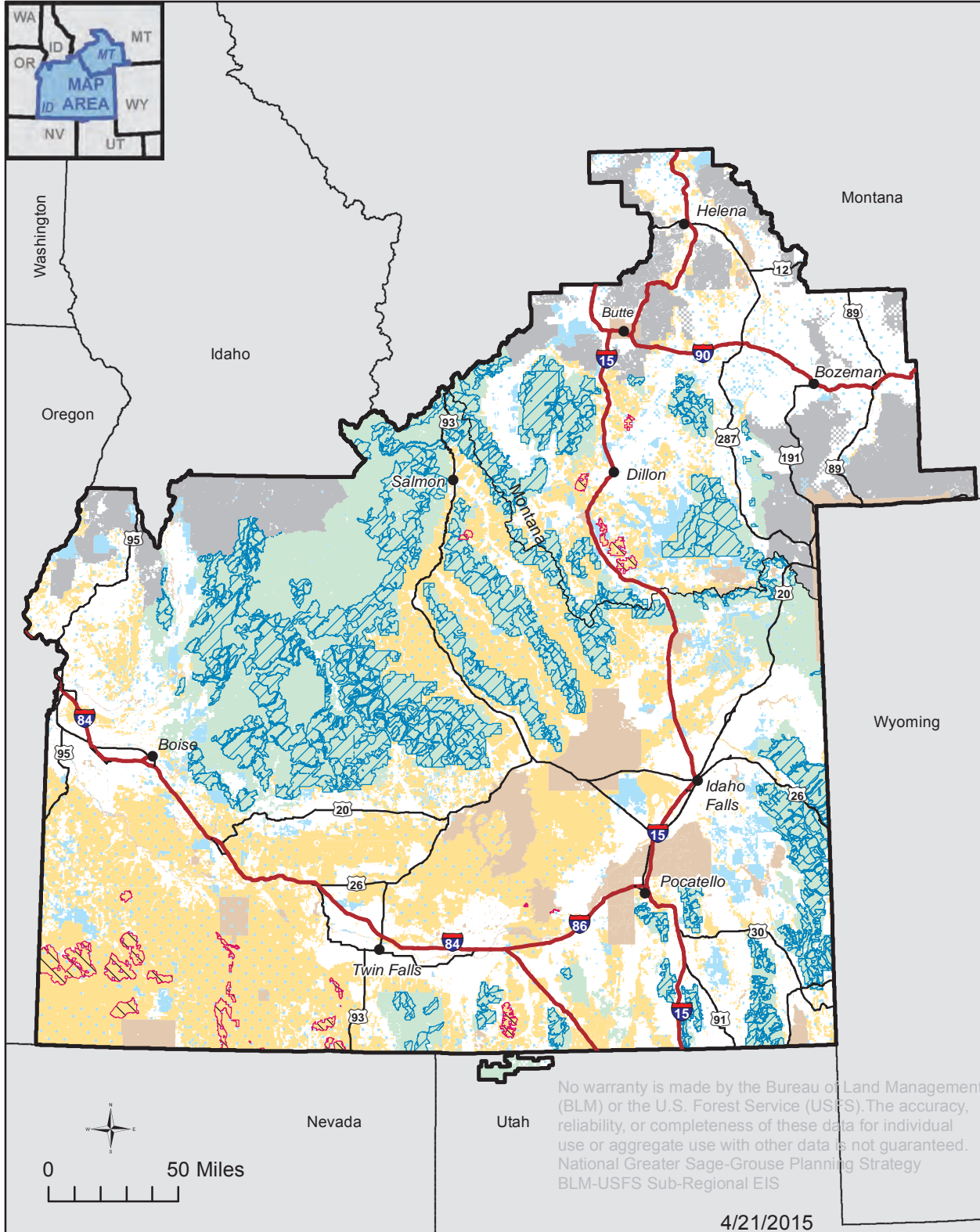


- Existing ACEC
- Analysis Boundary

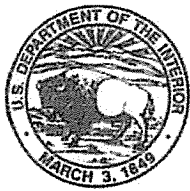




**Figure 3-16**  
**Lands with Wilderness Characteristics and Roadless Areas**  
**in Planning Area**



- |  |  |                                  |                              |
|--|--|----------------------------------|------------------------------|
|  | BLM- Lands with Wilderness Characteristics | <b>Surface Management Agency</b> |                              |
|  | USFS - Roadless Areas                      |                                  | Bureau of Land Management    |
|  |  |                                  | United States Forest Service |
|  |  |                                  | Private                      |
|  |  |                                  | State                        |
|  |  |                                  | Other                        |
|  |  |                                  | USFS Not Analyzed            |



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Washington, D.C. 20240



In Reply Refer To:  
FWS/AES/058711

OCT 27 2014

Memorandum

To: Director, Bureau of Land Management  
Chief, U.S. Forest Service

From: Director 

Subject: Greater Sage-Grouse: Additional Recommendations to Refine Land Use Allocations in Highly Important Landscapes

Pursuant to our October 1, 2014 leadership discussion regarding the federal land management planning process for greater sage-grouse (sage-grouse) conservation and as a continuation of our ongoing coordination and advice regarding your land management plan revisions and amendments, we are providing recommendations to further assist your agencies in the important management decisions you are currently finalizing. During the ongoing coordination effort for the planning process, we have provided conservation advice in the form of the 2013 Conservation Objectives Team final report (COT report), our comments on the draft federal plans including comprehensive analyses of alternatives, and the National Policy Team (NPT) Guidance, as well as other consultative activities.

This memorandum and associated maps respond to a request from the Bureau of Land Management (BLM) to identify a subset of priority habitat most vital to the species persistence, within which we recommend the strongest levels of protection. The areas we have identified on the attached map are a subset of the already identified Priority Habitat Management Areas (PHMA). The areas we have identified within PHMA represent recognized "strongholds" for the species that have been noted and referenced by the conservation community as having the highest densities of the species and other criteria important for the persistence of the species. For example, the Western Association of Fish and Wildlife Agencies' 2004 Conservation Assessment of Greater Sage-Grouse and Sagebrush Habitats (Connelly, et al., 2004; Figure 13.1, attached) included a similar geographic distribution of these stronghold areas for breeding populations of sage-grouse. In addition, in 2010, Doherty et al. produced the first sets of breeding density maps, which clearly illustrate high densities of breeding birds exist in very similar locations. Most recently, Chambers et al. (2014) produced maps of relative resilience and resistance to invasive species and wildfire impacts to sagebrush habitats that also align closely with the subset of priority habitats we have identified in the Great Basin region.

**Strong, durable, and meaningful protection of federally administered lands in these areas will provide additional certainty and help obtain confidence for long-term sage-grouse persistence.** To be clear, enhanced protections in the stronghold areas do not obviate the need to follow the NPT guidance in the entirety of PHMAs (and in PACs in those instances where gaps between PHMA and PACs exist) and in general habitat.

We have previously advised and continue to recommend that BLM and US Forest Service (Forest Service) land management plans be designed to meet the objectives outlined in COT report. The attached maps highlight areas where it is most important that BLM and Forest Service institutionalize the highest degree of protection to help promote persistence of the species.

#### Criteria, Methodology and Rationale

We used the following criteria to identify areas within PHMAs in which the most conservative approach should be applied:

- Existing high-quality sagebrush habitat for sage-grouse;
- Highest breeding densities of sage-grouse;
- Areas identified in the literature as essential to conservation and persistence of the species (Knick and Hanser 2011); and,
- A preponderance of current federal ownership, and in some cases, adjacent protected areas that serve to anchor the conservation importance of the landscape.

In addition, we evaluated these areas against related efforts by partner organizations (NatureServe and Conservation Biology Institute) to determine relative agreement between analyses. Using Data Basin, a mapping and analysis platform, we verified our analysis is consistent with landscape-level sage-grouse conservation opportunities and needs, as defined by the above criteria as well as additional considerations, including the modeled “velocity” of climate change onset in various parts of the range and the potential for fire and invasive species impacts on sage-grouse habitat. In the process of this comparative exercise, we determined there was generally good spatial relationship between these areas and other important habitat conservation values in the sagebrush-steppe ecosystem, including shrub-steppe passerine birds (Hanser and Knick 2011) and mule deer winter range (identified by the Western Governors Association Crucial Habitat Assessment Tool).

#### Rangewide Map (Map 1)

See below for regional maps and individual unit descriptions.

#### Great Basin Region (Map 2)

- **Southern Idaho/northern Nevada:** This general area is comprised almost entirely of federal surface lands. The area contains five designated federal Wilderness areas, and protected areas for bighorn sheep conservation. Sage-grouse breeding densities are very high.
- **North-central Idaho:** This area is anchored by Craters of the Moon National Monument, is comprised of mostly federal surface land ownership, and has a high density of breeding sage-grouse.
- **Areas adjacent to the Sheldon-Hart Mountain National Wildlife Refuge Complex, Oregon and Nevada:** This area occurs predominately on federal surface lands, and includes several Wilderness Study Areas (WSAs). It contains some of the highest sage-grouse breeding densities in Oregon and both of these national wildlife refuges (NWRs) are actively managing for sage-grouse conservation.

- **Southeastern Oregon/north-central Nevada:** This area is predominately federal surface lands and contains five designated WSAs. Breeding densities of sage-grouse are high.

Rocky Mountain Region (Maps 3 and 4):

- **Southwestern/south-central Wyoming (Map 3):** This expansive area is predominately federal surface estate and represents some of the best remaining sage-grouse habitat within the entire range of the species. The area includes four currently designated WSAs, one federal Wilderness area, and several areas managed for historic and cultural resources (which exclude development). Seedskadee National Wildlife Refuge is in the vicinity.
- **Bear River Watershed (Northeastern Utah/Southwestern Wyoming, Map 3):** This area has a high density of breeding sage-grouse. Cokeville Meadows NWR is located nearby.
- **North-central Montana (Map 4):** This area comprises the highest breeding sage-grouse densities in Montana. It follows the Missouri River, is adjacent to Charles M. Russell NWR. This area also provides wintering habitat for sage-grouse migrating seasonally from Alberta, Canada, where the species listed as endangered under the Canadian Species at Risk Act.

References

- U.S. Fish and Wildlife Service. 2013. Greater sage-grouse (*Centrocercus urophasianus*) Conservation objectives: final report. U.S. Fish and Wildlife Service, Denver, CO.
- Connelly, J.W., S.T. Knick, M.A. Schroeder, and S.J. Stiver. 2004. Conservation assessment of greater sage-grouse and sagebrush habitats. Western Association of Fish and Wildlife Agencies. Unpublished Report. Cheyenne, WY.
- Doherty, K.E., J.D. Tack, J.S. Evans, and D.E. Naugle. 2010. Mapping breeding densities of greater sage-grouse: A tool for range-wide conservation planning. BLM Completion Report. Interagency Agreement # L10PG00911.
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Hanser, S.E. and Knick, S.T. 2011. Greater Sage-Grouse as an Umbrella Species for Shrub and Passerine Birds: A Multi-Scale Assessment. Pp. 475 – 487 in S.T. Knick and J.W. Connelly (editors). Greater Sage-Grouse: ecology and conservation of a landscape species and its habitats. Studies in Avian Biology (vol. 38), University of California Press, Berkeley, CA.

References, cont.

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<http://www.westgovchat.org>

Data Basin, *see* <http://databasin.org/>

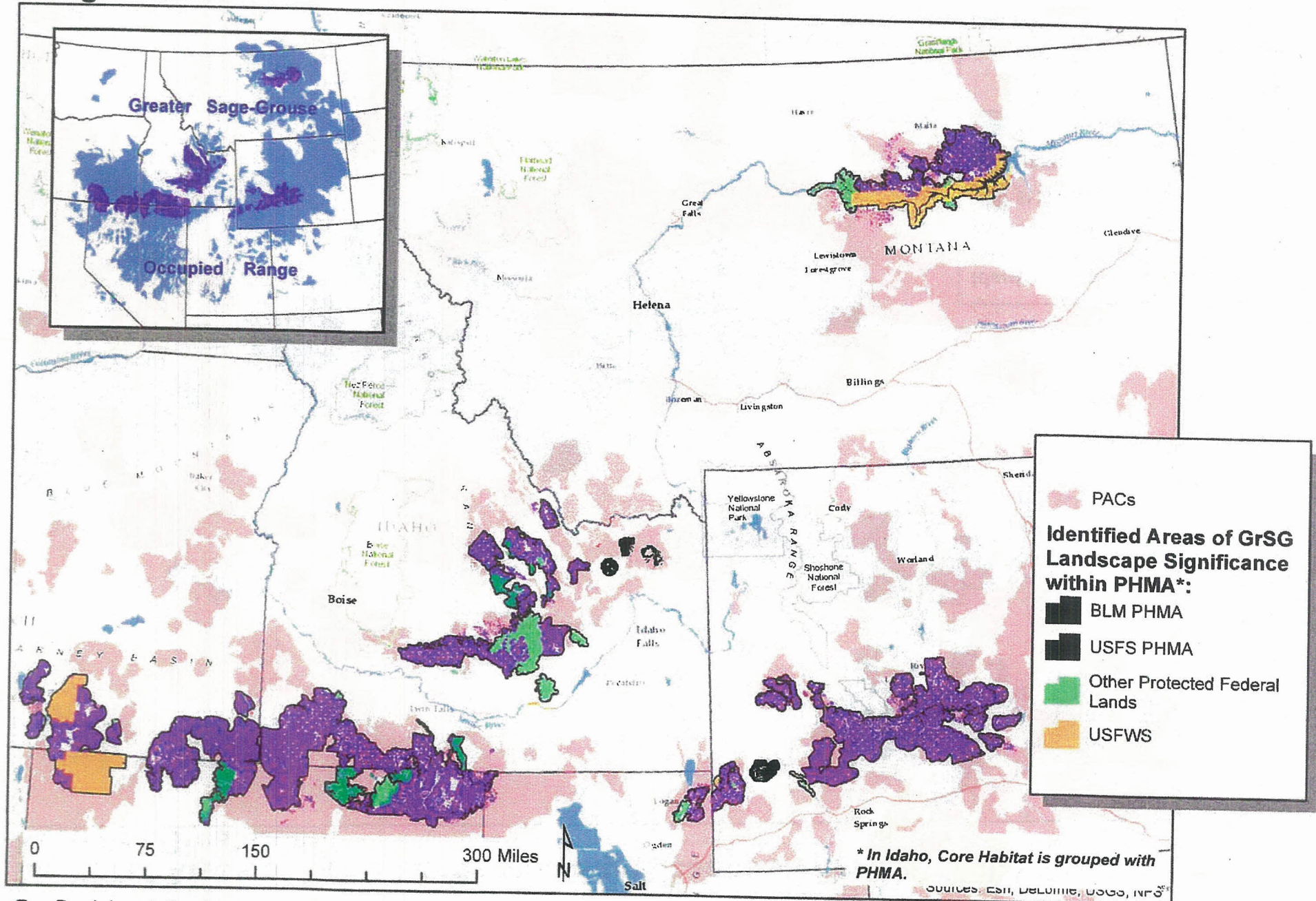
Enclosures

Maps 1-4

Figure 13.1, from Connelly, et al, 2004.



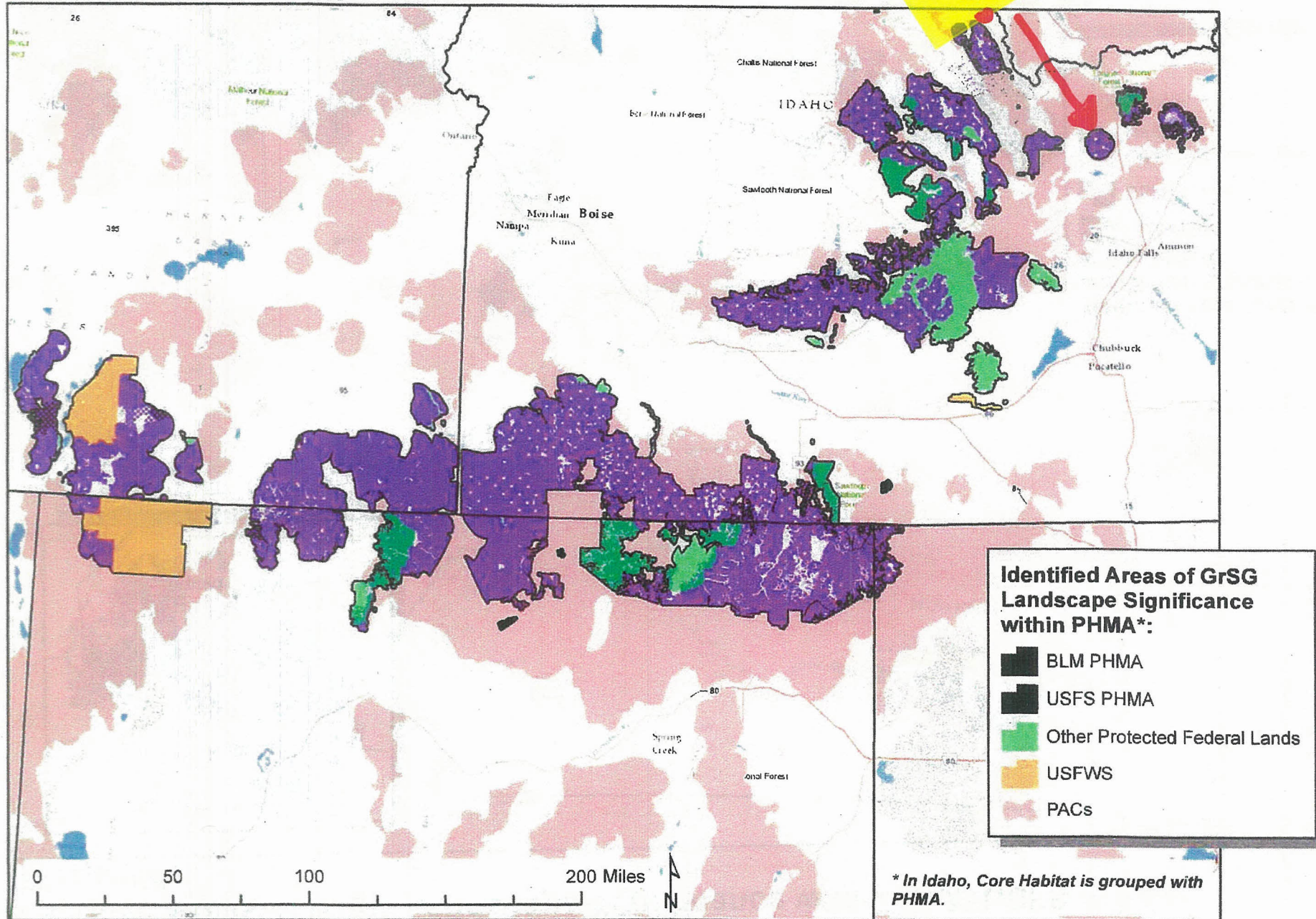
# Identified Areas of GrSG Landscape Significance within BLM/USFS PHMA: Rangewide



Pre-Decisional; For Internal Review Purposes Only. Do Not Distribute.  
PHMA current as of October, 2014.



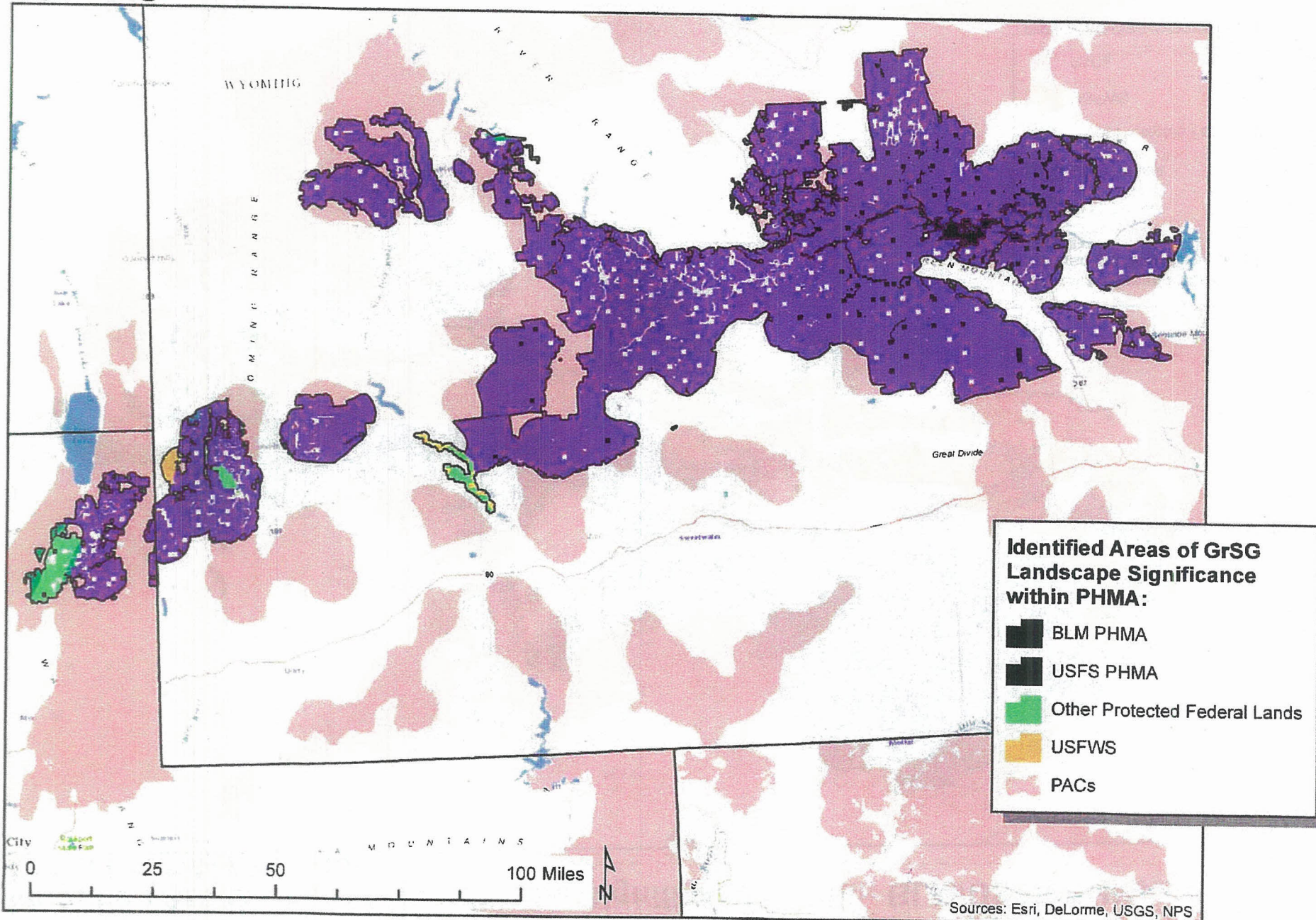
# Identified Areas of GrSG Landscape Significance within BLM/USFS PHMA: Northern Great Basin



Pre-Decisional; For Internal Review Purposes Only. Do Not Distribute.  
PHMA current as of October, 2014.



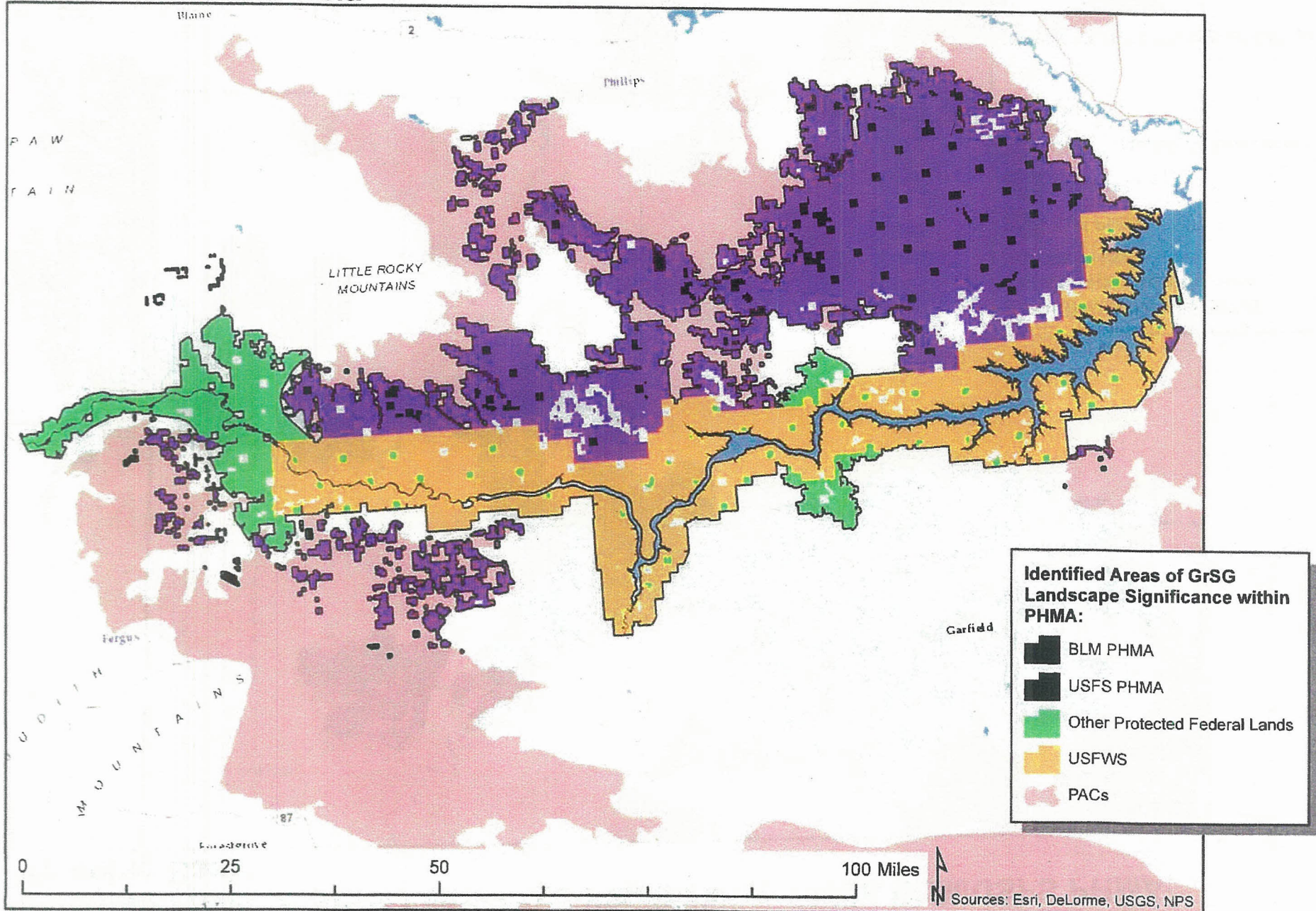
# Identified Areas of GrSG Landscape Significance within BLM/USFS PHMA: Wyoming Basin



Pre-Decisional; For Internal Review Purposes Only. Do Not Distribute.  
 PHMA current as of October, 2014.



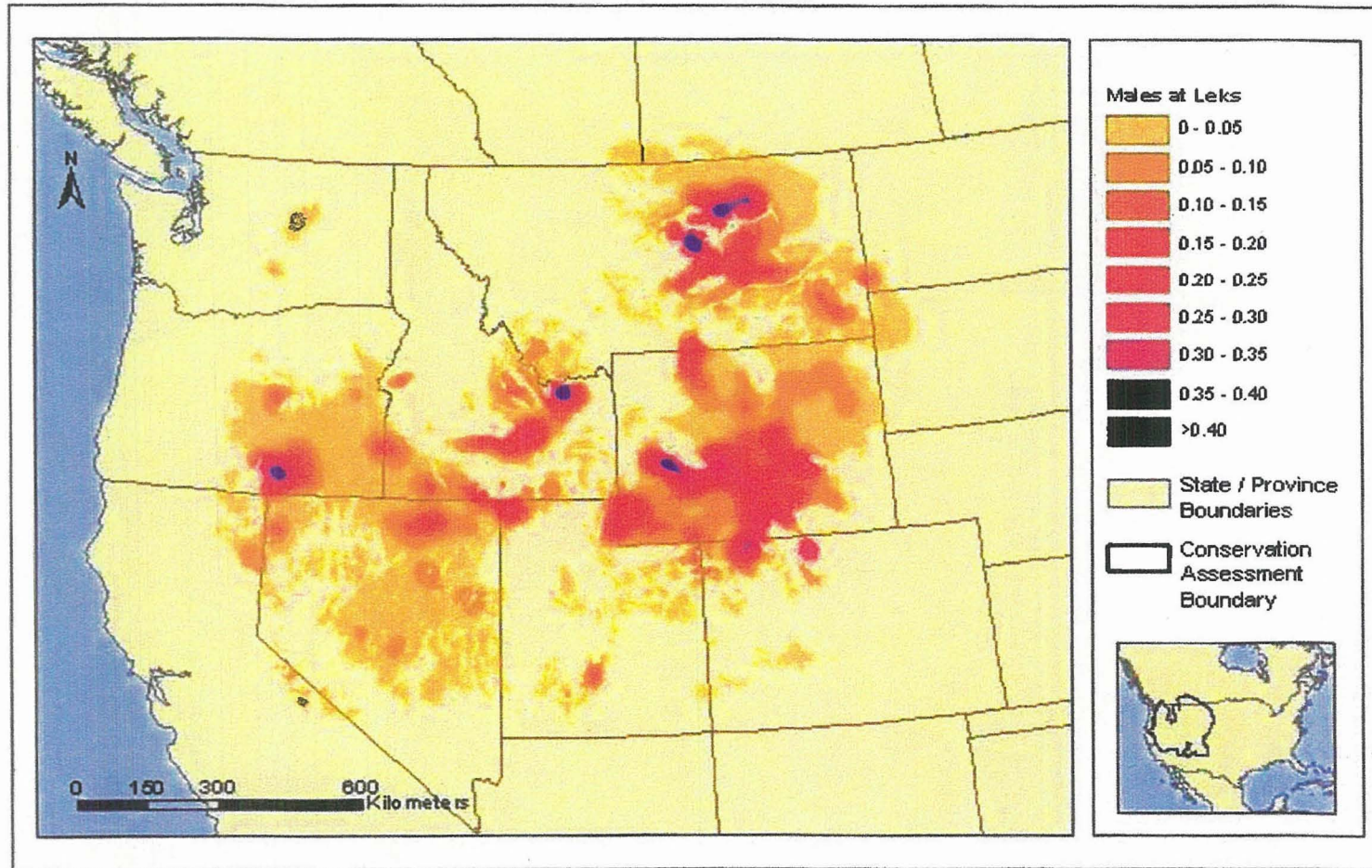
# Identified Areas of GrSG Landscape Significance within BLM/USFS PHMA: North Central Montana



Pre-Decisional; For Internal Review Purposes Only. Do Not Distribute.  
PHMA current as of October, 2014.



Figure 13.1 Strongholds for breeding populations of sage-grouse in western North America.

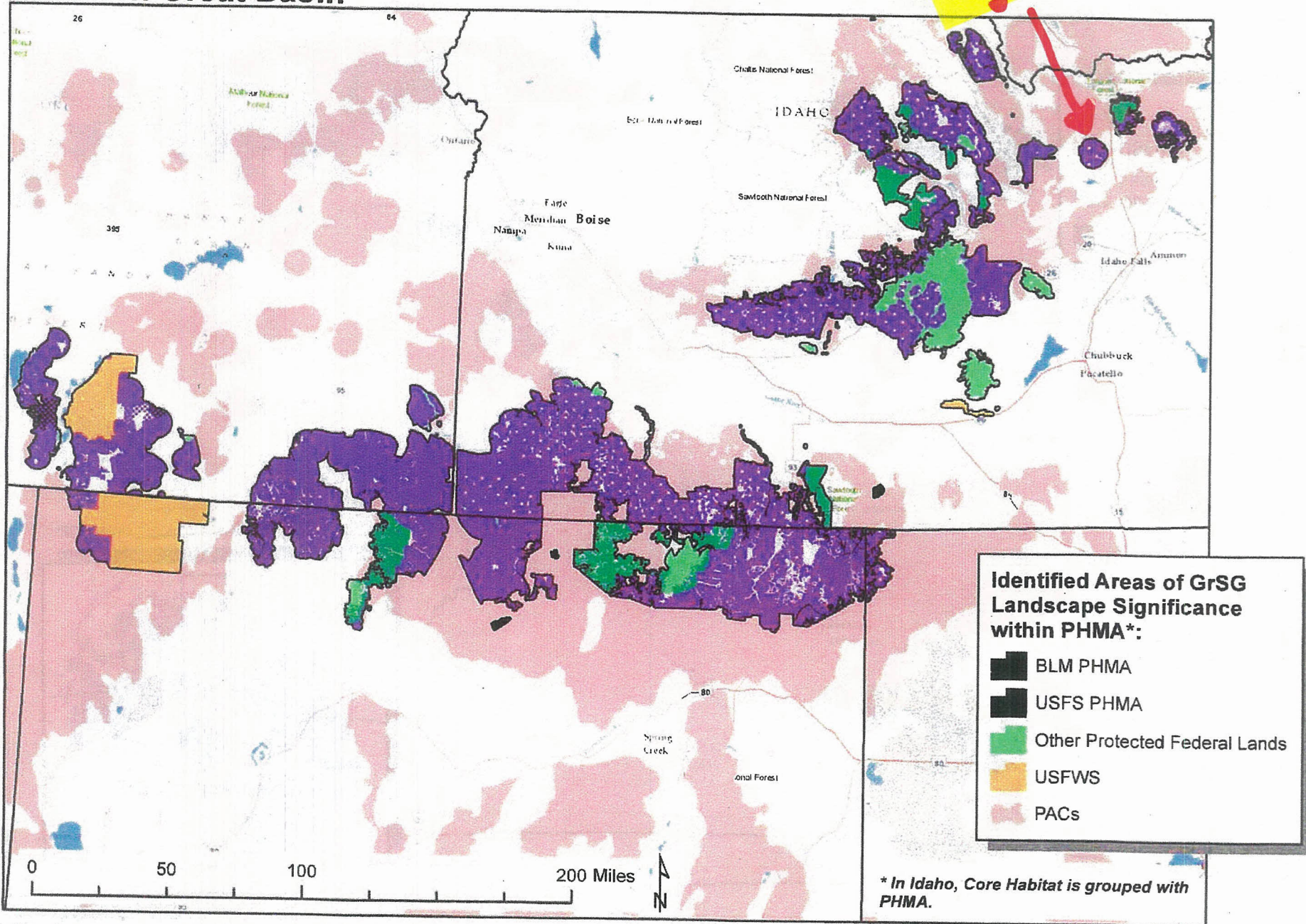


Note: The darker shades represent the greatest densities of males/km<sup>2</sup>

Source: Connelly, J.W., Knick, S.T., Schroeder, M.A., and Stiver, S.J., 2004. Conservation Assessment of Greater Sage-Grouse and Sagebrush Habitats. Western Association of Fish and Wildlife Agencies. Unpublished Report. Cheyenne, Wyoming.



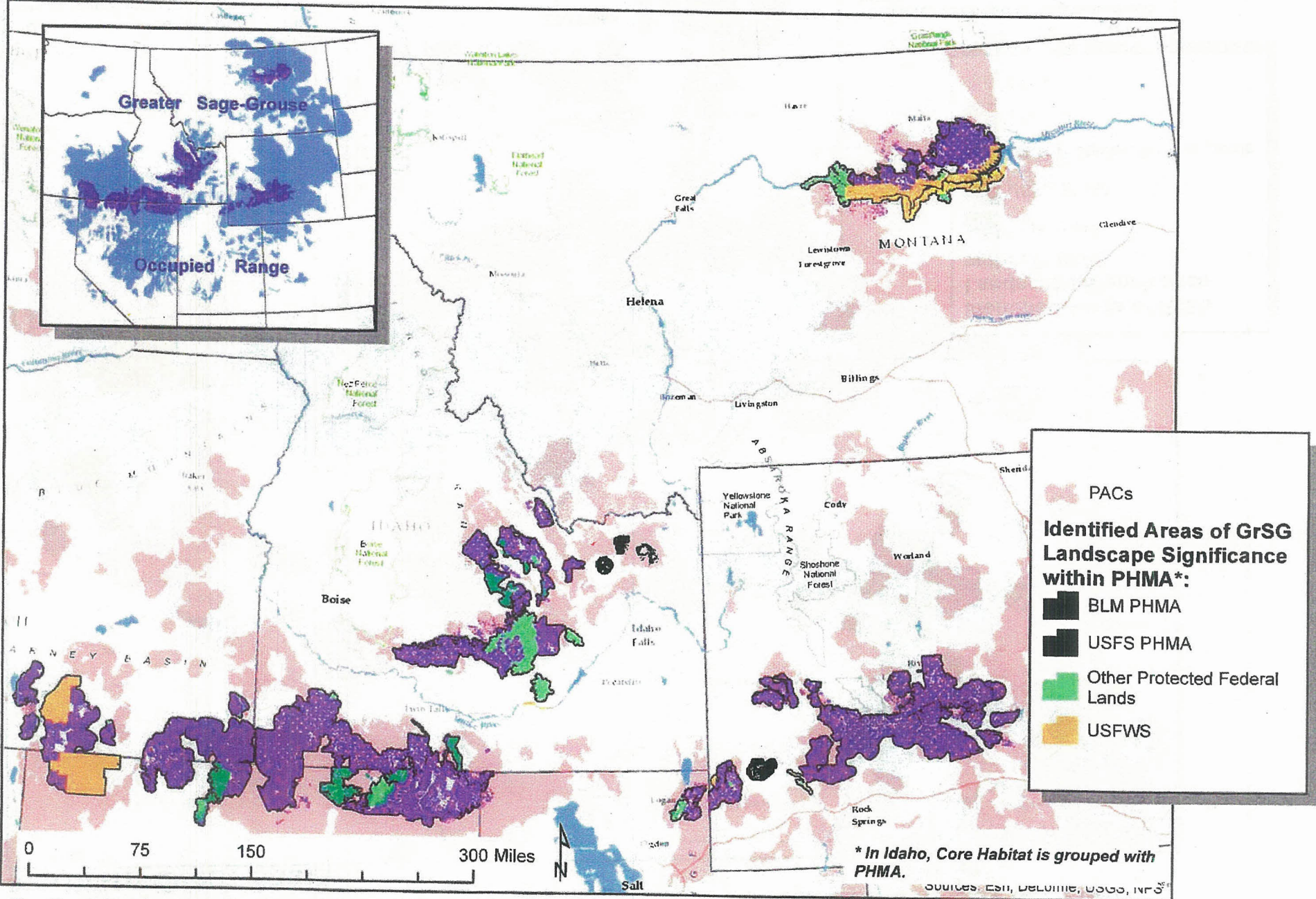
# Identified Areas of GrSG Landscape Significance within BLM/USFS PHMA: Northern Great Basin



Pre-Decisional; For Internal Review Purposes Only. Do Not Distribute.  
 PHMA current as of October, 2014.



# Identified Areas of GrSG Landscape Significance within BLM/USFS PHMA: Rangewide



Pre-Decisional; For Internal Review Purposes Only. Do Not Distribute.  
PHMA current as of October, 2014.

**Brent Ralston**

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**From:** Bockting, Kelly  
**Sent:** Wednesday, November 13, 2013 5:30 PM  
**To:** Makela, Paul  
**Cc:** Brent Ralston; Donald Major  
**Subject:** Re: Habitat mapping and MT GSG Plan

Thanks Paul,

The wording for mid-scale mapping you referenced above is somewhat the approach taken for the Core habitat map. Producing a relatively simple but widely applicable map. For the core habitat map we used various habitat parameters/information/telemetry data that was available to refine habitat that was modeled and supports the greatest sage-grouse abundance or are important for maintaining sage-grouse distribution. The end product included 56% of the state's sage-grouse leks and 71% of displaying males based on average male for the past 10 years. This is what we consider as our mid-scale mapping effort.

Interestingly enough on pg 86 under the Fine scale mapping they list the same categories you listed above in bold, and we have looked at these more closely at the fine scale during our watershed assessments. During our watershed assessments, at the finer scale, we identify the areas that may be in need of restoration due to conifer expansion or previous manipulation. However we have not put that together as a "key" habitat map field office wide.

This may help clarify the confusion on the call last week, if you have any questions let me know.  
kb

On Fri, Nov 8, 2013 at 11:41 AM, Makela, Paul <[pmakela@blm.gov](mailto:pmakela@blm.gov)> wrote:  
Kelly/Brent

There seemed to be some confusion on the call yesterday about "key" habitat mapping in MT. I mentioned the MT SG Plan had something about it. Below is an excerpt from Page 84 (Plan is attached) , that talks about mid scale mapping (see bold text for the categories). It does not use the term key habitat, and takes a little different approach, but the concept of midscale mapping is analogous to what Idaho did. Whether MT did or does this mapping currently or not, Kelly can elaborate on. I just wanted to forward this on so you know where my comment came from. Thanks.

Paul

Page 84  
Mid-Scale Mapping

Except for a few areas, accurate vegetation data to delineate existing and potential habitats at the sub-basin scale for sagebrush steppe are lacking. Until refined vegetation mapping data are available to discern important vegetation community differences, e.g., sagebrush canopy cover classes or density of sagebrush, reliance on more qualitative information for sub-basin planning needs is necessary.

At the mid-scale, land managers should develop a habitat planning map. The general purpose of this map will be to produce a relatively simple but widely applicable mid-scale map showing general habitat conditions within the ecoregion. Historical and current sage grouse distribution and other habitat and population information can be used to define the extent of habitat areas.

A sage grouse habitat planning map delineated at the mid-scale level should serve the following purposes:

- f* Assist land managers to quickly identify areas where sage grouse will be a primary concern, and those areas where sage grouse will not be an issue.
- f* Generally outline areas in need of restoration or improvement with respect to sage grouse habitat quality.
- f* Serve as a tool for planning and prioritizing fire suppression, fuels management, and prescription activities on public and private lands.
- f* Graphically portray the degree of sage grouse habitat fragmentation on the landscape.
- f* Provide mid-scale information at the statewide level on habitat conditions by merging ecoregion maps.
- f* Serve as an educational tool for explaining current sage grouse habitat conditions to resource users, cooperators, and interested parties.

Delineations that will be useful for conservation planning and mid-scale assessments include:

*f*Source habitats - areas identified as places where sage grouse populations are increasing or stable.

***f*Scarce habitats - areas that are limiting and are a priority for maintenance and restoration.**

***f*Annual grasslands - areas dominated by annual or domestic grasses.**

***f*Conifer encroachment areas - sagebrush or perennial grasslands with conifer encroaching into areas historically present as sage-grassland.**

***f*Developed habitats - areas where vegetation manipulation or other activities have fragmented, degraded, or removed habitat.**

***f*Habitats at risk - areas with a reasonable, foreseeable development potential, e.g., conversion to cropland.**

--  
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Marsha,

At the recent Boise District RAC a question came up pertaining to the mapping of GRSG and work the BLM/FS are currently engaging in. There was a concern regarding these efforts and the public comment timeframe for the Draft EIS.

The Draft EIS identifies 5 action alternatives, each with a specific description of management areas for program activities. The co-preferred alternatives identify these areas as: Alt D – Priority (PPMA), Medial (PMMA) and General (PGMA); Alt E – Core (CHZ), Important (IHZ) and General (GHZ).

The BLM and FS are reviewing these designations and their outer boundaries to maintain the integrity of the areas while at the same time refining boundaries to reflect a distinguishable management boundary. This boundary refinement is not aimed at substantially modifying areas included or excluded within a particular management area, rather its goal is to maintain the integrity and intent of the identified area while providing clear demarcation along boundaries to aid in management decisions during implementation.

The difference between the alternatives with regard to mapping gives a thorough picture of the broad scale differences in mapping approaches between alternatives. It identifies areas that would be managed differently under the various alternatives. These broad differences should be the focus of mapping comments and concerns. Comments from the RAC or the broader public can identify concerns amongst the alternatives in regards to the mapping approaches described in the various alternatives. Any minor boundary refinements to aid in management implementation and administration do not reflect new information for purposes of public comment and any adjustments contained within the range of alternatives described in the Draft EIS.

The Idaho Key Sage-Grouse Habitat Map is a foundational part of habitat and management mapping described in the alternatives. We also discussed at the RAC meeting adjustments to application of management actions in non-habitat areas included within management areas. These exclusions or exceptions have been described during the Key Habitat mapping update. The BLM and FS will be describing this piece of the Key Habitat Map implementation process in more detail in the Final EIS to provide clarity even though the management mapping decisions are independent of that process. The exclusions and exceptions to greater sage-grouse habitat that are considered during Key habitat map updates include:

**Non-habitat Areas:**

1. Municipal boundaries.
2. Major federal highways
  - a. Interstates.
  - b. US highways.
3. OHV play areas
4. Deep canyons. Most major canyons (Owyhee, Bruneau, Jarbidge, Salmon Falls) appear to already be reflected as non-habitat in the 2012 Key habitat map.
5. Water bodies.

- a. Lakes
  - b. Reservoirs
6. Farmland that overlaps Key, R1, R2 or R3.

The information pertinent to the decision being proposed in the Draft EIS are described in the current alternatives and mapping comments should be based on those differences between the alternatives. I hope that answers the question posed by the RAC. If there is further clarification needed please let me know. Jessica Gardetto is planning on addressing the RAC at their upcoming meeting on the 28<sup>th</sup> to provide an update on the public meetings and are current status.

Thanks!

#		FWS-identified Threat & Protections	BLM/USFS Decision on	Proposed Categories (by alternative)	9 Plan	Bighorn	Buffalo	Forest Service	Idaho
II	3	Priority Habitat	PH	PPH	PPH	Core (PPH) Key Area	Core (PPH)	PPH	PPH
II	4	General Habitat	GH	PGH	PGH	PGH	PGH	PGH	PGH
II		Other designated core/priority	Other Habitat designation for	Other designated habitat (linkage)	No Seasonal		Connectivity		Core Habitat,
III	3	Wilderness	Non-WSA Lands w Wilderness	Wilderness Study Areas Lands with Wilderness Characteristics, Inventoried	No	Citizen Prop. LWC	NA LWC	n/a Inventoried Roadless Areas	LWC
III	5	ACECs	Areas of Critical Environmental	Existing ACECs Proposed ACECs Existing ACEC expansion areas	No Yes	Existing ACECs Proposed	NA	Zoological Areas GRSG Zool.	Existing ACECs Proposed
IV	3 A	Infrastructure (Power Lines,	Rights-of-Way Avoid. & Excl.	ROW Avoidance Areas ROW Exclusion Areas Open to ROW	Avoidance Exclusion Open to ROW	Avoidance Exclusion	Avoidance Exclusion	Above ground Above ground Open to dev.-	Avoidance Exclusion Areas
IV	3 A	Infrastructure (Power Lines,	ROW Desig. Corridors & Comm	Existing ROW Corridor Proposed ROW Corridor Communication Site	Yes, but No No No	ROW Corridor Above Ground	NA Proposed Major Comm sites ROW exclusion	In Forest In Forest Forest Plans No attribute -	Existing ROW Comm Sites Existing other
IV	3 D	Infrastructure (Roads)	Trails & Travel Management	Open Closed Limited to Designated Limited to Existing Limited Seasonally		Open Closed L - Designated L - Existing L - Seasonally			Open Closed Limited (non- L - Seasonally
IV	7 A	Grazing (Domestic Livestock)	Livestock Grazing	Open to Grazing Closed/unavailable to Grazing				RMU Active or RMU Closed	Open Closed
IV	7 B	Grazing (Wild Horses & Burros)	Wild Horse & Burros	HMA		HMA			HMA
IV	8 A	Energy (Nonrenewable; O&G)	Oil & Gas Leasing	Open - Standard Lease Stips Open - Moderate Constraints Open - Major Constraints Closed	Open - Stnd Open - Mod Open - Major Closed			Open - Stnd Open - CSU TL Open - NSO Closed	Open - Stnd Open - CSU, TL Open - NSO Closed

IV	8 A	Energy (Nonrenewable; Coal)	Coal Leasing	Suitable	Suitable		Exploration		
				Unsuitable					
				Withdrawn					
							Development		
IV	8 B	Mining (Loc. Mining Claims,	Locatable Minerals	Existing Withdrawals		Existing		Existing	Existing
				Proposed	Proposed	Proposed		Proposed	Mining Claims
				Open	Open	Expired/Propose		Open to Mineral	Open to Mineral
IV	8 B	Mining (Loc. Mining Claims,	Salable - Mineral Materials	Closed - Mineral Materials	Closed	Closed		Uncertain - is	Closed
				Open - Mineral Materials	Open			Uncertain - is	Open
									Open w Tls;
IV	8 B	Mining (Loc. Mining Claims,	Phosphate Leasing	Closed to Phosphate Leasing	Closed			No FS definition	Closed to
				Open to Phosphate Leasing	Open			No FS definition	Open to
									Open, NSO,
IV	8 C	Energy (Renewable – Wind)	Wind Energy Dev. Avoid. & Excl.	Avoidance	Avoidance	ROW Avoid.			Avoidance
				Exclusion	Exclusion	ROW Exclusion			Exclusion
			*duplicate ROW data if needed	Open	Open				
IV	8 C	Energy (Renewable – Solar)	Solar Energy Constraints	Avoidance	Yes, if the same				
				Exclusion	Yes, if the same				
				Open	Yes, if the same				
IV	8 D	Energy (Renewable –	Geothermal Energy Constraints	Open				Open - Std	Leases
				Open - Moderate Constraints				Open - CSU TL	Open CSU, TL
				Open - Major Constraints				Open - NSO	Open NSO
				Closed				Not Available	Closed
		Other	Recreation Management Areas	Spec. Rec Mgmt Area or Rec Zone		SRMA		RecSitePoint	SRMA
			DROP?	Rec Mangement Zone		RMZ		N/A	
				Extensive Rec Mgmt Areas		ERMA		N/A	
		Other	Land Tenure	Lands ID'd for disposal		Identified by			Disposal
				Lands ID'd for acquisition					Acquisition
				Lands ID'd for retention					Retention

Lander	Lewis-town	North Dakota	NV/CA	NW CO	Oregon	Utah
PPH	PPH	PPH	PPH	PPH	PPH	PPH
PGH	PGH	PGH	PGH	PGH	PGH	PGH
Linkage Areas				Link/Conn	Focal Areas	SG Mgmt
Other Important						
Citizen Prop.						No
LWC						LWC
Existing ACECs	Existing ACECs	Existing ACECs	Existing ACECs	Existing ACECs	Existing ACECs	Existing
Proposed	GRSG ACEC	GRSG ACEC	Proposed	Proposed	Proposed	Proposed
Avoidance	Avoidance Area	Avoidance Area	Avoidance	Avoidance	Avoidance Areas	Avoidance
Exclusion Areas	Exclusion Area	Exclusion Area	Exclusion	Exclusion	Exclusion Areas	Exclusion
Open to ROW	Open	Open			Open to ROW	BLM lands
Existing ROW				Existing	Existing ROW	yes, above
Proposed/Desig						yes, above
Communication						above
Communication						above
Open			Open		Open	Open
Closed			Closed	Closed	Closed	Closed
L - Designated			Limited to	L-Designated	L- Designated	Limited
L - Existing	L - Existing	L - Existing		L-Existing	L- Existing	
L - Seasonally					L - Seasonally	
Open	Open to Grazing	Open to Grazing	Open	Open	Open to Grazing	Open
Closed	Closed to		Closed to	Closed	Closed	Closed
Unavailable to					Unavailable	
HMA				Open to grazing	Open to Grazing	HMA
				Closed		
Open - Stnd		Open - Stnd	Open		Open - Stnd	Open - Stnd
Open - Mod		CSU, TL			Open - CSU	Open - CSU
Open - Major		NSO	Open - NSO	Open w/ NSO	Open - NSO	Open - NSO
Closed		Closed	Closed	Closed	Closed	Closed



Suitable	Suitable	Suitable		Suitable		Suitable
Unsuitable	Unsuitable	Unsuitable		Unsuitable		Unsuitable
Withdrawn						
Other?						remainder of
Existing			Closed to	Existing	Existing	Existing
Proposed	Proposed	Proposed	Closed to	Recommend	Proposed	Proposed
Open to Mineral	Open	Open	Open to the		Open to Mineral	remainder of
					Open in	
Closed	Closed to	Closed to	Closed	Closed	Closed to	Closed
Open to Mineral	Open to Mineral	Open to Mineral	Open		Open to Mineral	
Closed			Closed to			non-energy
Open			Open to			remainder of
			N/A			
Avoidance	Avoidance Area	Avoidance Area	ROW Avoid.	ROW avoid.	Avoidance Areas	Avoidance
Exclusion Areas	Exclusion Area	Exclusion Area	ROW Exclusion	ROW exclusion	Exclusion Areas	Exclusion
Open to Wind	Open	Open	N/A	Open to ROW	Open	remainder of
Avoidance	Avoidance Area	Avoidance Area	ROW Avoid	ROW Avoid	Avoidance Areas	
Exclusion Areas	Exclusion Area	Exclusion Area	ROW Exclusion	ROW Exclusion	Exclusion Areas	
Open to Solar	Open	Open		Open	Open	
Open - Stnd	Open to	Open to	Open		Open to	see fluid
Open - Mod	Open to	Open to			CSU	see fluid
Open Major			Open - NSO	Open - NSO	NSO	see fluid
Closed			Closed	Closed	Closed	see fluid
SRMA					Special Rec	No
RMZ					Extensive Rec	No
ERMA					Recreation and	No
Disposal	Disposal	Disposal	Disposal	None specifically	Land Tenure	Disposal
Acquisition			N/A	Acquisition	Land Tenure	maybe have
Retention	Retention	Retention	Retention	Retention	Land Tenure	maybe have

**Brent Ralston**

---

**From:** Wuenschel, Amarina E -FS  
**Sent:** Tuesday, October 07, 2014 3:16 PM  
**To:** mpellant@blm.gov; cgoodell@blm.gov  
**Cc:** Bobo, Matthew; Havlina, Douglas; Pence, Dusty L -FS; Emerson, Greg -FS; Rickert, Ian -FS; Tucker, James P -FS; Vanessa Stepanek; Adamski, Joseph; Andrew Johnson; Bradley Washa; Bridget Clayton; cmccarth01@gmail.com; Crane, Mace; David Repass; Dawn M Davis; Earl (Tom) Rinkes; Erin Jones; Frank Quamen; Gina Ramos; Glen Burkhardt; GToevs@blm.gov; Herren, Vicki; Ielmini, Michael -FS; Jason Pyron; Jay Kerby; Chambers, Jeanne -FS; Maestas, Jeremy - NRCS, Redmond, OR; Johanna Munson; jccarlso@blm.gov; John Wilson; Jolie Pollet; Karen Prentice; Katie Powell; Kenneth Collum; Kit Muller; Krista Gollnick; Lauren Mermejo; Kurth, Laurie -FS; Leao, Duncan S -FS; Louis Brueggeman; Major, Donald; Melvin Tague; Metzger, Timothy J -FS; Nyman, Mesia -FS; Pamela Murdock; Peter Gower; Quincy Bahr; Ralston, Brent E; sharphay@att.net; Rex McKnight; Sandra Gregory; Stephen Small; Suther, Joan M; tburcsu; Tom Rinkes; William Brown  
**Subject:** RE: Today's FIAT info call: Agenda, bridgeline, and livemeeting info  
**Attachments:** PACs and pops.docx

Hi all,

In case you're wondering, the PAC layer that I used came from the NOC (see description below and attached map). This should be what is available on the sharepoint site.

Mina

----- Forwarded message -----

**From:** Rinkes, Earl (Tom) <[erinkes@blm.gov](mailto:erinkes@blm.gov)>  
**Date:** Mon, Mar 17, 2014 at 3:55 PM  
**Subject:** COT Sage-Grouse Populations within PACs data  
**To:** Frank Quamen <[fquamen@blm.gov](mailto:fquamen@blm.gov)>  
**Cc:** Amarina Wuenschel <[awuenschel@thegreatbasininstitute.org](mailto:awuenschel@thegreatbasininstitute.org)>

Frank,

The Fire and Invasives team is in need of a data set that you developed for me for the HAF document. I have attached a copy of the figure that you developed. Mina will need to modify these data sets (sage-grouse populations within PACs) for Management Zones III, IV, and V.

Please send the shapefiles or coverages directly to Mina.

Please give me a call with any questions.

Tom

--

Tom Rinkes

208-591-0863 (c)

--

Frank Quamen, Wildlife Biologist

BLM National Operations Center

Denver Federal Center Building 50

303-236-6310

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Amarina (Mina) Wuenschel  
Geospatial Data Specialist  
Great Basin Landscape Conservation Cooperative

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**Amarina Wuenschel**  
**Ecologist (Presidential Management Fellow)**  
**Forest Service**  
**Rocky Mountain Region**

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Golden, CO 80401  
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Caring for the land and serving people

**From:** Pellant, Michael [mailto:mpellant@blm.gov]

**Sent:** Tuesday, October 07, 2014 2:31 PM

**To:** cgoodell@blm.gov

**Cc:** Bobo, Matthew; Havlina, Douglas; Pence, Dusty L -FS; Emerson, Greg -FS; Rickert, Ian -FS; Tucker, James P -FS; Vanessa Stepanek; Adamski, Joseph; Andrew Johnson; Bradley Washa; Bridget Clayton; cmccarth01@gmail.com; Crane, Mace; David Repass; Dawn M Davis; Earl (Tom) Rinkes; Erin Jones; Frank Quamen; Gina Ramos; Glen Burkhardt; GToevs@blm.gov; Herren, Vicki; Ielmini, Michael -FS; Jason Pyron; Jay Kerby; Chambers, Jeanne -FS; Maestas, Jeremy - NRCS, Redmond, OR; Johanna Munson; jccarlso@blm.gov; John Wilson; Jolie Pollet; Karen Prentice; Katie Powell; Kenneth Collum; Kit Muller; Krista Gollnick; Lauren Mermejo; Kurth, Laurie -FS; Leao, Duncan S -FS; Louis Brueggeman; Major, Donald; Melvin Tague; Metzger, Timothy J -FS; Nyman, Mesia -FS; Pamela Murdock; Peter Gower; Quincy Bahr; Ralston, Brent E; sharphay@att.net; Rex McKnight; Sandra Gregory; Stephen Small; Suther, Joan M; tburcsu; Tom Rinkes; William Brown; Wuenschel, Amarina E -FS

**Subject:** Re: Today's FIAT info call: Agenda, bridgeline, and livemeeting info

**Doug:** Isn't the PAC layer that Mina did posted on the Sharepoint?

On Tue, Oct 7, 2014 at 2:30 PM, Goodell, Craig <[cgoodell@blm.gov](mailto:cgoodell@blm.gov)> wrote:

I believe it would be best for one person to send the final PAC boundary file that was used in FIAT Step1 to Matt so that we have a consistent base layer to buffer off of.

Since we are looking at modeled fire threat and suppression difficulty, we want the buffer to be large enough to capture fires that would/could threaten the PACs. I am thinking somewhere around 20K to 30K based on our fire behavior over the past several years.

My 2 cents worth....

Craig Goodell

Fire Ecologist

Fire, Fuels & Aviation Mgmt.

BLM OR & WA/ USFS R6 & R10

1220 SW 3rd Ave., Suite 1500

Portland, Oregon 97204

Desk: 503-808-6595

Cell: 503-407-7658

Email: [cgoodell@blm.gov](mailto:cgoodell@blm.gov)

On Tue, Oct 7, 2014 at 1:18 PM, Bobo, Matthew <[mbobo@blm.gov](mailto:mbobo@blm.gov)> wrote:

Hello everyone. In the interest of making sure I have the proper boundaries that each assessment team is using, can you please send me your final PAC boundary file? Since we will be clipping the data out of large national datasets I want to make sure I get this correct.



Also, what size buffer would people be comfortable using around the PACs for the data extraction?

**Matthew Bobo**  
**Geospatial Section Chief (OC-534)**

Bureau of Land Management  
National Operations Center  
Denver Federal Center, Bldg 50  
Denver, CO 80225  
Phone: 303-236-0721  
Email: [mbobo@blm.gov](mailto:mbobo@blm.gov)

On Tue, Oct 7, 2014 at 8:47 AM, Havlina, Douglas <[dhavlina@blm.gov](mailto:dhavlina@blm.gov)> wrote:  
Hello all:

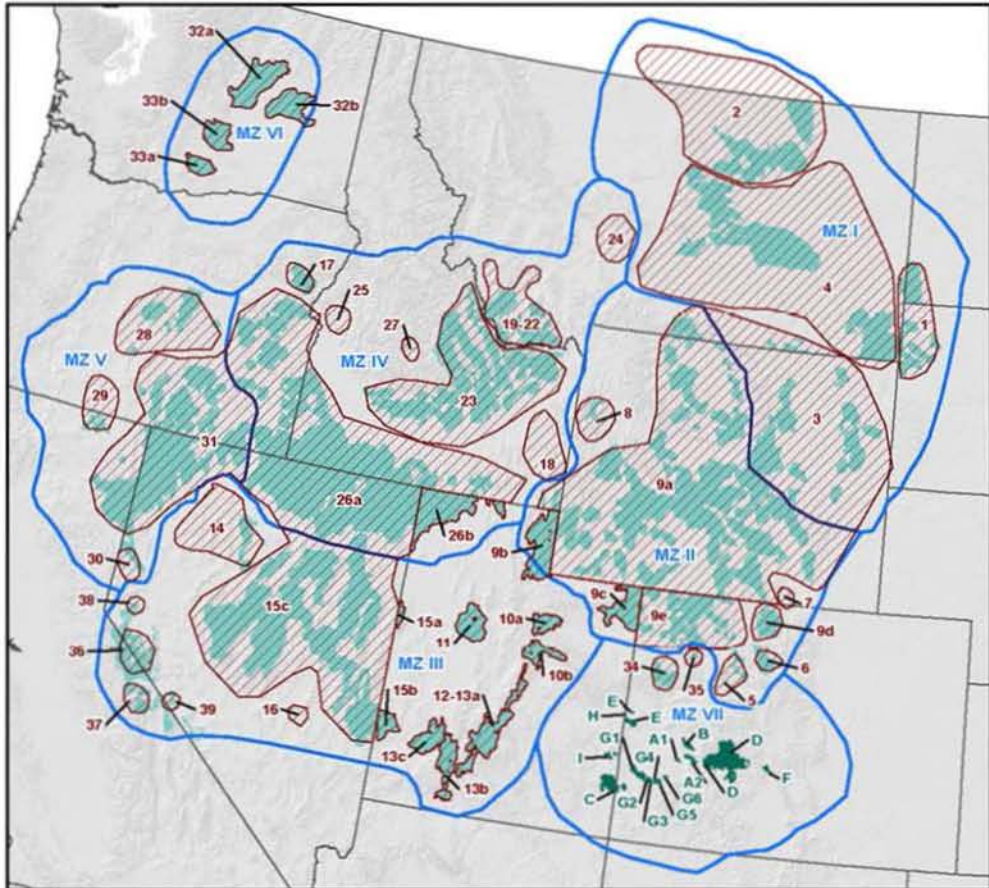
Attached is an agenda for today's call from 1300-1400 mountain. Note that the call and webex info is embedded at the top of the page.

Thanks, Doug

--

Mike Pellant  
Great Basin Ecologist  
1387 S. Vinnell Way, Boise, ID 83709  
208-373-3823, [mpellant@blm.gov](mailto:mpellant@blm.gov)  
[http://www.blm.gov/id/st/en/environmental\\_education/science-research/gbri.html](http://www.blm.gov/id/st/en/environmental_education/science-research/gbri.html)

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**WAFWA Sage-Grouse Management Zones, COT Sage-Grouse Populations/Priority Areas for Conservation, and Gunnison Sage-Grouse Occupied Habitat**

**LEGEND**

WAFWA Sage-grouse Management Zones

Greater Sage-grouse Priority Areas for Conservation (PAC)

COT Revised Greater Sage-Grouse Populations

1	Dakota	9c	Urrah	15a	Itapah	25	Weiser ID	33a	Yakima Indian Nation
2	Notrem Montana	9d	North Park	15b	Hamlin Valley	26a	Northern Great Basin	33b	Yakima Training Center
3	Powder River	9e	NW Colorado	15c	Southern Great Basin	26b	Box Elder	34	Parachute Poudre Roan
4	Yellowstone watershed	10a	Strawberry	16	Gunn Canyon Range NV	27	Sawtooth ID	35	Mesler - White River
5	Eagle's Roar CO	10b	Carbon	17	Baker CR	28	Central CR	36	N. Moho Lake CA/NV
6	Middle Park CO	11	Sheeprock Mountains	18	E-Central ID	29	Klamath OR/CA	37	S. Moho Lake CA
7	Laramie WY	12-13a	Parker Mountain-Emery	19-22	SW Montana	30	Warm Springs Valley NV	38	Pine Nut NV
8	Jackson Hole WY	13b	Pangutch	23	Snake, Salmon, and Beaverhead	31	Western Great Basin	39	White Mountains NV/CA
9a	Wyoming Basin	13c	Bald Hills	24	Big Mountains MT	32a	Moses Coulee		
9b	Rich-Morgan Summit	14	Tri-Interior NV			32b	Crab Creek		

Gunnison Sage-grouse Occupied Habitat, Populations and Subpopulations

A	Cimarron/Cerro Sima Mesa	C	Dove Creek/Morbecito	G	San Miguel Basin
A1	Sima Mesa	D	Gunnison	G1	Dry Creek Basin
A2	Cimarron/Cerro Summit	E	Pinon Mesa	G2	Hamilton Mesa
B	Crawford	F	Pincha Pass	G3	Marianville Reservoir
				G4	Gurley Reservoir
				G5	Beaver Mesa
				G6	Iron Springs
				H	Fish Park
				I	La Sal



Data Sources:  
 MZ - WAFWA Sage-grouse PACs and Populations - USFWS, COT Report, Feb. 2012, GUSIG Occupied Habitat - CDDOW 2004

Bureau of Land Management, Wildlife Habitat Spatial Analysis Lab, 4/15/2011, 1:00 PM. File: WAFWA\_Sage-Grouse\_PACs\_COT\_Report\_Feb2012\_PAC\_COT\_Sites.mxd. Author: Laura Johnson, Anthony Tabor, & Frank Quisenberry

**Brent Ralston**

---

**From:** Carlson, John  
**Sent:** Wednesday, October 08, 2014 7:39 PM  
**To:** Johnson, Andrew  
**Cc:** Bobo, Matthew; Pellant, Michael; Goodell, Craig; Havlina, Douglas; dlpenca; gemerson@fs.fed.us; irickert; jptucker; Vanessa Stepanek; Adamski, Joseph; Bradley Washa; Bridget Clayton; Clinton McCarthy; Crane, Mace; David Repass; Dawn M Davis; Earl (Tom) Rinkes; Erin Jones; Frank Quamen; Gina Ramos; Glen Burkhardt; Gordon Toevs; Herren, Vicki; Ielmini, Michael -FS; Jason Pyron; Jay Kerby; Jeanne Chambers; Jeremy Maestas; Johanna Munson; John Wilson; Jolie Pollet; Karen Prentice; Katie Powell; Kenneth Collum; Kit Muller; Krista Gollnick; Lauren Mermejo; Laurie -FS Kurth; Leao, Duncan S -FS; Louis Brueggeman; Major, Donald; Melvin Tague; Metzger, Timothy J -FS; Nyman, Mesia -FS; Pamela Murdock; Peter Gower; Quincy Bahr; Ralston, Brent E; Randall Sharp; Rex McKnight; Sandra Gregory; Stephen Small; Suther, Joan M; tburcsu; Tom Rinkes; William Brown; Wuenschel, Amarina E -FS  
**Subject:** Re: Today's FIAT info call: Agenda, bridgeline, and livemeeting info

Andrew and all,  
The new and old PAC boundaries appear to have the PAC in Western Montana included. This PAC was not one of the priorities for assessment.

John C. Carlson  
Conservation Biologist  
Bureau of Land Management  
Montana/Dakotas State Office  
5001 Southgate Drive  
Billings, MT 59101-4669  
(406) 896-5024

On Wed, Oct 8, 2014 at 5:01 PM, Johnson, Andrew <[acjohnson@blm.gov](mailto:acjohnson@blm.gov)> wrote:

All,  
I went through the PAC layer on the sharepoint and made an effort to clean up some edge matching issues and what looked to be geoprocessing fragments/remnants \*\*The Norther Great Basin and Snake, Salmon, Beaverhead have a few remaining areas that looked questionable, but since I am not familiar enough with the landscape I left them alone\*\*. I also removed the non-Priority PACs. This layer is not perfect but it is an improvement.

In my opinion a 5 mile buffer would suffice, it is enough area to take into account any adjacent leks for connectivity and show edge effects.

**Look over your regions and let me know if you see anything that doesn't look right.**

Attached is the shapefile and 2 PDFs 17" x 22" that you should be able to zoom into and look closely at your PACs.

Below are the acreage changes:

PAC_Name	Acres	NewAcre	Ac_Diff ( New Acres - Acres)
Box Elder	1,519,453.6	1,519,760.9	307.3
Central OR	813,699.3	813,699.3	0.0
Hamlin Valley	341,269.6	340,899.7	-369.9
Northern Great Basin	13,045,515.4	13,062,239.7	16,724.3
Northern Great Basin/Western Great Basin	1,065,124.0	1,065,979.5	855.4
Snake, Salmon, and Beaverhead	5,477,013.7	5,477,106.2	92.5
Southern Great Basin	9,461,354.8	9,461,354.8	0.0
Warm Springs Valley NV/Western Great Basin	3,521,593.5	3,521,258.7	-334.8
Western Great Basin	3,177,253.0	3,176,064.4	-1,188.5

Andrew

Andrew C Johnson  
 Biological Field Technician  
 Eagle Lake Field Office  
 Bureau of Land Management  
 Susanville, CA

Email: [acjohnson@blm.gov](mailto:acjohnson@blm.gov)  
 Office Phone: (530) 252-5313

On Wed, Oct 8, 2014 at 7:03 AM, Bobo, Matthew <[mbobo@blm.gov](mailto:mbobo@blm.gov)> wrote:  
 Thanks mike. This is exactly why I want a list from each group.

On Tuesday, October 7, 2014, Pellant, Michael <[mpellant@blm.gov](mailto:mpellant@blm.gov)> wrote:  
**Matt: The Baker PAC should not be included. It is not in FIAT as a priority PAC. It showed up on the PAC map in the FIAT IM and it should not have been included in that map.**

On Tue, Oct 7, 2014 at 2:42 PM, Bobo, Matthew <[mbobo@blm.gov](mailto:mbobo@blm.gov)> wrote:  
 I have a PAC shapefile associated with Step 1 however the actual PACs that each assessment is including appears to be greater than the actual name represents. For instance, the Central OR Assessment appears to also include Central OR and Baker PACs. So if you want, please sent the list of PACs associated with each assessment.

**Matthew Bobo**  
**Geospatial Section Chief (OC-534)**

Bureau of Land Management  
 National Operations Center



Denver Federal Center, Bldg 50  
Denver, CO 80225  
Phone: 303-236-0721  
Email: mbobo@blm.gov

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My 2 cents worth....

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Fire Ecologist  
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[http://www.blm.gov/id/st/en/environmental\\_education/science-research/gbri.html](http://www.blm.gov/id/st/en/environmental_education/science-research/gbri.html)

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**Matthew Bobo**

Geospatial Section Chief (OC-534)

Bureau of Land Management

National Operations Center

Denver Federal Center, Bldg 50

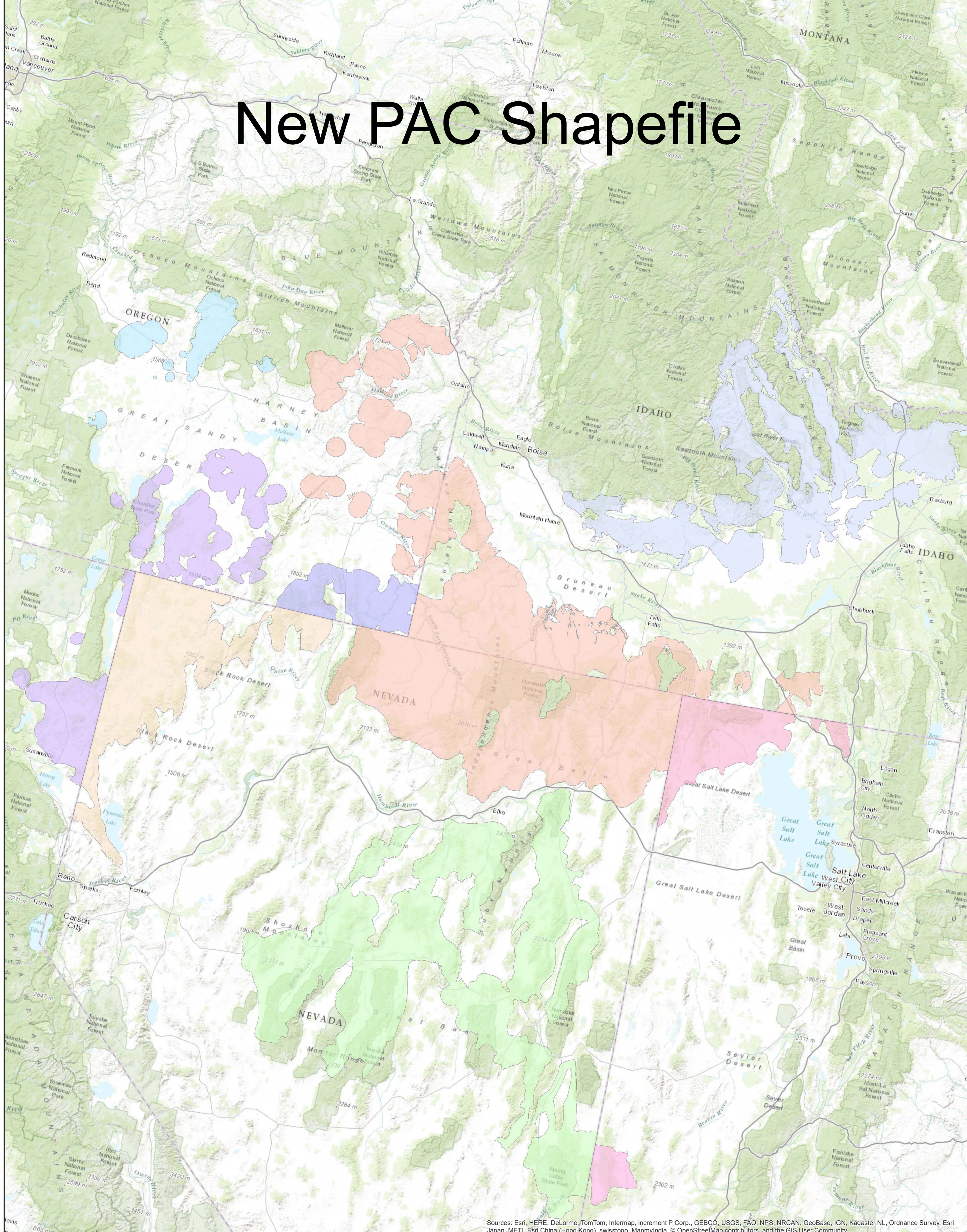
Denver, CO 80225

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Email: [mbobo@blm.gov](mailto:mbobo@blm.gov)



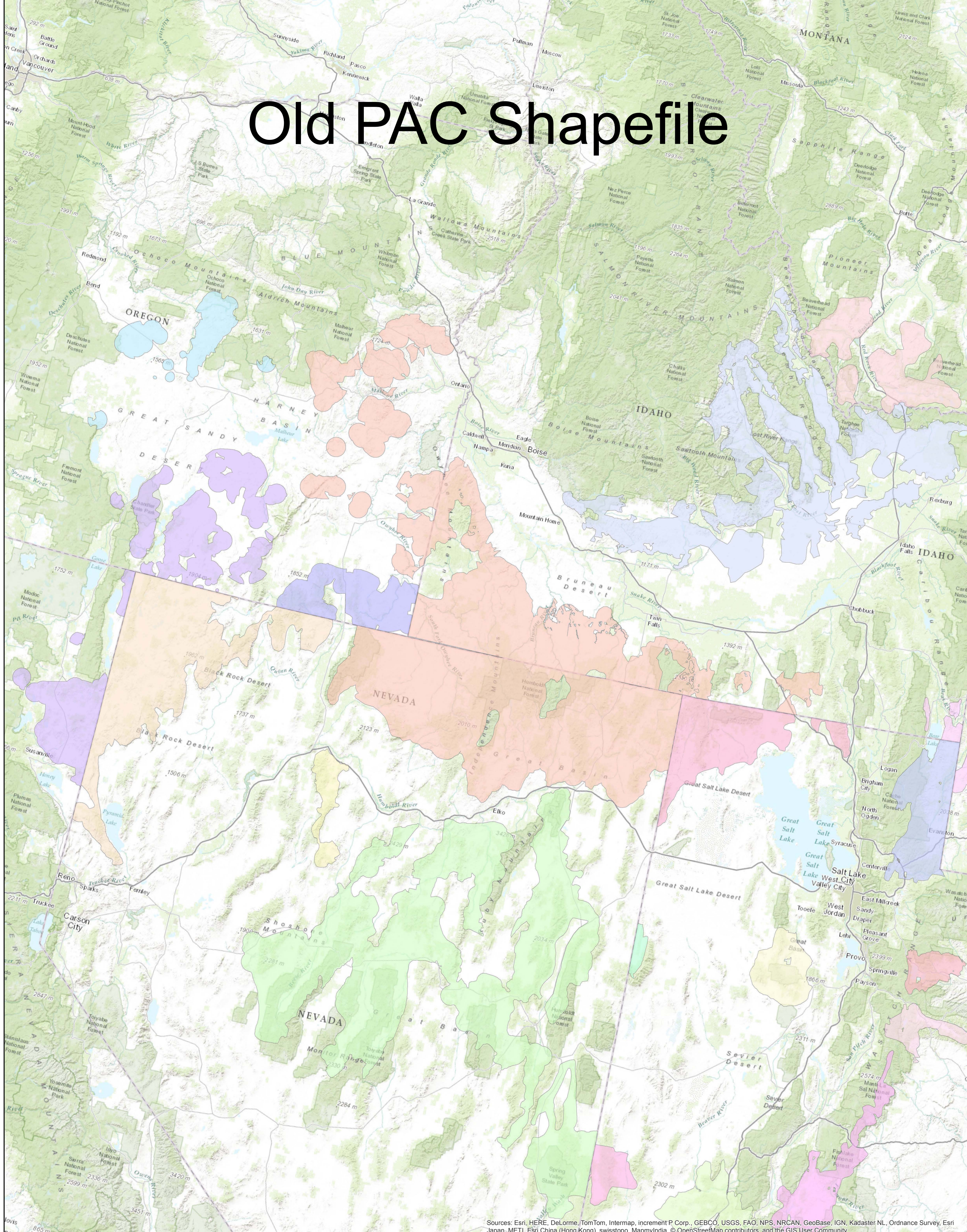
# New PAC Shapefile



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



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5/20/2014 Acre Calculateion for Conservation Areas, Alt G2 Habitat, SMA

ConservationAreas IDENTITY G2 = ConservationAreas\_Identity\_AltG2\_20140520

ConservationAreas\_Identity\_AltG2\_20140520 Identity SMA = ConservationAreas\_Identity\_AltG2\_Ident

Add GIS acres, use calculate Geometry to get area of polygon overlay, export to text, and import to this  
In this Excel, add field to help with combinig SMA - eg group BLM and LU\_DOI, group USFS and LU\_USD,

Other Federal = Other, BOR, Mil, NPS, DOE, NWR

ity\_SMA\_20140520

Excel

A, group all other that has PVT, other federal etc

Discrepancy notes - there are approximately 1,300 acres of G2 in USFS not analyzed. About 1000 acres (3

<b>Total Acres</b>	<b>Column Labels</b>			
<b>Row Labels</b>	<b>Core</b>	<b>Important</b>	<b>General</b>	<b>Outside Alt G</b>
<b>Idaho Desert Conservation Area</b>	<b>1,016,467</b>	<b>1,050,820</b>	<b>877,790</b>	<b>2,852,071</b>
BLM	869,927	602,557	635,813	505,282
USFS		2,519	778	
State	29,875	38,417	42,821	144,067
Private	78,880	98,627	95,218	1,662,604
Other Federal	37,784	308,616	102,829	519,598
HSTRCWTR		84	331	17,588
IR				2,931
<b>Idaho Mountain Valleys Conservation Area</b>	<b>2,111,195</b>	<b>1,616,795</b>	<b>1,433,982</b>	<b>14,115,833</b>
BLM	1,154,177	885,867	526,435	890,354
USFS	271,816	221,575	150,544	8,369,112
State	164,362	121,570	80,388	412,450
Private	422,737	362,759	663,092	2,952,612
Other Federal	98,103	24,831	11,440	88,051
HSTRCWTR		194	2,020	46,437
No SMA, GIS GIS discrepancies in layers			43	8,140
USFS Not Analyzed			19	1,348,676
<b>Idaho Southern Conservation Area</b>	<b>949,295</b>	<b>1,226,191</b>	<b>1,335,003</b>	<b>7,366,393</b>
BLM	556,347	763,968	395,495	987,095
USFS	130,687	193,220	211,972	1,637,815
State	39,065	51,705	174,810	263,345
Private	223,042	206,161	448,302	3,769,693
Other Federal	152	11,137	94,490	441,085
HSTRCWTR			637	46,049
IR			9,297	186,106
No SMA, GIS GIS discrepancies in layers	1	1	0	155
Unknown				35,050
<b>Idaho West Owyhee Conservation Area</b>	<b>2,033,413</b>	<b>608,925</b>	<b>376,748</b>	<b>675,093</b>
BLM	1,590,989	466,097	290,813	422,991
State	130,718	45,624	34,688	51,137
Private	166,371	96,566	50,608	190,221
Other Federal	12	639	639	6,207
HSTRCWTR	42			4,537
IR	145,278			
No SMA, GIS GIS discrepancies in layers	3	0	0	1
<b>SW Montana Conservation Area</b>	<b>1,356,958</b>	<b>0</b>	<b>1,667,208</b>	<b>10,019,701</b>
BLM	460,609		247,558	483,516
USFS	162,952		234,432	1,675,304
State	224,942		172,371	458,187
Private	458,957	0	1,007,963	4,097,527
Other Federal	41,409		1,965	252,369
HSTRCWTR	8,088		1,609	19,345



No SMA, GIS GIS discrepancies in layers				0
Unknown				68,679
USFS Not Analyzed			1,310	2,964,775
<b>Grand Total</b>	<b>7,467,327</b>	<b>4,502,732</b>	<b>5,690,731</b>	<b>35,029,090</b>

polys on the Beaverhead-Deerlodge)0 acres on the Beaverhead-Deerlodgethese are not "areas", but the i

**Grand Total**

**5,797,148**

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**10,876,882**

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**13,043,867**

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differences in lines, occurs on the Payette and Beaverhead-Deerlodge

OBJECTID	FID_ConservationArea_Identity_AltG2_20150520	FID_Conservation_Areas	STATE
1		1	1 Montana
2		2	2 Idaho
3		3	3 Idaho
4		4	4 Idaho
5		9	2 Idaho
6		10	2 Idaho
7		11	2 Idaho
8		12	3 Idaho
9		13	3 Idaho
10		14	3 Idaho
11		17	4 Idaho
12		1	1 Montana
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ID	Idaho Desert Conservation Area	4 General
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FID_SMA_GRS_G_EIS_20140429	SMA2	MGT_Agency	Shape_Length
	-1 No SMA, GIS GIS discrepancies in layers		63,399.36
	-1 No SMA, GIS GIS discrepancies in layers		41,641.92
	-1 No SMA, GIS GIS discrepancies in layers		373,344.72
	-1 No SMA, GIS GIS discrepancies in layers		552,800.25
	-1 No SMA, GIS GIS discrepancies in layers		195,248.83
	-1 No SMA, GIS GIS discrepancies in layers		14,573.00
	-1 No SMA, GIS GIS discrepancies in layers		3,717.68
	-1 No SMA, GIS GIS discrepancies in layers		85,911.65
	-1 No SMA, GIS GIS discrepancies in layers		63,071.51
	-1 No SMA, GIS GIS discrepancies in layers		60,676.04
	-1 No SMA, GIS GIS discrepancies in layers		11,740.66
2,929	BLM	BLM	1,550.25
2,933	BLM	BLM	1,031.09
2,934	BLM	BLM	2,566.14
2,935	BLM	BLM	1,325.04
2,936	BLM	BLM	2,187.88
2,937	BLM	BLM	653.8721124
2,949	BLM	BLM	3,325.91
2,950	BLM	BLM	63,523.97
2,951	BLM	BLM	1,221.69
3,067	BLM	BLM	6,107.54
3,095	BLM	BLM	9,287.22
3,098	BLM	BLM	4,032.05
3,119	BLM	BLM	9,585.23
3,121	BLM	BLM	73,263.64
3,131	BLM	BLM	1,890.19
3,165	BLM	BLM	4,815.58
3,167	BLM	BLM	6,445.28
3,181	BLM	BLM	1,529.56
3,203	BLM	BLM	2,390.30
3,214	BLM	BLM	27,100.23
3,219	BLM	BLM	4,057.71
3,220	BLM	BLM	6,467.22
3,233	BLM	BLM	2,416.16
3,234	BLM	BLM	29,849.52
3,251	BLM	BLM	3,020.26
3,266	BLM	BLM	3,217.14
3,273	BLM	BLM	4,827.20
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3,369 BLM	BLM	124.2852221
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3,463 BLM	BLM	2,414.56
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3,473 BLM	BLM	1,608.63
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3,477 BLM	BLM	22,887.33
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3,481 BLM	BLM	2,409.02
3,484 BLM	BLM	7,240.61
3,486 BLM	BLM	16,331.25
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3,510 BLM	BLM	497.9597518
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3,514 BLM	BLM	100.2902975



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3,581 BLM	BLM	120,503.73
3,584 BLM	BLM	7,464.25
3,589 BLM	BLM	602.1174764
3,592 BLM	BLM	3,923.53
3,595 BLM	BLM	1,618.24
3,600 BLM	BLM	16,935.41
3,605 BLM	BLM	5,815.87
3,610 BLM	BLM	1,553.76
3,612 BLM	BLM	129.7381081
3,613 BLM	BLM	3,220.34
3,621 BLM	BLM	1,612.96
3,625 BLM	BLM	3,240.34
3,651 BLM	BLM	4,867.36
3,653 BLM	BLM	270.9476862
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3,674 BLM	BLM	2,424.69
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3,685 BLM	BLM	1,811.01
3,694 BLM	BLM	4,246.86
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3,699 BLM	BLM	5,570.39
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3,712 BLM	BLM	3,987.05
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3,723 BLM	BLM	3,241.69
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3,729 BLM	BLM	4,707.04
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3,742 BLM	BLM	3,232.42

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3,785 BLM	BLM	1,600.35
3,789 BLM	BLM	902.6741368
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3,796 BLM	BLM	1,619.23
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3,799 BLM	BLM	1,593.52
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3,807 BLM	BLM	4,606.06
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3,978 BLM	BLM	2,029.72
3,979 BLM	BLM	4,864.62
3,980 BLM	BLM	9,886.14

3,981 BLM	BLM	5,306.31
3,982 BLM	BLM	2,312.36
3,983 BLM	BLM	3,241.47
3,984 BLM	BLM	2,746.00
3,985 BLM	BLM	20,503.84
3,986 BLM	BLM	7,789.33
3,987 BLM	BLM	1,369.44
3,988 BLM	BLM	4,004.29
3,989 BLM	BLM	6,112.96
3,990 BLM	BLM	149.6274418
3,991 BLM	BLM	1,627.55
3,992 BLM	BLM	13,575.05
3,993 BLM	BLM	5,746.59
3,994 BLM	BLM	17,703.03
3,995 BLM	BLM	3,236.73
3,996 BLM	BLM	3,064.38
3,997 BLM	BLM	1,608.46
3,998 BLM	BLM	8,034.79
3,999 BLM	BLM	2,412.64
4,000 BLM	BLM	88.37439627
4,001 BLM	BLM	2,400.04
4,002 BLM	BLM	4,852.05
4,003 BLM	BLM	1,220.05
4,004 BLM	BLM	68.7061639
4,005 BLM	BLM	61.62977564
4,007 BLM	BLM	216,648.30
4,008 BLM	BLM	1,609.10
4,011 BLM	BLM	1,610.23
4,012 BLM	BLM	4,825.74
4,013 BLM	BLM	26,957.84
4,014 BLM	BLM	735.8507133
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4,016 BLM	BLM	35,664.23
4,017 BLM	BLM	175.5928396
4,018 BLM	BLM	1,002.85
4,019 BLM	BLM	4,024.95
4,020 BLM	BLM	503.1110368
4,021 BLM	BLM	3,293.14
4,022 BLM	BLM	191.3136052
4,023 BLM	BLM	12,629.54
4,024 BLM	BLM	560.4617206
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4,026 BLM	BLM	119.6224875
4,027 BLM	BLM	10,866.30
4,028 BLM	BLM	3,248.14
4,029 BLM	BLM	394.9482399
4,030 BLM	BLM	5,769.89

4,031 BLM	BLM	4,866.54
4,032 BLM	BLM	3,941.43
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4,043 BLM	BLM	1,373.56
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4,047 BLM	BLM	3,229.87
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4,049 BLM	BLM	24,310.28
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4,053 BLM	BLM	2,412.71
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4,056 BLM	BLM	6,552.92
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4,059 BLM	BLM	7,238.05
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4,065 BLM	BLM	16,132.19
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4,070 BLM	BLM	7,072.38
4,071 BLM	BLM	63,235.52
4,073 BLM	BLM	3,231.70
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4,076 BLM	BLM	16,931.23
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4,078 BLM	BLM	7,495.50
4,079 BLM	BLM	8,976.35
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4,093 BLM	BLM	1,817.40
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4,106 BLM	BLM	5,704.80
4,107 BLM	BLM	1,607.52
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4,132 BLM	BLM	3,216.53

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4,139 BLM	BLM	5,698.50
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4,142 BLM	BLM	3,233.64
4,143 BLM	BLM	12,992.17
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4,150 BLM	BLM	2,413.34
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4,240 BLM	BLM	221.0514955
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4,242 BLM	BLM	2,409.91
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4,494 BLM	BLM	1,617.08
4,495 BLM	BLM	3,059.50
4,496 BLM	BLM	10,178.08
4,497 BLM	BLM	638.1533335
4,498 BLM	BLM	4,835.53
4,499 BLM	BLM	1,609.59
4,500 BLM	BLM	1,615.05
4,501 BLM	BLM	1,606.46
4,502 BLM	BLM	77,095.84
4,503 BLM	BLM	1,205.89
4,504 BLM	BLM	5,589.78
4,505 BLM	BLM	2,420.93
4,506 BLM	BLM	1,478.12
4,507 BLM	BLM	987.6838756
4,508 BLM	BLM	1,496.69

4,509 BLM	BLM	10,167.51
4,510 BLM	BLM	3,218.03
4,511 BLM	BLM	2,972.94
4,512 BLM	BLM	1,585.46
4,513 BLM	BLM	6,342.82
4,514 BLM	BLM	1,006.25
4,515 BLM	BLM	1,043.26
4,516 BLM	BLM	1,384.60
4,517 BLM	BLM	2,416.70
4,518 BLM	BLM	15,270.76
4,519 BLM	BLM	932.429336
4,520 BLM	BLM	3,906.97
4,521 BLM	BLM	1,673.78
4,522 BLM	BLM	103,554.89
4,523 BLM	BLM	11,362.78
4,524 BLM	BLM	4,821.64
4,525 BLM	BLM	2,453.50
4,526 BLM	BLM	2,046.30
4,527 BLM	BLM	1,611.40
4,528 BLM	BLM	2,019.61
4,529 BLM	BLM	5,661.41
4,530 BLM	BLM	1,540.45
4,531 BLM	BLM	343.1772102
4,532 BLM	BLM	688.100378
4,533 BLM	BLM	11,367.24
4,534 BLM	BLM	1,602.41
4,917 Other Federal	BOR	27,322.96
4,955 Other Federal	BOR	3,236.11
4,956 Other Federal	BOR	4,855.98
4,957 Other Federal	BOR	1,022.38
4,958 Other Federal	BOR	901.0473647
4,959 Other Federal	BOR	2,325.78
4,960 Other Federal	BOR	19,220.66
4,961 Other Federal	BOR	1,487.82
4,962 Other Federal	BOR	29,037.97
4,963 Other Federal	BOR	296.1506171
4,964 Other Federal	BOR	10,211.22
4,965 Other Federal	BOR	484.2190968
4,966 Other Federal	BOR	3,597.44
4,967 Other Federal	BOR	13,208.29
4,968 Other Federal	BOR	85,287.91
4,969 Other Federal	BOR	1,044.03
4,970 Other Federal	BOR	2,313.07
4,971 Other Federal	BOR	139,720.73
4,972 Other Federal	BOR	10,119.99
5,182 HSTRCWTR	HSTRCWTR	47.12017259
5,183 HSTRCWTR	HSTRCWTR	4,490.24



5,188 HSTRCWTR	HSTRCWTR	560.1837339
5,191 HSTRCWTR	HSTRCWTR	345.6611411
5,192 HSTRCWTR	HSTRCWTR	34.16847557
5,193 HSTRCWTR	HSTRCWTR	7,154.86
5,195 HSTRCWTR	HSTRCWTR	4,242.22
5,196 HSTRCWTR	HSTRCWTR	3,409.83
5,198 HSTRCWTR	HSTRCWTR	6,511.60
5,199 HSTRCWTR	HSTRCWTR	2,340.01
5,200 HSTRCWTR	HSTRCWTR	1,427.61
5,201 HSTRCWTR	HSTRCWTR	2,230.67
5,202 HSTRCWTR	HSTRCWTR	1,769.72
5,203 HSTRCWTR	HSTRCWTR	7,657.80
5,204 HSTRCWTR	HSTRCWTR	2,308.18
5,205 HSTRCWTR	HSTRCWTR	6,146.71
5,206 HSTRCWTR	HSTRCWTR	2,721.67
5,207 HSTRCWTR	HSTRCWTR	1,211.35
5,208 HSTRCWTR	HSTRCWTR	4,822.96
5,214 HSTRCWTR	HSTRCWTR	3,498.90
5,217 HSTRCWTR	HSTRCWTR	2,224.87
5,221 HSTRCWTR	HSTRCWTR	360.1491792
5,223 HSTRCWTR	HSTRCWTR	3,282.15
5,226 HSTRCWTR	HSTRCWTR	22.11172549
5,228 HSTRCWTR	HSTRCWTR	1,847.07
5,229 HSTRCWTR	HSTRCWTR	3,256.82
5,232 HSTRCWTR	HSTRCWTR	136.1637127
5,234 HSTRCWTR	HSTRCWTR	1,244.91
5,237 HSTRCWTR	HSTRCWTR	4,018.61
5,238 HSTRCWTR	HSTRCWTR	303,112.64
5,242 HSTRCWTR	HSTRCWTR	3,639.03
5,244 HSTRCWTR	HSTRCWTR	13,957.70
5,252 HSTRCWTR	HSTRCWTR	1,706.10
5,253 HSTRCWTR	HSTRCWTR	865.3588344
5,254 HSTRCWTR	HSTRCWTR	26,029.32
5,255 HSTRCWTR	HSTRCWTR	2,890.02
5,256 HSTRCWTR	HSTRCWTR	8.232665251
5,257 HSTRCWTR	HSTRCWTR	6,243.16
5,258 HSTRCWTR	HSTRCWTR	53.83230058
5,259 HSTRCWTR	HSTRCWTR	1,309.15
5,260 HSTRCWTR	HSTRCWTR	2,484.30
5,261 HSTRCWTR	HSTRCWTR	6,520.06
5,262 HSTRCWTR	HSTRCWTR	286.6917161
5,263 HSTRCWTR	HSTRCWTR	134.7829472
5,264 HSTRCWTR	HSTRCWTR	85,666.36
5,265 HSTRCWTR	HSTRCWTR	3,789.08
5,266 HSTRCWTR	HSTRCWTR	2,072.96
5,267 HSTRCWTR	HSTRCWTR	2,054.56
5,268 HSTRCWTR	HSTRCWTR	2,637.98

5,269 HSTRCWTR	HSTRCWTR	1,618.05
5,270 HSTRCWTR	HSTRCWTR	5,258.76
5,271 HSTRCWTR	HSTRCWTR	1,631.34
5,272 HSTRCWTR	HSTRCWTR	1,408.59
5,273 HSTRCWTR	HSTRCWTR	718.4080278
5,274 HSTRCWTR	HSTRCWTR	53.45073147
5,275 HSTRCWTR	HSTRCWTR	2,872.92
5,276 HSTRCWTR	HSTRCWTR	1.693954326
5,277 HSTRCWTR	HSTRCWTR	423,959.13
5,539 Other Federal	MIL	79,426.72
5,540 Other Federal	MIL	441.9681648
5,541 Other Federal	MIL	24,768.43
5,542 Other Federal	MIL	1,618.32
5,560 Other Federal	NPS	186.9255056
5,561 Other Federal	NPS	499.0534994
5,562 Other Federal	NPS	336,821.44
5,563 Other Federal	NPS	7,021.37
5,645 Other Federal	NWR	35,100.41
5,664 Other Federal	NWR	4,023.42
5,666 Other Federal	NWR	4,455.73
5,667 Other Federal	NWR	6,543.30
5,739 Other Federal	OTHER	27,452.41
5,740 Other Federal	OTHER	36,841.33
5,741 Other Federal	OTHER	12,852.43
8,269 Private	PRIVATE	464.0876868
8,289 Private	PRIVATE	154.5447824
8,292 Private	PRIVATE	51.92830771
8,299 Private	PRIVATE	591.3882253
8,302 Private	PRIVATE	119.0922559
8,307 Private	PRIVATE	327.2141122
8,321 Private	PRIVATE	289.82857
8,330 Private	PRIVATE	59.40496777
8,332 Private	PRIVATE	588.2651013
8,335 Private	PRIVATE	287.9642703
8,338 Private	PRIVATE	63.30073386
8,343 Private	PRIVATE	441.9240815
8,344 Private	PRIVATE	1,368.94
8,352 Private	PRIVATE	27.17429803
8,366 Private	PRIVATE	73.78574201
8,370 Private	PRIVATE	73.35038703
8,372 Private	PRIVATE	6,618.84
8,373 Private	PRIVATE	4,200.62
8,377 Private	PRIVATE	417.070799
8,404 Private	PRIVATE	154.0540851
8,417 Private	PRIVATE	2,641.07
8,419 Private	PRIVATE	37,188.13
8,428 Private	PRIVATE	3,450.71

8,432 Private	PRIVATE	13,402.93
8,451 Private	PRIVATE	480.764745
8,467 Private	PRIVATE	326.5697063
8,474 Private	PRIVATE	3,818.93
8,488 Private	PRIVATE	37,061.39
8,493 Private	PRIVATE	4,006.95
8,494 Private	PRIVATE	7,393.71
8,496 Private	PRIVATE	310.2789217
8,498 Private	PRIVATE	123.8107254
8,499 Private	PRIVATE	121.8776786
8,511 Private	PRIVATE	8,888.55
8,513 Private	PRIVATE	3,058.98
8,544 Private	PRIVATE	607.7958638
8,551 Private	PRIVATE	1,620.29
8,553 Private	PRIVATE	10,794.94
8,559 Private	PRIVATE	4,049.26
8,582 Private	PRIVATE	6,420.90
8,586 Private	PRIVATE	500.4880527
8,595 Private	PRIVATE	46,043.11
8,608 Private	PRIVATE	9,851.81
8,612 Private	PRIVATE	4,645.22
8,616 Private	PRIVATE	236.3337629
8,637 Private	PRIVATE	52.94502716
8,638 Private	PRIVATE	24,832.19
8,639 Private	PRIVATE	3,323.21
8,644 Private	PRIVATE	2,167.64
8,651 Private	PRIVATE	4,119.11
8,652 Private	PRIVATE	69.01445579
8,655 Private	PRIVATE	3,635.13
8,659 Private	PRIVATE	149.7201778
8,660 Private	PRIVATE	550.2527071
8,661 Private	PRIVATE	1,263.77
8,663 Private	PRIVATE	113.2768525
8,664 Private	PRIVATE	572.6623324
8,666 Private	PRIVATE	11.01670398
8,669 Private	PRIVATE	214.8248926
8,670 Private	PRIVATE	71.49173961
8,672 Private	PRIVATE	661.8518441
8,674 Private	PRIVATE	199.8200747
8,676 Private	PRIVATE	5,076.09
8,680 Private	PRIVATE	474.9281073
8,681 Private	PRIVATE	3,222.52
8,684 Private	PRIVATE	9,554.12
8,685 Private	PRIVATE	1,241.06
8,687 Private	PRIVATE	1,247.22
8,689 Private	PRIVATE	820.9220228
8,694 Private	PRIVATE	5,222.58

8,696 Private	PRIVATE	8,848.23
8,701 Private	PRIVATE	1,279.56
8,702 Private	PRIVATE	7,321.85
8,704 Private	PRIVATE	30,168.04
8,705 Private	PRIVATE	1,101.94
8,712 Private	PRIVATE	3,897.48
8,713 Private	PRIVATE	1,266.20
8,714 Private	PRIVATE	1,279.27
8,717 Private	PRIVATE	1,165.76
8,718 Private	PRIVATE	1,278.46
8,719 Private	PRIVATE	920.0951027
8,722 Private	PRIVATE	3,239.75
8,728 Private	PRIVATE	1,269.10
8,729 Private	PRIVATE	12,647.52
8,730 Private	PRIVATE	91.3650796
8,731 Private	PRIVATE	9,764.51
8,732 Private	PRIVATE	83.1963787
8,733 Private	PRIVATE	3,043.37
8,734 Private	PRIVATE	1,280.05
8,739 Private	PRIVATE	200.8181579
8,740 Private	PRIVATE	4,280.98
8,741 Private	PRIVATE	1,023.54
8,742 Private	PRIVATE	4,850.09
8,743 Private	PRIVATE	179.5667727
8,745 Private	PRIVATE	50.21775966
8,746 Private	PRIVATE	2,234.60
8,747 Private	PRIVATE	97.46748341
8,748 Private	PRIVATE	4,317.00
8,749 Private	PRIVATE	196.2895871
8,750 Private	PRIVATE	115.2669186
8,752 Private	PRIVATE	92.13963656
8,754 Private	PRIVATE	3,270.09
8,757 Private	PRIVATE	3,572.92
8,761 Private	PRIVATE	1,279.10
8,764 Private	PRIVATE	3,372.86
8,765 Private	PRIVATE	1,188.15
8,768 Private	PRIVATE	363.5593315
8,770 Private	PRIVATE	2,506.59
8,771 Private	PRIVATE	1,842.01
8,772 Private	PRIVATE	1,149.32
8,773 Private	PRIVATE	3,744.26
8,774 Private	PRIVATE	2,195.29
8,776 Private	PRIVATE	179.0568473
8,777 Private	PRIVATE	1,280.13
8,779 Private	PRIVATE	584.1665711
8,782 Private	PRIVATE	420.3740239
8,792 Private	PRIVATE	5,716.80

8,794 Private	PRIVATE	125.7332748
8,796 Private	PRIVATE	30.2577295
8,797 Private	PRIVATE	163.1578324
8,799 Private	PRIVATE	2,486.23
8,802 Private	PRIVATE	331.9352323
8,803 Private	PRIVATE	11,613.20
8,804 Private	PRIVATE	2,147.47
8,806 Private	PRIVATE	1,280.25
8,807 Private	PRIVATE	2,216.26
8,808 Private	PRIVATE	10,861.31
8,809 Private	PRIVATE	2,488.76
8,810 Private	PRIVATE	140.7749146
8,812 Private	PRIVATE	2,703.52
8,813 Private	PRIVATE	1,014.12
8,814 Private	PRIVATE	1,659.52
8,828 Private	PRIVATE	1,900.80
8,831 Private	PRIVATE	1,280.26
8,833 Private	PRIVATE	1,455.56
8,834 Private	PRIVATE	15,725.13
8,836 Private	PRIVATE	14,163.92
8,843 Private	PRIVATE	7,716.56
8,849 Private	PRIVATE	9,633.33
8,850 Private	PRIVATE	4,828.62
8,857 Private	PRIVATE	6,439.97
8,858 Private	PRIVATE	6,394.60
8,869 Private	PRIVATE	168.517227
8,871 Private	PRIVATE	1,208.91
8,872 Private	PRIVATE	8,822.13
8,878 Private	PRIVATE	6,416.00
8,879 Private	PRIVATE	6,426.08
8,902 Private	PRIVATE	6,085.61
8,907 Private	PRIVATE	1,210.48
8,908 Private	PRIVATE	955.2728198
8,909 Private	PRIVATE	2,016.61
8,914 Private	PRIVATE	63,909.37
8,921 Private	PRIVATE	9,075.34
8,924 Private	PRIVATE	2,163.96
8,929 Private	PRIVATE	2,304.99
8,933 Private	PRIVATE	6,433.02
8,937 Private	PRIVATE	7,240.57
8,939 Private	PRIVATE	6,441.41
8,948 Private	PRIVATE	3,247.95
8,949 Private	PRIVATE	8,551.82
8,950 Private	PRIVATE	26,123.36
8,953 Private	PRIVATE	153,997.62
8,957 Private	PRIVATE	4,828.85
8,974 Private	PRIVATE	2,016.08

8,981 Private	PRIVATE	735.7427154
8,982 Private	PRIVATE	2,149.86
8,984 Private	PRIVATE	2,523.36
8,992 Private	PRIVATE	1,993.92
8,993 Private	PRIVATE	6,416.03
8,997 Private	PRIVATE	3,212.94
8,998 Private	PRIVATE	2,448.81
9,000 Private	PRIVATE	2,202.00
9,001 Private	PRIVATE	1,836.01
9,003 Private	PRIVATE	12,857.95
9,004 Private	PRIVATE	2,532.55
9,006 Private	PRIVATE	5,062.08
9,010 Private	PRIVATE	4,901.84
9,012 Private	PRIVATE	952.1748359
9,014 Private	PRIVATE	1,578.95
9,016 Private	PRIVATE	3,596.25
9,018 Private	PRIVATE	1,176.63
9,020 Private	PRIVATE	1,485.59
9,021 Private	PRIVATE	6,418.85
9,024 Private	PRIVATE	3,697.83
9,025 Private	PRIVATE	3,403.63
9,026 Private	PRIVATE	18,058.57
9,028 Private	PRIVATE	2,675.53
9,029 Private	PRIVATE	2,153.71
9,040 Private	PRIVATE	251.8445985
9,042 Private	PRIVATE	16,042.86
9,046 Private	PRIVATE	4,136.85
9,054 Private	PRIVATE	5,871.62
9,055 Private	PRIVATE	75.20077958
9,060 Private	PRIVATE	4,059.07
9,061 Private	PRIVATE	2,818.58
9,064 Private	PRIVATE	2,521.30
9,068 Private	PRIVATE	4,141.63
9,074 Private	PRIVATE	839.3921159
9,077 Private	PRIVATE	5,494.35
9,082 Private	PRIVATE	4,539.44
9,091 Private	PRIVATE	6,901.77
9,096 Private	PRIVATE	1,155.11
9,097 Private	PRIVATE	6,222.42
9,098 Private	PRIVATE	3,220.79
9,099 Private	PRIVATE	1,616.65
9,101 Private	PRIVATE	1,173.82
9,103 Private	PRIVATE	3,911.47
9,107 Private	PRIVATE	1,033.37
9,111 Private	PRIVATE	3,382.45
9,114 Private	PRIVATE	403.8972635
9,115 Private	PRIVATE	1,247.05

9,116 Private	PRIVATE	1,871.90
9,117 Private	PRIVATE	499.4929085
9,122 Private	PRIVATE	1,314.52
9,127 Private	PRIVATE	4,125.66
9,129 Private	PRIVATE	1,130.95
9,132 Private	PRIVATE	6,417.57
9,133 Private	PRIVATE	3,525.55
9,137 Private	PRIVATE	4,589.51
9,138 Private	PRIVATE	6,440.21
9,144 Private	PRIVATE	6,405.44
9,147 Private	PRIVATE	1,595.66
9,148 Private	PRIVATE	43,876.91
9,150 Private	PRIVATE	1,385.88
9,152 Private	PRIVATE	6,464.11
9,153 Private	PRIVATE	1,322.79
9,155 Private	PRIVATE	6,657.28
9,157 Private	PRIVATE	6,411.28
9,165 Private	PRIVATE	6,418.00
9,166 Private	PRIVATE	2,404.09
9,170 Private	PRIVATE	6,424.08
9,174 Private	PRIVATE	7,239.36
9,178 Private	PRIVATE	6,454.54
9,180 Private	PRIVATE	1,279.78
9,183 Private	PRIVATE	6,418.76
9,185 Private	PRIVATE	412.3690395
9,188 Private	PRIVATE	6,473.55
9,192 Private	PRIVATE	6,342.66
9,194 Private	PRIVATE	6,397.56
9,197 Private	PRIVATE	2,719.79
9,200 Private	PRIVATE	4,836.78
9,201 Private	PRIVATE	6,318.92
9,208 Private	PRIVATE	6,524.74
9,216 Private	PRIVATE	1,609.87
9,217 Private	PRIVATE	6,435.65
9,224 Private	PRIVATE	2,412.85
9,225 Private	PRIVATE	9,032.63
9,241 Private	PRIVATE	4,838.99
9,245 Private	PRIVATE	1,611.83
9,246 Private	PRIVATE	6,471.48
9,248 Private	PRIVATE	4,019.38
9,256 Private	PRIVATE	687.980798
9,260 Private	PRIVATE	6,459.83
9,262 Private	PRIVATE	805.3453513
9,266 Private	PRIVATE	3,227.87
9,267 Private	PRIVATE	6,306.67
9,268 Private	PRIVATE	6,471.96
9,269 Private	PRIVATE	3,581.14

9,271 Private	PRIVATE	4,829.51
9,273 Private	PRIVATE	6,447.72
9,279 Private	PRIVATE	6,412.48
9,282 Private	PRIVATE	4,482.83
9,288 Private	PRIVATE	2,415.97
9,293 Private	PRIVATE	6,290.47
9,303 Private	PRIVATE	28,927.67
9,307 Private	PRIVATE	11,053.28
9,313 Private	PRIVATE	1,284.39
9,316 Private	PRIVATE	449.5051984
9,317 Private	PRIVATE	113.6488163
9,318 Private	PRIVATE	2,426.39
9,328 Private	PRIVATE	0.044169662
9,332 Private	PRIVATE	6,437.46
9,336 Private	PRIVATE	15,068.78
9,338 Private	PRIVATE	1,203.70
9,339 Private	PRIVATE	3,296.61
9,341 Private	PRIVATE	672.8996423
9,342 Private	PRIVATE	2,409.30
9,343 Private	PRIVATE	5,096.95
9,345 Private	PRIVATE	3,430.61
9,348 Private	PRIVATE	1,888.70
9,353 Private	PRIVATE	12,785.88
9,361 Private	PRIVATE	1,091.47
9,364 Private	PRIVATE	1,243.79
9,365 Private	PRIVATE	1,279.80
9,366 Private	PRIVATE	1,985.03
9,368 Private	PRIVATE	3,967.09
9,371 Private	PRIVATE	1,271.70
9,375 Private	PRIVATE	3,669.27
9,376 Private	PRIVATE	1,279.85
9,377 Private	PRIVATE	1,165.59
9,383 Private	PRIVATE	1,522.50
9,386 Private	PRIVATE	4,071.64
9,390 Private	PRIVATE	2,175.26
9,392 Private	PRIVATE	953.7961642
9,397 Private	PRIVATE	1,720.33
9,399 Private	PRIVATE	3,232.60
9,402 Private	PRIVATE	1,156.72
9,403 Private	PRIVATE	5,758.27
9,405 Private	PRIVATE	3,702.18
9,413 Private	PRIVATE	907.5088418
9,428 Private	PRIVATE	2,008.92
9,430 Private	PRIVATE	1,221.96
9,431 Private	PRIVATE	1,253.65
9,432 Private	PRIVATE	7,430.31
9,433 Private	PRIVATE	1,013.32



9,445 Private	PRIVATE	5,679.71
9,449 Private	PRIVATE	5,686.26
9,455 Private	PRIVATE	4,190.36
9,459 Private	PRIVATE	1,299.12
9,462 Private	PRIVATE	950.5620827
9,464 Private	PRIVATE	1,306.33
9,470 Private	PRIVATE	5,105.23
9,478 Private	PRIVATE	625.4974951
9,479 Private	PRIVATE	914.8536737
9,489 Private	PRIVATE	1,935.65
9,495 Private	PRIVATE	2,903.99
9,497 Private	PRIVATE	1,279.93
9,499 Private	PRIVATE	1,758.45
9,500 Private	PRIVATE	6,449.72
9,502 Private	PRIVATE	3,221.08
9,506 Private	PRIVATE	3,986.81
9,513 Private	PRIVATE	1,279.85
9,520 Private	PRIVATE	5,579.81
9,522 Private	PRIVATE	1,279.94
9,523 Private	PRIVATE	2,021.14
9,525 Private	PRIVATE	4,450.50
9,526 Private	PRIVATE	288.5327772
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9,529 Private	PRIVATE	1,933.21
9,531 Private	PRIVATE	2,909.93
9,535 Private	PRIVATE	621.8864192
9,538 Private	PRIVATE	3,427.27
9,545 Private	PRIVATE	1,280.11
9,546 Private	PRIVATE	1,117.76
9,550 Private	PRIVATE	1,279.91
9,554 Private	PRIVATE	1,062.43
9,555 Private	PRIVATE	342.2973261
9,556 Private	PRIVATE	375.7822693
9,557 Private	PRIVATE	9,636.20
9,558 Private	PRIVATE	33.64797932
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9,560 Private	PRIVATE	59.57606201
9,562 Private	PRIVATE	2,026.36
9,563 Private	PRIVATE	1,104.99
9,564 Private	PRIVATE	2,008.60
9,566 Private	PRIVATE	603.4775307
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9,570 Private	PRIVATE	1,279.91
9,571 Private	PRIVATE	4,830.95
9,572 Private	PRIVATE	1,606.57
9,575 Private	PRIVATE	1,029.92

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9,579 Private	PRIVATE	2,183.78
9,580 Private	PRIVATE	822.4428482
9,581 Private	PRIVATE	603.3870864
9,582 Private	PRIVATE	903.32425
9,583 Private	PRIVATE	2,769.62
9,585 Private	PRIVATE	4,022.59
9,589 Private	PRIVATE	6,398.92
9,598 Private	PRIVATE	4,565.86
9,599 Private	PRIVATE	603.7142022
9,603 Private	PRIVATE	6,348.61
9,609 Private	PRIVATE	1,272.64
9,611 Private	PRIVATE	2,421.56
9,614 Private	PRIVATE	6,402.58
9,616 Private	PRIVATE	1,279.96
9,619 Private	PRIVATE	1,429.08
9,622 Private	PRIVATE	1,228.54
9,632 Private	PRIVATE	1,167.25
9,633 Private	PRIVATE	1,295.75
9,634 Private	PRIVATE	8,504.09
9,636 Private	PRIVATE	1,279.83
9,638 Private	PRIVATE	1,263.63
9,639 Private	PRIVATE	557.1323781
9,640 Private	PRIVATE	1,218.58
9,641 Private	PRIVATE	1,279.83
9,642 Private	PRIVATE	4,094.98
9,644 Private	PRIVATE	1,251.59
9,647 Private	PRIVATE	1,279.99
9,649 Private	PRIVATE	1,685.75
9,650 Private	PRIVATE	6,671.78
9,651 Private	PRIVATE	1,279.46
9,653 Private	PRIVATE	1,252.51
9,655 Private	PRIVATE	1,239.35
9,656 Private	PRIVATE	1,280.27
9,657 Private	PRIVATE	3,974.85
9,659 Private	PRIVATE	1,426.15
9,660 Private	PRIVATE	17,382.91
9,663 Private	PRIVATE	9,550.74
9,664 Private	PRIVATE	2,865.88
9,665 Private	PRIVATE	1,200.36
9,666 Private	PRIVATE	4,918.59
9,667 Private	PRIVATE	1,279.94
9,668 Private	PRIVATE	1,015.44
9,672 Private	PRIVATE	4,651.78
9,673 Private	PRIVATE	1,279.85
9,674 Private	PRIVATE	8,888.09

9,677 Private	PRIVATE	2,137.24
9,678 Private	PRIVATE	3,146.85
9,679 Private	PRIVATE	3,588.20
9,680 Private	PRIVATE	1,130.87
9,681 Private	PRIVATE	1,280.11
9,682 Private	PRIVATE	3,229.11
9,684 Private	PRIVATE	6,987.31
9,686 Private	PRIVATE	5,373.49
9,687 Private	PRIVATE	1,243.20
9,688 Private	PRIVATE	562.7281046
9,690 Private	PRIVATE	6,737.77
9,693 Private	PRIVATE	979.4423323
9,695 Private	PRIVATE	4,048.90
9,696 Private	PRIVATE	2,190.63
9,697 Private	PRIVATE	1,184.47
9,698 Private	PRIVATE	2,362.85
9,702 Private	PRIVATE	1,398.53
9,704 Private	PRIVATE	1,280.00
9,705 Private	PRIVATE	3,468.09
9,706 Private	PRIVATE	10,378.03
9,707 Private	PRIVATE	5,166.50
9,708 Private	PRIVATE	358.9677402
9,709 Private	PRIVATE	282.2446233
9,712 Private	PRIVATE	4,175.04
9,713 Private	PRIVATE	2,462.78
9,714 Private	PRIVATE	5,910.27
9,715 Private	PRIVATE	1,254.86
9,718 Private	PRIVATE	17,840.89
9,719 Private	PRIVATE	1,213.75
9,723 Private	PRIVATE	938.0597238
9,725 Private	PRIVATE	1,280.05
9,727 Private	PRIVATE	6,059.40
9,730 Private	PRIVATE	3,093.00
9,732 Private	PRIVATE	12,602.07
9,738 Private	PRIVATE	610.5909919
9,742 Private	PRIVATE	3,987.26
9,743 Private	PRIVATE	3,213.14
9,744 Private	PRIVATE	6,447.39
9,748 Private	PRIVATE	2,194.63
9,750 Private	PRIVATE	4,842.51
9,751 Private	PRIVATE	1,607.65
9,754 Private	PRIVATE	1,279.66
9,756 Private	PRIVATE	1,782.79
9,757 Private	PRIVATE	987.4897869
9,758 Private	PRIVATE	336.3510528
9,759 Private	PRIVATE	4,088.21
9,760 Private	PRIVATE	1,121.38

9,762 Private	PRIVATE	489.6484469
9,764 Private	PRIVATE	6,898.77
9,765 Private	PRIVATE	7,370.42
9,768 Private	PRIVATE	889.2238692
9,778 Private	PRIVATE	598.6859559
9,785 Private	PRIVATE	1,289.39
9,786 Private	PRIVATE	1,273.01
9,798 Private	PRIVATE	4,802.84
9,802 Private	PRIVATE	1,296.72
9,812 Private	PRIVATE	2,421.01
9,818 Private	PRIVATE	6,445.16
9,819 Private	PRIVATE	3,742.15
9,820 Private	PRIVATE	5,358.46
9,821 Private	PRIVATE	3,073.71
9,822 Private	PRIVATE	2,364.75
9,824 Private	PRIVATE	1,096.99
9,827 Private	PRIVATE	868.4602294
9,828 Private	PRIVATE	66,536.57
9,830 Private	PRIVATE	4,135.23
9,831 Private	PRIVATE	6,584.46
9,832 Private	PRIVATE	1,280.05
9,833 Private	PRIVATE	1,279.53
9,835 Private	PRIVATE	603.3403752
9,836 Private	PRIVATE	1,906.40
9,840 Private	PRIVATE	1,072.01
9,841 Private	PRIVATE	1,044.60
9,843 Private	PRIVATE	1,154.95
9,846 Private	PRIVATE	586.1039816
9,847 Private	PRIVATE	1,280.09
9,848 Private	PRIVATE	1,136.66
9,854 Private	PRIVATE	1,280.06
9,855 Private	PRIVATE	10,711.83
9,856 Private	PRIVATE	994.8302765
9,857 Private	PRIVATE	1,277.78
9,858 Private	PRIVATE	1,513.07
9,860 Private	PRIVATE	4,018.30
9,862 Private	PRIVATE	1,253.63
9,863 Private	PRIVATE	1,612.55
9,873 Private	PRIVATE	4,256.49
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9,881 Private	PRIVATE	977.4355753
9,887 Private	PRIVATE	4,586.23
9,889 Private	PRIVATE	4,928.26
9,897 Private	PRIVATE	6,450.35
9,898 Private	PRIVATE	265,686.07
9,901 Private	PRIVATE	5,634.79
9,905 Private	PRIVATE	1,627.42

9,906 Private	PRIVATE	6,090.84
9,907 Private	PRIVATE	6,409.80
9,910 Private	PRIVATE	16,939.10
9,912 Private	PRIVATE	2,274.51
9,915 Private	PRIVATE	6,420.49
9,916 Private	PRIVATE	1,389.11
9,922 Private	PRIVATE	3,613.29
9,923 Private	PRIVATE	804.0185379
9,924 Private	PRIVATE	4,289.36
9,928 Private	PRIVATE	10,707.78
9,929 Private	PRIVATE	2,167.97
9,930 Private	PRIVATE	3,457.98
9,931 Private	PRIVATE	2,628.70
9,933 Private	PRIVATE	865.3539312
9,934 Private	PRIVATE	1,280.26
9,935 Private	PRIVATE	6,466.50
9,936 Private	PRIVATE	568.7077707
9,938 Private	PRIVATE	1,254.17
9,939 Private	PRIVATE	1,279.50
9,940 Private	PRIVATE	1,035.75
9,943 Private	PRIVATE	1,155.53
9,944 Private	PRIVATE	339.2852309
9,945 Private	PRIVATE	1,218.53
9,946 Private	PRIVATE	646.4333676
9,949 Private	PRIVATE	6,427.96
9,950 Private	PRIVATE	8,237.87
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9,953 Private	PRIVATE	6,870.90
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9,955 Private	PRIVATE	5,417.19
9,956 Private	PRIVATE	1,279.61
9,957 Private	PRIVATE	1,091.00
9,958 Private	PRIVATE	2,529.00
9,960 Private	PRIVATE	1,110.25
9,962 Private	PRIVATE	612.7363436
9,964 Private	PRIVATE	2,717.24
9,965 Private	PRIVATE	1,332.73
9,966 Private	PRIVATE	1,279.75
9,967 Private	PRIVATE	4,027.91
9,968 Private	PRIVATE	8,925.14
9,969 Private	PRIVATE	9,179.84
9,970 Private	PRIVATE	1,096.85
9,971 Private	PRIVATE	6,683.12
9,972 Private	PRIVATE	6,430.24
9,973 Private	PRIVATE	17.07668586
9,974 Private	PRIVATE	519.7823398
9,975 Private	PRIVATE	3,203.24

9,976 Private	PRIVATE	10,038.65
9,977 Private	PRIVATE	6,424.64
9,978 Private	PRIVATE	6,438.36
9,979 Private	PRIVATE	5,138.44
9,980 Private	PRIVATE	16,908.29
9,981 Private	PRIVATE	167.8137498
9,982 Private	PRIVATE	2,473.73
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9,985 Private	PRIVATE	1,987.13
9,986 Private	PRIVATE	1,709.48
9,987 Private	PRIVATE	2,042.50
9,988 Private	PRIVATE	6,429.60
9,989 Private	PRIVATE	1,280.09
9,990 Private	PRIVATE	6,420.89
9,991 Private	PRIVATE	1,147.98
9,992 Private	PRIVATE	805.1157886
9,993 Private	PRIVATE	6,533.36
9,994 Private	PRIVATE	7,420.67
9,995 Private	PRIVATE	6,427.98
9,996 Private	PRIVATE	6,564.03
9,997 Private	PRIVATE	435.687559
9,998 Private	PRIVATE	7,404.15
9,999 Private	PRIVATE	763.498157
10,000 Private	PRIVATE	25,656.04
10,001 Private	PRIVATE	5,641.56
10,002 Private	PRIVATE	6,436.15
10,003 Private	PRIVATE	5,103.38
10,004 Private	PRIVATE	13,403.29
10,006 Private	PRIVATE	6,407.59
10,007 Private	PRIVATE	2,337.86
10,008 Private	PRIVATE	12,536.92
10,009 Private	PRIVATE	6,434.68
10,010 Private	PRIVATE	89.72496444
10,011 Private	PRIVATE	1,359.59
10,012 Private	PRIVATE	6,034.55
10,013 Private	PRIVATE	1,252.84
10,014 Private	PRIVATE	8,039.53
10,015 Private	PRIVATE	1,352.93
10,016 Private	PRIVATE	6,431.20
10,017 Private	PRIVATE	4,346.14
10,018 Private	PRIVATE	1,280.10
10,019 Private	PRIVATE	6,438.27
10,020 Private	PRIVATE	6,298.87
10,021 Private	PRIVATE	605.1952271
10,022 Private	PRIVATE	2,136.96
10,023 Private	PRIVATE	1,612.31

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10,025 Private	PRIVATE	1,251.07
10,026 Private	PRIVATE	6,385.01
10,027 Private	PRIVATE	342.493523
10,028 Private	PRIVATE	742.2815687
10,029 Private	PRIVATE	4,764.84
10,030 Private	PRIVATE	656.7160756
10,031 Private	PRIVATE	3,355.68
10,032 Private	PRIVATE	6,433.36
10,033 Private	PRIVATE	639.8873076
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10,035 Private	PRIVATE	115.9685738
10,036 Private	PRIVATE	18,004.65
10,037 Private	PRIVATE	4,024.57
10,038 Private	PRIVATE	4,915.86
10,039 Private	PRIVATE	11,770.15
10,040 Private	PRIVATE	6,449.19
10,041 Private	PRIVATE	1,613.43
10,042 Private	PRIVATE	1,280.34
10,043 Private	PRIVATE	3,134.52
10,044 Private	PRIVATE	1,276.46
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10,050 Private	PRIVATE	3,465.67
10,051 Private	PRIVATE	4,549.22
10,052 Private	PRIVATE	3,498.75
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10,054 Private	PRIVATE	1,745.68
10,056 Private	PRIVATE	6,444.39
10,057 Private	PRIVATE	2,410.42
10,058 Private	PRIVATE	3,244.26
10,060 Private	PRIVATE	2,047.64
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10,062 Private	PRIVATE	3,704.34
10,063 Private	PRIVATE	87,229.87
10,064 Private	PRIVATE	2,938.79
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10,066 Private	PRIVATE	7,200.79
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10,068 Private	PRIVATE	3,216.83
10,069 Private	PRIVATE	1,185.25
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10,071 Private	PRIVATE	1,696.47
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10,074 Private	PRIVATE	5,360.60
10,075 Private	PRIVATE	2,096.14
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10,079 Private	PRIVATE	4,098.94
10,080 Private	PRIVATE	6,936.06
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10,085 Private	PRIVATE	1,726.31
10,086 Private	PRIVATE	355.576519
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10,088 Private	PRIVATE	489.0358006
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10,090 Private	PRIVATE	5,435.89
10,091 Private	PRIVATE	2,419.56
10,092 Private	PRIVATE	3,056.79
10,093 Private	PRIVATE	4,870.79
10,094 Private	PRIVATE	6,466.41
10,095 Private	PRIVATE	5,233.38
10,096 Private	PRIVATE	3,577.21
10,097 Private	PRIVATE	3,899.08
10,098 Private	PRIVATE	605.3781822
10,099 Private	PRIVATE	6,928.06
10,100 Private	PRIVATE	8,902.56
10,101 Private	PRIVATE	7,973.62
10,102 Private	PRIVATE	728.6279263
10,103 Private	PRIVATE	1,281.22
10,104 Private	PRIVATE	3,157.47
10,105 Private	PRIVATE	3,285.45
10,106 Private	PRIVATE	312.4952398
10,107 Private	PRIVATE	2,868.83
10,108 Private	PRIVATE	4,880.67
10,109 Private	PRIVATE	52.88439565
10,110 Private	PRIVATE	428.9693235
10,111 Private	PRIVATE	1,843.75
10,112 Private	PRIVATE	513,421.13
10,113 Private	PRIVATE	6,620.18
10,114 Private	PRIVATE	11,702.86
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10,118 Private	PRIVATE	12,831.76
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10,121 Private	PRIVATE	2,799.50
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10,123 Private	PRIVATE	63.34920645
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10,125 Private	PRIVATE	5,423.73
10,126 Private	PRIVATE	4,828.73
10,127 Private	PRIVATE	4,706.10
10,128 Private	PRIVATE	6,634.49
10,129 Private	PRIVATE	1,094.05
10,130 Private	PRIVATE	6,532.73
10,131 Private	PRIVATE	12,839.61
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10,133 Private	PRIVATE	134.3809935
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10,139 Private	PRIVATE	346.1626369
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10,141 Private	PRIVATE	2,226.56
10,142 Private	PRIVATE	12,700.02
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10,144 Private	PRIVATE	9,333.37
10,145 Private	PRIVATE	1,163.37
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10,147 Private	PRIVATE	1,267.38
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10,150 Private	PRIVATE	66.68637097
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10,162 Private	PRIVATE	68.92052761
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10,176 Private	PRIVATE	6,510.17
10,177 Private	PRIVATE	2,456.48
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10,179 Private	PRIVATE	3,180.89
10,180 Private	PRIVATE	1,279.81
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10,185 Private	PRIVATE	6,509.51
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10,188 Private	PRIVATE	1,241.84
10,189 Private	PRIVATE	1,352.55
10,190 Private	PRIVATE	5,141.00
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10,192 Private	PRIVATE	1,609.61
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10,194 Private	PRIVATE	5,477.18
10,195 Private	PRIVATE	1,163.71
10,196 Private	PRIVATE	7,261.30
10,197 Private	PRIVATE	3,203.22
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10,199 Private	PRIVATE	5,638.22
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10,203 Private	PRIVATE	1,143.09
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10,212 Private	PRIVATE	7,939.40
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10,359 Private	PRIVATE	301.7221283
10,360 Private	PRIVATE	22,304.90
10,361 Private	PRIVATE	113.5373789
10,362 Private	PRIVATE	5,680.45
10,363 Private	PRIVATE	1,130.49
10,364 Private	PRIVATE	1,303.22
10,365 Private	PRIVATE	6,990.74
10,366 Private	PRIVATE	1,301.54
10,367 Private	PRIVATE	294.8195546
10,368 Private	PRIVATE	2,204.29
10,369 Private	PRIVATE	1,290.23
10,370 Private	PRIVATE	1,435.66
10,371 Private	PRIVATE	103.0446579
10,372 Private	PRIVATE	1,211.88
10,373 Private	PRIVATE	3,855.21
10,374 Private	PRIVATE	2,738.82
10,375 Private	PRIVATE	3,186.99
10,376 Private	PRIVATE	1,319.87
10,377 Private	PRIVATE	12,300.34
10,378 Private	PRIVATE	1,404.72
10,379 Private	PRIVATE	4,439.71
10,380 Private	PRIVATE	32,512.54
10,381 Private	PRIVATE	2,000.27
10,382 Private	PRIVATE	8,762.82
10,383 Private	PRIVATE	1,213.90
10,384 Private	PRIVATE	4,590.25
10,385 Private	PRIVATE	2,350.49
10,386 Private	PRIVATE	6,606.42
10,387 Private	PRIVATE	2,307.98
10,388 Private	PRIVATE	2,959.36
10,389 Private	PRIVATE	6,424.79
10,390 Private	PRIVATE	4,383.48
10,391 Private	PRIVATE	1,280.97
10,392 Private	PRIVATE	439.6367343
10,393 Private	PRIVATE	1,152.47
10,394 Private	PRIVATE	1,281.18
10,395 Private	PRIVATE	1,934.19
10,396 Private	PRIVATE	7,832.33
10,397 Private	PRIVATE	3,702.66
10,398 Private	PRIVATE	1,230.15
10,399 Private	PRIVATE	1,224.15
10,400 Private	PRIVATE	1,281.09
10,401 Private	PRIVATE	1,251.99
10,402 Private	PRIVATE	3,117.39

10,403 Private	PRIVATE	88.83777953
10,404 Private	PRIVATE	2,207.66
10,405 Private	PRIVATE	1,521.35
10,406 Private	PRIVATE	2,878.29
10,407 Private	PRIVATE	15,626.29
10,408 Private	PRIVATE	1,294.30
10,409 Private	PRIVATE	2,273.18
10,410 Private	PRIVATE	1,604.30
10,411 Private	PRIVATE	43,651.31
10,412 Private	PRIVATE	1,021.02
10,413 Private	PRIVATE	1,286.33
10,414 Private	PRIVATE	2,199.13
10,415 Private	PRIVATE	606.0481228
10,416 Private	PRIVATE	2,197.27
10,417 Private	PRIVATE	3,195.35
10,418 Private	PRIVATE	603.8449881
10,419 Private	PRIVATE	154.8810757
10,420 Private	PRIVATE	24.19903358
10,421 Private	PRIVATE	162.6252834
10,422 Private	PRIVATE	2,134.59
10,423 Private	PRIVATE	230.8672169
10,424 Private	PRIVATE	222.8326385
10,425 Private	PRIVATE	1,223.58
10,426 Private	PRIVATE	1,140.95
10,427 Private	PRIVATE	6,461.26
10,428 Private	PRIVATE	650.4291806
10,429 Private	PRIVATE	2,641.82
10,430 Private	PRIVATE	85.13264934
10,431 Private	PRIVATE	312.5841304
10,432 Private	PRIVATE	72.30201994
10,433 Private	PRIVATE	112.5957212
10,434 Private	PRIVATE	35.64675046
10,435 Private	PRIVATE	8,398.42
10,436 Private	PRIVATE	7,112.72
10,437 Private	PRIVATE	3,251.61
10,438 Private	PRIVATE	1,303.28
10,439 Private	PRIVATE	3,117.20
10,440 Private	PRIVATE	78,262.90
10,441 Private	PRIVATE	1,280.38
10,442 Private	PRIVATE	2,213.84
10,443 Private	PRIVATE	1,274.19
10,444 Private	PRIVATE	3,700.81
10,445 Private	PRIVATE	54.68501239
10,446 Private	PRIVATE	67.25167087
10,447 Private	PRIVATE	3,641.25
10,448 Private	PRIVATE	705.9472019
10,449 Private	PRIVATE	288.2818499

10,450 Private	PRIVATE	426.0574492
10,451 Private	PRIVATE	640,976.40
10,452 Private	PRIVATE	1,276.69
10,453 Private	PRIVATE	1,281.18
10,454 Private	PRIVATE	8,984.71
10,455 Private	PRIVATE	1,212.21
10,456 Private	PRIVATE	8,392.71
10,457 Private	PRIVATE	1,198.75
10,458 Private	PRIVATE	2,195.41
10,459 Private	PRIVATE	2,187.70
10,460 Private	PRIVATE	2,443.53
10,461 Private	PRIVATE	3,387.88
10,462 Private	PRIVATE	4,427.24
10,463 Private	PRIVATE	1,284.44
10,464 Private	PRIVATE	2,011.73
10,465 Private	PRIVATE	1,181.13
10,466 Private	PRIVATE	2,365.44
10,467 Private	PRIVATE	1,281.20
10,468 Private	PRIVATE	1,281.20
10,469 Private	PRIVATE	3,320.54
10,470 Private	PRIVATE	15,838.46
10,471 Private	PRIVATE	1,103.99
10,472 Private	PRIVATE	2,197.88
10,473 Private	PRIVATE	12,088.66
10,474 Private	PRIVATE	1,116.39
10,475 Private	PRIVATE	2,126.69
10,476 Private	PRIVATE	2,309.73
10,477 Private	PRIVATE	1,281.20
10,478 Private	PRIVATE	1,340.19
10,479 Private	PRIVATE	1,281.26
10,480 Private	PRIVATE	1,839.91
10,481 Private	PRIVATE	6,707.40
10,482 Private	PRIVATE	4,403.48
10,483 Private	PRIVATE	4,147.55
10,484 Private	PRIVATE	4,263.59
10,485 Private	PRIVATE	3,747.32
10,486 Private	PRIVATE	2,511.05
10,487 Private	PRIVATE	2,014.56
10,488 Private	PRIVATE	1,281.19
10,489 Private	PRIVATE	7.8626408
10,490 Private	PRIVATE	1,281.14
10,491 Private	PRIVATE	1,280.73
10,492 Private	PRIVATE	1,208.34
10,493 Private	PRIVATE	1,257.19
10,494 Private	PRIVATE	2,437.39
10,495 Private	PRIVATE	31,066.59
10,496 Private	PRIVATE	2,197.73



10,497 Private	PRIVATE	10,276.30
10,498 Private	PRIVATE	42.24052048
10,499 Private	PRIVATE	2,194.95
10,500 Private	PRIVATE	1,241.31
10,501 Private	PRIVATE	12.3149191
10,502 Private	PRIVATE	654.0315213
10,503 Private	PRIVATE	143.6728572
10,504 Private	PRIVATE	926.8792326
10,505 Private	PRIVATE	320.4763195
10,506 Private	PRIVATE	2,357.79
10,507 Private	PRIVATE	2,199.99
10,508 Private	PRIVATE	4,031.99
10,509 Private	PRIVATE	8,530.37
10,510 Private	PRIVATE	7.297893206
10,511 Private	PRIVATE	2,262.98
10,512 Private	PRIVATE	2,125.10
10,513 Private	PRIVATE	2,417.48
10,514 Private	PRIVATE	28.58106143
10,515 Private	PRIVATE	1,255.65
10,516 Private	PRIVATE	3,069.47
10,517 Private	PRIVATE	20.88139611
10,518 Private	PRIVATE	1,281.14
10,519 Private	PRIVATE	4,501.24
10,520 Private	PRIVATE	1,884.41
10,521 Private	PRIVATE	5,261.19
10,522 Private	PRIVATE	199.3896504
10,523 Private	PRIVATE	99.39317244
10,524 Private	PRIVATE	4,842.93
10,525 Private	PRIVATE	2,575.88
10,526 Private	PRIVATE	18.94263724
10,527 Private	PRIVATE	92.47713696
10,528 Private	PRIVATE	1,290.48
10,529 Private	PRIVATE	67.14052267
10,530 Private	PRIVATE	88.61977828
10,531 Private	PRIVATE	1,522.28
10,532 Private	PRIVATE	128.4383731
10,533 Private	PRIVATE	36.39453168
10,534 Private	PRIVATE	3,797.95
10,535 Private	PRIVATE	2,198.15
10,536 Private	PRIVATE	807.5215966
10,537 Private	PRIVATE	3,743.05
10,538 Private	PRIVATE	1,203.81
10,539 Private	PRIVATE	1,515.69
10,540 Private	PRIVATE	1,281.43
10,541 Private	PRIVATE	72.84798814
10,542 Private	PRIVATE	24.56920588
10,543 Private	PRIVATE	9,516.15

10,544 Private	PRIVATE	20,407.93
10,545 Private	PRIVATE	2,139.76
10,546 Private	PRIVATE	116.2371058
10,547 Private	PRIVATE	2,110.14
10,548 Private	PRIVATE	2,874.97
10,549 Private	PRIVATE	2,787.09
10,550 Private	PRIVATE	2,561.39
10,551 Private	PRIVATE	265.7551348
10,552 Private	PRIVATE	4,397.21
10,553 Private	PRIVATE	1,234.77
10,554 Private	PRIVATE	1,389.19
10,555 Private	PRIVATE	1,281.38
10,556 Private	PRIVATE	3,289.74
10,557 Private	PRIVATE	1,111.98
10,558 Private	PRIVATE	4,148.10
10,559 Private	PRIVATE	16,692.67
10,560 Private	PRIVATE	2,496.66
10,561 Private	PRIVATE	387.739126
10,562 Private	PRIVATE	4,923.98
10,563 Private	PRIVATE	3,850.88
10,564 Private	PRIVATE	1,281.40
10,565 Private	PRIVATE	4,997.67
10,566 Private	PRIVATE	2,196.74
10,567 Private	PRIVATE	5,874.41
10,568 Private	PRIVATE	1,281.73
10,569 Private	PRIVATE	2,193.08
10,570 Private	PRIVATE	251.7239037
10,571 Private	PRIVATE	1,269.20
10,572 Private	PRIVATE	3,811.32
10,573 Private	PRIVATE	3,213.36
10,574 Private	PRIVATE	2,802.72
10,575 Private	PRIVATE	610.3802971
10,576 Private	PRIVATE	649.2464247
10,577 Private	PRIVATE	2,202.17
10,578 Private	PRIVATE	216.090334
10,579 Private	PRIVATE	114.644364
10,580 Private	PRIVATE	1,409.59
10,581 Private	PRIVATE	1,213.72
10,582 Private	PRIVATE	42,722.44
10,583 Private	PRIVATE	2,475.66
10,584 Private	PRIVATE	9,279.37
10,585 Private	PRIVATE	112.235404
10,586 Private	PRIVATE	6,485.87
10,587 Private	PRIVATE	4,479.72
10,588 Private	PRIVATE	13,019.93
10,589 Private	PRIVATE	183.2963946
10,590 Private	PRIVATE	49.29289908

10,591 Private	PRIVATE	16,466.21
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10,594 Private	PRIVATE	2,334.63
10,595 Private	PRIVATE	88.25515596
10,596 Private	PRIVATE	3,205.05
10,597 Private	PRIVATE	537.0605363
10,598 Private	PRIVATE	1,407.52
10,599 Private	PRIVATE	1,819.78
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10,601 Private	PRIVATE	1,634.58
10,602 Private	PRIVATE	3,205.36
10,603 Private	PRIVATE	1,219.31
10,604 Private	PRIVATE	2,484.35
10,605 Private	PRIVATE	1,399.52
10,606 Private	PRIVATE	2,178.78
10,607 Private	PRIVATE	19.34367461
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10,611 Private	PRIVATE	198.5027139
10,612 Private	PRIVATE	1,166.75
10,613 Private	PRIVATE	461.9859611
10,614 Private	PRIVATE	253.6370293
10,615 Private	PRIVATE	5,617.79
10,616 Private	PRIVATE	5,319.60
10,617 Private	PRIVATE	3,626.40
10,618 Private	PRIVATE	1,769.09
10,619 Private	PRIVATE	456.5873055
10,620 Private	PRIVATE	101.3575046
10,621 Private	PRIVATE	10,620.77
10,622 Private	PRIVATE	52.21894551
10,623 Private	PRIVATE	2.111009321
10,624 Private	PRIVATE	4,251.82
10,625 Private	PRIVATE	266.469732
10,626 Private	PRIVATE	778.0464084
10,627 Private	PRIVATE	2,987.24
10,628 Private	PRIVATE	1,283.87
10,629 Private	PRIVATE	31.89136688
10,630 Private	PRIVATE	358.8763589
10,631 Private	PRIVATE	4,505.34
10,632 Private	PRIVATE	132.422858
10,633 Private	PRIVATE	872.1530609
10,634 Private	PRIVATE	6.928975756
10,635 Private	PRIVATE	4,034.00
10,636 Private	PRIVATE	15,991.40
10,637 Private	PRIVATE	111.4345261

10,638 Private	PRIVATE	83.60429735
10,639 Private	PRIVATE	5,012.57
10,640 Private	PRIVATE	19.03482374
10,641 Private	PRIVATE	40.27268304
10,642 Private	PRIVATE	4,548.73
10,643 Private	PRIVATE	1,280.28
10,644 Private	PRIVATE	1,869.53
10,645 Private	PRIVATE	3,561.72
10,646 Private	PRIVATE	5,417.94
10,647 Private	PRIVATE	307.8569744
10,648 Private	PRIVATE	1,131.16
10,649 Private	PRIVATE	1,229.61
10,650 Private	PRIVATE	7,981.81
10,651 Private	PRIVATE	503.373184
10,652 Private	PRIVATE	78.45659342
10,653 Private	PRIVATE	2,125.08
10,654 Private	PRIVATE	1,282.62
10,655 Private	PRIVATE	36.3174152
10,656 Private	PRIVATE	3,333.79
10,657 Private	PRIVATE	1,290.21
10,658 Private	PRIVATE	1,394.10
10,659 Private	PRIVATE	151.4039232
10,660 Private	PRIVATE	10,547.74
10,661 Private	PRIVATE	2,411.37
10,662 Private	PRIVATE	4,969.34
10,663 Private	PRIVATE	145.265665
10,664 Private	PRIVATE	2,535.63
10,665 Private	PRIVATE	12,544.05
10,666 Private	PRIVATE	11.83188485
10,667 Private	PRIVATE	4,810.95
10,668 Private	PRIVATE	2,717.20
10,669 Private	PRIVATE	733.6344814
10,670 Private	PRIVATE	11,450.05
10,671 Private	PRIVATE	760.7715542
10,672 Private	PRIVATE	3,174.43
10,673 Private	PRIVATE	38.39464159
10,674 Private	PRIVATE	763.6281153
10,675 Private	PRIVATE	25,378.54
10,676 Private	PRIVATE	648.4100381
10,677 Private	PRIVATE	2,196.83
10,678 Private	PRIVATE	1,049.35
10,679 Private	PRIVATE	1,640.45
10,680 Private	PRIVATE	6,444.61
10,681 Private	PRIVATE	1,107.43
10,682 Private	PRIVATE	9,998.00
10,683 Private	PRIVATE	702.6775333
10,684 Private	PRIVATE	74.95795494

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10,686 Private	PRIVATE	658.1562287
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10,688 Private	PRIVATE	399.1875129
10,689 Private	PRIVATE	11.7485003
10,690 Private	PRIVATE	774.2055403
10,691 Private	PRIVATE	1,817.47
10,692 Private	PRIVATE	16,827.14
10,693 Private	PRIVATE	58.49633237
10,694 Private	PRIVATE	21,612.42
10,695 Private	PRIVATE	1,224.37
10,696 Private	PRIVATE	41,287.67
10,697 Private	PRIVATE	1,586.29
10,698 Private	PRIVATE	1,318.78
10,699 Private	PRIVATE	1,774.41
10,700 Private	PRIVATE	1,712.16
10,701 Private	PRIVATE	1,809.12
10,702 Private	PRIVATE	3,189.97
10,703 Private	PRIVATE	1,555.63
10,704 Private	PRIVATE	1,391.40
10,705 Private	PRIVATE	671.8158733
10,706 Private	PRIVATE	3,115.70
10,707 Private	PRIVATE	3,359.59
10,708 Private	PRIVATE	2,525.26
10,709 Private	PRIVATE	1,250.60
10,710 Private	PRIVATE	744.3343459
10,711 Private	PRIVATE	7,299.93
10,712 Private	PRIVATE	3,652.82
10,713 Private	PRIVATE	12,209.35
10,714 Private	PRIVATE	2,455.55
10,715 Private	PRIVATE	2,614.88
10,716 Private	PRIVATE	603.2529676
10,717 Private	PRIVATE	764.9829703
10,718 Private	PRIVATE	3,565.55
10,719 Private	PRIVATE	12,673.83
10,720 Private	PRIVATE	6,449.37
10,721 Private	PRIVATE	4,024.88
10,722 Private	PRIVATE	1,207.31
10,723 Private	PRIVATE	4,832.11
10,724 Private	PRIVATE	8,696.85
10,725 Private	PRIVATE	1,768.28
10,726 Private	PRIVATE	426.1775901
10,727 Private	PRIVATE	36.74450423
10,728 Private	PRIVATE	13.59480597
10,729 Private	PRIVATE	65.23178194
10,730 Private	PRIVATE	8,056.11
10,731 Private	PRIVATE	4,919.70

10,732 Private	PRIVATE	625.954654
10,733 Private	PRIVATE	36,064.38
10,734 Private	PRIVATE	2,014.39
10,735 Private	PRIVATE	10.77282971
10,736 Private	PRIVATE	597.4511123
10,737 Private	PRIVATE	116.4470297
10,738 Private	PRIVATE	6,978.46
10,739 Private	PRIVATE	793.5976077
10,740 Private	PRIVATE	650.2801798
10,741 Private	PRIVATE	78.35925976
10,742 Private	PRIVATE	1,281.87
10,743 Private	PRIVATE	6,123.14
10,744 Private	PRIVATE	819.802145
10,745 Private	PRIVATE	5,527.58
10,746 Private	PRIVATE	6,108.45
10,747 Private	PRIVATE	2,181.56
10,748 Private	PRIVATE	4,162.26
10,749 Private	PRIVATE	3,042.82
10,750 Private	PRIVATE	1,277.79
10,751 Private	PRIVATE	391.840858
10,752 Private	PRIVATE	1,959.45
10,753 Private	PRIVATE	1,174.51
10,754 Private	PRIVATE	8,537.80
10,755 Private	PRIVATE	407.2846194
10,756 Private	PRIVATE	24,073.30
10,757 Private	PRIVATE	1,773.33
10,758 Private	PRIVATE	517.7435819
10,759 Private	PRIVATE	3,222.22
10,760 Private	PRIVATE	2,010.79
10,761 Private	PRIVATE	8,373.32
10,762 Private	PRIVATE	1,602.71
10,763 Private	PRIVATE	315.9515429
10,764 Private	PRIVATE	160.8875143
10,765 Private	PRIVATE	4,018.98
10,766 Private	PRIVATE	582.117165
10,767 Private	PRIVATE	2,195.72
10,768 Private	PRIVATE	14,065.56
10,769 Private	PRIVATE	2,184.95
10,770 Private	PRIVATE	155.0809464
10,771 Private	PRIVATE	2,615.53
10,772 Private	PRIVATE	187.9370521
10,773 Private	PRIVATE	630.5905546
10,774 Private	PRIVATE	24,853.41
10,775 Private	PRIVATE	28,720.63
10,776 Private	PRIVATE	6,429.45
10,777 Private	PRIVATE	31,581.37
10,778 Private	PRIVATE	789.9588427

10,779 Private	PRIVATE	9,656.83
10,780 Private	PRIVATE	6,332.08
10,781 Private	PRIVATE	805.0580176
10,782 Private	PRIVATE	705.6485436
10,783 Private	PRIVATE	789.3494567
10,784 Private	PRIVATE	7,877,158.15
10,785 Private	PRIVATE	775.0869986
10,786 Private	PRIVATE	781.8441486
10,787 Private	PRIVATE	11,251.46
10,788 Private	PRIVATE	6,404.47
10,789 Private	PRIVATE	2,439.36
10,790 Private	PRIVATE	808.2843956
10,791 Private	PRIVATE	305.0345856
10,792 Private	PRIVATE	2,547.79
10,793 Private	PRIVATE	662.277231
10,794 Private	PRIVATE	1,276.76
10,795 Private	PRIVATE	8,151.45
10,796 Private	PRIVATE	32,957.75
10,797 Private	PRIVATE	1,611.12
10,798 Private	PRIVATE	1,964.93
10,799 Private	PRIVATE	2,409.68
10,800 Private	PRIVATE	217,902.37
13,236 State	STATE	1,046.00
13,245 State	STATE	6,446.27
13,268 State	STATE	8,939.61
13,269 State	STATE	6,439.00
13,297 State	STATE	319.1437802
13,309 State	STATE	4,952.37
13,317 State	STATE	133.2204444
13,352 State	STATE	4,906.10
13,390 State	STATE	2,317.15
13,404 State	STATE	656.5972031
13,424 State	STATE	30,639.54
13,452 State	STATE	5,579.80
13,495 State	STATE	3,235.51
13,528 State	STATE	3,042.95
13,530 State	STATE	6,600.42
13,534 State	STATE	444.4116203
13,555 State	STATE	2,114.51
13,556 State	STATE	4,025.86
13,564 State	STATE	10,459.06
13,591 State	STATE	2,462.99
13,612 State	STATE	6,435.44
13,619 State	STATE	5,750.89
13,625 State	STATE	22,455.86
13,633 State	STATE	5,241.63
13,640 State	STATE	1,323.01

13,641 State	STATE	1,028.91
13,644 State	STATE	1,486.94
13,649 State	STATE	21,512.46
13,671 State	STATE	6,426.60
13,674 State	STATE	3,478.69
13,682 State	STATE	6,404.47
13,683 State	STATE	299.7534787
13,685 State	STATE	13,870.80
13,697 State	STATE	6,338.66
13,715 State	STATE	7,998.75
13,722 State	STATE	2,405.64
13,724 State	STATE	12,227.06
13,731 State	STATE	6,436.44
13,732 State	STATE	3,222.23
13,733 State	STATE	6,443.08
13,738 State	STATE	6,446.52
13,739 State	STATE	6,433.28
13,742 State	STATE	2,347.44
13,743 State	STATE	6,442.08
13,746 State	STATE	730.6020632
13,748 State	STATE	5,659.42
13,750 State	STATE	4,601.64
13,754 State	STATE	6,436.70
13,762 State	STATE	19,075.70
13,764 State	STATE	6,431.40
13,766 State	STATE	6,193.78
13,768 State	STATE	6,442.18
13,770 State	STATE	6,145.24
13,774 State	STATE	9,605.54
13,781 State	STATE	8,618.15
13,782 State	STATE	2,493.90
13,794 State	STATE	6,012.08
13,797 State	STATE	3,230.58
13,799 State	STATE	6,429.26
13,801 State	STATE	7,237.55
13,803 State	STATE	1,446.41
13,805 State	STATE	6,343.71
13,806 State	STATE	752.8725322
13,814 State	STATE	3,224.60
13,817 State	STATE	1,584.57
13,818 State	STATE	1,052.98
13,824 State	STATE	6,436.17
13,825 State	STATE	5,529.63
13,828 State	STATE	4,163.71
13,831 State	STATE	2,366.86
13,838 State	STATE	6,440.25
13,841 State	STATE	76,042.93



13,844 State	STATE	12,298.91
13,847 State	STATE	6,436.47
13,848 State	STATE	25,446.40
13,851 State	STATE	15,544.75
13,852 State	STATE	97.04542798
13,857 State	STATE	6,510.88
13,865 State	STATE	6,481.59
13,869 State	STATE	4,758.90
13,870 State	STATE	3,240.11
13,872 State	STATE	10,901.82
13,879 State	STATE	10,570.51
13,883 State	STATE	6,486.84
13,884 State	STATE	6,487.10
13,885 State	STATE	15,495.27
13,889 State	STATE	6,479.05
13,891 State	STATE	2,884.09
13,893 State	STATE	3,842.15
13,894 State	STATE	5,542.75
13,895 State	STATE	1,610.48
13,897 State	STATE	4,054.42
13,899 State	STATE	6,355.22
13,900 State	STATE	4,867.59
13,901 State	STATE	6,429.98
13,902 State	STATE	1,615.38
13,905 State	STATE	6,477.89
13,906 State	STATE	1,624.22
13,909 State	STATE	350.2603708
13,911 State	STATE	8,822.90
13,919 State	STATE	936.3836962
13,920 State	STATE	6,529.64
13,922 State	STATE	4,566.20
13,925 State	STATE	3,259.06
13,926 State	STATE	350.8986575
13,929 State	STATE	1,894.53
13,931 State	STATE	6,504.43
13,933 State	STATE	6,433.04
13,935 State	STATE	4,862.70
13,937 State	STATE	5,679.02
13,942 State	STATE	4,869.49
13,946 State	STATE	9,795.40
13,947 State	STATE	4,842.46
13,948 State	STATE	6,482.62
13,949 State	STATE	954.6656341
13,950 State	STATE	2,111.58
13,952 State	STATE	827.8976594
13,953 State	STATE	3,240.84
13,954 State	STATE	931.9073548

13,955 State	STATE	4,078.18
13,957 State	STATE	1,613.76
13,960 State	STATE	2,844.88
13,961 State	STATE	1,069.59
13,963 State	STATE	999.0834121
13,965 State	STATE	6,509.28
13,966 State	STATE	4,868.18
13,967 State	STATE	6,481.58
13,968 State	STATE	1,773.84
13,973 State	STATE	2,377.23
13,974 State	STATE	1,404.66
13,981 State	STATE	1,713.26
13,984 State	STATE	6,385.34
13,988 State	STATE	1,098.53
14,012 State	STATE	1,432.35
14,015 State	STATE	6,472.08
14,018 State	STATE	1,963.22
14,021 State	STATE	6,503.63
14,023 State	STATE	4,037.56
14,024 State	STATE	3,242.81
14,026 State	STATE	4,859.36
14,030 State	STATE	628.629531
14,031 State	STATE	6,462.13
14,032 State	STATE	651.8919269
14,034 State	STATE	1,449.20
14,036 State	STATE	3,120.89
14,037 State	STATE	835.1287674
14,041 State	STATE	812.559262
14,042 State	STATE	6,442.90
14,043 State	STATE	6,432.03
14,045 State	STATE	2,622.93
14,046 State	STATE	842.4723115
14,056 State	STATE	2,425.90
14,057 State	STATE	6,509.51
14,059 State	STATE	1,029.21
14,064 State	STATE	2,437.76
14,066 State	STATE	3,226.03
14,067 State	STATE	4,851.74
14,068 State	STATE	1,624.57
14,070 State	STATE	6,677.69
14,071 State	STATE	4,001.51
14,073 State	STATE	712.63707
14,075 State	STATE	4,248.27
14,078 State	STATE	6,453.02
14,083 State	STATE	16,684.80
14,084 State	STATE	6,342.84
14,088 State	STATE	2,407.97

14,092 State	STATE	5,578.41
14,094 State	STATE	8,051.87
14,095 State	STATE	3,232.67
14,097 State	STATE	805.8790821
14,099 State	STATE	6,018.00
14,103 State	STATE	3,233.35
14,106 State	STATE	6,434.72
14,107 State	STATE	1,754.05
14,112 State	STATE	4,338.23
14,114 State	STATE	6,357.41
14,117 State	STATE	984.3985779
14,121 State	STATE	1,042.07
14,122 State	STATE	715.4786679
14,125 State	STATE	6,474.65
14,132 State	STATE	6,463.64
14,133 State	STATE	460.8373528
14,134 State	STATE	6,500.47
14,135 State	STATE	13,045.89
14,136 State	STATE	3,976.07
14,137 State	STATE	6,467.90
14,138 State	STATE	4,779.31
14,139 State	STATE	3,258.14
14,142 State	STATE	30,951.35
14,143 State	STATE	3,013.60
14,144 State	STATE	981.3135169
14,147 State	STATE	5,910.08
14,148 State	STATE	6,544.38
14,150 State	STATE	2,413.76
14,154 State	STATE	2,425.82
14,156 State	STATE	2,374.21
14,158 State	STATE	3,078.50
14,159 State	STATE	6,113.54
14,160 State	STATE	4,567.74
14,163 State	STATE	4,529.17
14,164 State	STATE	6,480.77
14,165 State	STATE	3,176.65
14,167 State	STATE	1,617.67
14,170 State	STATE	4,081.44
14,171 State	STATE	3,257.58
14,172 State	STATE	4,048.55
14,173 State	STATE	73,129.97
14,174 State	STATE	6,558.04
14,176 State	STATE	3,259.90
14,177 State	STATE	6,435.27
14,178 State	STATE	5,038.13
14,179 State	STATE	1,619.54
14,181 State	STATE	13,841.34

14,183 State	STATE	6,447.40
14,184 State	STATE	6,502.04
14,186 State	STATE	6,383.57
14,187 State	STATE	302.7186564
14,188 State	STATE	310.4548291
14,189 State	STATE	4,028.76
14,190 State	STATE	4,842.85
14,191 State	STATE	6,431.13
14,192 State	STATE	16,167.25
14,194 State	STATE	6,480.14
14,195 State	STATE	597.2926772
14,197 State	STATE	6,500.77
14,200 State	STATE	1,068.36
14,203 State	STATE	27,359.44
14,207 State	STATE	6,534.54
14,209 State	STATE	6,426.69
14,213 State	STATE	2,535.83
14,214 State	STATE	6,057.38
14,215 State	STATE	5,671.88
14,217 State	STATE	18,028.73
14,218 State	STATE	1,611.20
14,222 State	STATE	6,312.71
14,223 State	STATE	597.2899622
14,224 State	STATE	1,200.02
14,225 State	STATE	7,250.06
14,226 State	STATE	7,214.00
14,227 State	STATE	3,113.35
14,228 State	STATE	273.3764782
14,231 State	STATE	5,724.17
14,232 State	STATE	483.6750725
14,235 State	STATE	8,053.28
14,236 State	STATE	3,207.52
14,237 State	STATE	8,747.20
14,238 State	STATE	534.6444599
14,239 State	STATE	759.5184248
14,240 State	STATE	821.9989556
14,241 State	STATE	6,444.91
14,243 State	STATE	992.4665542
14,245 State	STATE	6,493.52
14,246 State	STATE	1,291.26
14,248 State	STATE	6,464.19
14,249 State	STATE	6,433.30
14,250 State	STATE	7,270.85
14,251 State	STATE	3,214.82
14,252 State	STATE	5,619.53
14,253 State	STATE	6,419.44
14,254 State	STATE	6,178.31

14,255 State	STATE	4,020.96
14,256 State	STATE	6,444.41
14,258 State	STATE	3,165.08
14,260 State	STATE	1,476.40
14,261 State	STATE	1,235.17
14,262 State	STATE	14,757.78
14,263 State	STATE	16,127.66
14,265 State	STATE	1,065.65
14,266 State	STATE	3,223.94
14,267 State	STATE	494.7328395
14,268 State	STATE	2,424.36
14,269 State	STATE	12,841.25
14,271 State	STATE	6,484.23
14,272 State	STATE	4,300.78
14,273 State	STATE	70,504.47
14,274 State	STATE	6,440.52
14,276 State	STATE	160.8833692
14,278 State	STATE	4,337.27
14,279 State	STATE	860.9876511
14,280 State	STATE	1,071.64
14,281 State	STATE	6,469.24
14,283 State	STATE	3,212.61
14,284 State	STATE	6,409.24
14,285 State	STATE	6,278.40
14,286 State	STATE	3,230.31
14,287 State	STATE	5,668.25
14,289 State	STATE	3,212.67
14,293 State	STATE	3,639.31
14,295 State	STATE	6,162.20
14,296 State	STATE	1,145.50
14,297 State	STATE	8,879.61
14,299 State	STATE	8,344.92
14,300 State	STATE	792.4916968
14,301 State	STATE	6,474.71
14,302 State	STATE	498.5544285
14,304 State	STATE	6,465.28
14,306 State	STATE	6,707.79
14,308 State	STATE	6,445.91
14,309 State	STATE	669.7792427
14,310 State	STATE	237.6024781
14,312 State	STATE	8,130.27
14,315 State	STATE	23,531.24
14,316 State	STATE	1,689.49
14,317 State	STATE	509.9956275
14,318 State	STATE	920.3531676
14,321 State	STATE	4,857.21
14,322 State	STATE	6,310.55

14,323 State	STATE	4,830.44
14,324 State	STATE	2,843.56
14,325 State	STATE	2,429.91
14,326 State	STATE	4,967.37
14,327 State	STATE	4,969.46
14,328 State	STATE	6,421.97
14,330 State	STATE	4,473.22
14,331 State	STATE	1,158.12
14,332 State	STATE	6,406.28
14,333 State	STATE	6,450.92
14,334 State	STATE	6,429.66
14,336 State	STATE	6,433.15
14,338 State	STATE	1,620.67
14,340 State	STATE	6,455.17
14,341 State	STATE	4,259.93
14,342 State	STATE	6,499.72
14,343 State	STATE	6,422.30
14,344 State	STATE	6,288.84
14,345 State	STATE	6,432.37
14,346 State	STATE	1,614.41
14,347 State	STATE	4,902.79
14,348 State	STATE	4,377.48
14,349 State	STATE	6,539.17
14,351 State	STATE	6,460.54
14,353 State	STATE	4,121.24
14,355 State	STATE	1,612.47
14,358 State	STATE	6,459.11
14,360 State	STATE	57.52538487
14,361 State	STATE	956.157711
14,362 State	STATE	1,610.36
14,364 State	STATE	3,236.19
14,365 State	STATE	4,054.62
14,366 State	STATE	1,130.03
14,367 State	STATE	1,441.01
14,369 State	STATE	3,207.14
14,370 State	STATE	2,088.07
14,371 State	STATE	4,826.17
14,372 State	STATE	1,058.28
14,373 State	STATE	703.7710672
14,374 State	STATE	14,053.74
14,377 State	STATE	1,633.82
14,378 State	STATE	6,406.23
14,379 State	STATE	340.6493493
14,381 State	STATE	6,470.26
14,384 State	STATE	6,454.00
14,385 State	STATE	5,532.51
14,387 State	STATE	2,441.73

14,388 State	STATE	6,478.76
14,389 State	STATE	4,871.20
14,390 State	STATE	3,210.10
14,392 State	STATE	6,539.04
14,393 State	STATE	21,090.62
14,395 State	STATE	6,412.13
14,396 State	STATE	4,060.24
14,397 State	STATE	6,523.75
14,398 State	STATE	3,230.18
14,399 State	STATE	6,405.74
14,400 State	STATE	4,772.36
14,401 State	STATE	2,443.59
14,402 State	STATE	6,317.48
14,403 State	STATE	5,923.06
14,404 State	STATE	6,475.04
14,405 State	STATE	3,269.40
14,406 State	STATE	4,884.68
14,407 State	STATE	6,430.08
14,408 State	STATE	4,825.25
14,409 State	STATE	8,413.28
14,410 State	STATE	7,299.56
14,411 State	STATE	5,613.83
14,412 State	STATE	6,447.89
14,414 State	STATE	2,137.81
14,416 State	STATE	5,657.36
14,417 State	STATE	6,469.42
14,418 State	STATE	4,792.04
14,419 State	STATE	2,426.53
14,422 State	STATE	6,590.91
14,423 State	STATE	18,749.77
14,424 State	STATE	1,621.04
14,425 State	STATE	6,488.65
14,426 State	STATE	3,208.98
14,427 State	STATE	3,233.49
14,428 State	STATE	6,499.48
14,429 State	STATE	15,402.65
14,431 State	STATE	1,642.51
14,432 State	STATE	4,852.22
14,433 State	STATE	3,231.26
14,434 State	STATE	6,487.55
14,435 State	STATE	4,824.55
14,436 State	STATE	6,476.32
14,437 State	STATE	16,830.88
14,439 State	STATE	6,352.51
14,440 State	STATE	3,861.35
14,441 State	STATE	5,446.94
14,442 State	STATE	1,395.11

14,444 State	STATE	7,269.57
14,445 State	STATE	6,463.61
14,446 State	STATE	4,839.09
14,447 State	STATE	2,348.87
14,448 State	STATE	4,907.73
14,449 State	STATE	6,470.67
14,450 State	STATE	2,814.80
14,451 State	STATE	4,046.34
14,454 State	STATE	3,252.91
14,456 State	STATE	7,208.20
14,457 State	STATE	497.3425043
14,458 State	STATE	843.5223787
14,461 State	STATE	3,238.81
14,462 State	STATE	4,863.63
14,463 State	STATE	5,658.34
14,464 State	STATE	2,423.71
14,466 State	STATE	4,861.88
14,468 State	STATE	6,501.51
14,469 State	STATE	4,846.08
14,470 State	STATE	4,850.71
14,473 State	STATE	6,382.34
14,474 State	STATE	6,419.49
14,475 State	STATE	6,462.38
14,476 State	STATE	5,321.43
14,477 State	STATE	6,213.80
14,479 State	STATE	6,439.95
14,480 State	STATE	642.3541167
14,481 State	STATE	5,184.84
14,483 State	STATE	3,251.20
14,485 State	STATE	641.5742608
14,486 State	STATE	1,744.29
14,487 State	STATE	4,837.24
14,488 State	STATE	12,743.79
14,489 State	STATE	1,514.39
14,492 State	STATE	4,036.92
14,493 State	STATE	800.2488525
14,495 State	STATE	3,268.40
14,498 State	STATE	6,527.26
14,500 State	STATE	6,478.69
14,501 State	STATE	3,007.98
14,502 State	STATE	6,526.47
14,503 State	STATE	165.1768737
14,504 State	STATE	2,422.15
14,505 State	STATE	2,429.56
14,506 State	STATE	1,827.83
14,507 State	STATE	4,699.22
14,508 State	STATE	338.4037896



14,509 State	STATE	6,474.40
14,510 State	STATE	6,486.07
14,512 State	STATE	2,051.51
14,513 State	STATE	6,479.52
14,515 State	STATE	2,422.80
14,517 State	STATE	1,292.39
14,518 State	STATE	11,301.92
14,520 State	STATE	3,263.63
14,521 State	STATE	1,642.84
14,522 State	STATE	4,243.74
14,523 State	STATE	4,875.96
14,524 State	STATE	6,476.56
14,526 State	STATE	5,492.02
14,527 State	STATE	38,637.89
14,528 State	STATE	2,433.57
14,530 State	STATE	6,498.77
14,532 State	STATE	11,492.49
14,533 State	STATE	6,469.40
14,534 State	STATE	1,013.82
14,535 State	STATE	867.123605
14,536 State	STATE	601.2561235
14,537 State	STATE	6,539.53
14,538 State	STATE	4,885.92
14,541 State	STATE	4,851.36
14,542 State	STATE	6,319.05
14,543 State	STATE	3,233.24
14,544 State	STATE	10,128.29
14,545 State	STATE	16,404.11
14,546 State	STATE	1,857.02
14,547 State	STATE	6,537.88
14,549 State	STATE	1,624.77
14,551 State	STATE	6,465.38
14,552 State	STATE	1,667.86
14,553 State	STATE	4,859.42
14,555 State	STATE	4,107.43
14,558 State	STATE	6,512.94
14,559 State	STATE	6,282.16
14,560 State	STATE	27,151.55
14,562 State	STATE	7,554.12
14,563 State	STATE	1,401.20
14,565 State	STATE	6,489.18
14,566 State	STATE	7,805.00
14,567 State	STATE	4,850.13
14,568 State	STATE	6,487.18
14,569 State	STATE	6,453.21
14,570 State	STATE	6,461.14
14,571 State	STATE	6,536.84

14,572 State	STATE	5,500.35
14,573 State	STATE	2,256.02
14,574 State	STATE	5,488.30
14,575 State	STATE	6,403.28
14,577 State	STATE	3,261.64
14,578 State	STATE	6,451.59
14,580 State	STATE	6,518.96
14,581 State	STATE	2,423.17
14,582 State	STATE	5,652.77
14,583 State	STATE	2,171.17
14,584 State	STATE	6,427.75
14,585 State	STATE	4,971.12
14,587 State	STATE	6,375.48
14,588 State	STATE	6,463.06
14,589 State	STATE	6,443.33
14,591 State	STATE	3,229.04
14,592 State	STATE	6,423.95
14,593 State	STATE	4,826.19
14,595 State	STATE	1,625.92
14,596 State	STATE	4,795.84
14,597 State	STATE	6,454.44
14,598 State	STATE	1,298.89
14,599 State	STATE	14,366.79
14,601 State	STATE	4,844.35
14,602 State	STATE	6,464.42
14,603 State	STATE	6,462.71
14,604 State	STATE	6,399.28
14,605 State	STATE	6,457.55
14,606 State	STATE	642.0242443
14,608 State	STATE	775.5063303
14,609 State	STATE	400.1528706
14,610 State	STATE	1,626.34
14,611 State	STATE	6,481.28
14,612 State	STATE	6,434.86
14,613 State	STATE	1,927.29
14,615 State	STATE	1,818.20
14,617 State	STATE	2,406.71
14,618 State	STATE	3,589.40
14,619 State	STATE	3,211.56
14,620 State	STATE	6,442.57
14,621 State	STATE	6,408.38
14,622 State	STATE	4,825.96
14,623 State	STATE	6,473.98
14,624 State	STATE	3,466.05
14,625 State	STATE	4,800.78
14,626 State	STATE	6,418.19
14,627 State	STATE	4,842.99

14,628 State	STATE	1,785.41
14,629 State	STATE	1,814.38
14,630 State	STATE	6,524.06
14,631 State	STATE	6,620.79
14,632 State	STATE	6,481.16
14,633 State	STATE	4,849.45
14,634 State	STATE	9,641.62
14,635 State	STATE	6,432.59
14,636 State	STATE	3,214.14
14,637 State	STATE	7,980.90
14,638 State	STATE	4,834.02
14,639 State	STATE	1,413.84
14,640 State	STATE	5,077.88
14,641 State	STATE	2,056.74
14,642 State	STATE	264.5061784
14,643 State	STATE	5,144.41
14,644 State	STATE	1,689.96
14,645 State	STATE	6,445.67
14,646 State	STATE	956.5717889
14,647 State	STATE	4,050.16
14,648 State	STATE	34.195103
14,649 State	STATE	1,191.86
14,650 State	STATE	2,976.73
14,651 State	STATE	6,563.57
14,652 State	STATE	547.7382893
14,653 State	STATE	1,639.39
14,654 State	STATE	757.5130542
14,655 State	STATE	6,352.68
14,656 State	STATE	6,422.10
14,657 State	STATE	4,890.01
14,658 State	STATE	3,253.28
14,659 State	STATE	6,458.50
14,660 State	STATE	479.8717647
14,661 State	STATE	3,474.68
14,662 State	STATE	5,985.18
14,663 State	STATE	1,418.59
14,664 State	STATE	880.7295303
14,665 State	STATE	6,462.73
14,666 State	STATE	3,232.31
14,667 State	STATE	4,454.69
14,668 State	STATE	4,831.69
14,669 State	STATE	8,004.02
14,670 State	STATE	6,410.37
14,671 State	STATE	2,921.28
14,672 State	STATE	1,674.86
14,673 State	STATE	6,441.45
14,674 State	STATE	6,442.54

14,675 State	STATE	6,420.91
14,676 State	STATE	3,078.65
14,677 State	STATE	5,411.99
14,678 State	STATE	6,426.76
14,679 State	STATE	6,433.11
14,680 State	STATE	183,076.77
14,681 State	STATE	4,828.68
14,682 State	STATE	1,425.06
14,683 State	STATE	4,804.85
14,684 State	STATE	20,082.74
14,685 State	STATE	413.7874669
14,686 State	STATE	6,442.05
14,687 State	STATE	5,637.42
14,688 State	STATE	13,356.12
14,689 State	STATE	187.5197787
14,690 State	STATE	813.5083794
14,691 State	STATE	6,919.71
14,692 State	STATE	16,530.86
14,693 State	STATE	247.2754132
14,694 State	STATE	701.8920362
14,695 State	STATE	6,378.28
14,696 State	STATE	5,634.61
14,697 State	STATE	6,449.00
14,698 State	STATE	3,525.56
14,699 State	STATE	4,101.69
14,700 State	STATE	3,339.51
14,701 State	STATE	6,438.01
14,702 State	STATE	6,486.13
14,703 State	STATE	2,146.07
14,704 State	STATE	9,884.89
14,705 State	STATE	9,734.82
14,706 State	STATE	399.1969475
14,707 State	STATE	31,056.77
14,708 State	STATE	2,369.21
14,709 State	STATE	211.4182866
14,710 State	STATE	4,866.96
14,711 State	STATE	73.45868775
14,712 State	STATE	99.37064483
14,713 State	STATE	126.1738907
14,714 State	STATE	1,194.87
14,715 State	STATE	3,074.38
14,716 State	STATE	5,337.34
14,717 State	STATE	788.6950385
14,718 State	STATE	6,462.04
14,719 State	STATE	3,043.04
14,720 State	STATE	6,474.88
14,721 State	STATE	6,463.03

14,722 State	STATE	4,789.26
14,723 State	STATE	8,036.77
14,724 State	STATE	6,437.25
14,725 State	STATE	6,452.61
14,726 State	STATE	6,433.67
14,727 State	STATE	4,091.44
14,728 State	STATE	6,078.21
14,729 State	STATE	4,218.46
14,730 State	STATE	6,464.32
14,731 State	STATE	6,431.30
14,732 State	STATE	10,495.91
14,733 State	STATE	1,614.49
14,734 State	STATE	4,822.94
14,735 State	STATE	6,450.05
14,736 State	STATE	579.0562665
14,737 State	STATE	3,666.23
14,738 State	STATE	3,275.20
14,739 State	STATE	4,677.76
14,740 State	STATE	1,619.40
14,741 State	STATE	6,420.13
14,742 State	STATE	4,871.90
14,743 State	STATE	4,822.37
14,744 State	STATE	3,233.65
14,745 State	STATE	6,523.49
14,746 State	STATE	4,050.43
14,747 State	STATE	6,409.21
14,748 State	STATE	1,277.30
14,749 State	STATE	1,608.63
14,750 State	STATE	2,434.48
14,751 State	STATE	6,554.49
14,752 State	STATE	599.2390624
14,753 State	STATE	1,120.29
14,754 State	STATE	6,449.34
14,755 State	STATE	7,304.58
14,756 State	STATE	1,281.26
14,757 State	STATE	24,639.12
14,758 State	STATE	6,445.30
14,759 State	STATE	9,616.82
14,760 State	STATE	5,641.18
14,761 State	STATE	6,456.45
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14,764 State	STATE	6,457.45
14,765 State	STATE	6,471.07
14,766 State	STATE	6,450.11
14,767 State	STATE	3,213.65
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14,769 State	STATE	4,047.33
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14,772 State	STATE	4,862.12
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14,774 State	STATE	3,265.14
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14,776 State	STATE	2,436.13
14,777 State	STATE	2,432.78
14,778 State	STATE	3,737.33
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14,780 State	STATE	3,210.16
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14,785 State	STATE	605.0948635
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14,787 State	STATE	4,823.83
14,788 State	STATE	4,073.22
14,789 State	STATE	6,129.23
14,790 State	STATE	1,031.97
14,791 State	STATE	2,191.05
14,792 State	STATE	1,619.96
14,793 State	STATE	1,625.29
14,794 State	STATE	1,625.81
14,795 State	STATE	11,252.47
14,796 State	STATE	1,639.85
14,797 State	STATE	1,634.89
14,798 State	STATE	1,629.66
14,799 State	STATE	1,629.79
14,800 State	STATE	3,259.69
14,801 State	STATE	6,359.19
14,802 State	STATE	4,875.95
14,803 State	STATE	6,525.47
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14,805 State	STATE	4,026.35
14,806 State	STATE	1,840.90
14,807 State	STATE	7,395.84
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14,812 State	STATE	11,062.85
14,813 State	STATE	3,207.14
14,814 State	STATE	6,432.49
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14,817 State	STATE	7,220.51
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14,826 State	STATE	4,021.45
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15,500 USFS Not Analyzed	USFS Not Analyzed	572.3693125
15,501 USFS Not Analyzed	USFS Not Analyzed	515.9351411
15,502 USFS Not Analyzed	USFS Not Analyzed	1,307.82
15,503 USFS Not Analyzed	USFS Not Analyzed	104.2488014
15,504 USFS Not Analyzed	USFS Not Analyzed	532.7764222
15,505 USFS Not Analyzed	USFS Not Analyzed	253.0021797
15,506 USFS Not Analyzed	USFS Not Analyzed	1,407.89
15,507 USFS Not Analyzed	USFS Not Analyzed	137.3374107
15,508 USFS Not Analyzed	USFS Not Analyzed	417,597.58
15,509 USFS Not Analyzed	USFS Not Analyzed	917.9161164
15,510 USFS Not Analyzed	USFS Not Analyzed	750.2912131
15,511 USFS Not Analyzed	USFS Not Analyzed	73.40037952
15,512 USFS Not Analyzed	USFS Not Analyzed	109.3967335
15,513 USFS Not Analyzed	USFS Not Analyzed	53.51335941
15,514 USFS Not Analyzed	USFS Not Analyzed	1,158.91
15,515 USFS Not Analyzed	USFS Not Analyzed	1,191.99
15,516 USFS Not Analyzed	USFS Not Analyzed	61.57256372
15,517 USFS Not Analyzed	USFS Not Analyzed	154.5106817
15,518 USFS Not Analyzed	USFS Not Analyzed	124.008608
15,519 USFS Not Analyzed	USFS Not Analyzed	5,890.68
15,520 USFS Not Analyzed	USFS Not Analyzed	6,320.66
15,521 USFS Not Analyzed	USFS Not Analyzed	1,343.50
15,522 USFS Not Analyzed	USFS Not Analyzed	24,740.29
15,523 USFS Not Analyzed	USFS Not Analyzed	1,150.99
15,524 USFS Not Analyzed	USFS Not Analyzed	2,323.78
15,525 USFS Not Analyzed	USFS Not Analyzed	127.0286121
15,526 USFS Not Analyzed	USFS Not Analyzed	1,857.98
15,527 USFS Not Analyzed	USFS Not Analyzed	1,629.94
15,528 USFS Not Analyzed	USFS Not Analyzed	795.3304417
15,529 USFS Not Analyzed	USFS Not Analyzed	152.9743309
15,530 USFS Not Analyzed	USFS Not Analyzed	36.19900833
15,531 USFS Not Analyzed	USFS Not Analyzed	698.1156187
15,532 USFS Not Analyzed	USFS Not Analyzed	708.5603347
15,533 USFS Not Analyzed	USFS Not Analyzed	450.0714767
15,534 USFS Not Analyzed	USFS Not Analyzed	4,026.86
15,535 USFS Not Analyzed	USFS Not Analyzed	6,097.77
15,536 USFS Not Analyzed	USFS Not Analyzed	1,839.25
15,537 USFS Not Analyzed	USFS Not Analyzed	3,674.42
15,538 USFS Not Analyzed	USFS Not Analyzed	6,410.93
15,539 USFS Not Analyzed	USFS Not Analyzed	2,009.48
15,540 USFS Not Analyzed	USFS Not Analyzed	1,090.09
15,541 USFS Not Analyzed	USFS Not Analyzed	3,222.55
15,542 USFS Not Analyzed	USFS Not Analyzed	81.46627863

15,543	USFS Not Analyzed	USFS Not Analyzed	309.5312154
15,544	USFS Not Analyzed	USFS Not Analyzed	188.5541365
15,545	USFS Not Analyzed	USFS Not Analyzed	258.0939829
15,546	USFS Not Analyzed	USFS Not Analyzed	434.9749633
15,547	USFS Not Analyzed	USFS Not Analyzed	151.7075584
15,548	USFS Not Analyzed	USFS Not Analyzed	1,785,674.70
15,549	USFS Not Analyzed	USFS Not Analyzed	676.5323303
15,550	USFS Not Analyzed	USFS Not Analyzed	1,812.72
15,551	USFS Not Analyzed	USFS Not Analyzed	30.95676319
15,552	USFS Not Analyzed	USFS Not Analyzed	1,289.58
15,553	USFS Not Analyzed	USFS Not Analyzed	2,299.92
15,554	USFS Not Analyzed	USFS Not Analyzed	4,731.90
15,555	USFS Not Analyzed	USFS Not Analyzed	9,588.17
15,556	USFS Not Analyzed	USFS Not Analyzed	606,190.05
15,557	USFS Not Analyzed	USFS Not Analyzed	153.8590128
15,558	USFS Not Analyzed	USFS Not Analyzed	247.2418133
15,559	USFS Not Analyzed	USFS Not Analyzed	307.0992648
15,560	USFS Not Analyzed	USFS Not Analyzed	1,029.42
15,561	USFS Not Analyzed	USFS Not Analyzed	327.2222705
15,562	USFS Not Analyzed	USFS Not Analyzed	775.551586
15,563	USFS Not Analyzed	USFS Not Analyzed	554.4281614
15,564	USFS Not Analyzed	USFS Not Analyzed	721.9631081
15,565	USFS Not Analyzed	USFS Not Analyzed	60,408.34
15,567	USFS Not Analyzed	USFS Not Analyzed	1,609.73
15,568	USFS Not Analyzed	USFS Not Analyzed	2,417.79
15,569	USFS Not Analyzed	USFS Not Analyzed	7,159.13
15,570	USFS Not Analyzed	USFS Not Analyzed	3,219.64
15,571	USFS Not Analyzed	USFS Not Analyzed	138.0850665
15,572	USFS Not Analyzed	USFS Not Analyzed	808.1264055
15,573	USFS Not Analyzed	USFS Not Analyzed	12,860.20
15,574	USFS Not Analyzed	USFS Not Analyzed	313,011.14
15,575	USFS Not Analyzed	USFS Not Analyzed	2,862.14
15,576	USFS Not Analyzed	USFS Not Analyzed	5,678.27
15,577	USFS Not Analyzed	USFS Not Analyzed	788.9070528
15,578	USFS Not Analyzed	USFS Not Analyzed	795.7135585
15,579	USFS Not Analyzed	USFS Not Analyzed	552.2808009
15,580	USFS Not Analyzed	USFS Not Analyzed	1,894.21
15,581	USFS Not Analyzed	USFS Not Analyzed	1,153.87
15,582	USFS Not Analyzed	USFS Not Analyzed	794.6516268
15,583	USFS Not Analyzed	USFS Not Analyzed	822.4358831
15,584	USFS Not Analyzed	USFS Not Analyzed	1,182.92
15,585	USFS Not Analyzed	USFS Not Analyzed	30,609.27
1,162	BLM	BLM	1,609.18
1,179	BLM	BLM	5,627.15
1,187	BLM	BLM	1,608.37
1,188	BLM	BLM	4,831.81
1,193	BLM	BLM	1,608.39



1,213 BLM	BLM	2,417.82
1,214 BLM	BLM	3,222.16
1,218 BLM	BLM	1,614.66
1,228 BLM	BLM	1,643.86
1,232 BLM	BLM	8.76524683
1,234 BLM	BLM	12,147.61
1,266 BLM	BLM	2,451.26
1,284 BLM	BLM	2,407.85
1,292 BLM	BLM	1,606.64
1,302 BLM	BLM	2,483.05
1,321 BLM	BLM	1,061.99
1,326 BLM	BLM	1,611.63
1,347 BLM	BLM	6,430.87
1,349 BLM	BLM	2,418.68
1,374 BLM	BLM	4,829.00
1,386 BLM	BLM	4,027.72
1,393 BLM	BLM	1,620.64
1,396 BLM	BLM	994.3244849
1,397 BLM	BLM	10,642.46
1,401 BLM	BLM	39,448.36
1,408 BLM	BLM	880.614114
1,419 BLM	BLM	1,608.50
1,422 BLM	BLM	2,383.13
1,426 BLM	BLM	2,437.59
1,443 BLM	BLM	1,900.94
1,489 BLM	BLM	3,339.06
1,640 BLM	BLM	447.6417997
1,647 BLM	BLM	3,229.01
1,667 BLM	BLM	3,230.53
1,697 BLM	BLM	238.6083386
1,699 BLM	BLM	11,321.01
1,701 BLM	BLM	571.574551
1,702 BLM	BLM	33.08630893
1,704 BLM	BLM	272.9079772
1,705 BLM	BLM	319.2873756
1,708 BLM	BLM	106.8388355
1,709 BLM	BLM	347.5862085
1,714 BLM	BLM	121.5615909
1,715 BLM	BLM	170.9736024
1,716 BLM	BLM	61.27405069
1,717 BLM	BLM	102.5878558
1,718 BLM	BLM	1,422.58
1,722 BLM	BLM	404.1778283
1,725 BLM	BLM	79.58635927
1,727 BLM	BLM	190.6294863
1,731 BLM	BLM	1,076.39
1,732 BLM	BLM	383.0486694

1,734 BLM	BLM	28.42829568
1,738 BLM	BLM	886.4423394
1,741 BLM	BLM	670.472826
1,742 BLM	BLM	152.7139826
1,744 BLM	BLM	7,701.98
1,757 BLM	BLM	141.270363
1,763 BLM	BLM	4,215.52
1,793 BLM	BLM	1,942.27
1,942 BLM	BLM	9,649.08
2,132 BLM	BLM	5,165.26
2,246 BLM	BLM	3,225.96
2,315 BLM	BLM	926.9136839
2,409 BLM	BLM	1,618.54
2,512 BLM	BLM	1,968.60
2,665 BLM	BLM	1,596.72
2,721 BLM	BLM	1,477,446.57
2,804 BLM	BLM	469.3288165
2,808 BLM	BLM	730.4788308
4,703 Other Federal	BOR	11,837.60
4,707 Other Federal	BOR	1,482.90
4,708 Other Federal	BOR	1,526.50
4,719 Other Federal	BOR	13,751.26
4,757 Other Federal	BOR	23,427.62
4,784 Other Federal	BOR	34,028.40
4,786 Other Federal	BOR	937.2183186
4,788 Other Federal	BOR	8,006.57
4,789 Other Federal	BOR	3,217.15
4,791 Other Federal	BOR	4,033.40
4,793 Other Federal	BOR	561.0375947
4,796 Other Federal	BOR	1,827.41
4,797 Other Federal	BOR	361.210526
4,799 Other Federal	BOR	796.4955029
4,800 Other Federal	BOR	1,612.25
4,802 Other Federal	BOR	1,449.25
4,803 Other Federal	BOR	1,285.36
4,808 Other Federal	BOR	1,608.47
4,815 Other Federal	BOR	1,613.60
4,820 Other Federal	BOR	1,197.28
4,825 Other Federal	BOR	1,606.62
4,827 Other Federal	BOR	2,418.25
4,834 Other Federal	BOR	1,595.36
4,835 Other Federal	BOR	1,588.80
4,841 Other Federal	BOR	1,614.44
5,075 HSTRCWTR	HSTRCWTR	45,973.08
5,152 HSTRCWTR	HSTRCWTR	263,654.61
5,577 Other Federal	NWR	634.0739798
5,578 Other Federal	NWR	1,435.42

5,580 Other Federal	NWR	846.8208085
5,582 Other Federal	NWR	993.6230582
5,583 Other Federal	NWR	193.2184769
5,584 Other Federal	NWR	1,803.84
5,585 Other Federal	NWR	135.6751087
5,586 Other Federal	NWR	1,011.19
5,587 Other Federal	NWR	271.5817918
5,588 Other Federal	NWR	196.6671243
5,589 Other Federal	NWR	1,236.52
5,590 Other Federal	NWR	455.1017942
5,591 Other Federal	NWR	537.9708946
5,592 Other Federal	NWR	829.7669118
5,593 Other Federal	NWR	438.9302312
5,595 Other Federal	NWR	1,005.81
5,597 Other Federal	NWR	2,433.86
5,600 Other Federal	NWR	1,800.98
5,601 Other Federal	NWR	451.144284
5,602 Other Federal	NWR	125.7217145
5,603 Other Federal	NWR	445.219344
5,605 Other Federal	NWR	1,561.57
5,606 Other Federal	NWR	189.0929871
5,608 Other Federal	NWR	1,138.54
5,610 Other Federal	NWR	170.2605348
5,612 Other Federal	NWR	1,536.31
5,614 Other Federal	NWR	1,389.47
5,617 Other Federal	NWR	1,802.88
5,622 Other Federal	NWR	717.9754424
5,623 Other Federal	NWR	771.5446675
5,624 Other Federal	NWR	780.8093993
5,625 Other Federal	NWR	1,016.75
5,627 Other Federal	NWR	632.8778654
5,628 Other Federal	NWR	1,952.66
5,630 Other Federal	NWR	826.8868015
5,737 Other Federal	OTHER	243.3443361
6,760 Private	PRIVATE	2,412.59
6,779 Private	PRIVATE	1,496.41
6,803 Private	PRIVATE	4,910.54
6,813 Private	PRIVATE	1,608.17
6,821 Private	PRIVATE	6,432.80
6,824 Private	PRIVATE	3,759.03
6,832 Private	PRIVATE	20.9614609
6,840 Private	PRIVATE	3,219.66
6,841 Private	PRIVATE	1,609.23
6,844 Private	PRIVATE	1,609.02
6,845 Private	PRIVATE	1,612.34
6,850 Private	PRIVATE	1,606.86
6,853 Private	PRIVATE	1,609.72

6,854 Private	PRIVATE	1,601.29
6,863 Private	PRIVATE	3,130.45
6,864 Private	PRIVATE	8,280.88
6,869 Private	PRIVATE	1,623.12
6,874 Private	PRIVATE	8,035.85
6,876 Private	PRIVATE	5,191.38
6,881 Private	PRIVATE	1,610.72
6,885 Private	PRIVATE	1,608.27
6,889 Private	PRIVATE	10,507.85
6,893 Private	PRIVATE	1,607.60
6,895 Private	PRIVATE	388.0805088
6,897 Private	PRIVATE	8,069.32
6,903 Private	PRIVATE	5,471.02
6,907 Private	PRIVATE	11,291.56
6,911 Private	PRIVATE	4,617.01
6,913 Private	PRIVATE	22,555.32
6,914 Private	PRIVATE	4,027.96
6,919 Private	PRIVATE	4,012.66
6,923 Private	PRIVATE	4,306.01
6,927 Private	PRIVATE	7,238.12
6,928 Private	PRIVATE	7,199.79
6,944 Private	PRIVATE	13,019.00
6,980 Private	PRIVATE	3,942.07
7,025 Private	PRIVATE	1,608.80
7,028 Private	PRIVATE	1,611.52
7,067 Private	PRIVATE	1,473.40
7,082 Private	PRIVATE	27,095.16
7,108 Private	PRIVATE	2,040.16
7,112 Private	PRIVATE	5,474.33
7,117 Private	PRIVATE	3,649.66
7,118 Private	PRIVATE	8,810.34
7,126 Private	PRIVATE	3,241.50
7,155 Private	PRIVATE	2,428.24
7,184 Private	PRIVATE	18,700.04
7,187 Private	PRIVATE	4,042.09
7,195 Private	PRIVATE	12,667.10
7,205 Private	PRIVATE	7,970.78
7,208 Private	PRIVATE	1,082.44
7,209 Private	PRIVATE	2,014.13
7,210 Private	PRIVATE	967.6884708
7,212 Private	PRIVATE	1,280.93
7,213 Private	PRIVATE	1,070.77
7,214 Private	PRIVATE	1,264.68
7,217 Private	PRIVATE	3,235.60
7,218 Private	PRIVATE	2,032.88
7,220 Private	PRIVATE	2,335.89
7,221 Private	PRIVATE	1,037.00

7,222 Private	PRIVATE	12,513.68
7,224 Private	PRIVATE	188.8615072
7,225 Private	PRIVATE	185.925001
7,226 Private	PRIVATE	118.2076886
7,228 Private	PRIVATE	448.8428775
7,229 Private	PRIVATE	140.0214387
7,230 Private	PRIVATE	89.97376771
7,232 Private	PRIVATE	124.6476969
7,233 Private	PRIVATE	97.6118379
7,234 Private	PRIVATE	123.9078036
7,235 Private	PRIVATE	103.4093893
7,236 Private	PRIVATE	2,636.57
7,237 Private	PRIVATE	283.7079331
7,238 Private	PRIVATE	121.052451
7,239 Private	PRIVATE	114.2920512
7,240 Private	PRIVATE	289.5724478
7,241 Private	PRIVATE	216.5684567
7,247 Private	PRIVATE	5,308.69
7,249 Private	PRIVATE	2,374.11
7,250 Private	PRIVATE	12,640.90
7,251 Private	PRIVATE	9,765.34
7,255 Private	PRIVATE	2,567.46
7,262 Private	PRIVATE	1,212.92
7,267 Private	PRIVATE	2,497.52
7,269 Private	PRIVATE	15,696.50
7,271 Private	PRIVATE	2,391.89
7,273 Private	PRIVATE	28,052.13
7,284 Private	PRIVATE	483,951.06
7,293 Private	PRIVATE	5,741.21
7,306 Private	PRIVATE	6,209.24
7,337 Private	PRIVATE	1,186.70
7,353 Private	PRIVATE	9,645.79
7,362 Private	PRIVATE	16,326.08
7,392 Private	PRIVATE	291.8166749
7,427 Private	PRIVATE	40,243.63
7,449 Private	PRIVATE	3,827.08
7,461 Private	PRIVATE	18,168.66
7,474 Private	PRIVATE	16,125.64
7,480 Private	PRIVATE	356.9089922
7,482 Private	PRIVATE	6,431.66
7,506 Private	PRIVATE	5,557.99
7,507 Private	PRIVATE	10,061.86
7,540 Private	PRIVATE	24,421.24
7,551 Private	PRIVATE	2,499.87
7,794 Private	PRIVATE	39,170.59
7,857 Private	PRIVATE	860.4620759
7,888 Private	PRIVATE	1,316.29

7,953 Private	PRIVATE	926.7162206
7,954 Private	PRIVATE	537.3511052
8,057 Private	PRIVATE	1,246.35
8,118 Private	PRIVATE	167,524.68
11,305 State	STATE	3,931.52
11,434 State	STATE	6,027.56
11,465 State	STATE	1,146.82
11,499 State	STATE	5,951.67
11,518 State	STATE	3,701.02
11,540 State	STATE	6,429.21
11,549 State	STATE	6,421.62
11,581 State	STATE	6,437.48
11,589 State	STATE	6,451.74
11,596 State	STATE	6,432.37
11,607 State	STATE	993.2956724
11,611 State	STATE	6,442.56
11,636 State	STATE	6,432.43
11,646 State	STATE	2,625.77
11,652 State	STATE	6,432.85
11,657 State	STATE	6,394.98
11,668 State	STATE	6,436.96
11,687 State	STATE	6,432.77
11,696 State	STATE	6,440.21
11,703 State	STATE	6,435.28
11,712 State	STATE	8,748.99
11,717 State	STATE	6,438.33
11,729 State	STATE	6,460.10
11,739 State	STATE	6,438.25
11,757 State	STATE	2,393.54
11,758 State	STATE	6,445.53
11,796 State	STATE	270.0707032
11,807 State	STATE	125,840.20
11,808 State	STATE	6,461.89
11,836 State	STATE	6,499.07
11,848 State	STATE	6,469.60
11,874 State	STATE	6,517.77
11,878 State	STATE	492.1443693
11,915 State	STATE	6,439.07
11,923 State	STATE	2,846.41
11,935 State	STATE	3,207.41
11,957 State	STATE	4,739.94
11,960 State	STATE	2,406.77
11,965 State	STATE	2,405.69
11,966 State	STATE	5,333.01
11,970 State	STATE	2,402.95
11,993 State	STATE	6,417.37
12,015 State	STATE	6,502.37

12,026 State	STATE	323.4721811
12,027 State	STATE	184.0393012
12,034 State	STATE	287.8468261
12,036 State	STATE	318.4772749
12,040 State	STATE	1,120.68
12,061 State	STATE	13,437.04
12,062 State	STATE	185.6887081
12,130 State	STATE	6,427.53
12,178 State	STATE	4,601.44
12,196 State	STATE	486.2757887
12,415 State	STATE	5,509.94
12,418 State	STATE	56.45736135
12,425 State	STATE	302.1453902
12,426 State	STATE	56.09479295
12,435 State	STATE	54.11904178
12,456 State	STATE	89.74891541
12,457 State	STATE	58.72349018
12,458 State	STATE	57.03402179
12,466 State	STATE	298.6550642
12,467 State	STATE	507.0356919
12,471 State	STATE	191.656527
12,490 State	STATE	227.8425493
12,492 State	STATE	45.80562762
12,495 State	STATE	46.00462513
12,498 State	STATE	46.88550422
12,505 State	STATE	53.31755253
12,536 State	STATE	2,588.08
12,546 State	STATE	124.402691
12,550 State	STATE	177.7351309
12,556 State	STATE	430.1089717
12,608 State	STATE	247.9801676
12,624 State	STATE	61.42725999
12,640 State	STATE	178.1752091
12,643 State	STATE	584.2477878
12,698 State	STATE	61.28733281
12,699 State	STATE	59.21669018
12,701 State	STATE	121.5846146
12,704 State	STATE	59.08149793
12,705 State	STATE	57.02557888
12,727 State	STATE	2,485.29
12,781 State	STATE	3,239.96
12,823 State	STATE	3,726.83
12,827 State	STATE	339.0917273
12,835 State	STATE	4,459.17
12,849 State	STATE	1,639.54
12,872 State	STATE	47.30948258
12,894 State	STATE	2,246.16

12,921 State	STATE	147.1981521
12,936 State	STATE	121.2371286
12,937 State	STATE	46.93800954
12,938 State	STATE	208.0507269
12,947 State	STATE	291.5457729
12,949 State	STATE	1,662.27
12,956 State	STATE	46.06578829
12,967 State	STATE	63.58715057
12,968 State	STATE	132.3748339
12,969 State	STATE	259.6797945
12,976 State	STATE	323.045503
12,978 State	STATE	247.5498924
12,985 State	STATE	428.4034316
13,008 State	STATE	62.15008326
13,056 State	STATE	59.91853015
13,066 State	STATE	63.68169343
1 BLM	BLM	461.9841563
10 BLM	BLM	1,591.37
12 BLM	BLM	1,614.36
13 BLM	BLM	6,884.03
14 BLM	BLM	1,619.57
17 BLM	BLM	1,618.40
18 BLM	BLM	706.207422
19 BLM	BLM	3,221.46
20 BLM	BLM	6,030.44
21 BLM	BLM	1,204.85
22 BLM	BLM	1,631.29
23 BLM	BLM	811.6210551
24 BLM	BLM	1,635.37
25 BLM	BLM	1,592.44
26 BLM	BLM	2,442.26
27 BLM	BLM	1,626.15
29 BLM	BLM	10,634.32
31 BLM	BLM	1,611.31
32 BLM	BLM	2,442.52
33 BLM	BLM	274.0452686
35 BLM	BLM	2,424.29
36 BLM	BLM	3,212.81
37 BLM	BLM	2,423.54
38 BLM	BLM	5,634.99
40 BLM	BLM	1,604.89
42 BLM	BLM	1,611.40
44 BLM	BLM	2,421.48
45 BLM	BLM	4,832.27
47 BLM	BLM	4,839.15
48 BLM	BLM	477.5817487
49 BLM	BLM	5,663.18



50 BLM	BLM	583.8827294
51 BLM	BLM	1,611.33
54 BLM	BLM	2,313.34
55 BLM	BLM	468.8599701
56 BLM	BLM	4,734.82
58 BLM	BLM	1,611.28
60 BLM	BLM	1,602.78
61 BLM	BLM	694.4246242
62 BLM	BLM	1,243.89
63 BLM	BLM	1,608.08
64 BLM	BLM	1,732.63
67 BLM	BLM	1,359.37
70 BLM	BLM	1,600.98
71 BLM	BLM	14,467.52
73 BLM	BLM	1,870.05
78 BLM	BLM	4,730.74
82 BLM	BLM	1,520.81
83 BLM	BLM	1,602.11
85 BLM	BLM	4,371.31
86 BLM	BLM	6,475.76
89 BLM	BLM	2,416.77
91 BLM	BLM	5,198.41
94 BLM	BLM	608.9107194
95 BLM	BLM	7,737.88
100 BLM	BLM	1,616.77
102 BLM	BLM	1,617.84
104 BLM	BLM	8,461.64
105 BLM	BLM	1,617.74
106 BLM	BLM	4,838.88
107 BLM	BLM	8,032.30
108 BLM	BLM	3,208.03
109 BLM	BLM	14,494.22
113 BLM	BLM	2,639.17
114 BLM	BLM	3,403.86
115 BLM	BLM	1,413.62
117 BLM	BLM	3,234.31
118 BLM	BLM	38,242.17
119 BLM	BLM	1,605.08
120 BLM	BLM	1,616.07
122 BLM	BLM	4,369.92
125 BLM	BLM	10,700.25
126 BLM	BLM	1,117.92
127 BLM	BLM	9,680.23
128 BLM	BLM	2,416.16
129 BLM	BLM	6,519.08
130 BLM	BLM	6,921.22
131 BLM	BLM	839.8593873

132 BLM	BLM	2,122.66
133 BLM	BLM	1,609.23
135 BLM	BLM	5,161.07
136 BLM	BLM	1,609.87
137 BLM	BLM	2,423.38
140 BLM	BLM	1,606.06
141 BLM	BLM	1,691.54
142 BLM	BLM	3,921.90
143 BLM	BLM	3,217.97
144 BLM	BLM	7,316.48
145 BLM	BLM	1,609.33
146 BLM	BLM	1,623.49
148 BLM	BLM	1,617.12
149 BLM	BLM	3,244.46
150 BLM	BLM	5,643.17
151 BLM	BLM	5,621.98
152 BLM	BLM	718.597985
153 BLM	BLM	4,794.04
154 BLM	BLM	202.7108811
155 BLM	BLM	5,348.90
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157 BLM	BLM	2,416.59
158 BLM	BLM	3,204.97
159 BLM	BLM	7,262.00
163 BLM	BLM	1,612.08
164 BLM	BLM	1,614.48
165 BLM	BLM	4,043.98
166 BLM	BLM	1,614.18
167 BLM	BLM	2,410.82
168 BLM	BLM	1,611.15
171 BLM	BLM	4,091.99
172 BLM	BLM	5,625.59
175 BLM	BLM	476.158957
176 BLM	BLM	3,635.51
177 BLM	BLM	1,461.01
178 BLM	BLM	5,975.56
179 BLM	BLM	9,657.92
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189 BLM	BLM	1,616.35
191 BLM	BLM	1,609.49
194 BLM	BLM	10,472.44

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196 BLM	BLM	2,408.38
197 BLM	BLM	24,684.89
201 BLM	BLM	5,628.36
202 BLM	BLM	6,437.37
203 BLM	BLM	5,651.95
204 BLM	BLM	1,760.40
205 BLM	BLM	6,476.12
206 BLM	BLM	5,719.87
208 BLM	BLM	1,601.69
210 BLM	BLM	7,259.32
214 BLM	BLM	5,654.55
215 BLM	BLM	1,611.08
216 BLM	BLM	1,107.67
218 BLM	BLM	2,460.18
219 BLM	BLM	1,611.95
221 BLM	BLM	1,609.85
224 BLM	BLM	6,419.72
226 BLM	BLM	3,290.31
229 BLM	BLM	1,609.58
230 BLM	BLM	4,025.93
232 BLM	BLM	4,065.70
233 BLM	BLM	4,851.52
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241 BLM	BLM	2,278.43
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245 BLM	BLM	6,433.08
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256 BLM	BLM	2,412.20
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263 BLM	BLM	1,610.49
264 BLM	BLM	2,407.91
268 BLM	BLM	1,609.19
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271 BLM	BLM	2,411.73
272 BLM	BLM	47,223.60
275 BLM	BLM	1,612.65
277 BLM	BLM	4,053.27
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280 BLM	BLM	2,389.73
284 BLM	BLM	1,615.26

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314 BLM	BLM	1,868.38
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326 BLM	BLM	199.6354494
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328 BLM	BLM	1,610.93
329 BLM	BLM	21,725.28
330 BLM	BLM	3,223.67
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335 BLM	BLM	1,605.84
336 BLM	BLM	20,178.39
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340 BLM	BLM	1,245.22
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345 BLM	BLM	3,823.41
346 BLM	BLM	2,403.08
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349 BLM	BLM	1,640.46
353 BLM	BLM	1,629.69
355 BLM	BLM	1,610.55
356 BLM	BLM	3,217.83
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373 BLM	BLM	1,610.02
374 BLM	BLM	1,612.56
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381 BLM	BLM	304.5877213

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387 BLM	BLM	1,677.68
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391 BLM	BLM	2,407.23
392 BLM	BLM	1,615.79
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395 BLM	BLM	2,464.42
396 BLM	BLM	12,897.61
397 BLM	BLM	1,568.60
398 BLM	BLM	6,437.66
399 BLM	BLM	1,612.14
401 BLM	BLM	1,616.19
402 BLM	BLM	1,607.61
403 BLM	BLM	1,612.04
404 BLM	BLM	3,228.82
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452 BLM	BLM	1,611.41
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495 BLM	BLM	2,428.03

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540 BLM	BLM	7,282.42
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544 BLM	BLM	5,649.65
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547 BLM	BLM	1,592.88
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566 BLM	BLM	1,609.65
567 BLM	BLM	3,213.03
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572 BLM	BLM	4,736.60
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588 BLM	BLM	5,607.28
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621 BLM	BLM	1,618.19
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631 BLM	BLM	2,408.57
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663 BLM	BLM	4,029.75

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830 BLM	BLM	1,604.01
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840 BLM	BLM	7,350.11
842 BLM	BLM	4,068.62
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850 BLM	BLM	8,099.48
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893 BLM	BLM	1,640.94
898 BLM	BLM	1,625.41
910 BLM	BLM	1,313.91
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918 BLM	BLM	1,149.25
920 BLM	BLM	1,603.30
924 BLM	BLM	1,605.77
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943 BLM	BLM	1,609.59
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959 BLM	BLM	1,194.90
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985 BLM	BLM	290.9056075
986 BLM	BLM	601.7588449
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996 BLM	BLM	1,313.60
997 BLM	BLM	337.6012912
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1,001 BLM	BLM	4,941.34
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1,006 BLM	BLM	477.7503823
1,008 BLM	BLM	233.0782555
1,009 BLM	BLM	163.1645178
1,010 BLM	BLM	342.046116
1,011 BLM	BLM	467.2704261
1,012 BLM	BLM	1,469.69
1,013 BLM	BLM	222.628642
1,014 BLM	BLM	2,933.89
1,015 BLM	BLM	1,502.70

1,016 BLM	BLM	4,288.85
1,017 BLM	BLM	9,167.39
1,018 BLM	BLM	394.73727
1,019 BLM	BLM	871.0535482
1,020 BLM	BLM	1,835.29
1,021 BLM	BLM	2,166.60
1,023 BLM	BLM	1,366.39
1,024 BLM	BLM	276.392571
1,025 BLM	BLM	483.8734688
1,027 BLM	BLM	860.6613193
1,028 BLM	BLM	6,466.90
1,029 BLM	BLM	156.491422
1,032 BLM	BLM	39.25785623
1,033 BLM	BLM	1,846.75
1,034 BLM	BLM	148.8913499
1,036 BLM	BLM	387.3154776
1,038 BLM	BLM	241.2191241
1,039 BLM	BLM	176.4678017
1,040 BLM	BLM	44.69166612
1,041 BLM	BLM	241.7589068
1,042 BLM	BLM	364.890822
1,043 BLM	BLM	504.7930513
1,044 BLM	BLM	421.5624487
1,045 BLM	BLM	3,587.56
1,046 BLM	BLM	271.4754227
1,047 BLM	BLM	269.9983567
1,049 BLM	BLM	1,016.89
1,050 BLM	BLM	2,353.65
1,052 BLM	BLM	15,154.25
1,053 BLM	BLM	952.4960653
1,055 BLM	BLM	2,274.03
1,056 BLM	BLM	3,204.75
1,061 BLM	BLM	2,404.92
1,064 BLM	BLM	2,486.98
1,067 BLM	BLM	1,615.43
1,068 BLM	BLM	1,605.62
1,069 BLM	BLM	13,932.80
1,070 BLM	BLM	2,307.32
1,071 BLM	BLM	2,412.00
1,074 BLM	BLM	15,360.59
1,076 BLM	BLM	2,270.05
1,077 BLM	BLM	1,604.66
1,078 BLM	BLM	1,609.61
1,082 BLM	BLM	4,017.49
1,084 BLM	BLM	372.1772474
1,088 BLM	BLM	1,455.75
1,090 BLM	BLM	9,990.55

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1,094 BLM	BLM	4,013.20
1,095 BLM	BLM	1,602.64
1,104 BLM	BLM	36,083.40
1,105 BLM	BLM	1,604.00
1,107 BLM	BLM	4,011.71
1,109 BLM	BLM	728.8248671
1,110 BLM	BLM	4,141.86
1,111 BLM	BLM	1,608.76
1,113 BLM	BLM	3,490.24
1,114 BLM	BLM	2,416.19
1,117 BLM	BLM	3,237.88
1,119 BLM	BLM	3,211.05
1,120 BLM	BLM	330.7072499
1,121 BLM	BLM	8,851.95
1,122 BLM	BLM	8,829.99
1,123 BLM	BLM	1,614.90
1,126 BLM	BLM	2,221.85
1,128 BLM	BLM	4,024.56
1,129 BLM	BLM	564.488219
1,130 BLM	BLM	1,600.81
1,131 BLM	BLM	3,810.22
1,134 BLM	BLM	2,415.77
1,136 BLM	BLM	1,835.43
1,137 BLM	BLM	1,008.03
1,141 BLM	BLM	1,424.43
1,142 BLM	BLM	3,212.47
1,144 BLM	BLM	2,422.57
1,145 BLM	BLM	5,629.09
1,146 BLM	BLM	1,604.49
1,147 BLM	BLM	2,403.43
1,149 BLM	BLM	1,703.28
1,151 BLM	BLM	1,193.86
1,154 BLM	BLM	2,413.31
1,155 BLM	BLM	2,411.53
1,156 BLM	BLM	2,025.77
1,160 BLM	BLM	3,045.23
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1,167 BLM	BLM	4,920.72
1,168 BLM	BLM	1,441.58
1,169 BLM	BLM	4,323.42
1,170 BLM	BLM	1,346.70
1,171 BLM	BLM	2,419.56
1,173 BLM	BLM	587.1118409
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1,176 BLM	BLM	3,388.49
1,177 BLM	BLM	2,412.42

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1,181 BLM	BLM	5,615.29
1,183 BLM	BLM	771.1931043
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1,189 BLM	BLM	1,867.01
1,194 BLM	BLM	7,596.38
1,196 BLM	BLM	3,229.14
1,198 BLM	BLM	1,604.35
1,200 BLM	BLM	1,904.56
1,206 BLM	BLM	1,607.46
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1,215 BLM	BLM	5,643.70
1,217 BLM	BLM	296.7480678
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1,237 BLM	BLM	1,295.38
1,238 BLM	BLM	1,833.04
1,240 BLM	BLM	1,664.59
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1,244 BLM	BLM	844.9282949
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1,264 BLM	BLM	1,567.37
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1,269 BLM	BLM	506.742742
1,271 BLM	BLM	1,102.94



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1,282 BLM	BLM	312.7177427
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1,291 BLM	BLM	1,235.55
1,293 BLM	BLM	379.7210064
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1,296 BLM	BLM	2,414.45
1,303 BLM	BLM	201.3502728
1,304 BLM	BLM	112.2236014
1,305 BLM	BLM	169.4787796
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1,310 BLM	BLM	314.7126332
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1,317 BLM	BLM	262.8859145
1,318 BLM	BLM	1,615.69
1,319 BLM	BLM	728.9491374
1,323 BLM	BLM	8,776.43
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1,325 BLM	BLM	1,624.41
1,327 BLM	BLM	3,202.63
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1,371 BLM	BLM	21,650.22

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1,424 BLM	BLM	295.2020579
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1,453 BLM	BLM	2,526.40
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1,480 BLM	BLM	171.8883477
1,481 BLM	BLM	221.0342413
1,482 BLM	BLM	1,099.58

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1,488 BLM	BLM	9,779.23
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1,494 BLM	BLM	904.0007928
1,495 BLM	BLM	253.7266719
1,497 BLM	BLM	2,507.72
1,498 BLM	BLM	287.6358962
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1,506 BLM	BLM	696.016883
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1,508 BLM	BLM	563.3058685
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1,519 BLM	BLM	3,072.44
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1,539 BLM	BLM	1,361.11
1,542 BLM	BLM	20,919.40
1,545 BLM	BLM	450.7554423
1,546 BLM	BLM	2,220.25
1,548 BLM	BLM	381.777856
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1,551 BLM	BLM	109.6224399
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1,565 BLM	BLM	2,223.85
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1,572 BLM	BLM	7,200.02
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1,578 BLM	BLM	342.4946326
1,581 BLM	BLM	1,943.39
1,584 BLM	BLM	595.5113718
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1,592 BLM	BLM	598.4627291

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1,594 BLM	BLM	561.2322405
1,595 BLM	BLM	306.310057
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1,600 BLM	BLM	1,880.07
1,602 BLM	BLM	1,589.42
1,606 BLM	BLM	448.3894242
1,607 BLM	BLM	377.0232697
1,610 BLM	BLM	864.5627936
1,611 BLM	BLM	579.0867796
1,612 BLM	BLM	5,175.53
1,613 BLM	BLM	458.5890198
1,614 BLM	BLM	1,056.33
1,618 BLM	BLM	296.1043726
1,621 BLM	BLM	1,813.14
1,624 BLM	BLM	173.5492869
1,625 BLM	BLM	738.1805294
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1,627 BLM	BLM	2,528.77
1,628 BLM	BLM	271.1188093
1,629 BLM	BLM	419.6382434
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1,633 BLM	BLM	577.8521994
1,634 BLM	BLM	289.684856
1,636 BLM	BLM	606.783858
1,638 BLM	BLM	1,817.36
1,639 BLM	BLM	187.4167618
1,642 BLM	BLM	2,296.87
1,643 BLM	BLM	2,403.22
1,644 BLM	BLM	522.6739977
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1,651 BLM	BLM	242.8544233
1,655 BLM	BLM	3,171.03
1,658 BLM	BLM	1,614.95
1,662 BLM	BLM	8,645.77
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1,668 BLM	BLM	3,217.40
1,669 BLM	BLM	481.6555367
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1,671 BLM	BLM	1,812.02
1,673 BLM	BLM	1,624.35
1,678 BLM	BLM	133.1714294
1,681 BLM	BLM	3,059.29
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1,686 BLM	BLM	2,409.47
1,688 BLM	BLM	697.7494414
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1,690 BLM	BLM	976.3359529
1,691 BLM	BLM	999.6121644
1,696 BLM	BLM	1,103.67
1,721 BLM	BLM	791.9345018
1,724 BLM	BLM	1,015.27
1,728 BLM	BLM	1,128.34
1,730 BLM	BLM	3,470.04
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1,751 BLM	BLM	1,967.39
1,758 BLM	BLM	467.4641937
1,759 BLM	BLM	16,672.58
1,761 BLM	BLM	4,019.28
1,762 BLM	BLM	443.833444
1,772 BLM	BLM	3,266.08
1,773 BLM	BLM	3,514.06
1,774 BLM	BLM	804.4163478
1,776 BLM	BLM	193.3142548
1,778 BLM	BLM	593.0211474
1,782 BLM	BLM	428.662743
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1,786 BLM	BLM	376.1630036
1,787 BLM	BLM	414.0833962
1,796 BLM	BLM	2,412.43
1,802 BLM	BLM	2,408.16
1,804 BLM	BLM	1,605.43
1,807 BLM	BLM	14,900.03
1,814 BLM	BLM	1,596.15
1,828 BLM	BLM	1,610.67
1,829 BLM	BLM	141.271931
1,833 BLM	BLM	400.045184
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1,836 BLM	BLM	1,074.54
1,837 BLM	BLM	315.6928855
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1,851 BLM	BLM	499.5149009
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1,861 BLM	BLM	522.14834
1,863 BLM	BLM	1,248.85
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1,875 BLM	BLM	2,264.14
1,877 BLM	BLM	7,503.75

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1,884 BLM	BLM	3,816.45
1,914 BLM	BLM	2,183.00
1,946 BLM	BLM	108.4486307
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2,721 BLM	BLM	1,366,379.89
3,362 BLM	BLM	228.7401673
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4,538 Other Federal	BOR	1,095.81
4,539 Other Federal	BOR	910.6742177
4,540 Other Federal	BOR	1,434.78
4,541 Other Federal	BOR	1,399.21
4,542 Other Federal	BOR	289.4740283
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4,544 Other Federal	BOR	4,619.73
4,546 Other Federal	BOR	4,743.90
4,547 Other Federal	BOR	318.14877
4,548 Other Federal	BOR	1,267.28
4,550 Other Federal	BOR	2,423.24
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4,553 Other Federal	BOR	1,408.15
4,554 Other Federal	BOR	41.48240271
4,556 Other Federal	BOR	175.8927018
4,558 Other Federal	BOR	1,673.96
4,560 Other Federal	BOR	2,413.03
4,562 Other Federal	BOR	428.3687182
4,564 Other Federal	BOR	804.182013
4,566 Other Federal	BOR	2,722.21
4,569 Other Federal	BOR	2,410.60
4,571 Other Federal	BOR	3,246.14
4,576 Other Federal	BOR	2,414.31
4,578 Other Federal	BOR	2,120.65
4,580 Other Federal	BOR	792.3700014
4,583 Other Federal	BOR	1,829.71
4,603 Other Federal	BOR	1,607.47
4,607 Other Federal	BOR	534.6743202
4,618 Other Federal	BOR	1,609.60
4,621 Other Federal	BOR	1,611.85

4,623 Other Federal	BOR	2,411.41
4,632 Other Federal	BOR	1,907.90
4,634 Other Federal	BOR	464.5141789
4,660 Other Federal	BOR	957.9834923
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4,663 Other Federal	BOR	84,350.90
4,664 Other Federal	BOR	3,746.56
4,667 Other Federal	BOR	651.0791894
4,669 Other Federal	BOR	9,651.17
4,670 Other Federal	BOR	1,174.38
4,671 Other Federal	BOR	414.2818147
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4,674 Other Federal	BOR	355.6156097
4,675 Other Federal	BOR	978.33212
4,676 Other Federal	BOR	22,387.94
4,678 Other Federal	BOR	6,376.77
4,683 Other Federal	BOR	2,468.04
4,690 Other Federal	BOR	30.47997856
4,693 Other Federal	BOR	993.9236138
4,694 Other Federal	BOR	23,126.42
4,695 Other Federal	BOR	1,517.73
4,696 Other Federal	BOR	245.565763
4,697 Other Federal	BOR	30.48029909
4,973 Other Federal	DOE	1,612.12
4,977 HSTRCWTR	HSTRCWTR	11,157.17
4,978 HSTRCWTR	HSTRCWTR	2,796.62
4,979 HSTRCWTR	HSTRCWTR	1,523.34
4,982 HSTRCWTR	HSTRCWTR	13,463.12
4,983 HSTRCWTR	HSTRCWTR	12,764.40
4,984 HSTRCWTR	HSTRCWTR	25,517.96
4,985 HSTRCWTR	HSTRCWTR	110,388.66
4,986 HSTRCWTR	HSTRCWTR	27,021.03
4,987 HSTRCWTR	HSTRCWTR	20,331.53
4,988 HSTRCWTR	HSTRCWTR	45,104.43
4,990 HSTRCWTR	HSTRCWTR	372.4303903
4,992 HSTRCWTR	HSTRCWTR	56,404.75
4,993 HSTRCWTR	HSTRCWTR	8,038.87
4,994 HSTRCWTR	HSTRCWTR	13,805.13
4,995 HSTRCWTR	HSTRCWTR	952.3887753
4,996 HSTRCWTR	HSTRCWTR	249.4874907
4,997 HSTRCWTR	HSTRCWTR	3,948.77
4,998 HSTRCWTR	HSTRCWTR	816.1240171
4,999 HSTRCWTR	HSTRCWTR	5,309.33
5,000 HSTRCWTR	HSTRCWTR	763.4543372
5,001 HSTRCWTR	HSTRCWTR	1,786.61
5,003 HSTRCWTR	HSTRCWTR	60,972.84
5,004 HSTRCWTR	HSTRCWTR	61,531.14

5,006 HSTRCWTR	HSTRCWTR	6,027.54
5,007 HSTRCWTR	HSTRCWTR	888.2954812
5,008 HSTRCWTR	HSTRCWTR	1,381.30
5,009 HSTRCWTR	HSTRCWTR	678.4721632
5,010 HSTRCWTR	HSTRCWTR	476.2675105
5,011 HSTRCWTR	HSTRCWTR	1,198.65
5,012 HSTRCWTR	HSTRCWTR	383.3914085
5,013 HSTRCWTR	HSTRCWTR	266.887757
5,014 HSTRCWTR	HSTRCWTR	983.0514033
5,015 HSTRCWTR	HSTRCWTR	1,106.05
5,016 HSTRCWTR	HSTRCWTR	1,855.43
5,017 HSTRCWTR	HSTRCWTR	5,571.28
5,018 HSTRCWTR	HSTRCWTR	87.48380123
5,019 HSTRCWTR	HSTRCWTR	117.6230918
5,020 HSTRCWTR	HSTRCWTR	1,673.16
5,021 HSTRCWTR	HSTRCWTR	3,907.06
5,022 HSTRCWTR	HSTRCWTR	903.2335308
5,023 HSTRCWTR	HSTRCWTR	1,477.91
5,024 HSTRCWTR	HSTRCWTR	59,402.95
5,025 HSTRCWTR	HSTRCWTR	159.3403656
5,026 HSTRCWTR	HSTRCWTR	469.6800656
5,027 HSTRCWTR	HSTRCWTR	868.4791806
5,028 HSTRCWTR	HSTRCWTR	523.4819615
5,029 HSTRCWTR	HSTRCWTR	166.4650016
5,030 HSTRCWTR	HSTRCWTR	306.5299471
5,031 HSTRCWTR	HSTRCWTR	221.9947929
5,032 HSTRCWTR	HSTRCWTR	2,140.79
5,033 HSTRCWTR	HSTRCWTR	3,574.90
5,034 HSTRCWTR	HSTRCWTR	15,301.65
5,035 HSTRCWTR	HSTRCWTR	3,630.75
5,036 HSTRCWTR	HSTRCWTR	8,993.64
5,042 HSTRCWTR	HSTRCWTR	484.1358284
5,043 HSTRCWTR	HSTRCWTR	585.7913606
5,044 HSTRCWTR	HSTRCWTR	1,332.81
5,045 HSTRCWTR	HSTRCWTR	317.4499685
5,046 HSTRCWTR	HSTRCWTR	5,720.77
5,047 HSTRCWTR	HSTRCWTR	128.4114966
5,048 HSTRCWTR	HSTRCWTR	4,275.41
5,049 HSTRCWTR	HSTRCWTR	1,245.79
5,050 HSTRCWTR	HSTRCWTR	18,727.64
5,051 HSTRCWTR	HSTRCWTR	31,589.38
5,052 HSTRCWTR	HSTRCWTR	1,589.27
5,053 HSTRCWTR	HSTRCWTR	9,975.32
5,054 HSTRCWTR	HSTRCWTR	10,088.61
5,055 HSTRCWTR	HSTRCWTR	103,697.33
5,058 HSTRCWTR	HSTRCWTR	33,517.35
5,059 HSTRCWTR	HSTRCWTR	2,355.29



5,060 HSTRCWTR	HSTRCWTR	195.74949
5,061 HSTRCWTR	HSTRCWTR	60.84441227
5,062 HSTRCWTR	HSTRCWTR	122.0317123
5,063 HSTRCWTR	HSTRCWTR	43.47151886
5,064 HSTRCWTR	HSTRCWTR	31,883.09
5,065 HSTRCWTR	HSTRCWTR	1,481.02
5,066 HSTRCWTR	HSTRCWTR	154.9613283
5,067 HSTRCWTR	HSTRCWTR	135.7617594
5,068 HSTRCWTR	HSTRCWTR	115.332017
5,069 HSTRCWTR	HSTRCWTR	442.1655531
5,070 HSTRCWTR	HSTRCWTR	487.356062
5,071 HSTRCWTR	HSTRCWTR	146.0066442
5,072 HSTRCWTR	HSTRCWTR	14,314.06
5,073 HSTRCWTR	HSTRCWTR	224.8010371
5,074 HSTRCWTR	HSTRCWTR	91.36573972
5,075 HSTRCWTR	HSTRCWTR	384,888.92
5,076 HSTRCWTR	HSTRCWTR	188,011.26
5,077 HSTRCWTR	HSTRCWTR	46.97280082
5,078 HSTRCWTR	HSTRCWTR	17,696.44
5,079 HSTRCWTR	HSTRCWTR	25,021.36
5,080 HSTRCWTR	HSTRCWTR	3,460.80
5,081 HSTRCWTR	HSTRCWTR	873.6288312
5,082 HSTRCWTR	HSTRCWTR	156.7244125
5,083 HSTRCWTR	HSTRCWTR	16,033.84
5,084 HSTRCWTR	HSTRCWTR	10,450.36
5,085 HSTRCWTR	HSTRCWTR	6,568.03
5,086 HSTRCWTR	HSTRCWTR	15,323.90
5,087 HSTRCWTR	HSTRCWTR	1,332.99
5,088 HSTRCWTR	HSTRCWTR	10,427.73
5,089 HSTRCWTR	HSTRCWTR	2,966.54
5,090 HSTRCWTR	HSTRCWTR	643.4667889
5,091 HSTRCWTR	HSTRCWTR	10,983.72
5,092 HSTRCWTR	HSTRCWTR	2,796.50
5,093 HSTRCWTR	HSTRCWTR	9,076.69
5,094 HSTRCWTR	HSTRCWTR	653.4492944
5,095 HSTRCWTR	HSTRCWTR	2,247.42
5,096 HSTRCWTR	HSTRCWTR	2,044.28
5,098 HSTRCWTR	HSTRCWTR	1,422.90
5,100 HSTRCWTR	HSTRCWTR	408.9793949
5,108 HSTRCWTR	HSTRCWTR	14,703.71
5,109 HSTRCWTR	HSTRCWTR	6,636.83
5,110 HSTRCWTR	HSTRCWTR	399.6608081
5,111 HSTRCWTR	HSTRCWTR	99.4359862
5,112 HSTRCWTR	HSTRCWTR	41.84087118
5,113 HSTRCWTR	HSTRCWTR	2,380.12
5,114 HSTRCWTR	HSTRCWTR	406.9266665
5,279 IR	IR	52,690.50

5,280 IR	IR	9,590.05
5,281 IR	IR	2,019.28
5,282 IR	IR	44,932.52
5,283 IR	IR	2,013.38
5,284 IR	IR	137,389.25
5,285 IR	IR	4,511.61
5,286 IR	IR	2,553.36
5,287 IR	IR	2,425.05
5,288 IR	IR	10,308.42
5,289 IR	IR	1,227.07
5,291 IR	IR	2,025.47
5,292 IR	IR	3,912.00
5,293 IR	IR	3,635.14
5,294 IR	IR	2,620.39
5,295 IR	IR	2,327.42
5,296 IR	IR	866.7063607
5,297 IR	IR	3,221.30
5,298 IR	IR	8,858.25
5,299 IR	IR	5,218.60
5,300 IR	IR	2,342.56
5,301 IR	IR	16,357.52
5,302 IR	IR	3,221.24
5,303 IR	IR	2,417.25
5,304 IR	IR	2,398.36
5,305 IR	IR	1,904.11
5,306 IR	IR	604.6487919
5,307 IR	IR	1,655.79
5,309 IR	IR	1,228.78
5,310 IR	IR	3,218.77
5,311 IR	IR	4,012.58
5,312 IR	IR	2,040.33
5,313 IR	IR	7,219.88
5,314 IR	IR	3,263.73
5,315 IR	IR	1,212.45
5,316 IR	IR	1,218.45
5,317 IR	IR	1,824.44
5,318 IR	IR	1,011.39
5,320 IR	IR	1,210.63
5,321 IR	IR	1,221.34
5,322 IR	IR	1,204.60
5,323 IR	IR	1,209.69
5,324 IR	IR	2,211.57
5,325 IR	IR	796.4859065
5,326 IR	IR	2,422.99
5,327 IR	IR	2,813.94
5,328 IR	IR	1,601.28
5,329 IR	IR	5,251.39

5,330 IR	IR	2,425.79
5,331 IR	IR	2,448.33
5,332 IR	IR	799.3631487
5,333 IR	IR	3,214.90
5,334 IR	IR	1,210.63
5,335 IR	IR	1,605.64
5,336 IR	IR	1,626.41
5,337 IR	IR	1,213.33
5,338 IR	IR	1,222.08
5,339 IR	IR	59,965.75
5,340 IR	IR	1,199.03
5,341 IR	IR	1,607.86
5,342 IR	IR	800.9884528
5,343 IR	IR	2,423.63
5,344 IR	IR	800.14943
5,345 IR	IR	1,195.75
5,346 IR	IR	2,172.48
5,347 IR	IR	6,031.72
5,348 IR	IR	1,608.71
5,349 IR	IR	1,207.66
5,350 IR	IR	1,210.77
5,351 IR	IR	1,210.18
5,352 IR	IR	1,621.31
5,353 IR	IR	1,205.54
5,354 IR	IR	2,418.34
5,355 IR	IR	1,211.12
5,356 IR	IR	2,022.33
5,357 IR	IR	2,422.77
5,358 IR	IR	1,621.64
5,360 IR	IR	1,281.27
5,361 IR	IR	3,260.51
5,362 IR	IR	2,799.45
5,364 IR	IR	2,378.70
5,366 IR	IR	1,196.00
5,367 IR	IR	4,287.97
5,368 IR	IR	26,500.76
5,369 IR	IR	1,214.42
5,370 IR	IR	3,642.87
5,371 IR	IR	2,052.99
5,372 IR	IR	1,224.09
5,373 IR	IR	1,576.01
5,374 IR	IR	1,206.83
5,375 IR	IR	2,325.50
5,376 IR	IR	4,774.58
5,377 IR	IR	609.7329625
5,378 IR	IR	1,129.90
5,379 IR	IR	1,907.47

5,381 IR	IR	110,388.70
5,382 IR	IR	160.2420008
5,383 IR	IR	3,239.06
5,384 IR	IR	3,222.52
5,385 IR	IR	2,103.14
5,387 IR	IR	1,835.35
5,388 IR	IR	3,017.57
5,389 IR	IR	546.3884195
5,390 IR	IR	1,943.48
5,391 IR	IR	2,541.98
5,392 IR	IR	1,214.78
5,393 IR	IR	990.5766765
5,394 IR	IR	1,496.98
5,395 IR	IR	381.4349066
5,396 IR	IR	177.4352332
5,397 IR	IR	175.3564678
5,398 IR	IR	436.9971184
5,399 IR	IR	459.3265796
5,400 IR	IR	2,005.18
5,401 IR	IR	22.11706582
5,402 IR	IR	1,782.73
5,403 IR	IR	1,227.98
5,404 IR	IR	39.38472736
5,405 IR	IR	257.1846649
5,406 IR	IR	153,341.52
5,407 IR	IR	913.318316
5,408 IR	IR	1,212.85
5,409 IR	IR	2,918.66
5,410 IR	IR	407.9606821
5,411 IR	IR	109.1390078
5,412 IR	IR	1,076.91
5,413 IR	IR	840.4481882
5,414 IR	IR	328.9163206
5,415 IR	IR	7,713.33
5,417 IR	IR	13.29609766
5,418 IR	IR	25.76405978
5,419 IR	IR	3,270.03
5,420 IR	IR	103.4037259
5,421 IR	IR	40.58633747
5,422 IR	IR	220.190162
5,423 IR	IR	1,185.23
5,424 IR	IR	50.19631685
5,425 IR	IR	966.130224
5,426 IR	IR	1,001.71
5,427 IR	IR	1,607.20
5,428 IR	IR	1,609.32
5,429 IR	IR	2,052.07

5,430 IR	IR	1,816.66
5,431 IR	IR	991.9162355
5,432 IR	IR	1,137.53
5,433 IR	IR	19,751.14
5,436 BLM	LU_DOI	5,267.71
5,437 BLM	LU_DOI	785.3014339
5,438 BLM	LU_DOI	6,686.95
5,442 BLM	LU_DOI	5,611.53
5,445 BLM	LU_DOI	1,600.73
5,446 BLM	LU_DOI	26,125.89
5,447 BLM	LU_DOI	25,482.96
5,449 BLM	LU_DOI	4,764.56
5,450 BLM	LU_DOI	391.7149703
5,451 BLM	LU_DOI	9,285.93
5,453 BLM	LU_DOI	4,820.21
5,454 BLM	LU_DOI	25,449.37
5,455 BLM	LU_DOI	42,777.01
5,459 BLM	LU_DOI	5,949.39
5,460 BLM	LU_DOI	116.0490056
5,463 BLM	LU_DOI	1,998.93
5,469 BLM	LU_DOI	2,402.93
5,480 USFS	LU_USDA	4,255.85
5,481 USFS	LU_USDA	6,428.86
5,482 USFS	LU_USDA	3,238.07
5,483 USFS	LU_USDA	1,935.84
5,484 USFS	LU_USDA	5,838.01
5,485 USFS	LU_USDA	398.4835605
5,486 USFS	LU_USDA	5,868.52
5,487 USFS	LU_USDA	6,423.14
5,488 USFS	LU_USDA	10.49355267
5,489 USFS	LU_USDA	411.0005577
5,490 USFS	LU_USDA	3,486.21
5,491 USFS	LU_USDA	62.25920417
5,492 USFS	LU_USDA	38,425.70
5,493 USFS	LU_USDA	8,412.94
5,495 USFS	LU_USDA	3,220.73
5,498 USFS	LU_USDA	577.9573937
5,499 USFS	LU_USDA	2,256.12
5,500 USFS	LU_USDA	12,111.19
5,505 Other Federal	MIL	4,835.49
5,513 Other Federal	MIL	4,011.35
5,515 Other Federal	MIL	254.3898539
5,516 Other Federal	MIL	254.4689936
5,517 Other Federal	MIL	254.3958013
5,520 Other Federal	MIL	135,545.99
5,543 Other Federal	NPS	9,792.87
5,545 Other Federal	NPS	8,850.41

5,546 Other Federal	NPS	4,057.72
5,548 Other Federal	NPS	45,113.15
5,554 Other Federal	NPS	31,535.35
5,564 Other Federal	NWR	2,189.47
5,565 Other Federal	NWR	46,001.58
5,566 Other Federal	NWR	145.9828449
5,567 Other Federal	NWR	17,718.86
5,572 Other Federal	NWR	2,829.22
5,573 Other Federal	NWR	58,982.02
5,575 Other Federal	NWR	2,491.26
5,669 Other Federal	OTHER	3,232.16
5,670 Other Federal	OTHER	3,153.91
5,671 Other Federal	OTHER	1,565.39
5,672 Other Federal	OTHER	1,215.06
5,673 Other Federal	OTHER	1,602.40
5,674 Other Federal	OTHER	1,602.41
5,675 Other Federal	OTHER	9,711.27
5,676 Other Federal	OTHER	2,410.56
5,677 Other Federal	OTHER	7,219.20
5,678 Other Federal	OTHER	1,609.24
5,679 Other Federal	OTHER	2,413.28
5,680 Other Federal	OTHER	10,199.50
5,681 Other Federal	OTHER	1,420.52
5,682 Other Federal	OTHER	1,591.23
5,683 Other Federal	OTHER	1,444.62
5,684 Other Federal	OTHER	2,418.13
5,685 Other Federal	OTHER	1,297.93
5,686 Other Federal	OTHER	1,604.26
5,687 Other Federal	OTHER	48,542.48
5,688 Other Federal	OTHER	1,233.25
5,689 Other Federal	OTHER	806.447512
5,690 Other Federal	OTHER	1,468.05
5,691 Other Federal	OTHER	105,807.33
5,692 Other Federal	OTHER	3,259.67
5,694 Other Federal	OTHER	7,376.84
5,695 Other Federal	OTHER	987.3595821
5,696 Other Federal	OTHER	1,584.86
5,697 Other Federal	OTHER	1,198.47
5,698 Other Federal	OTHER	1,601.83
5,700 Other Federal	OTHER	2,050.75
5,701 Other Federal	OTHER	1,209.34
5,702 Other Federal	OTHER	2,014.44
5,705 Other Federal	OTHER	1,271.33
5,706 Other Federal	OTHER	5,378.91
5,707 Other Federal	OTHER	1,596.04
5,708 Other Federal	OTHER	3,197.98
5,709 Other Federal	OTHER	1,196.11

5,710 Other Federal	OTHER	5,453.95
5,711 Other Federal	OTHER	3,213.98
5,712 Other Federal	OTHER	8,004.43
5,713 Other Federal	OTHER	603.8406861
5,714 Other Federal	OTHER	3,228.54
5,715 Other Federal	OTHER	388.8522811
5,716 Other Federal	OTHER	197.6696596
5,717 Other Federal	OTHER	1,808.27
5,718 Other Federal	OTHER	340.03965
5,719 Other Federal	OTHER	205.6223131
5,720 Other Federal	OTHER	44.86566395
5,721 Other Federal	OTHER	282.301324
5,722 Other Federal	OTHER	159.3879021
5,723 Other Federal	OTHER	263.0005763
5,724 Other Federal	OTHER	269.7297343
5,725 Other Federal	OTHER	234.7168158
5,726 Other Federal	OTHER	193.8898461
5,727 Other Federal	OTHER	217.8725874
5,728 Other Federal	OTHER	607.33503
5,729 Other Federal	OTHER	176.7263685
5,730 Other Federal	OTHER	853,404.25
5,731 Other Federal	OTHER	50,997.38
5,732 Other Federal	OTHER	959.6111047
5,733 Other Federal	OTHER	1,180.37
5,745 Private	PRIVATE	2,179.37
5,746 Private	PRIVATE	23,194.80
5,749 Private	PRIVATE	3,525.69
5,750 Private	PRIVATE	1,282.43
5,752 Private	PRIVATE	3,230.54
5,753 Private	PRIVATE	18.33918662
5,766 Private	PRIVATE	4,087.16
5,768 Private	PRIVATE	1,024.81
5,775 Private	PRIVATE	1,754.99
5,776 Private	PRIVATE	5,713.15
5,791 Private	PRIVATE	1,145.88
5,794 Private	PRIVATE	6,440.68
5,797 Private	PRIVATE	4,807.06
5,798 Private	PRIVATE	6,439.73
5,799 Private	PRIVATE	3,965.86
5,800 Private	PRIVATE	3,691.84
5,801 Private	PRIVATE	4,834.46
5,803 Private	PRIVATE	3,212.60
5,804 Private	PRIVATE	1,615.41
5,805 Private	PRIVATE	67,014.95
5,808 Private	PRIVATE	4,058.77
5,809 Private	PRIVATE	2,979.19
5,813 Private	PRIVATE	10,521.00

5,818 Private	PRIVATE	1,409.14
5,821 Private	PRIVATE	4,201.32
5,826 Private	PRIVATE	3,800.02
5,830 Private	PRIVATE	4,014.30
5,833 Private	PRIVATE	6,306.37
5,834 Private	PRIVATE	1,911.85
5,835 Private	PRIVATE	3,178.21
5,837 Private	PRIVATE	68,043.96
5,861 Private	PRIVATE	101,045.23
5,863 Private	PRIVATE	6,445.00
5,872 Private	PRIVATE	1,592.54
5,885 Private	PRIVATE	10,499.37
5,892 Private	PRIVATE	3,213.27
5,904 Private	PRIVATE	6,439.57
5,906 Private	PRIVATE	12,894.40
5,915 Private	PRIVATE	6,036.03
5,918 Private	PRIVATE	701.6532807
5,919 Private	PRIVATE	366.6741152
5,922 Private	PRIVATE	1,612.33
5,927 Private	PRIVATE	2,418.05
5,932 Private	PRIVATE	51,888.83
5,937 Private	PRIVATE	8,048.38
5,938 Private	PRIVATE	4,053.65
5,939 Private	PRIVATE	9,685.05
5,942 Private	PRIVATE	25,761.54
5,943 Private	PRIVATE	22,235.59
5,945 Private	PRIVATE	6,479.89
5,949 Private	PRIVATE	5,104.50
5,965 Private	PRIVATE	8,069.99
5,972 Private	PRIVATE	44.77154247
5,977 Private	PRIVATE	3,632.21
6,001 Private	PRIVATE	1,350.86
6,003 Private	PRIVATE	10,478.16
6,004 Private	PRIVATE	10,448.70
6,007 Private	PRIVATE	4,027.53
6,010 Private	PRIVATE	3,817.78
6,016 Private	PRIVATE	8,041.92
6,025 Private	PRIVATE	1,607.11
6,031 Private	PRIVATE	2,419.44
6,033 Private	PRIVATE	6,461.14
6,034 Private	PRIVATE	2,001.87
6,035 Private	PRIVATE	1,610.15
6,041 Private	PRIVATE	3,383.99
6,043 Private	PRIVATE	2,399.43
6,048 Private	PRIVATE	4,015.96
6,049 Private	PRIVATE	65,221.02
6,052 Private	PRIVATE	2,423.58



6,054 Private	PRIVATE	4,014.88
6,065 Private	PRIVATE	925.3015295
6,068 Private	PRIVATE	4,017.53
6,072 Private	PRIVATE	2,418.04
6,073 Private	PRIVATE	1,607.58
6,074 Private	PRIVATE	15,109.03
6,076 Private	PRIVATE	15,980.06
6,079 Private	PRIVATE	4,772.44
6,080 Private	PRIVATE	2,415.69
6,084 Private	PRIVATE	2,396.25
6,085 Private	PRIVATE	4,025.90
6,086 Private	PRIVATE	4,028.75
6,087 Private	PRIVATE	3,224.30
6,088 Private	PRIVATE	2,424.63
6,093 Private	PRIVATE	3,369.80
6,094 Private	PRIVATE	11,312.13
6,096 Private	PRIVATE	10,037.70
6,097 Private	PRIVATE	8,541.03
6,099 Private	PRIVATE	22,401.41
6,103 Private	PRIVATE	2,405.71
6,106 Private	PRIVATE	14,459.59
6,134 Private	PRIVATE	9,667.76
6,146 Private	PRIVATE	2,188.38
6,167 Private	PRIVATE	3,213.38
6,187 Private	PRIVATE	7,034.63
6,208 Private	PRIVATE	6,463.45
6,213 Private	PRIVATE	8,015.86
6,219 Private	PRIVATE	602.6203412
6,304 Private	PRIVATE	2,396.65
6,328 Private	PRIVATE	4,832.32
6,407 Private	PRIVATE	6,454.41
6,415 Private	PRIVATE	4,649.74
6,418 Private	PRIVATE	5,605.89
6,419 Private	PRIVATE	1,598.91
6,420 Private	PRIVATE	1,618.79
6,426 Private	PRIVATE	3,208.80
6,431 Private	PRIVATE	8,449.83
6,432 Private	PRIVATE	4,023.83
6,436 Private	PRIVATE	517.7147093
6,444 Private	PRIVATE	1,600.67
6,445 Private	PRIVATE	4,561.02
6,446 Private	PRIVATE	1,668.54
6,451 Private	PRIVATE	2,740.64
6,454 Private	PRIVATE	1,173.51
6,456 Private	PRIVATE	2,734.48
6,460 Private	PRIVATE	6,438.23
6,465 Private	PRIVATE	15,297.30

6,467 Private	PRIVATE	4,029.28
6,469 Private	PRIVATE	1,608.36
6,471 Private	PRIVATE	9,445.75
6,472 Private	PRIVATE	15,252.63
6,476 Private	PRIVATE	4,371.23
6,488 Private	PRIVATE	1,215.79
6,531 Private	PRIVATE	4,003.39
6,535 Private	PRIVATE	27,591.39
6,541 Private	PRIVATE	54,281.97
6,542 Private	PRIVATE	8,315.41
6,549 Private	PRIVATE	18,791.23
6,551 Private	PRIVATE	1,277.92
6,554 Private	PRIVATE	7,353.85
6,555 Private	PRIVATE	1,006.48
6,557 Private	PRIVATE	4,035.03
6,558 Private	PRIVATE	570.2317406
6,559 Private	PRIVATE	625.8190145
6,560 Private	PRIVATE	3,666.19
6,561 Private	PRIVATE	4,868.51
6,562 Private	PRIVATE	2,041.47
6,563 Private	PRIVATE	1,275.66
6,566 Private	PRIVATE	2,425.96
6,567 Private	PRIVATE	2,412.72
6,569 Private	PRIVATE	805.9171792
6,570 Private	PRIVATE	4,826.33
6,573 Private	PRIVATE	33,986.85
6,575 Private	PRIVATE	6,179.72
6,576 Private	PRIVATE	378.4806171
6,582 Private	PRIVATE	6,428.96
6,587 Private	PRIVATE	700.1988578
6,588 Private	PRIVATE	611.3128417
6,590 Private	PRIVATE	1,892.68
6,596 Private	PRIVATE	1,202.11
6,597 Private	PRIVATE	4,024.66
6,606 Private	PRIVATE	34,554.12
6,607 Private	PRIVATE	227.5511522
6,608 Private	PRIVATE	268.7943313
6,609 Private	PRIVATE	268.8091252
6,610 Private	PRIVATE	268.7943705
6,611 Private	PRIVATE	268.812597
6,612 Private	PRIVATE	268.7918125
6,613 Private	PRIVATE	5,372.28
6,614 Private	PRIVATE	256.6893547
6,615 Private	PRIVATE	170.6759023
6,616 Private	PRIVATE	170.6760602
6,617 Private	PRIVATE	270.5289171
6,618 Private	PRIVATE	6,422.74

6,619 Private	PRIVATE	268.7968364
6,620 Private	PRIVATE	267.7276227
6,622 Private	PRIVATE	268.7963107
6,623 Private	PRIVATE	268.7968047
6,624 Private	PRIVATE	256.6741337
6,625 Private	PRIVATE	205.0820425
6,627 Private	PRIVATE	223.5953125
6,628 Private	PRIVATE	268.7452351
6,629 Private	PRIVATE	268.7974722
6,630 Private	PRIVATE	268.7977522
6,631 Private	PRIVATE	256.6746174
6,632 Private	PRIVATE	248.4476527
6,634 Private	PRIVATE	266.5352576
6,635 Private	PRIVATE	268.7529243
6,636 Private	PRIVATE	268.7988706
6,637 Private	PRIVATE	268.7990346
6,638 Private	PRIVATE	256.6526431
6,639 Private	PRIVATE	211.8460767
6,640 Private	PRIVATE	278.9575086
6,641 Private	PRIVATE	268.7871346
6,642 Private	PRIVATE	268.7997763
6,643 Private	PRIVATE	268.790248
6,644 Private	PRIVATE	268.8026903
6,645 Private	PRIVATE	256.6590415
6,646 Private	PRIVATE	231.3316789
6,647 Private	PRIVATE	252.279441
6,648 Private	PRIVATE	267.690205
6,649 Private	PRIVATE	268.7911765
6,650 Private	PRIVATE	268.7912485
6,651 Private	PRIVATE	267.6899317
6,652 Private	PRIVATE	268.7912046
6,653 Private	PRIVATE	267.7283951
6,654 Private	PRIVATE	207.7463598
6,655 Private	PRIVATE	267.7239713
6,656 Private	PRIVATE	256.6438479
6,657 Private	PRIVATE	229.8047334
6,658 Private	PRIVATE	237.4366922
6,659 Private	PRIVATE	267.7277496
6,660 Private	PRIVATE	268.9118903
6,661 Private	PRIVATE	268.8216797
6,662 Private	PRIVATE	267.7223959
6,663 Private	PRIVATE	268.7469797
6,665 Private	PRIVATE	267.6746936
6,666 Private	PRIVATE	267.672801
6,667 Private	PRIVATE	256.6368964
6,671 Private	PRIVATE	6,438.24
6,675 Private	PRIVATE	3,567.19

6,677 Private	PRIVATE	12,947.67
6,678 Private	PRIVATE	9,656.02
6,681 Private	PRIVATE	1,779.24
6,687 Private	PRIVATE	6,430.50
6,690 Private	PRIVATE	1,402.75
6,692 Private	PRIVATE	4,829.99
6,693 Private	PRIVATE	3,974,817.57
6,703 Private	PRIVATE	6,466.46
6,707 Private	PRIVATE	1,929.58
6,712 Private	PRIVATE	1,594.38
6,713 Private	PRIVATE	16,617.66
6,719 Private	PRIVATE	647.7812638
6,729 Private	PRIVATE	12,340.81
6,734 Private	PRIVATE	611.096377
6,737 Private	PRIVATE	537.7777541
6,742 Private	PRIVATE	9,184.68
6,744 Private	PRIVATE	13,366.29
6,746 Private	PRIVATE	6,427.75
6,747 Private	PRIVATE	2,601.51
6,749 Private	PRIVATE	464.8055951
6,752 Private	PRIVATE	2,785.75
6,755 Private	PRIVATE	44.36534303
6,757 Private	PRIVATE	140.3156506
6,761 Private	PRIVATE	106.4516419
6,762 Private	PRIVATE	2,273.55
6,763 Private	PRIVATE	863.2425763
6,764 Private	PRIVATE	5,835.75
6,766 Private	PRIVATE	920.4882225
6,771 Private	PRIVATE	66.00746573
6,772 Private	PRIVATE	4,695.67
6,783 Private	PRIVATE	258.3663818
6,784 Private	PRIVATE	259.0738552
6,785 Private	PRIVATE	258.4905205
6,786 Private	PRIVATE	259.0746709
6,787 Private	PRIVATE	259.222296
6,788 Private	PRIVATE	259.0809205
6,789 Private	PRIVATE	259.1829893
6,790 Private	PRIVATE	258.2597198
6,791 Private	PRIVATE	259.1951762
6,792 Private	PRIVATE	266.1221881
6,793 Private	PRIVATE	259.5282434
6,794 Private	PRIVATE	259.0655049
6,795 Private	PRIVATE	259.1483682
6,796 Private	PRIVATE	266.6930363
6,797 Private	PRIVATE	273.5055685
6,799 Private	PRIVATE	7,629.44
6,801 Private	PRIVATE	3,005.37

6,807 Private	PRIVATE	2,698.55
6,810 Private	PRIVATE	6,430.49
6,811 Private	PRIVATE	1,220.62
6,816 Private	PRIVATE	5,383.90
6,817 Private	PRIVATE	13,714.72
6,818 Private	PRIVATE	522.5597952
6,820 Private	PRIVATE	2,978.85
6,824 Private	PRIVATE	2,620.76
6,827 Private	PRIVATE	4,571.38
6,829 Private	PRIVATE	2,339.62
6,830 Private	PRIVATE	6,020.92
6,833 Private	PRIVATE	15,096.24
6,837 Private	PRIVATE	128,814.29
6,839 Private	PRIVATE	4,029.28
6,847 Private	PRIVATE	17,799.08
6,856 Private	PRIVATE	39,291.64
6,857 Private	PRIVATE	25,901.89
6,868 Private	PRIVATE	3,342.37
6,873 Private	PRIVATE	77,937.76
6,877 Private	PRIVATE	42.23412863
6,880 Private	PRIVATE	33,686.35
6,882 Private	PRIVATE	3,206.71
6,887 Private	PRIVATE	3,256.50
6,899 Private	PRIVATE	6,811.06
6,904 Private	PRIVATE	24,997.32
6,905 Private	PRIVATE	1,319.95
6,906 Private	PRIVATE	4,488.62
6,909 Private	PRIVATE	3,686.54
6,910 Private	PRIVATE	1,608.66
6,912 Private	PRIVATE	12,829.66
6,915 Private	PRIVATE	3,884.52
6,921 Private	PRIVATE	2,247,901.32
6,924 Private	PRIVATE	14,380.02
6,926 Private	PRIVATE	3,228.39
6,940 Private	PRIVATE	86.09584774
6,941 Private	PRIVATE	62,539.77
6,948 Private	PRIVATE	51,598.68
6,951 Private	PRIVATE	24,456.05
6,956 Private	PRIVATE	3,597.39
6,957 Private	PRIVATE	10,540.52
6,958 Private	PRIVATE	2,022.67
6,962 Private	PRIVATE	7,435.06
6,963 Private	PRIVATE	3,718.66
6,969 Private	PRIVATE	4,584.35
6,970 Private	PRIVATE	3,288.45
6,972 Private	PRIVATE	3,604.64
6,983 Private	PRIVATE	102,205.27

7,004 Private	PRIVATE	39,101.37
7,009 Private	PRIVATE	7,023.35
7,016 Private	PRIVATE	5,370.88
7,021 Private	PRIVATE	710.5804144
7,027 Private	PRIVATE	266.2856965
7,036 Private	PRIVATE	1,495.37
7,046 Private	PRIVATE	843.0827618
7,053 Private	PRIVATE	3,831.80
7,055 Private	PRIVATE	2,048.78
7,056 Private	PRIVATE	12,112.36
7,057 Private	PRIVATE	875.9825268
7,058 Private	PRIVATE	2,465.49
7,059 Private	PRIVATE	3,476.62
7,062 Private	PRIVATE	1,105.04
7,065 Private	PRIVATE	2,617.07
7,066 Private	PRIVATE	2,400.81
7,069 Private	PRIVATE	3,971.89
7,071 Private	PRIVATE	4,016.77
7,078 Private	PRIVATE	1,187.55
7,079 Private	PRIVATE	9,245.06
7,085 Private	PRIVATE	7,410.82
7,101 Private	PRIVATE	754.2976272
7,107 Private	PRIVATE	11,986.41
7,110 Private	PRIVATE	1,378.89
7,116 Private	PRIVATE	645.9560314
7,121 Private	PRIVATE	875.0299179
7,122 Private	PRIVATE	1,651.56
7,150 Private	PRIVATE	4,015.47
7,159 Private	PRIVATE	132.5377564
7,186 Private	PRIVATE	166.2928888
7,191 Private	PRIVATE	445.2723541
7,196 Private	PRIVATE	3,347.52
7,199 Private	PRIVATE	384.52327
7,200 Private	PRIVATE	256.3107499
7,203 Private	PRIVATE	12,068.70
7,216 Private	PRIVATE	548.2667497
7,276 Private	PRIVATE	500.588927
7,284 Private	PRIVATE	114,300.72
7,327 Private	PRIVATE	113.9649753
7,399 Private	PRIVATE	509.8116761
7,418 Private	PRIVATE	1,018,345.07
8,004 Private	PRIVATE	427,293.78
10,802 State	STATE	10,179.74
10,803 State	STATE	52.68510256
10,804 State	STATE	2,433.10
10,807 State	STATE	503.7568257
10,809 State	STATE	4,401.26

10,810 State	STATE	822.453332
10,811 State	STATE	1,806.99
10,812 State	STATE	1,623.56
10,813 State	STATE	750.3540139
10,814 State	STATE	575.6572525
10,817 State	STATE	1,221.32
10,819 State	STATE	4,847.76
10,820 State	STATE	6,476.75
10,821 State	STATE	464.1261897
10,822 State	STATE	733.9800618
10,824 State	STATE	7,256.40
10,825 State	STATE	4,761.27
10,826 State	STATE	5,272.36
10,829 State	STATE	348.6819184
10,831 State	STATE	5,367.06
10,834 State	STATE	6,442.52
10,836 State	STATE	6,448.27
10,837 State	STATE	1,616.84
10,838 State	STATE	395.6084854
10,839 State	STATE	262.9938962
10,841 State	STATE	5,644.44
10,842 State	STATE	19,378.45
10,843 State	STATE	4,804.55
10,845 State	STATE	1,609.57
10,846 State	STATE	6,485.10
10,847 State	STATE	6,405.16
10,848 State	STATE	1,237.87
10,849 State	STATE	2,617.82
10,852 State	STATE	4,039.14
10,853 State	STATE	434.6959756
10,855 State	STATE	5,632.47
10,857 State	STATE	4,014.21
10,858 State	STATE	313.5558852
10,859 State	STATE	7,506.67
10,860 State	STATE	1,374.34
10,862 State	STATE	6,385.27
10,863 State	STATE	4,825.13
10,865 State	STATE	3,426.12
10,866 State	STATE	3,205.55
10,869 State	STATE	6,675.88
10,874 State	STATE	1,162.13
10,876 State	STATE	6,093.24
10,877 State	STATE	4,534.98
10,878 State	STATE	16,781.50
10,879 State	STATE	2,424.50
10,882 State	STATE	4,812.02
10,883 State	STATE	3,687.02

10,885 State	STATE	4,502.95
10,889 State	STATE	6,416.52
10,890 State	STATE	6,381.22
10,891 State	STATE	55.32940168
10,893 State	STATE	974.1638669
10,894 State	STATE	3,924.46
10,905 State	STATE	4,862.40
10,906 State	STATE	6,387.87
10,909 State	STATE	6,434.07
10,913 State	STATE	6,423.11
10,916 State	STATE	4,808.29
10,922 State	STATE	6,433.26
10,925 State	STATE	17,158.71
10,927 State	STATE	1,611.50
10,928 State	STATE	28,105.14
10,930 State	STATE	6,409.52
10,935 State	STATE	6,554.30
10,945 State	STATE	6,438.64
10,954 State	STATE	4,033.12
10,956 State	STATE	1,199.54
10,959 State	STATE	9,732.86
10,963 State	STATE	5,489.41
10,967 State	STATE	495.6472646
10,969 State	STATE	2,423.16
10,970 State	STATE	3,929.51
10,972 State	STATE	6,468.12
10,978 State	STATE	1,455.21
10,982 State	STATE	6,700.39
10,990 State	STATE	6,427.39
10,991 State	STATE	18,419.67
10,997 State	STATE	6,456.68
10,999 State	STATE	6,447.47
11,000 State	STATE	6,441.95
11,005 State	STATE	4,573.41
11,007 State	STATE	2,490.69
11,013 State	STATE	6,489.38
11,014 State	STATE	4,802.23
11,015 State	STATE	6,436.77
11,018 State	STATE	150,500.18
11,019 State	STATE	91.71318894
11,021 State	STATE	229.1967185
11,022 State	STATE	321.2926818
11,024 State	STATE	229.3961635
11,025 State	STATE	290.8492122
11,026 State	STATE	1,938.09
11,027 State	STATE	6,430.13
11,030 State	STATE	1,603.31



11,031 State	STATE	6,430.53
11,033 State	STATE	1,610.42
11,035 State	STATE	5,025.70
11,040 State	STATE	5,289.47
11,041 State	STATE	3,216.42
11,042 State	STATE	1,716.92
11,048 State	STATE	6,444.72
11,049 State	STATE	3,231.44
11,050 State	STATE	6,410.88
11,051 State	STATE	6,431.82
11,052 State	STATE	3,219.18
11,053 State	STATE	4,027.88
11,054 State	STATE	6,445.93
11,061 State	STATE	600.6049266
11,062 State	STATE	4,516.33
11,063 State	STATE	552.7106504
11,064 State	STATE	1,282.20
11,065 State	STATE	6,441.16
11,066 State	STATE	415.3577946
11,073 State	STATE	7,224.61
11,074 State	STATE	4,837.98
11,075 State	STATE	4,386.07
11,076 State	STATE	6,443.43
11,077 State	STATE	3,571.38
11,078 State	STATE	2,370.40
11,079 State	STATE	392.3626792
11,080 State	STATE	6,454.63
11,085 State	STATE	5,637.04
11,087 State	STATE	3,792.78
11,088 State	STATE	8,005.20
11,089 State	STATE	6,447.00
11,092 State	STATE	4,378.62
11,096 State	STATE	6,644.26
11,098 State	STATE	728.1913715
11,099 State	STATE	802.2839448
11,100 State	STATE	19,533.33
11,107 State	STATE	942.3289782
11,108 State	STATE	6,365.60
11,109 State	STATE	3,209.06
11,112 State	STATE	6,435.18
11,113 State	STATE	40,296.66
11,116 State	STATE	6,342.69
11,120 State	STATE	910.1640909
11,123 State	STATE	2,539.57
11,124 State	STATE	3,428.56
11,125 State	STATE	1,089.71
11,127 State	STATE	953.1170384

11,128 State	STATE	9,667.92
11,131 State	STATE	374.4111084
11,135 State	STATE	1,519.40
11,136 State	STATE	6,434.71
11,138 State	STATE	6,437.13
11,139 State	STATE	6,459.31
11,141 State	STATE	1,612.71
11,142 State	STATE	3,222.12
11,144 State	STATE	830.5409832
11,149 State	STATE	6,428.93
11,150 State	STATE	6,462.00
11,152 State	STATE	1,208.01
11,153 State	STATE	840.257234
11,154 State	STATE	6,439.49
11,155 State	STATE	4,403.09
11,156 State	STATE	495.1815421
11,158 State	STATE	1,282.30
11,160 State	STATE	6,460.17
11,163 State	STATE	2,233.34
11,164 State	STATE	15,339.18
11,165 State	STATE	925.1351523
11,166 State	STATE	1,611.05
11,172 State	STATE	1,095.72
11,173 State	STATE	31,762.41
11,174 State	STATE	604.7628477
11,176 State	STATE	797.937804
11,177 State	STATE	932.0574157
11,178 State	STATE	630.8279384
11,181 State	STATE	4,450.48
11,186 State	STATE	1,091.53
11,187 State	STATE	842.8628857
11,189 State	STATE	6,432.80
11,190 State	STATE	4,037.57
11,191 State	STATE	6,478.79
11,192 State	STATE	3,158.10
11,193 State	STATE	6,414.09
11,194 State	STATE	7,699.54
11,196 State	STATE	1,581.26
11,197 State	STATE	1,606.58
11,199 State	STATE	1,510.84
11,200 State	STATE	6,437.88
11,204 State	STATE	6,454.21
11,205 State	STATE	595.5301327
11,207 State	STATE	1,619.08
11,208 State	STATE	5,519.32
11,210 State	STATE	985.5382353
11,212 State	STATE	6,439.08

11,213 State	STATE	1,608.14
11,214 State	STATE	30,355.84
11,219 State	STATE	8,070.40
11,220 State	STATE	1,842.92
11,221 State	STATE	474.3577559
11,223 State	STATE	2,420.51
11,226 State	STATE	1,378.09
11,228 State	STATE	2,459.94
11,229 State	STATE	1,451.96
11,232 State	STATE	2,169.84
11,233 State	STATE	3,224.67
11,236 State	STATE	6,442.66
11,237 State	STATE	4,045.58
11,239 State	STATE	1,468.88
11,241 State	STATE	6,427.12
11,242 State	STATE	6,521.78
11,247 State	STATE	3,262.75
11,248 State	STATE	6,359.23
11,250 State	STATE	6,428.02
11,251 State	STATE	1,610.51
11,252 State	STATE	4,016.77
11,253 State	STATE	2,404.34
11,255 State	STATE	6,430.11
11,257 State	STATE	1,267.19
11,258 State	STATE	23,335.70
11,259 State	STATE	2,469.43
11,260 State	STATE	900.7396864
11,261 State	STATE	6,424.67
11,265 State	STATE	16,071.72
11,267 State	STATE	1,838.77
11,268 State	STATE	1,605.86
11,269 State	STATE	1,605.29
11,270 State	STATE	4,822.52
11,271 State	STATE	12,869.69
11,275 State	STATE	6,454.91
11,281 State	STATE	42.78653686
11,286 State	STATE	3,219.00
11,287 State	STATE	6,222.82
11,289 State	STATE	6,440.50
11,292 State	STATE	855.3334977
11,293 State	STATE	2,173.75
11,297 State	STATE	6,363.20
11,302 State	STATE	5,021.14
11,307 State	STATE	1,600.82
11,308 State	STATE	6,449.48
11,309 State	STATE	1,252.62
11,315 State	STATE	548.3455993

11,319 State	STATE	816.4997805
11,320 State	STATE	532.2933871
11,322 State	STATE	6,463.04
11,324 State	STATE	806.458376
11,330 State	STATE	133.9751204
11,331 State	STATE	134.2677114
11,332 State	STATE	140.2639181
11,334 State	STATE	3,888.52
11,336 State	STATE	6,433.81
11,343 State	STATE	1,471.25
11,344 State	STATE	1,538.55
11,349 State	STATE	1,005.04
11,351 State	STATE	811.6548919
11,356 State	STATE	309.170028
11,364 State	STATE	6,439.07
11,369 State	STATE	148,104.24
11,370 State	STATE	5,970.68
11,371 State	STATE	5,608.12
11,374 State	STATE	1,119.01
11,376 State	STATE	3,201.52
11,377 State	STATE	859.7706617
11,381 State	STATE	506.3165901
11,383 State	STATE	508.492322
11,386 State	STATE	6,435.30
11,387 State	STATE	6,439.85
11,393 State	STATE	429.4379606
11,395 State	STATE	407.7590189
11,396 State	STATE	633.1317436
11,398 State	STATE	679.3108515
11,401 State	STATE	4,563.58
11,402 State	STATE	6,393.83
11,412 State	STATE	6,393.10
11,414 State	STATE	3,290.14
11,420 State	STATE	1,966.79
11,425 State	STATE	562.3710792
11,430 State	STATE	597.1185096
11,431 State	STATE	1,128.02
11,432 State	STATE	6,433.37
11,442 State	STATE	13,646.59
11,446 State	STATE	6,447.31
11,447 State	STATE	6,437.49
11,459 State	STATE	134.5313235
11,461 State	STATE	663.871638
11,463 State	STATE	5,193.19
11,468 State	STATE	31,597.45
11,472 State	STATE	394.9944456
11,474 State	STATE	692.5323248

11,477 State	STATE	6,439.68
11,479 State	STATE	6,444.04
11,484 State	STATE	7,229.35
11,488 State	STATE	1,609.25
11,494 State	STATE	3,222.53
11,495 State	STATE	6,434.03
11,496 State	STATE	6,439.55
11,498 State	STATE	6,472.00
11,501 State	STATE	1,611.62
11,510 State	STATE	6,432.84
11,511 State	STATE	6,431.61
11,514 State	STATE	1,606.81
11,517 State	STATE	1,171.96
11,519 State	STATE	3,410.42
11,526 State	STATE	1,609.10
11,529 State	STATE	2,418.64
11,532 State	STATE	6,432.26
11,533 State	STATE	6,423.48
11,547 State	STATE	6,438.02
11,554 State	STATE	162.7626255
11,555 State	STATE	1,707.12
11,556 State	STATE	67.78058977
11,557 State	STATE	199.9951911
11,560 State	STATE	159.5375247
11,562 State	STATE	31,579.34
11,564 State	STATE	6,439.30
11,565 State	STATE	6,454.88
11,570 State	STATE	17,467.39
11,573 State	STATE	9,633.34
11,577 State	STATE	2,414.17
11,578 State	STATE	4,787.57
11,579 State	STATE	6,427.63
11,587 State	STATE	6,454.19
11,590 State	STATE	137.7584757
11,595 State	STATE	7,509.58
11,598 State	STATE	6,450.58
11,599 State	STATE	6,437.83
11,609 State	STATE	6,448.03
11,614 State	STATE	70,569.66
11,624 State	STATE	6,440.59
11,625 State	STATE	1,193.09
11,626 State	STATE	101,582.28
11,627 State	STATE	6,360.65
11,628 State	STATE	4,815.30
11,635 State	STATE	6,407.36
11,637 State	STATE	7,204.92
11,638 State	STATE	6,426.77

11,644 State	STATE	1,528.70
11,649 State	STATE	6,457.82
11,655 State	STATE	2,543.06
11,658 State	STATE	6,451.20
11,663 State	STATE	2,562.86
11,664 State	STATE	816.9790412
11,669 State	STATE	4,826.94
11,673 State	STATE	6,437.67
11,680 State	STATE	6,094.78
11,682 State	STATE	6,445.59
11,692 State	STATE	6,437.99
11,693 State	STATE	6,440.99
11,707 State	STATE	4,914.04
11,710 State	STATE	2,432.43
11,711 State	STATE	784.5821054
11,712 State	STATE	3,451.23
11,713 State	STATE	1,268.55
11,725 State	STATE	6,452.61
11,736 State	STATE	6,519.79
11,737 State	STATE	1,653.54
11,741 State	STATE	1,574.25
11,745 State	STATE	898.8765653
11,747 State	STATE	2,475.88
11,749 State	STATE	1,605.99
11,750 State	STATE	26,808.18
11,757 State	STATE	249.4664599
11,761 State	STATE	16,237.62
11,767 State	STATE	767.4639891
11,777 State	STATE	9,665.23
11,778 State	STATE	2,492.57
11,781 State	STATE	6,396.24
11,785 State	STATE	529.4831932
11,786 State	STATE	4,861.78
11,789 State	STATE	545.8655577
11,790 State	STATE	4,098.56
11,791 State	STATE	2,127.05
11,792 State	STATE	1,626.95
11,794 State	STATE	4,043.15
11,795 State	STATE	2,180.58
11,796 State	STATE	2,374.77
11,798 State	STATE	1,107.75
11,803 State	STATE	2,003.50
11,804 State	STATE	58.32488882
11,809 State	STATE	6,328.31
11,817 State	STATE	398.613965
11,818 State	STATE	547.8287853
11,819 State	STATE	553.3297936

11,825 State	STATE	1,711.53
11,832 State	STATE	1,395.13
11,834 State	STATE	5,739.73
11,838 State	STATE	1,213.65
11,840 State	STATE	640.2563268
11,849 State	STATE	277.939007
11,853 State	STATE	4,360.94
11,873 State	STATE	858.8369199
11,885 State	STATE	1,799.22
11,892 State	STATE	1,149.29
11,907 State	STATE	983.3507357
11,914 State	STATE	573.1344914
11,919 State	STATE	1,434.81
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2,927 BLM	BLM	379.2997314
2,928 BLM	BLM	209.0090925

2,929 BLM	BLM	583.5301098
2,930 BLM	BLM	19,779.07
2,931 BLM	BLM	8,128.27
2,935 BLM	BLM	875.8335404
2,936 BLM	BLM	1,489.05
2,937 BLM	BLM	986.2819328
2,938 BLM	BLM	1,608.91
2,939 BLM	BLM	9,623.88
2,940 BLM	BLM	4,298.56
2,941 BLM	BLM	875.1462787
2,942 BLM	BLM	2,400.59
2,943 BLM	BLM	19,867.06
2,944 BLM	BLM	4,057.35
2,945 BLM	BLM	1,587.53
2,946 BLM	BLM	1,609.16
2,947 BLM	BLM	4,841.07
2,948 BLM	BLM	1,605.33
2,950 BLM	BLM	5,992.10
2,952 BLM	BLM	2,415.27
2,953 BLM	BLM	1,618.03
2,954 BLM	BLM	5,640.87
2,955 BLM	BLM	5,614.27
2,957 BLM	BLM	1,455.53
2,958 BLM	BLM	14,873.92
2,959 BLM	BLM	1,448.02
2,961 BLM	BLM	1,506.63
2,962 BLM	BLM	3,227.97
2,965 BLM	BLM	2,338.36
2,966 BLM	BLM	2,268.00
2,967 BLM	BLM	1,599.18
2,968 BLM	BLM	12,703.10
2,969 BLM	BLM	78.34378558
2,970 BLM	BLM	2,412.87
2,971 BLM	BLM	2,241.79
2,972 BLM	BLM	1,597.89
2,973 BLM	BLM	2,418.49
2,974 BLM	BLM	3,994.00
2,976 BLM	BLM	684.1028445
2,977 BLM	BLM	967.4372511
2,980 BLM	BLM	4,026.21
2,981 BLM	BLM	1,598.54
2,982 BLM	BLM	5,249.30
2,985 BLM	BLM	2,419.75
2,986 BLM	BLM	6,636.98
2,987 BLM	BLM	1,052.48
2,988 BLM	BLM	327.0762129
2,989 BLM	BLM	1,602.32

2,992 BLM	BLM	1,599.14
2,993 BLM	BLM	23,276.86
2,994 BLM	BLM	1,600.79
2,995 BLM	BLM	9,409.37
2,996 BLM	BLM	55.44369076
2,997 BLM	BLM	11,939.87
2,998 BLM	BLM	6,015.23
2,999 BLM	BLM	5,600.47
3,000 BLM	BLM	824.9898862
3,003 BLM	BLM	1,612.57
3,005 BLM	BLM	2,423.77
3,007 BLM	BLM	1,608.56
3,008 BLM	BLM	1,597.59
3,010 BLM	BLM	2,837.85
3,011 BLM	BLM	3,814.97
3,012 BLM	BLM	26,301.29
3,013 BLM	BLM	243,501.92
3,015 BLM	BLM	1,578.95
3,017 BLM	BLM	2,266.71
3,018 BLM	BLM	18,132.85
3,019 BLM	BLM	1,598.32
3,020 BLM	BLM	1,608.15
3,022 BLM	BLM	2,417.53
3,023 BLM	BLM	4,828.56
3,024 BLM	BLM	1,604.39
3,027 BLM	BLM	1,607.92
3,028 BLM	BLM	3,026.14
3,030 BLM	BLM	1,607.65
3,032 BLM	BLM	6,515.81
3,034 BLM	BLM	5,677.29
3,035 BLM	BLM	2,363.71
3,036 BLM	BLM	939.5038565
3,040 BLM	BLM	2,410.96
3,042 BLM	BLM	1,611.50
3,043 BLM	BLM	1,604.54
3,044 BLM	BLM	93.47007091
3,045 BLM	BLM	1,001.00
3,046 BLM	BLM	103.0662259
3,047 BLM	BLM	1,853.21
3,048 BLM	BLM	106.9101003
3,050 BLM	BLM	3,995.15
3,054 BLM	BLM	1,592.86
3,055 BLM	BLM	3,356.94
3,057 BLM	BLM	15,953.61
3,058 BLM	BLM	2,935.67
3,062 BLM	BLM	11,183.32
3,066 BLM	BLM	2,151.43

3,068 BLM	BLM	1,745.08
3,069 BLM	BLM	1,610.88
3,071 BLM	BLM	831.1576134
3,072 BLM	BLM	4,800.32
3,073 BLM	BLM	507.557486
3,075 BLM	BLM	7,832.17
3,077 BLM	BLM	21,792.35
3,081 BLM	BLM	2,399.82
3,082 BLM	BLM	2,045.68
3,083 BLM	BLM	50,659.38
3,084 BLM	BLM	782.194586
3,087 BLM	BLM	1,564.06
3,088 BLM	BLM	2,394.84
3,089 BLM	BLM	7,711.81
3,092 BLM	BLM	5,632.28
3,094 BLM	BLM	7,958.64
3,101 BLM	BLM	714.6860328
3,102 BLM	BLM	14,951.04
3,103 BLM	BLM	3,425.07
3,105 BLM	BLM	11,954.84
3,109 BLM	BLM	1,510.73
3,111 BLM	BLM	35.2893894
3,112 BLM	BLM	331.613959
3,114 BLM	BLM	18,166.64
3,116 BLM	BLM	1,600.75
3,120 BLM	BLM	2,902.06
3,121 BLM	BLM	19,275.40
3,122 BLM	BLM	1,599.23
3,126 BLM	BLM	3,215.48
3,129 BLM	BLM	4,534.91
3,130 BLM	BLM	2,405.34
3,132 BLM	BLM	1,607.80
3,133 BLM	BLM	3,054.95
3,136 BLM	BLM	1,595.38
3,137 BLM	BLM	1,608.63
3,138 BLM	BLM	1,587.01
3,139 BLM	BLM	2,291.78
3,140 BLM	BLM	1,611.03
3,142 BLM	BLM	3,079.00
3,143 BLM	BLM	10,617.42
3,145 BLM	BLM	1,609.63
3,147 BLM	BLM	3,204.12
3,149 BLM	BLM	3,966.40
3,150 BLM	BLM	492.0249487
3,152 BLM	BLM	1,586.49
3,153 BLM	BLM	3,354.55
3,158 BLM	BLM	1,590.05

3,159 BLM	BLM	130,603.46
3,160 BLM	BLM	31,806.05
3,162 BLM	BLM	3,170.23
3,163 BLM	BLM	1,213.70
3,164 BLM	BLM	3,483.39
3,166 BLM	BLM	1,984.79
3,168 BLM	BLM	8,886.21
3,169 BLM	BLM	3,205.18
3,172 BLM	BLM	2,396.13
3,180 BLM	BLM	3,211.47
3,182 BLM	BLM	23,503.79
3,183 BLM	BLM	2,150.08
3,185 BLM	BLM	1,052.85
3,187 BLM	BLM	1,607.00
3,188 BLM	BLM	1,601.34
3,190 BLM	BLM	3,997.91
3,193 BLM	BLM	1,594.15
3,195 BLM	BLM	10,448.64
3,196 BLM	BLM	1,608.25
3,197 BLM	BLM	10,938.81
3,199 BLM	BLM	3,995.32
3,200 BLM	BLM	1,605.35
3,202 BLM	BLM	1,565.70
3,205 BLM	BLM	968.611714
3,207 BLM	BLM	3,234.32
3,208 BLM	BLM	1,886.87
3,211 BLM	BLM	1,249.12
3,213 BLM	BLM	1,034.85
3,217 BLM	BLM	6,444.54
3,222 BLM	BLM	1,607.91
3,227 BLM	BLM	1,659.41
3,228 BLM	BLM	2,413.32
3,237 BLM	BLM	1,191.70
3,243 BLM	BLM	1,837.78
3,246 BLM	BLM	2,435.08
3,253 BLM	BLM	1,605.92
3,254 BLM	BLM	2,421.07
3,259 BLM	BLM	1,298.10
3,260 BLM	BLM	1,745.33
3,261 BLM	BLM	4,150.39
3,262 BLM	BLM	2,116.35
3,264 BLM	BLM	35.97933598
3,272 BLM	BLM	1,135.36
3,282 BLM	BLM	2,938.48
3,284 BLM	BLM	3,010.68
3,288 BLM	BLM	2,113.99
3,294 BLM	BLM	1,823.89

3,298 BLM	BLM	1,247.69
3,299 BLM	BLM	619.4378016
3,303 BLM	BLM	1,683.16
3,304 BLM	BLM	9,155.14
3,308 BLM	BLM	1,605.34
3,309 BLM	BLM	200.3886511
3,311 BLM	BLM	306.4867596
3,317 BLM	BLM	1,162.30
3,318 BLM	BLM	2,224.85
3,320 BLM	BLM	3,119.47
3,333 BLM	BLM	1,892.06
3,339 BLM	BLM	496.1054408
3,341 BLM	BLM	1,547.39
3,342 BLM	BLM	900.9301195
3,354 BLM	BLM	93,905.67
3,362 BLM	BLM	791,599.66
3,367 BLM	BLM	1,656.78
3,374 BLM	BLM	1,561.69
3,376 BLM	BLM	1,034.35
3,397 BLM	BLM	4,121.62
3,424 BLM	BLM	1,615.73
3,432 BLM	BLM	32,232.82
3,462 BLM	BLM	11,611.76
3,468 BLM	BLM	78,104.60
3,472 BLM	BLM	18,059.10
3,476 BLM	BLM	3,087.23
3,480 BLM	BLM	1,284.94
3,490 BLM	BLM	1,232.98
3,494 BLM	BLM	944.5942227
3,495 BLM	BLM	1,609.38
3,501 BLM	BLM	2,021.19
3,508 BLM	BLM	1,608.03
3,519 BLM	BLM	2,424.42
3,520 BLM	BLM	671.4720983
3,523 BLM	BLM	2,407.56
3,524 BLM	BLM	1,703.41
3,538 BLM	BLM	5,624.78
3,541 BLM	BLM	9,675.06
3,546 BLM	BLM	49,876.26
3,547 BLM	BLM	1,609.86
3,548 BLM	BLM	19,542.45
3,549 BLM	BLM	4,840.59
3,554 BLM	BLM	1,234.29
3,557 BLM	BLM	2,512.68
3,558 BLM	BLM	63,312.79
3,562 BLM	BLM	4,005.73
3,563 BLM	BLM	180,368.75

3,564 BLM	BLM	5,615.04
3,565 BLM	BLM	2,418.61
3,566 BLM	BLM	4,014.50
3,567 BLM	BLM	9,577.95
3,569 BLM	BLM	21,200.27
3,576 BLM	BLM	290.3614916
3,596 BLM	BLM	1,601.42
3,599 BLM	BLM	2,410.90
3,606 BLM	BLM	1,621.51
3,608 BLM	BLM	1,279.68
3,611 BLM	BLM	2,411.47
3,616 BLM	BLM	475.7034016
3,617 BLM	BLM	1,608.81
3,619 BLM	BLM	7,236.40
3,629 BLM	BLM	2,410.50
3,631 BLM	BLM	511.1161488
3,637 BLM	BLM	1,680.18
3,640 BLM	BLM	1,673.17
3,641 BLM	BLM	2,412.04
3,642 BLM	BLM	2,159.21
3,643 BLM	BLM	126.6052096
3,648 BLM	BLM	1,486.14
3,649 BLM	BLM	8,970.82
3,650 BLM	BLM	2,477.46
3,652 BLM	BLM	678.7515017
3,659 BLM	BLM	1,639.95
3,661 BLM	BLM	5,437.23
3,662 BLM	BLM	536.9161404
3,663 BLM	BLM	976.8470558
3,664 BLM	BLM	2,409.27
3,665 BLM	BLM	34,205.48
3,666 BLM	BLM	623.4839821
3,667 BLM	BLM	200.3243026
3,668 BLM	BLM	618.9426034
3,670 BLM	BLM	1,264.08
3,671 BLM	BLM	795.5416595
3,676 BLM	BLM	4,189.50
3,677 BLM	BLM	1,608.55
3,680 BLM	BLM	5,635.05
3,682 BLM	BLM	1,726.69
3,683 BLM	BLM	48,596.07
3,684 BLM	BLM	1,204.60
3,686 BLM	BLM	1,561.42
3,687 BLM	BLM	2,418.14
3,689 BLM	BLM	12,927.70
3,690 BLM	BLM	3,212.38
3,691 BLM	BLM	1,289.87

3,693 BLM	BLM	498.1528541
3,697 BLM	BLM	2,411.12
3,701 BLM	BLM	1,599.91
3,703 BLM	BLM	3,213.67
3,704 BLM	BLM	1,100.68
3,705 BLM	BLM	2,405.27
3,708 BLM	BLM	1,597.22
3,711 BLM	BLM	1,477.59
3,715 BLM	BLM	18,533.94
3,716 BLM	BLM	5,595.05
3,718 BLM	BLM	4,490.79
3,724 BLM	BLM	78,453.44
3,725 BLM	BLM	1,610.99
3,727 BLM	BLM	1,601.09
3,731 BLM	BLM	1,620.83
3,732 BLM	BLM	7,186.49
3,733 BLM	BLM	204.4693757
3,735 BLM	BLM	1,581.76
3,736 BLM	BLM	1,235.06
3,737 BLM	BLM	3,146.76
3,738 BLM	BLM	2,446.64
3,739 BLM	BLM	1,321.27
3,740 BLM	BLM	1,603.80
3,741 BLM	BLM	4,825.59
3,743 BLM	BLM	16,108.19
3,745 BLM	BLM	3,815.20
3,746 BLM	BLM	5,523.03
3,748 BLM	BLM	1,603.50
3,749 BLM	BLM	5,075.97
3,751 BLM	BLM	3,210.25
3,753 BLM	BLM	5,839.92
3,754 BLM	BLM	4,876.67
3,757 BLM	BLM	1,608.28
3,760 BLM	BLM	619.5895906
3,761 BLM	BLM	3,217.96
3,762 BLM	BLM	4,442.33
3,763 BLM	BLM	2,428.69
3,766 BLM	BLM	7,260.65
3,769 BLM	BLM	16,969.43
3,773 BLM	BLM	5,632.31
3,786 BLM	BLM	2,417.73
3,787 BLM	BLM	19,314.47
3,788 BLM	BLM	1,607.58
3,791 BLM	BLM	6,223.57
3,794 BLM	BLM	11,283.88
3,795 BLM	BLM	10,467.71
3,801 BLM	BLM	1,214.77



3,812 BLM	BLM	331,404.03
3,818 BLM	BLM	1,762.30
3,824 BLM	BLM	1,045.25
3,825 BLM	BLM	4,875.35
3,826 BLM	BLM	803.136216
3,827 BLM	BLM	1,019.35
3,832 BLM	BLM	5,008.58
3,851 BLM	BLM	12,341.78
3,852 BLM	BLM	19,391.82
3,870 BLM	BLM	5,625.54
3,871 BLM	BLM	8,424.81
3,874 BLM	BLM	88,336.43
3,875 BLM	BLM	23,999.75
3,877 BLM	BLM	1,612.74
3,878 BLM	BLM	10,464.89
3,880 BLM	BLM	498.8772419
3,882 BLM	BLM	1,691.55
3,884 BLM	BLM	1,114.73
3,892 BLM	BLM	2,416.61
3,893 BLM	BLM	4,304.22
3,910 BLM	BLM	20,561.84
3,914 BLM	BLM	2,408.81
3,930 BLM	BLM	19,058.93
4,704 Other Federal	BOR	3,960.73
4,709 Other Federal	BOR	1,537.32
4,710 Other Federal	BOR	5,298.53
4,711 Other Federal	BOR	11,241.43
4,712 Other Federal	BOR	2,376.80
4,713 Other Federal	BOR	631.0409803
4,714 Other Federal	BOR	3,215.47
4,716 Other Federal	BOR	16,010.41
4,717 Other Federal	BOR	3,221.66
4,720 Other Federal	BOR	14,452.49
4,721 Other Federal	BOR	3,219.88
4,722 Other Federal	BOR	2,418.24
4,723 Other Federal	BOR	4,836.04
4,724 Other Federal	BOR	3,211.36
4,725 Other Federal	BOR	3,222.30
4,726 Other Federal	BOR	2,427.67
4,727 Other Federal	BOR	1,048.15
4,728 Other Federal	BOR	1,253.15
4,729 Other Federal	BOR	5,629.73
4,730 Other Federal	BOR	2,422.25
4,732 Other Federal	BOR	2,420.02
4,737 Other Federal	BOR	4,820.51
4,739 Other Federal	BOR	3,222.26
4,740 Other Federal	BOR	1,049.75

4,741 Other Federal	BOR	3,225.12
4,742 Other Federal	BOR	8,056.87
4,743 Other Federal	BOR	3,211.28
4,744 Other Federal	BOR	5,602.39
4,745 Other Federal	BOR	642.772712
4,746 Other Federal	BOR	822.6457756
4,747 Other Federal	BOR	1,600.35
4,748 Other Federal	BOR	3,224.32
4,749 Other Federal	BOR	2,410.41
4,750 Other Federal	BOR	1,606.17
4,751 Other Federal	BOR	1,607.55
4,752 Other Federal	BOR	1,602.69
4,753 Other Federal	BOR	4,403.78
4,754 Other Federal	BOR	2,400.19
4,755 Other Federal	BOR	1,067.74
4,756 Other Federal	BOR	1,589.11
4,758 Other Federal	BOR	1,604.20
4,759 Other Federal	BOR	1,603.34
4,760 Other Federal	BOR	3,164.99
4,761 Other Federal	BOR	11,178.81
4,762 Other Federal	BOR	8,733.63
4,763 Other Federal	BOR	3,323.44
4,764 Other Federal	BOR	4,795.84
4,765 Other Federal	BOR	981.2932755
4,766 Other Federal	BOR	2,406.26
4,767 Other Federal	BOR	3,169.63
4,768 Other Federal	BOR	3,207.88
4,769 Other Federal	BOR	11,543.50
4,770 Other Federal	BOR	1,613.05
4,771 Other Federal	BOR	2,402.10
4,772 Other Federal	BOR	2,394.86
4,773 Other Federal	BOR	12,411.64
4,774 Other Federal	BOR	1,321.97
4,775 Other Federal	BOR	1,240.42
4,776 Other Federal	BOR	1,657.58
4,777 Other Federal	BOR	1,607.53
4,778 Other Federal	BOR	46,403.24
4,779 Other Federal	BOR	1,607.58
4,780 Other Federal	BOR	354.1932554
4,781 Other Federal	BOR	1,618.78
4,782 Other Federal	BOR	6,727.63
4,783 Other Federal	BOR	1,863.07
4,785 Other Federal	BOR	4,282.41
4,787 Other Federal	BOR	10,515.47
4,790 Other Federal	BOR	2,515.97
4,792 Other Federal	BOR	10,888.34
4,794 Other Federal	BOR	2,413.79

4,795 Other Federal	BOR	1,411.74
4,798 Other Federal	BOR	308.3224235
4,801 Other Federal	BOR	446.7614987
4,804 Other Federal	BOR	2,402.78
4,805 Other Federal	BOR	1,611.08
4,806 Other Federal	BOR	8,097.22
4,807 Other Federal	BOR	2,748.90
4,809 Other Federal	BOR	7,060.88
4,810 Other Federal	BOR	506.2901844
4,811 Other Federal	BOR	806.5810098
4,812 Other Federal	BOR	2,433.28
4,813 Other Federal	BOR	1,612.32
4,814 Other Federal	BOR	1,623.06
4,816 Other Federal	BOR	1,614.23
4,817 Other Federal	BOR	577.8407032
4,818 Other Federal	BOR	158.4344262
4,819 Other Federal	BOR	307.106893
4,821 Other Federal	BOR	530.9982905
4,822 Other Federal	BOR	1,612.54
4,823 Other Federal	BOR	3,025.46
4,824 Other Federal	BOR	1,874.67
4,826 Other Federal	BOR	1,715.56
4,828 Other Federal	BOR	2,427.19
4,829 Other Federal	BOR	806.7849747
4,830 Other Federal	BOR	3,228.13
4,831 Other Federal	BOR	1,405.27
4,833 Other Federal	BOR	13,389.41
4,836 Other Federal	BOR	7,252.93
4,838 Other Federal	BOR	13,068.45
4,839 Other Federal	BOR	2,950.58
4,840 Other Federal	BOR	417.1376034
4,842 Other Federal	BOR	1,184.72
4,843 Other Federal	BOR	605.7191605
4,844 Other Federal	BOR	1,203.58
4,845 Other Federal	BOR	1,461.93
4,847 Other Federal	BOR	213.8463723
4,848 Other Federal	BOR	1,565.75
4,849 Other Federal	BOR	817.5129082
4,850 Other Federal	BOR	1,281.17
4,851 Other Federal	BOR	1,610.04
4,852 Other Federal	BOR	3,216.99
4,853 Other Federal	BOR	2,391.33
4,854 Other Federal	BOR	1,183.11
4,855 Other Federal	BOR	803.8428114
4,856 Other Federal	BOR	803.6824698
4,857 Other Federal	BOR	1,610.60
4,858 Other Federal	BOR	1,209.37

4,859 Other Federal	BOR	1,205.49
4,860 Other Federal	BOR	1,005.02
4,861 Other Federal	BOR	554.1610114
4,862 Other Federal	BOR	53.33204309
4,863 Other Federal	BOR	164.7691417
4,864 Other Federal	BOR	662.5604742
4,865 Other Federal	BOR	1,958.92
4,866 Other Federal	BOR	3,214.41
4,867 Other Federal	BOR	1,008.52
4,868 Other Federal	BOR	1,209.60
4,869 Other Federal	BOR	798.0206204
4,870 Other Federal	BOR	805.7298008
4,871 Other Federal	BOR	1,006.02
4,872 Other Federal	BOR	2,417.58
4,873 Other Federal	BOR	303.6361165
4,874 Other Federal	BOR	1,602.50
4,875 Other Federal	BOR	2,273.57
4,876 Other Federal	BOR	519.6165893
4,877 Other Federal	BOR	12,927.15
4,878 Other Federal	BOR	1,494.53
4,879 Other Federal	BOR	2,636.19
4,880 Other Federal	BOR	1,638.64
4,881 Other Federal	BOR	6,781.77
4,882 Other Federal	BOR	9,055.83
4,883 Other Federal	BOR	2,415.68
4,884 Other Federal	BOR	12,444.13
4,885 Other Federal	BOR	3,344.08
4,886 Other Federal	BOR	1,210.42
4,887 Other Federal	BOR	1,699.33
4,888 Other Federal	BOR	431.013152
4,889 Other Federal	BOR	298.4908396
4,890 Other Federal	BOR	166.3496207
4,891 Other Federal	BOR	3,587.34
4,892 Other Federal	BOR	804.2591868
4,893 Other Federal	BOR	504.7476621
4,894 Other Federal	BOR	2,567.89
4,895 Other Federal	BOR	3,690.68
4,896 Other Federal	BOR	3,126.02
4,897 Other Federal	BOR	14,771.59
4,898 Other Federal	BOR	3,207.55
4,899 Other Federal	BOR	2,446.55
4,900 Other Federal	BOR	12,382.69
4,901 Other Federal	BOR	11,613.46
4,902 Other Federal	BOR	4,007.17
4,903 Other Federal	BOR	12,619.67
4,904 Other Federal	BOR	1,470.54
4,905 Other Federal	BOR	1,583.96

4,906 Other Federal	BOR	1,597.50
4,907 Other Federal	BOR	1,596.33
4,908 Other Federal	BOR	4,297.17
4,909 Other Federal	BOR	581.2792272
4,911 Other Federal	BOR	683.8648623
4,912 Other Federal	BOR	697.1452704
4,913 Other Federal	BOR	406.6945333
4,914 Other Federal	BOR	1,132.85
4,915 Other Federal	BOR	874.8620077
4,916 Other Federal	BOR	1,603.55
4,918 Other Federal	BOR	921.5131823
4,920 Other Federal	BOR	28,938.80
4,921 Other Federal	BOR	403.7904436
4,922 Other Federal	BOR	2,231.36
4,923 Other Federal	BOR	557.1095712
4,924 Other Federal	BOR	4,038.92
4,925 Other Federal	BOR	3,753.24
4,927 Other Federal	BOR	20,857.34
4,928 Other Federal	BOR	6,178.73
4,929 Other Federal	BOR	6,528.20
4,930 Other Federal	BOR	3,207.93
4,931 Other Federal	BOR	1,686.31
4,932 Other Federal	BOR	1,070.29
4,933 Other Federal	BOR	1,211.65
4,934 Other Federal	BOR	6,283.35
4,935 Other Federal	BOR	19,154.52
4,936 Other Federal	BOR	2,055.77
4,937 Other Federal	BOR	1,256.66
4,938 Other Federal	BOR	418.5737925
4,940 Other Federal	BOR	7,026.11
4,942 Other Federal	BOR	1,117.27
4,943 Other Federal	BOR	6,058.49
4,944 Other Federal	BOR	2,299.61
4,945 Other Federal	BOR	5,732.10
4,946 Other Federal	BOR	1,335.83
4,947 Other Federal	BOR	1,521.22
4,948 Other Federal	BOR	1,207.60
4,949 Other Federal	BOR	1,686.76
4,950 Other Federal	BOR	1,769.88
4,951 Other Federal	BOR	2,357.02
4,952 Other Federal	BOR	177.3638666
4,953 Other Federal	BOR	109.4466208
4,954 Other Federal	BOR	92.55934658
4,976 Other Federal	DOE	35,619.59
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5,114 HSTRCWTR	HSTRCWTR	1,280.58
5,115 HSTRCWTR	HSTRCWTR	4,012.37

5,116	HSTRCWTR	HSTRCWTR	592.2263802
5,117	HSTRCWTR	HSTRCWTR	585.4001969
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5,119	HSTRCWTR	HSTRCWTR	483.8737255
5,120	HSTRCWTR	HSTRCWTR	485.9348102
5,121	HSTRCWTR	HSTRCWTR	1,212.63
5,122	HSTRCWTR	HSTRCWTR	367.0933747
5,123	HSTRCWTR	HSTRCWTR	557.1332937
5,124	HSTRCWTR	HSTRCWTR	396.6322351
5,125	HSTRCWTR	HSTRCWTR	3,420.48
5,126	HSTRCWTR	HSTRCWTR	4,022.80
5,127	HSTRCWTR	HSTRCWTR	430.0265613
5,128	HSTRCWTR	HSTRCWTR	554.7894447
5,129	HSTRCWTR	HSTRCWTR	621.4882229
5,130	HSTRCWTR	HSTRCWTR	826.6209158
5,131	HSTRCWTR	HSTRCWTR	4,972.05
5,132	HSTRCWTR	HSTRCWTR	436.3318458
5,133	HSTRCWTR	HSTRCWTR	291.1298368
5,134	HSTRCWTR	HSTRCWTR	355.9313747
5,135	HSTRCWTR	HSTRCWTR	1,121.73
5,136	HSTRCWTR	HSTRCWTR	1,764.48
5,137	HSTRCWTR	HSTRCWTR	1,484.49
5,138	HSTRCWTR	HSTRCWTR	536.9373084
5,139	HSTRCWTR	HSTRCWTR	1,011.98
5,140	HSTRCWTR	HSTRCWTR	8,636.33
5,141	HSTRCWTR	HSTRCWTR	487.2994606
5,142	HSTRCWTR	HSTRCWTR	4,064.73
5,143	HSTRCWTR	HSTRCWTR	96.82011282
5,144	HSTRCWTR	HSTRCWTR	6,730.17
5,145	HSTRCWTR	HSTRCWTR	2,635.09
5,146	HSTRCWTR	HSTRCWTR	21,007.56
5,147	HSTRCWTR	HSTRCWTR	93,050.87
5,148	HSTRCWTR	HSTRCWTR	682.3988691
5,149	HSTRCWTR	HSTRCWTR	1,980.92
5,150	HSTRCWTR	HSTRCWTR	117.8393246
5,151	HSTRCWTR	HSTRCWTR	533,910.15
5,152	HSTRCWTR	HSTRCWTR	262,601.01
5,153	HSTRCWTR	HSTRCWTR	6.03648034
5,154	HSTRCWTR	HSTRCWTR	6.599657506
5,155	HSTRCWTR	HSTRCWTR	180,522.87
5,156	HSTRCWTR	HSTRCWTR	730.4554048
5,157	HSTRCWTR	HSTRCWTR	13,239.26
5,158	HSTRCWTR	HSTRCWTR	5,123.30
5,159	HSTRCWTR	HSTRCWTR	133,554.08
5,161	HSTRCWTR	HSTRCWTR	3,969.63
5,162	HSTRCWTR	HSTRCWTR	2,421.08
5,163	HSTRCWTR	HSTRCWTR	2,133.83

5,164 HSTRCWTR	HSTRCWTR	1,272.10
5,165 HSTRCWTR	HSTRCWTR	9,154.01
5,166 HSTRCWTR	HSTRCWTR	870.9806245
5,167 HSTRCWTR	HSTRCWTR	877.1489745
5,168 HSTRCWTR	HSTRCWTR	983.285554
5,169 HSTRCWTR	HSTRCWTR	7,668.50
5,170 HSTRCWTR	HSTRCWTR	21,244.56
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5,174 HSTRCWTR	HSTRCWTR	647.5513413
5,175 HSTRCWTR	HSTRCWTR	1,133.63
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5,180 HSTRCWTR	HSTRCWTR	172,073.80
5,181 HSTRCWTR	HSTRCWTR	369.8933327
5,184 HSTRCWTR	HSTRCWTR	163,953.83
5,185 HSTRCWTR	HSTRCWTR	57.91179329
5,186 HSTRCWTR	HSTRCWTR	1,515.42
5,187 HSTRCWTR	HSTRCWTR	1,337.27
5,194 HSTRCWTR	HSTRCWTR	102,214.44
5,197 HSTRCWTR	HSTRCWTR	3,526.86
5,215 HSTRCWTR	HSTRCWTR	5,185.59
5,216 HSTRCWTR	HSTRCWTR	1,282.98
5,218 HSTRCWTR	HSTRCWTR	1,775.62
5,219 HSTRCWTR	HSTRCWTR	1,992.30
5,220 HSTRCWTR	HSTRCWTR	2,939.64
5,222 HSTRCWTR	HSTRCWTR	1,583.69
5,224 HSTRCWTR	HSTRCWTR	24.01709162
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5,227 HSTRCWTR	HSTRCWTR	765.2977784
5,230 HSTRCWTR	HSTRCWTR	1,765.74
5,231 HSTRCWTR	HSTRCWTR	288.365682
5,233 HSTRCWTR	HSTRCWTR	784.0487269
5,235 HSTRCWTR	HSTRCWTR	719.3976784
5,236 HSTRCWTR	HSTRCWTR	330,528.15
5,239 HSTRCWTR	HSTRCWTR	3,579.61
5,240 HSTRCWTR	HSTRCWTR	319,177.97
5,241 HSTRCWTR	HSTRCWTR	509.988576
5,243 HSTRCWTR	HSTRCWTR	2,611.00
5,245 HSTRCWTR	HSTRCWTR	3,704.92
5,246 HSTRCWTR	HSTRCWTR	356,593.96
5,247 HSTRCWTR	HSTRCWTR	61,290.84
5,248 HSTRCWTR	HSTRCWTR	28,532.70
5,249 HSTRCWTR	HSTRCWTR	7,344.38
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5,251 HSTRCWTR	HSTRCWTR	19,097.96
5,524 Other Federal	MIL	4,813.81
5,525 Other Federal	MIL	2,025.46
5,526 Other Federal	MIL	1,606.22

5,527 Other Federal	MIL	10,939.29
5,528 Other Federal	MIL	2,422.70
5,529 Other Federal	MIL	1,192.92
5,530 Other Federal	MIL	21,148.37
5,531 Other Federal	MIL	1,596.83
5,532 Other Federal	MIL	3,319.14
5,533 Other Federal	MIL	1,613.63
5,534 Other Federal	MIL	4,266.14
5,535 Other Federal	MIL	11,614.90
5,536 Other Federal	MIL	2,392.66
5,537 Other Federal	MIL	3,585.79
5,538 Other Federal	MIL	2,315.23
5,559 Other Federal	NPS	97,423.36
5,562 Other Federal	NPS	87,641.61
5,576 Other Federal	NWR	1,659.52
5,577 Other Federal	NWR	423.9302069
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5,579 Other Federal	NWR	345.5388272
5,581 Other Federal	NWR	6,493.56
5,582 Other Federal	NWR	155.0890189
5,583 Other Federal	NWR	29.13753208
5,584 Other Federal	NWR	1,095.36
5,585 Other Federal	NWR	313.8452393
5,587 Other Federal	NWR	738.4758079
5,588 Other Federal	NWR	693.2685783
5,589 Other Federal	NWR	204.8574699
5,591 Other Federal	NWR	425.5372782
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5,596 Other Federal	NWR	566.5448076
5,597 Other Federal	NWR	2,303.52
5,598 Other Federal	NWR	841.0117641
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5,600 Other Federal	NWR	1,719.25
5,602 Other Federal	NWR	937.7132107
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5,604 Other Federal	NWR	1,463.19
5,605 Other Federal	NWR	1,573.18
5,606 Other Federal	NWR	1,302.26
5,607 Other Federal	NWR	999.7650247
5,608 Other Federal	NWR	668.6156926
5,609 Other Federal	NWR	504.8350635
5,610 Other Federal	NWR	2,066.93
5,611 Other Federal	NWR	5,693.92
5,612 Other Federal	NWR	1,490.57
5,613 Other Federal	NWR	740.5033838
5,614 Other Federal	NWR	924.7657596



5,615 Other Federal	NWR	6,455.40
5,616 Other Federal	NWR	1,611.31
5,617 Other Federal	NWR	1,667.47
5,618 Other Federal	NWR	981.8669701
5,619 Other Federal	NWR	704.8907549
5,620 Other Federal	NWR	1,564.05
5,621 Other Federal	NWR	295.0079622
5,622 Other Federal	NWR	69.03104818
5,623 Other Federal	NWR	187.591606
5,624 Other Federal	NWR	832.2452656
5,626 Other Federal	NWR	487.2064277
5,628 Other Federal	NWR	636.5207082
5,629 Other Federal	NWR	917.7298877
5,630 Other Federal	NWR	1,242.36
5,631 Other Federal	NWR	421.5297589
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5,633 Other Federal	NWR	1,361.08
5,634 Other Federal	NWR	1,723.09
5,635 Other Federal	NWR	1,237.24
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5,638 Other Federal	NWR	461.0654707
5,639 Other Federal	NWR	1,182.59
5,640 Other Federal	NWR	893.0086659
5,641 Other Federal	NWR	878.2104427
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5,644 Other Federal	NWR	1,136.60
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5,656 Other Federal	NWR	644.9001736
5,657 Other Federal	NWR	721.9569259
5,658 Other Federal	NWR	12.54795843
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5,660 Other Federal	NWR	1,500.16
5,661 Other Federal	NWR	48.01847958
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5,735 Other Federal	OTHER	51.88642662
5,736 Other Federal	OTHER	1,622.06
5,739 Other Federal	OTHER	7,724.50
5,740 Other Federal	OTHER	16,021.38

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7,053 Private	PRIVATE	101.6918395
7,066 Private	PRIVATE	5,577.30
7,067 Private	PRIVATE	23,933.99
7,070 Private	PRIVATE	16,154.12
7,097 Private	PRIVATE	1,615.30
7,114 Private	PRIVATE	16,180.29
7,115 Private	PRIVATE	2,358.56
7,127 Private	PRIVATE	5,731.56
7,189 Private	PRIVATE	6,980.44
7,256 Private	PRIVATE	3,221.84
7,260 Private	PRIVATE	3,123.36
7,263 Private	PRIVATE	4,031.30
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7,283 Private	PRIVATE	30,039.73
7,284 Private	PRIVATE	44,327.60
7,296 Private	PRIVATE	2,663.62
7,299 Private	PRIVATE	378.0921
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7,316 Private	PRIVATE	3,811.25
7,328 Private	PRIVATE	4,037.67
7,331 Private	PRIVATE	993.9879776
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7,354 Private	PRIVATE	11,250.43
7,369 Private	PRIVATE	5,657.89
7,374 Private	PRIVATE	4,838.69
7,383 Private	PRIVATE	9,652.05
7,389 Private	PRIVATE	2,561.18
7,392 Private	PRIVATE	3,589.43
7,393 Private	PRIVATE	1,613.59
7,394 Private	PRIVATE	2,358.55
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7,397 Private	PRIVATE	1,606.45
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7,410 Private	PRIVATE	4,731.22
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7,415 Private	PRIVATE	1,587.27
7,417 Private	PRIVATE	1,281.92
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7,424 Private	PRIVATE	1,352.07
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7,451 Private	PRIVATE	453.2072375
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7,466 Private	PRIVATE	4,847.35
7,467 Private	PRIVATE	4,962.23
7,469 Private	PRIVATE	4,796.19
7,470 Private	PRIVATE	1,285.09
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7,503 Private	PRIVATE	1,281.79
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7,535 Private	PRIVATE	3,499.35
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7,619 Private	PRIVATE	194.9616371
7,620 Private	PRIVATE	225.4441106
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7,623 Private	PRIVATE	195.038907
7,624 Private	PRIVATE	1,253.40
7,625 Private	PRIVATE	194.9668252

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7,633 Private	PRIVATE	194.9663366
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7,635 Private	PRIVATE	194.9934039
7,636 Private	PRIVATE	225.4504422
7,637 Private	PRIVATE	225.4357115
7,638 Private	PRIVATE	194.9238843
7,639 Private	PRIVATE	194.9890629
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7,643 Private	PRIVATE	194.9651886
7,644 Private	PRIVATE	225.4319207
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7,647 Private	PRIVATE	194.988145
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7,649 Private	PRIVATE	194.9968243
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7,654 Private	PRIVATE	194.967716
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7,656 Private	PRIVATE	194.9912785
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7,658 Private	PRIVATE	225.4335623
7,659 Private	PRIVATE	194.9902731
7,660 Private	PRIVATE	225.4262835
7,661 Private	PRIVATE	194.9949291
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7,663 Private	PRIVATE	225.3917597
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7,676 Private	PRIVATE	194.9895967
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7,680 Private	PRIVATE	194.9894411
7,681 Private	PRIVATE	194.9909392
7,682 Private	PRIVATE	225.4324574
7,683 Private	PRIVATE	225.4299549
7,684 Private	PRIVATE	225.8317232
7,685 Private	PRIVATE	225.4357973
7,686 Private	PRIVATE	267.9852361
7,687 Private	PRIVATE	194.986351
7,688 Private	PRIVATE	194.9929601
7,689 Private	PRIVATE	225.4263293
7,690 Private	PRIVATE	225.4224216
7,691 Private	PRIVATE	194.9882867
7,692 Private	PRIVATE	194.9900526
7,693 Private	PRIVATE	225.4434142
7,694 Private	PRIVATE	225.4469555
7,695 Private	PRIVATE	194.9885398
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7,697 Private	PRIVATE	194.9898918
7,698 Private	PRIVATE	225.4316921
7,699 Private	PRIVATE	4,524.48
7,700 Private	PRIVATE	225.4299361
7,701 Private	PRIVATE	225.4423826
7,702 Private	PRIVATE	194.9911744
7,703 Private	PRIVATE	194.9811276
7,704 Private	PRIVATE	194.9891206
7,705 Private	PRIVATE	225.4244404
7,706 Private	PRIVATE	1,416.15
7,707 Private	PRIVATE	225.4845547
7,708 Private	PRIVATE	194.9833374
7,709 Private	PRIVATE	194.9861247
7,710 Private	PRIVATE	225.4466241
7,711 Private	PRIVATE	225.4428552
7,712 Private	PRIVATE	194.9834175
7,713 Private	PRIVATE	194.992357
7,714 Private	PRIVATE	194.9816119
7,715 Private	PRIVATE	225.4826934
7,716 Private	PRIVATE	225.4405648
7,717 Private	PRIVATE	225.4413247
7,718 Private	PRIVATE	194.9869693
7,719 Private	PRIVATE	194.9755211

7,720 Private	PRIVATE	194.9849126
7,721 Private	PRIVATE	225.4860253
7,722 Private	PRIVATE	194.9899953
7,723 Private	PRIVATE	194.9846931
7,724 Private	PRIVATE	225.4441574
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7,726 Private	PRIVATE	194.98247
7,727 Private	PRIVATE	194.9870151
7,728 Private	PRIVATE	195.0187413
7,729 Private	PRIVATE	225.4353763
7,730 Private	PRIVATE	225.4328586
7,731 Private	PRIVATE	194.9816646
7,732 Private	PRIVATE	195.0151506
7,733 Private	PRIVATE	199.7066216
7,734 Private	PRIVATE	194.9815279
7,735 Private	PRIVATE	195.0177556
7,736 Private	PRIVATE	225.4404182
7,737 Private	PRIVATE	225.4300098
7,738 Private	PRIVATE	195.0173912
7,739 Private	PRIVATE	194.9863904
7,740 Private	PRIVATE	225.4343531
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7,759 Private	PRIVATE	17,914.66
7,760 Private	PRIVATE	4,861.06
7,761 Private	PRIVATE	1,116.97
7,762 Private	PRIVATE	4,246.25
7,764 Private	PRIVATE	4,966.01
7,765 Private	PRIVATE	3,549.94
7,767 Private	PRIVATE	4,078.55
7,768 Private	PRIVATE	33,815.44
7,769 Private	PRIVATE	2,317.14



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7,771 Private	PRIVATE	1,646.20
7,773 Private	PRIVATE	3,963.49
7,774 Private	PRIVATE	2,485.20
7,775 Private	PRIVATE	6,372.23
7,776 Private	PRIVATE	10,587.40
7,777 Private	PRIVATE	64,354.06
7,783 Private	PRIVATE	4,674.58
7,784 Private	PRIVATE	4,072.11
7,785 Private	PRIVATE	3,727.39
7,786 Private	PRIVATE	387.3168584
7,787 Private	PRIVATE	8,103.33
7,788 Private	PRIVATE	12,955.34
7,789 Private	PRIVATE	2,414.70
7,790 Private	PRIVATE	1,772.60
7,793 Private	PRIVATE	382,050.35
7,795 Private	PRIVATE	146.5383044
7,796 Private	PRIVATE	92,644.43
7,797 Private	PRIVATE	805.3716792
7,798 Private	PRIVATE	4,206.49
7,799 Private	PRIVATE	399.6228931
7,801 Private	PRIVATE	13,418.63
7,802 Private	PRIVATE	16,156.48
7,807 Private	PRIVATE	8,893.47
7,808 Private	PRIVATE	5,630.89
7,809 Private	PRIVATE	2,698.54
7,810 Private	PRIVATE	5,702.18
7,813 Private	PRIVATE	3,675.29
7,815 Private	PRIVATE	6,855.91
7,821 Private	PRIVATE	2,195.76
7,824 Private	PRIVATE	11,189.52
7,825 Private	PRIVATE	8,835.35
7,829 Private	PRIVATE	995.3450897
7,830 Private	PRIVATE	17,664.33
7,831 Private	PRIVATE	591.3894568
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7,833 Private	PRIVATE	1,283.26
7,835 Private	PRIVATE	2,862.54
7,836 Private	PRIVATE	12,145.15
7,837 Private	PRIVATE	1,412.38
7,840 Private	PRIVATE	5,788.59
7,841 Private	PRIVATE	3,972.43
7,842 Private	PRIVATE	1,199.02
7,843 Private	PRIVATE	1,280.03
7,844 Private	PRIVATE	4,454.15
7,845 Private	PRIVATE	8,224.42
7,848 Private	PRIVATE	605.7661791

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7,850 Private	PRIVATE	28,571.42
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7,855 Private	PRIVATE	3,052.14
7,858 Private	PRIVATE	1,251.69
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7,862 Private	PRIVATE	5,372.33
7,863 Private	PRIVATE	2,189.12
7,864 Private	PRIVATE	2,215.87
7,866 Private	PRIVATE	7,336.01
7,867 Private	PRIVATE	829.7918859
7,869 Private	PRIVATE	1,216.34
7,870 Private	PRIVATE	1,277.85
7,871 Private	PRIVATE	6,457.74
7,872 Private	PRIVATE	10,073.44
7,873 Private	PRIVATE	1,998.79
7,876 Private	PRIVATE	1,832.89
7,877 Private	PRIVATE	1,279.40
7,878 Private	PRIVATE	2,846.86
7,879 Private	PRIVATE	1,524.69
7,883 Private	PRIVATE	1,429.90
7,884 Private	PRIVATE	5,972.97
7,885 Private	PRIVATE	1,964.20
7,886 Private	PRIVATE	1,597.20
7,888 Private	PRIVATE	574.774212
7,889 Private	PRIVATE	689.3785021
7,892 Private	PRIVATE	3,217.52
7,894 Private	PRIVATE	4,222.96
7,895 Private	PRIVATE	25.02053917
7,898 Private	PRIVATE	46,720.20
7,899 Private	PRIVATE	69.40462766
7,901 Private	PRIVATE	1,129.72
7,902 Private	PRIVATE	597.8314995
7,903 Private	PRIVATE	4,914.83
7,904 Private	PRIVATE	3,525.20
7,905 Private	PRIVATE	6,319.44
7,906 Private	PRIVATE	96.26202486
7,907 Private	PRIVATE	2,243.06
7,908 Private	PRIVATE	1,727.35
7,910 Private	PRIVATE	460.6999391
7,911 Private	PRIVATE	23.78963435
7,913 Private	PRIVATE	509.292676
7,914 Private	PRIVATE	0.028246773
7,915 Private	PRIVATE	364.9224305
7,916 Private	PRIVATE	19,736.34

7,918 Private	PRIVATE	1,114.30
7,919 Private	PRIVATE	575.2678216
7,920 Private	PRIVATE	379.483253
7,921 Private	PRIVATE	437.9563379
7,922 Private	PRIVATE	425.0133947
7,923 Private	PRIVATE	283.0263644
7,924 Private	PRIVATE	3,243.61
7,925 Private	PRIVATE	1,189.53
7,926 Private	PRIVATE	312.2296413
7,927 Private	PRIVATE	2,619.36
7,928 Private	PRIVATE	1,610.44
7,929 Private	PRIVATE	382.4209531
7,930 Private	PRIVATE	1,434.61
7,933 Private	PRIVATE	3,651.99
7,934 Private	PRIVATE	1,277.35
7,936 Private	PRIVATE	2,397.90
7,937 Private	PRIVATE	4,263.60
7,938 Private	PRIVATE	6,330.23
7,939 Private	PRIVATE	15,684.53
7,940 Private	PRIVATE	1,624.23
7,941 Private	PRIVATE	973.428667
7,943 Private	PRIVATE	1,299.29
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7,945 Private	PRIVATE	1,373.24
7,947 Private	PRIVATE	2,860.93
7,948 Private	PRIVATE	764.9595826
7,951 Private	PRIVATE	571.6375066
7,955 Private	PRIVATE	3,873.27
7,956 Private	PRIVATE	1,301.42
7,957 Private	PRIVATE	910.27606
7,959 Private	PRIVATE	8,239.15
7,961 Private	PRIVATE	2,144.74
7,962 Private	PRIVATE	913.1491865
7,963 Private	PRIVATE	1,319.74
7,964 Private	PRIVATE	4,582.08
7,966 Private	PRIVATE	6,151.02
7,967 Private	PRIVATE	544.311073
7,968 Private	PRIVATE	6,424.01
7,969 Private	PRIVATE	2,108.81
7,970 Private	PRIVATE	919.4259554
7,971 Private	PRIVATE	1,370.75
7,972 Private	PRIVATE	9,636.82
7,976 Private	PRIVATE	136.1352114
7,978 Private	PRIVATE	4,701.27
7,979 Private	PRIVATE	1,190.43
7,981 Private	PRIVATE	1,627.30
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7,984 Private	PRIVATE	3,734.91
7,988 Private	PRIVATE	1,515.84
7,990 Private	PRIVATE	915.2031103
7,992 Private	PRIVATE	1,322.12
7,993 Private	PRIVATE	2,044.24
7,995 Private	PRIVATE	1,135.60
7,997 Private	PRIVATE	732.5993984
7,998 Private	PRIVATE	1,270.43
7,999 Private	PRIVATE	7,247.12
8,001 Private	PRIVATE	3,656.26
8,004 Private	PRIVATE	603,891.45
8,005 Private	PRIVATE	4,034.81
8,006 Private	PRIVATE	1,612.20
8,010 Private	PRIVATE	4,828.49
8,011 Private	PRIVATE	3,545.74
8,015 Private	PRIVATE	632.8449399
8,016 Private	PRIVATE	601.6885265
8,017 Private	PRIVATE	169.9210198
8,018 Private	PRIVATE	2,678.12
8,019 Private	PRIVATE	4,765.13
8,021 Private	PRIVATE	5,602.00
8,024 Private	PRIVATE	188.4544127
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8,034 Private	PRIVATE	12,877.57
8,035 Private	PRIVATE	16,185.54
8,036 Private	PRIVATE	6,865.04
8,038 Private	PRIVATE	7,081.15
8,040 Private	PRIVATE	6,339.84
8,041 Private	PRIVATE	1,282.34
8,042 Private	PRIVATE	3,545.80
8,043 Private	PRIVATE	1,137.82
8,044 Private	PRIVATE	2,588.43
8,046 Private	PRIVATE	14,875.46
8,047 Private	PRIVATE	604.4000934
8,048 Private	PRIVATE	1,604.14
8,049 Private	PRIVATE	2,825.40
8,052 Private	PRIVATE	7,098.89
8,053 Private	PRIVATE	1,202.56
8,054 Private	PRIVATE	2,970.86
8,055 Private	PRIVATE	3,474.83
8,056 Private	PRIVATE	4,423.60
8,057 Private	PRIVATE	1,053.41
8,060 Private	PRIVATE	5,222.72
8,062 Private	PRIVATE	5,646.16
8,064 Private	PRIVATE	5,623.23

8,067 Private	PRIVATE	6,425.21
8,068 Private	PRIVATE	4,379.35
8,071 Private	PRIVATE	2,483.38
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8,074 Private	PRIVATE	756.1707212
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8,078 Private	PRIVATE	2,256.73
8,079 Private	PRIVATE	1,593.09
8,081 Private	PRIVATE	338.0658503
8,082 Private	PRIVATE	1,887.80
8,083 Private	PRIVATE	166.9578985
8,084 Private	PRIVATE	4,201.87
8,085 Private	PRIVATE	1,283.67
8,086 Private	PRIVATE	8,102.03
8,087 Private	PRIVATE	1,280.43
8,088 Private	PRIVATE	197,576.87
8,089 Private	PRIVATE	1,181.55
8,090 Private	PRIVATE	2,350.21
8,092 Private	PRIVATE	3,621.15
8,094 Private	PRIVATE	865.5693027
8,095 Private	PRIVATE	4,839.57
8,096 Private	PRIVATE	2,820.88
8,098 Private	PRIVATE	8,260.44
8,100 Private	PRIVATE	97.92901998
8,101 Private	PRIVATE	205.8583936
8,102 Private	PRIVATE	2,017.76
8,103 Private	PRIVATE	17,709.06
8,104 Private	PRIVATE	847.8038679
8,105 Private	PRIVATE	13,067.12
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8,109 Private	PRIVATE	2,428.06
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8,127 Private	PRIVATE	5,630.50
8,128 Private	PRIVATE	311.8637945
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8,131 Private	PRIVATE	2,705.31
8,132 Private	PRIVATE	4,256.48

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8,134 Private	PRIVATE	2,034.44
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8,138 Private	PRIVATE	4,771.68
8,139 Private	PRIVATE	1,278.34
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8,141 Private	PRIVATE	1,934.09
8,142 Private	PRIVATE	546.242477
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8,144 Private	PRIVATE	549.1621298
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8,151 Private	PRIVATE	275,124.36
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8,187 Private	PRIVATE	446.5373496
8,188 Private	PRIVATE	414.386488
8,189 Private	PRIVATE	416.9694275
8,190 Private	PRIVATE	685.1830312
8,191 Private	PRIVATE	649.4335427
8,192 Private	PRIVATE	685.028507
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8,194 Private	PRIVATE	459.3349279
8,195 Private	PRIVATE	685.1185093
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8,202 Private	PRIVATE	2,516.63
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8,208 Private	PRIVATE	922.0261578
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8,214 Private	PRIVATE	510.830449
8,215 Private	PRIVATE	4,244.60
8,217 Private	PRIVATE	53,366.03
8,218 Private	PRIVATE	6,902.27
8,219 Private	PRIVATE	5,851.91
8,220 Private	PRIVATE	4,840.10
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8,222 Private	PRIVATE	1,598.80
8,223 Private	PRIVATE	2,043.68
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8,229 Private	PRIVATE	2,390.05
8,231 Private	PRIVATE	1,636.32
8,232 Private	PRIVATE	3,921.17

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8,243 Private	PRIVATE	3,890.14
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8,250 Private	PRIVATE	1,777.09
8,251 Private	PRIVATE	591.7875202
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8,293 Private	PRIVATE	396.7366496
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8,295 Private	PRIVATE	78,676.58
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8,400 Private	PRIVATE	4,078.81
8,401 Private	PRIVATE	4,010.71
8,402 Private	PRIVATE	3,733.71
8,403 Private	PRIVATE	2,465.97
8,404 Private	PRIVATE	10.25821672
8,405 Private	PRIVATE	5,992.58
8,406 Private	PRIVATE	2,521.09
8,407 Private	PRIVATE	4,374.84
8,408 Private	PRIVATE	4,402.38
8,410 Private	PRIVATE	7,169.91
8,411 Private	PRIVATE	2,592.44
8,413 Private	PRIVATE	4,701.82
8,414 Private	PRIVATE	1,663.42
8,415 Private	PRIVATE	3,787.80
8,418 Private	PRIVATE	10,398.38
8,420 Private	PRIVATE	1,880.32
8,424 Private	PRIVATE	2,979.36
8,425 Private	PRIVATE	1,532.56
8,426 Private	PRIVATE	10,772.55
8,427 Private	PRIVATE	2,351.14
8,430 Private	PRIVATE	3,578.70
8,431 Private	PRIVATE	1,569.64
8,433 Private	PRIVATE	3,855.67
8,435 Private	PRIVATE	8,832.20
8,436 Private	PRIVATE	3,143.10
8,442 Private	PRIVATE	573.5481792
8,443 Private	PRIVATE	924.2453342

8,445 Private	PRIVATE	4,842.90
8,446 Private	PRIVATE	4,022.08
8,447 Private	PRIVATE	3,305.05
8,450 Private	PRIVATE	283.9076538
8,451 Private	PRIVATE	400.3385801
8,452 Private	PRIVATE	185.3163534
8,453 Private	PRIVATE	987.7723111
8,454 Private	PRIVATE	311.6501579
8,457 Private	PRIVATE	476.2236014
8,458 Private	PRIVATE	96.21358873
8,459 Private	PRIVATE	192.0591953
8,460 Private	PRIVATE	203.4284256
8,461 Private	PRIVATE	11,045.96
8,462 Private	PRIVATE	16,922.98
8,463 Private	PRIVATE	690.1749826
8,464 Private	PRIVATE	466.2783137
8,468 Private	PRIVATE	10,586.91
8,469 Private	PRIVATE	3,205.29
8,470 Private	PRIVATE	11,755.04
8,471 Private	PRIVATE	8,540.20
8,475 Private	PRIVATE	1,593.75
8,476 Private	PRIVATE	604.9184211
8,477 Private	PRIVATE	191.1152522
8,478 Private	PRIVATE	94,678.33
8,482 Private	PRIVATE	2,930.44
8,483 Private	PRIVATE	2,531.70
8,484 Private	PRIVATE	7,487.51
8,485 Private	PRIVATE	30,481.79
8,486 Private	PRIVATE	4,048.41
8,487 Private	PRIVATE	2,160.95
8,490 Private	PRIVATE	2,421.46
8,491 Private	PRIVATE	3,633.26
8,492 Private	PRIVATE	2,042.09
8,497 Private	PRIVATE	149.2244403
8,499 Private	PRIVATE	78.46391685
8,500 Private	PRIVATE	1,406.66
8,502 Private	PRIVATE	5,031.02
8,503 Private	PRIVATE	3,021.43
8,504 Private	PRIVATE	2,730.25
8,514 Private	PRIVATE	6,701.35
8,515 Private	PRIVATE	6,177.05
8,517 Private	PRIVATE	14,230.06
8,520 Private	PRIVATE	2,599.36
8,521 Private	PRIVATE	3,585.35
8,522 Private	PRIVATE	34,753.81
8,524 Private	PRIVATE	3,557.09
8,526 Private	PRIVATE	4,218.66

8,528 Private	PRIVATE	8,820.60
8,529 Private	PRIVATE	4,226.64
8,531 Private	PRIVATE	8,447.84
8,534 Private	PRIVATE	2,416.02
8,535 Private	PRIVATE	678.0143515
8,541 Private	PRIVATE	10,614.30
8,543 Private	PRIVATE	3,656.92
8,550 Private	PRIVATE	4,183.84
8,552 Private	PRIVATE	6,378.06
8,554 Private	PRIVATE	1,390.64
8,555 Private	PRIVATE	1,272.18
8,556 Private	PRIVATE	8,483.17
8,563 Private	PRIVATE	2,112.04
8,564 Private	PRIVATE	11,253.44
8,565 Private	PRIVATE	2,922.08
8,568 Private	PRIVATE	3,237.65
8,574 Private	PRIVATE	6,056.86
8,575 Private	PRIVATE	1,195.05
8,583 Private	PRIVATE	5,179.24
8,584 Private	PRIVATE	681.4173446
8,586 Private	PRIVATE	440.7422935
8,587 Private	PRIVATE	1,075.10
8,589 Private	PRIVATE	93.85055904
8,591 Private	PRIVATE	234.6623351
8,592 Private	PRIVATE	139.1629928
8,594 Private	PRIVATE	10,745.46
8,597 Private	PRIVATE	1,301.25
8,599 Private	PRIVATE	1,588.61
8,600 Private	PRIVATE	688.5589798
8,601 Private	PRIVATE	570.5090205
8,609 Private	PRIVATE	40.077095
8,610 Private	PRIVATE	3,196.44
8,611 Private	PRIVATE	104.7499431
8,613 Private	PRIVATE	2,465.60
8,614 Private	PRIVATE	10,224.25
8,617 Private	PRIVATE	995.4288504
8,618 Private	PRIVATE	636.0686113
8,619 Private	PRIVATE	71,110.18
8,620 Private	PRIVATE	2,657.42
8,621 Private	PRIVATE	1,278.43
8,623 Private	PRIVATE	5,715.48
8,624 Private	PRIVATE	4,018.88
8,627 Private	PRIVATE	1,602.29
8,629 Private	PRIVATE	2,720.43
8,633 Private	PRIVATE	5,538.92
8,634 Private	PRIVATE	11,263.89
8,642 Private	PRIVATE	1,057.70

8,649 Private	PRIVATE	328.7077291
8,654 Private	PRIVATE	2,526.86
8,658 Private	PRIVATE	2,053.07
8,665 Private	PRIVATE	3,048.67
8,667 Private	PRIVATE	2,596,251.70
8,668 Private	PRIVATE	1,817.15
8,673 Private	PRIVATE	4,168.65
8,678 Private	PRIVATE	1,280.48
8,682 Private	PRIVATE	1,463.32
8,683 Private	PRIVATE	3,201.88
8,690 Private	PRIVATE	769.8261683
8,695 Private	PRIVATE	993.0421691
8,697 Private	PRIVATE	8,016.85
8,698 Private	PRIVATE	2,196.41
8,710 Private	PRIVATE	5,180.30
8,711 Private	PRIVATE	287.4242909
8,720 Private	PRIVATE	2,414.31
8,721 Private	PRIVATE	2,112.69
8,724 Private	PRIVATE	1,266.13
8,736 Private	PRIVATE	4,273.94
8,758 Private	PRIVATE	1,280.54
8,759 Private	PRIVATE	3,216.49
8,789 Private	PRIVATE	2,705.01
8,798 Private	PRIVATE	4,501.43
8,800 Private	PRIVATE	2,813.04
8,811 Private	PRIVATE	2,215.43
8,815 Private	PRIVATE	3,416.62
8,816 Private	PRIVATE	495.4606094
8,821 Private	PRIVATE	1,177.01
8,837 Private	PRIVATE	3,617.33
8,841 Private	PRIVATE	4,021.90
8,842 Private	PRIVATE	2,315.08
8,844 Private	PRIVATE	3,570.90
8,847 Private	PRIVATE	1,102.19
8,848 Private	PRIVATE	8,849.83
8,853 Private	PRIVATE	1,845.13
8,855 Private	PRIVATE	7,688.40
8,856 Private	PRIVATE	112.5593902
8,860 Private	PRIVATE	5,328.92
8,880 Private	PRIVATE	1,036.46
8,882 Private	PRIVATE	3,209.16
8,887 Private	PRIVATE	963.3905923
8,891 Private	PRIVATE	4,616.72
8,897 Private	PRIVATE	966.6520896
8,899 Private	PRIVATE	2,972.13
8,901 Private	PRIVATE	2,508.88
8,905 Private	PRIVATE	7,848.24

8,910 Private	PRIVATE	6,359.79
8,911 Private	PRIVATE	2,508.10
8,912 Private	PRIVATE	1,280.71
8,915 Private	PRIVATE	3,045.72
8,916 Private	PRIVATE	6,937.30
8,918 Private	PRIVATE	3,807.06
8,919 Private	PRIVATE	1,279.98
8,920 Private	PRIVATE	7,591.89
8,922 Private	PRIVATE	2,210.60
8,926 Private	PRIVATE	3,232.83
8,927 Private	PRIVATE	10,135.61
8,930 Private	PRIVATE	231.7959434
8,938 Private	PRIVATE	1,211.46
8,952 Private	PRIVATE	142.6064562
8,953 Private	PRIVATE	20,323.91
8,954 Private	PRIVATE	9,733.83
8,963 Private	PRIVATE	4,030.22
8,964 Private	PRIVATE	1,133.22
8,965 Private	PRIVATE	3,712.23
8,967 Private	PRIVATE	645.8609295
8,969 Private	PRIVATE	3,184.74
8,970 Private	PRIVATE	3,804.01
8,973 Private	PRIVATE	13,222.13
8,975 Private	PRIVATE	1,206.97
8,976 Private	PRIVATE	3,319.53
8,977 Private	PRIVATE	10,466.85
8,979 Private	PRIVATE	3,647.64
8,980 Private	PRIVATE	1,608.44
8,986 Private	PRIVATE	3,144.93
8,988 Private	PRIVATE	2,491.08
8,990 Private	PRIVATE	178,465.52
8,994 Private	PRIVATE	11,406.19
8,995 Private	PRIVATE	2,667.74
8,999 Private	PRIVATE	3,862.53
9,007 Private	PRIVATE	7,571.95
9,009 Private	PRIVATE	6,563.37
9,013 Private	PRIVATE	10,413.24
9,015 Private	PRIVATE	4,039.21
9,017 Private	PRIVATE	5,744.18
9,023 Private	PRIVATE	4,035.18
9,027 Private	PRIVATE	1,926.18
9,030 Private	PRIVATE	3,161.02
9,033 Private	PRIVATE	3,220.06
9,036 Private	PRIVATE	6,009.27
9,038 Private	PRIVATE	3,620.02
9,039 Private	PRIVATE	1,599.33
9,043 Private	PRIVATE	4,035.60

9,044 Private	PRIVATE	21.09353948
9,047 Private	PRIVATE	3,978.58
9,048 Private	PRIVATE	4,757.81
9,050 Private	PRIVATE	13,428.41
9,053 Private	PRIVATE	3,606.10
9,056 Private	PRIVATE	3,225.15
9,058 Private	PRIVATE	6,333.32
9,065 Private	PRIVATE	2,351.16
9,066 Private	PRIVATE	2,620.20
9,067 Private	PRIVATE	9,721.00
9,070 Private	PRIVATE	3,885.01
9,071 Private	PRIVATE	5,035.60
9,075 Private	PRIVATE	9,443.88
9,076 Private	PRIVATE	574.0347105
9,078 Private	PRIVATE	11,503.47
9,079 Private	PRIVATE	376.6517606
9,080 Private	PRIVATE	3,777.37
9,081 Private	PRIVATE	1,213.36
9,084 Private	PRIVATE	1,186.56
9,085 Private	PRIVATE	4,810.05
9,086 Private	PRIVATE	9,126.51
9,087 Private	PRIVATE	1,819.06
9,088 Private	PRIVATE	2,448.98
9,089 Private	PRIVATE	1,891.14
9,090 Private	PRIVATE	1,642.78
9,092 Private	PRIVATE	4,413.87
9,094 Private	PRIVATE	10,071.37
9,095 Private	PRIVATE	7,048.80
9,100 Private	PRIVATE	12,457.24
9,102 Private	PRIVATE	9,280.99
9,104 Private	PRIVATE	2,337.13
9,105 Private	PRIVATE	17,765.50
9,106 Private	PRIVATE	5,673.37
9,109 Private	PRIVATE	3,628.36
9,110 Private	PRIVATE	5,244.59
9,112 Private	PRIVATE	1,720.88
9,113 Private	PRIVATE	3,497.58
9,119 Private	PRIVATE	5,661.80
9,120 Private	PRIVATE	494.3129369
9,123 Private	PRIVATE	4,913.82
9,125 Private	PRIVATE	17,698.18
9,126 Private	PRIVATE	10,444.48
9,128 Private	PRIVATE	1,276.93
9,131 Private	PRIVATE	2,739.25
9,134 Private	PRIVATE	3,752.68
9,135 Private	PRIVATE	674.6200914
9,136 Private	PRIVATE	5,042.73

9,139 Private	PRIVATE	2,434.21
9,141 Private	PRIVATE	3,092.62
9,142 Private	PRIVATE	1,280.70
9,146 Private	PRIVATE	3,380.61
9,151 Private	PRIVATE	66,516.27
9,154 Private	PRIVATE	602.7969767
9,156 Private	PRIVATE	2,925.39
9,158 Private	PRIVATE	6,826.99
9,159 Private	PRIVATE	11,392.78
9,160 Private	PRIVATE	1,237.82
9,162 Private	PRIVATE	5,006.48
9,167 Private	PRIVATE	13,615.52
9,168 Private	PRIVATE	5,811.37
9,169 Private	PRIVATE	4,231.87
9,176 Private	PRIVATE	2,977.43
9,186 Private	PRIVATE	4,267.09
9,189 Private	PRIVATE	46,790.81
9,196 Private	PRIVATE	601.9459843
9,198 Private	PRIVATE	18,539.02
9,199 Private	PRIVATE	3,106.69
9,202 Private	PRIVATE	4,348.09
9,203 Private	PRIVATE	645.1033322
9,204 Private	PRIVATE	1,609.52
9,205 Private	PRIVATE	6,841.11
9,207 Private	PRIVATE	3,548.76
9,209 Private	PRIVATE	3,146.55
9,213 Private	PRIVATE	3,604.57
9,214 Private	PRIVATE	2,927.62
9,218 Private	PRIVATE	3,225.17
9,220 Private	PRIVATE	12,521.39
9,221 Private	PRIVATE	3,273.20
9,226 Private	PRIVATE	10,989.67
9,228 Private	PRIVATE	6,613.19
9,230 Private	PRIVATE	3,344.47
9,232 Private	PRIVATE	1,314.61
9,233 Private	PRIVATE	6,388.85
9,235 Private	PRIVATE	4,015.52
9,237 Private	PRIVATE	3,420.26
9,239 Private	PRIVATE	2,659.84
9,240 Private	PRIVATE	2,614.65
9,242 Private	PRIVATE	3,219.21
9,247 Private	PRIVATE	1,646.20
9,249 Private	PRIVATE	5,497.87
9,251 Private	PRIVATE	4,023.99
9,252 Private	PRIVATE	1,476.45
9,253 Private	PRIVATE	5,692.29
9,255 Private	PRIVATE	3,983.27



9,258 Private	PRIVATE	2,610.61
9,261 Private	PRIVATE	11,318.30
9,263 Private	PRIVATE	1,205.47
9,264 Private	PRIVATE	10,456.20
9,265 Private	PRIVATE	1,747.55
9,270 Private	PRIVATE	4,023.03
9,274 Private	PRIVATE	6,029.70
9,275 Private	PRIVATE	3,518.99
9,276 Private	PRIVATE	4,020.82
9,277 Private	PRIVATE	7,993.35
9,278 Private	PRIVATE	3,867.69
9,281 Private	PRIVATE	2,195.07
9,284 Private	PRIVATE	3,469.08
9,286 Private	PRIVATE	39,878.98
9,287 Private	PRIVATE	3,783.42
9,289 Private	PRIVATE	75,681.58
9,291 Private	PRIVATE	16,879.86
9,295 Private	PRIVATE	2,059.12
9,297 Private	PRIVATE	725.2992352
9,298 Private	PRIVATE	2,556.77
9,299 Private	PRIVATE	2,441.62
9,301 Private	PRIVATE	7,165.21
9,302 Private	PRIVATE	387.2923598
9,304 Private	PRIVATE	3,266.65
9,305 Private	PRIVATE	624.0125121
9,306 Private	PRIVATE	483.3613624
9,309 Private	PRIVATE	5,860.96
9,310 Private	PRIVATE	278.606765
9,311 Private	PRIVATE	2,404.41
9,319 Private	PRIVATE	5,631.49
9,320 Private	PRIVATE	1,863.07
9,322 Private	PRIVATE	575.5305366
9,324 Private	PRIVATE	4,010.17
9,325 Private	PRIVATE	126.1350236
9,328 Private	PRIVATE	2,964.39
9,331 Private	PRIVATE	2,683.15
9,340 Private	PRIVATE	988.7868686
9,344 Private	PRIVATE	3,222.14
9,346 Private	PRIVATE	1,610.06
9,350 Private	PRIVATE	3,745.71
9,354 Private	PRIVATE	1,293.60
9,355 Private	PRIVATE	5,014.23
9,358 Private	PRIVATE	3,220.39
9,359 Private	PRIVATE	12,414.30
9,360 Private	PRIVATE	13,545.73
9,362 Private	PRIVATE	666.5656908
9,363 Private	PRIVATE	2,561.92

9,370 Private	PRIVATE	20,721.25
9,372 Private	PRIVATE	22,687.66
9,373 Private	PRIVATE	3,423.77
9,374 Private	PRIVATE	2,055.84
9,378 Private	PRIVATE	1,279.47
9,379 Private	PRIVATE	11,544.67
9,380 Private	PRIVATE	1,289.09
9,381 Private	PRIVATE	1,872.58
9,382 Private	PRIVATE	2,558.88
9,384 Private	PRIVATE	188.3556393
9,385 Private	PRIVATE	2,209.24
9,387 Private	PRIVATE	4,529.43
9,388 Private	PRIVATE	2,009.77
9,389 Private	PRIVATE	2,318.45
9,391 Private	PRIVATE	3,198.63
9,393 Private	PRIVATE	1,605.23
9,394 Private	PRIVATE	3,247.74
9,395 Private	PRIVATE	2,685.32
9,396 Private	PRIVATE	2,205.14
9,398 Private	PRIVATE	466,203.76
9,400 Private	PRIVATE	124.9931837
9,401 Private	PRIVATE	4,022.18
9,404 Private	PRIVATE	2,192.53
9,406 Private	PRIVATE	408.718609
9,407 Private	PRIVATE	324.8218403
9,408 Private	PRIVATE	240.3878389
9,409 Private	PRIVATE	278.1396988
9,410 Private	PRIVATE	311.3125342
9,411 Private	PRIVATE	213.0594761
9,412 Private	PRIVATE	130.6275533
9,414 Private	PRIVATE	343.5248428
9,415 Private	PRIVATE	2,574.59
9,416 Private	PRIVATE	193.1531742
9,417 Private	PRIVATE	506.702203
9,418 Private	PRIVATE	203.8883236
9,419 Private	PRIVATE	201.0901221
9,420 Private	PRIVATE	304.7364297
9,421 Private	PRIVATE	139.7139787
9,422 Private	PRIVATE	427.4952433
9,423 Private	PRIVATE	317.8222797
9,424 Private	PRIVATE	136.1925117
9,425 Private	PRIVATE	391.0683319
9,426 Private	PRIVATE	455.7683847
9,427 Private	PRIVATE	186.7804572
9,429 Private	PRIVATE	6,723.07
9,434 Private	PRIVATE	750.3141763
9,435 Private	PRIVATE	2,789.56

9,436 Private	PRIVATE	4,061.36
9,438 Private	PRIVATE	14,744.29
9,439 Private	PRIVATE	36,768.43
9,440 Private	PRIVATE	8,318.06
9,442 Private	PRIVATE	938.3870465
9,443 Private	PRIVATE	348.5847581
9,444 Private	PRIVATE	2,210.89
9,446 Private	PRIVATE	1,202.83
9,447 Private	PRIVATE	395.3357648
9,448 Private	PRIVATE	159.8050473
9,450 Private	PRIVATE	187.0055482
9,451 Private	PRIVATE	152.5810243
9,452 Private	PRIVATE	125.3404235
9,453 Private	PRIVATE	152.4352406
9,454 Private	PRIVATE	151.4508907
9,457 Private	PRIVATE	235.5333911
9,458 Private	PRIVATE	85,907.32
9,460 Private	PRIVATE	73.96962157
9,461 Private	PRIVATE	140.0763724
9,463 Private	PRIVATE	136.1920522
9,465 Private	PRIVATE	519.8476344
9,466 Private	PRIVATE	242.9520471
9,467 Private	PRIVATE	136.12037
9,468 Private	PRIVATE	413.7474381
9,469 Private	PRIVATE	169.9947841
9,471 Private	PRIVATE	355.383937
9,472 Private	PRIVATE	244.646877
9,473 Private	PRIVATE	1,338.40
9,474 Private	PRIVATE	284.3650112
9,475 Private	PRIVATE	213.1675827
9,476 Private	PRIVATE	437.725678
9,477 Private	PRIVATE	175.620129
9,480 Private	PRIVATE	219.5167421
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9,482 Private	PRIVATE	436,840.75
9,483 Private	PRIVATE	608.941256
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9,486 Private	PRIVATE	228.100391
9,487 Private	PRIVATE	158.4842493
9,488 Private	PRIVATE	158.4838543
9,490 Private	PRIVATE	170.2527824
9,491 Private	PRIVATE	797.4878439
9,492 Private	PRIVATE	164.0011193
9,493 Private	PRIVATE	2,114.00
9,494 Private	PRIVATE	162.1615545
9,496 Private	PRIVATE	331.7346255

9,498 Private	PRIVATE	3,410.75
9,501 Private	PRIVATE	781.1471728
9,503 Private	PRIVATE	610.9705163
9,504 Private	PRIVATE	2,711.08
9,505 Private	PRIVATE	6,208.44
9,507 Private	PRIVATE	462.9531224
9,508 Private	PRIVATE	214.948057
9,509 Private	PRIVATE	8,030.02
9,511 Private	PRIVATE	1,152.43
9,512 Private	PRIVATE	4,420.24
9,516 Private	PRIVATE	3,667.76
9,517 Private	PRIVATE	1,823,707.37
9,518 Private	PRIVATE	3,267.67
9,519 Private	PRIVATE	11,738.38
9,521 Private	PRIVATE	4,460.19
9,528 Private	PRIVATE	1,848.53
9,530 Private	PRIVATE	3,228.36
9,532 Private	PRIVATE	36.61913503
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9,534 Private	PRIVATE	102.4577499
9,536 Private	PRIVATE	3,815.39
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9,539 Private	PRIVATE	1,640.84
9,540 Private	PRIVATE	1,255.31
9,541 Private	PRIVATE	2,870.40
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9,543 Private	PRIVATE	130.1783873
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9,547 Private	PRIVATE	174.1152628
9,548 Private	PRIVATE	1,280.25
9,549 Private	PRIVATE	11,222.11
9,551 Private	PRIVATE	12,480.39
9,552 Private	PRIVATE	1,708.48
9,553 Private	PRIVATE	3,448.94
9,561 Private	PRIVATE	1,259.82
9,565 Private	PRIVATE	2,435.01
9,569 Private	PRIVATE	5,607.48
9,573 Private	PRIVATE	2,408.65
9,576 Private	PRIVATE	59,085.89
9,587 Private	PRIVATE	8,721.07
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9,600 Private	PRIVATE	3,567.17
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9,617 Private	PRIVATE	1,397.81
9,620 Private	PRIVATE	775.8249485
9,621 Private	PRIVATE	3,479.87
9,623 Private	PRIVATE	541.4844561
9,624 Private	PRIVATE	807.3038955
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9,629 Private	PRIVATE	536.3841559
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9,631 Private	PRIVATE	2,065.65
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9,637 Private	PRIVATE	8,049.35
9,643 Private	PRIVATE	4,814.30
9,645 Private	PRIVATE	1,708.99
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9,652 Private	PRIVATE	2,412.05
9,654 Private	PRIVATE	5,626.29
9,658 Private	PRIVATE	4,193.00
9,661 Private	PRIVATE	4,823.19
9,662 Private	PRIVATE	5,501.25
9,670 Private	PRIVATE	4,048.56
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9,675 Private	PRIVATE	4,348.62
9,676 Private	PRIVATE	805.0194425
9,683 Private	PRIVATE	23,876.31
9,685 Private	PRIVATE	8,764.11
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9,691 Private	PRIVATE	296.6265497
9,692 Private	PRIVATE	3,222.04
9,694 Private	PRIVATE	4,818.24
9,700 Private	PRIVATE	3,218.98
9,701 Private	PRIVATE	3,305.59
9,703 Private	PRIVATE	5,838.28
9,710 Private	PRIVATE	46,927.42
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9,716 Private	PRIVATE	1,664.09
9,717 Private	PRIVATE	6,445.29
9,720 Private	PRIVATE	1,301.07
9,721 Private	PRIVATE	733.4681319
9,722 Private	PRIVATE	462.0406819
9,724 Private	PRIVATE	3,217.53

9,726 Private	PRIVATE	1,090.93
9,728 Private	PRIVATE	3,308.12
9,729 Private	PRIVATE	3,128.85
9,731 Private	PRIVATE	4,622.48
9,733 Private	PRIVATE	549.5475816
9,734 Private	PRIVATE	876.3143892
9,735 Private	PRIVATE	2,490.40
9,736 Private	PRIVATE	19,172.88
9,737 Private	PRIVATE	2,669.93
9,739 Private	PRIVATE	3,198.77
9,740 Private	PRIVATE	16,168.04
9,741 Private	PRIVATE	3,255.49
9,745 Private	PRIVATE	73.13200678
9,746 Private	PRIVATE	52,619.55
9,747 Private	PRIVATE	6,198.86
9,749 Private	PRIVATE	1,999.14
9,752 Private	PRIVATE	1,691.42
9,753 Private	PRIVATE	958.8057176
9,755 Private	PRIVATE	245.9258611
9,763 Private	PRIVATE	652.5001805
9,766 Private	PRIVATE	7,013.75
9,769 Private	PRIVATE	1,275.80
9,771 Private	PRIVATE	2,179.45
9,773 Private	PRIVATE	2,796.94
9,776 Private	PRIVATE	3,806.10
9,781 Private	PRIVATE	4,053.79
9,782 Private	PRIVATE	5,057.88
9,783 Private	PRIVATE	1,736.14
9,787 Private	PRIVATE	189.5217229
9,788 Private	PRIVATE	657.8958581
9,790 Private	PRIVATE	1,625.34
9,793 Private	PRIVATE	1,555.54
9,796 Private	PRIVATE	3,509.97
9,797 Private	PRIVATE	3,550.12
9,799 Private	PRIVATE	1,352.05
9,803 Private	PRIVATE	3,157.83
9,805 Private	PRIVATE	1,230.95
9,806 Private	PRIVATE	1,637.32
9,807 Private	PRIVATE	16,527.47
9,809 Private	PRIVATE	3,806.77
9,816 Private	PRIVATE	3,215.12
9,823 Private	PRIVATE	1,250.46
9,826 Private	PRIVATE	1,318.21
9,834 Private	PRIVATE	2,289.51
9,837 Private	PRIVATE	7,623.31
9,838 Private	PRIVATE	2,785.99
9,839 Private	PRIVATE	1,657.46

9,844 Private	PRIVATE	1,070.94
9,845 Private	PRIVATE	3,249.46
9,849 Private	PRIVATE	4,032.35
9,850 Private	PRIVATE	52,171.87
9,852 Private	PRIVATE	2,838.05
9,853 Private	PRIVATE	22,646.55
9,859 Private	PRIVATE	324.1324369
9,861 Private	PRIVATE	1,210.78
9,864 Private	PRIVATE	5,238.25
9,867 Private	PRIVATE	554.0576515
9,869 Private	PRIVATE	13,058.06
9,870 Private	PRIVATE	1,218.03
9,871 Private	PRIVATE	11,572.03
9,872 Private	PRIVATE	2,124.50
9,875 Private	PRIVATE	1,991.62
9,880 Private	PRIVATE	1,928.56
9,881 Private	PRIVATE	87.90703955
9,885 Private	PRIVATE	3,128.06
9,894 Private	PRIVATE	13,449.97
9,903 Private	PRIVATE	1,270.45
9,913 Private	PRIVATE	2,012.62
9,925 Private	PRIVATE	4,328.12
9,932 Private	PRIVATE	14,341.05
9,937 Private	PRIVATE	17,523.93
9,941 Private	PRIVATE	429.6678956
9,942 Private	PRIVATE	42.20353618
9,947 Private	PRIVATE	3,804.67
9,948 Private	PRIVATE	687.8068812
9,951 Private	PRIVATE	59,307.56
9,959 Private	PRIVATE	26.40190617
9,961 Private	PRIVATE	21.90665772
9,963 Private	PRIVATE	4.06022982
10,005 Private	PRIVATE	13,438.84
10,049 Private	PRIVATE	410.3028039
11,814 State	STATE	1,779.39
11,847 State	STATE	4,847.10
11,850 State	STATE	4,021.84
11,856 State	STATE	3,230.97
11,860 State	STATE	781.7796464
11,871 State	STATE	808.3659942
11,888 State	STATE	1,056.48
11,891 State	STATE	6,452.19
11,908 State	STATE	3,646.90
11,928 State	STATE	6,440.83
11,949 State	STATE	2,711.97
11,983 State	STATE	6,608.34
11,984 State	STATE	27,339.80

12,012 State	STATE	6,440.39
12,046 State	STATE	28,060.76
12,051 State	STATE	6,438.40
12,079 State	STATE	2,161.19
12,083 State	STATE	6,439.15
12,085 State	STATE	3,126.73
12,103 State	STATE	3,849.44
12,116 State	STATE	3,209.70
12,117 State	STATE	8,057.34
12,124 State	STATE	6,442.75
12,154 State	STATE	828.2394623
12,155 State	STATE	3,224.60
12,159 State	STATE	1,428.53
12,161 State	STATE	6,429.59
12,181 State	STATE	6,402.81
12,190 State	STATE	6,447.14
12,196 State	STATE	4,533.59
12,199 State	STATE	3,048.66
12,205 State	STATE	1,669.31
12,207 State	STATE	2,399.03
12,208 State	STATE	1,540.04
12,219 State	STATE	5,318.74
12,224 State	STATE	12,959.13
12,225 State	STATE	755.8628017
12,229 State	STATE	1,599.75
12,230 State	STATE	1,635.69
12,233 State	STATE	6,441.41
12,236 State	STATE	6,444.31
12,237 State	STATE	7,089.33
12,238 State	STATE	874.0080731
12,242 State	STATE	3,165.36
12,246 State	STATE	3,857.46
12,250 State	STATE	3,258.55
12,254 State	STATE	1,625.89
12,262 State	STATE	4,825.88
12,265 State	STATE	1,618.78
12,266 State	STATE	2,429.35
12,270 State	STATE	6,444.09
12,272 State	STATE	8,101.42
12,274 State	STATE	9,576.53
12,275 State	STATE	1,625.14
12,277 State	STATE	405.9626293
12,283 State	STATE	4,025.28
12,296 State	STATE	6,483.55
12,297 State	STATE	3,226.81
12,302 State	STATE	6,443.84
12,311 State	STATE	1,451.86



12,314 State	STATE	4,468.04
12,315 State	STATE	120.2696697
12,316 State	STATE	1,573.85
12,321 State	STATE	1,599.65
12,323 State	STATE	6,457.96
12,324 State	STATE	652.1535608
12,327 State	STATE	3,197.43
12,333 State	STATE	6,441.66
12,335 State	STATE	735.237087
12,336 State	STATE	1,601.93
12,340 State	STATE	2,397.14
12,342 State	STATE	232.4583403
12,343 State	STATE	1,599.63
12,344 State	STATE	3,738.10
12,349 State	STATE	2,529.54
12,350 State	STATE	1,710.39
12,356 State	STATE	3,823.20
12,358 State	STATE	59,840.75
12,361 State	STATE	4,797.49
12,363 State	STATE	1,629.22
12,364 State	STATE	2,411.30
12,366 State	STATE	6,424.40
12,367 State	STATE	6,441.05
12,372 State	STATE	1,203.03
12,373 State	STATE	6,449.11
12,374 State	STATE	239.4986331
12,375 State	STATE	460.4112968
12,376 State	STATE	886.335748
12,377 State	STATE	1,225.59
12,380 State	STATE	940.0008696
12,382 State	STATE	21,468.36
12,384 State	STATE	1,598.62
12,385 State	STATE	32,144.42
12,394 State	STATE	356.0712637
12,395 State	STATE	544.2675961
12,396 State	STATE	7,300.41
12,397 State	STATE	205.3272145
12,398 State	STATE	253.6760138
12,399 State	STATE	656.6697353
12,400 State	STATE	6,455.60
12,403 State	STATE	228.3101066
12,404 State	STATE	60.72986061
12,405 State	STATE	229.6852818
12,406 State	STATE	62.1714579
12,407 State	STATE	95.89540609
12,408 State	STATE	9,790.58
12,409 State	STATE	6,447.34

12,410 State	STATE	278.7304536
12,411 State	STATE	450.0542244
12,412 State	STATE	4,010.63
12,413 State	STATE	1,611.23
12,414 State	STATE	2,542.51
12,417 State	STATE	4,682.72
12,419 State	STATE	133.3456931
12,420 State	STATE	7,612.06
12,422 State	STATE	269.4735402
12,424 State	STATE	3,262.85
12,425 State	STATE	177.159291
12,427 State	STATE	470.3550815
12,428 State	STATE	3,342.18
12,429 State	STATE	6,448.19
12,431 State	STATE	5,635.40
12,436 State	STATE	3,067.84
12,437 State	STATE	8,064.19
12,438 State	STATE	7,969.13
12,439 State	STATE	6,424.97
12,441 State	STATE	4,035.35
12,443 State	STATE	4,289.90
12,444 State	STATE	19,211.73
12,445 State	STATE	4,833.24
12,446 State	STATE	1,607.98
12,447 State	STATE	2,943.90
12,448 State	STATE	6,462.35
12,449 State	STATE	1,608.04
12,450 State	STATE	2,083.72
12,451 State	STATE	4,024.84
12,452 State	STATE	1,606.04
12,459 State	STATE	4,831.11
12,460 State	STATE	11,870.81
12,461 State	STATE	2,022.68
12,462 State	STATE	4,039.27
12,463 State	STATE	6,466.47
12,464 State	STATE	6,440.21
12,465 State	STATE	56,895.46
12,469 State	STATE	1,614.42
12,470 State	STATE	2,424.35
12,471 State	STATE	12.44883656
12,472 State	STATE	2,632.96
12,473 State	STATE	16,201.56
12,475 State	STATE	20,974.13
12,478 State	STATE	1,653.95
12,479 State	STATE	6,446.51
12,480 State	STATE	80.21564241
12,481 State	STATE	163.5182826

12,482 State	STATE	1,659.81
12,484 State	STATE	2,417.51
12,485 State	STATE	2,423.80
12,487 State	STATE	1,285.69
12,488 State	STATE	1,608.50
12,489 State	STATE	5,523.54
12,491 State	STATE	49.59897629
12,493 State	STATE	46.4295829
12,494 State	STATE	3,213.27
12,496 State	STATE	4,006.54
12,497 State	STATE	1,609.78
12,499 State	STATE	1,611.31
12,500 State	STATE	19,512.46
12,501 State	STATE	1,612.93
12,502 State	STATE	1,608.84
12,503 State	STATE	1,786.41
12,504 State	STATE	1,610.48
12,507 State	STATE	1,729.51
12,508 State	STATE	6,356.65
12,509 State	STATE	6,420.36
12,510 State	STATE	45,648.71
12,511 State	STATE	2,419.18
12,512 State	STATE	1,808.08
12,513 State	STATE	3,761.53
12,514 State	STATE	1,605.69
12,517 State	STATE	1,533.48
12,519 State	STATE	16,136.12
12,520 State	STATE	1,601.98
12,522 State	STATE	2,685.10
12,523 State	STATE	606.2898531
12,524 State	STATE	4,787.47
12,525 State	STATE	963.8524281
12,526 State	STATE	3,012.17
12,530 State	STATE	6,214.83
12,531 State	STATE	217.3838045
12,532 State	STATE	1,353.94
12,533 State	STATE	170.2144177
12,537 State	STATE	6,485.18
12,539 State	STATE	487.795459
12,540 State	STATE	2,523.89
12,542 State	STATE	1,856.01
12,545 State	STATE	3,471.96
12,551 State	STATE	2,424.86
12,552 State	STATE	331.9738593
12,553 State	STATE	7,220.02
12,554 State	STATE	6,354.97
12,558 State	STATE	2,991.01

12,559 State	STATE	62.75469335
12,560 State	STATE	185.8915304
12,562 State	STATE	340.9828531
12,563 State	STATE	636.3859292
12,568 State	STATE	5,104.15
12,569 State	STATE	4,157.17
12,572 State	STATE	6,379.69
12,573 State	STATE	17,876.22
12,575 State	STATE	21,754.37
12,576 State	STATE	994.3169269
12,577 State	STATE	1,802.98
12,581 State	STATE	2,435.32
12,582 State	STATE	1,031.07
12,584 State	STATE	7,235.55
12,586 State	STATE	2,480.95
12,588 State	STATE	4,820.45
12,590 State	STATE	1,058.39
12,591 State	STATE	985.5564301
12,593 State	STATE	1,691.55
12,597 State	STATE	20,111.90
12,598 State	STATE	1,753.00
12,602 State	STATE	4,132.19
12,604 State	STATE	743.3010041
12,605 State	STATE	1,414.70
12,606 State	STATE	419.4058753
12,617 State	STATE	7,708.73
12,618 State	STATE	6,510.68
12,627 State	STATE	6,411.88
12,630 State	STATE	2,694.93
12,633 State	STATE	491.5388788
12,636 State	STATE	312.0218017
12,637 State	STATE	1,923.30
12,638 State	STATE	2,683.85
12,639 State	STATE	6,537.57
12,641 State	STATE	23,165.24
12,644 State	STATE	8,887.37
12,645 State	STATE	842.1949715
12,649 State	STATE	7,710.62
12,652 State	STATE	1,338.95
12,655 State	STATE	4,215.40
12,656 State	STATE	6,510.58
12,657 State	STATE	1,005.37
12,665 State	STATE	6,977.52
12,667 State	STATE	2,495.98
12,674 State	STATE	3,026.10
12,678 State	STATE	488.4768288
12,684 State	STATE	1,619.21

12,688 State	STATE	4,859.64
12,708 State	STATE	744.3275723
12,711 State	STATE	13,676.77
12,715 State	STATE	347.1214204
12,716 State	STATE	704.7434057
12,731 State	STATE	2,195.92
12,738 State	STATE	6,466.89
12,741 State	STATE	920.4232222
12,745 State	STATE	1,189.25
12,746 State	STATE	1,605.16
12,748 State	STATE	2,432.10
12,750 State	STATE	1,014.20
12,751 State	STATE	33,336.73
12,753 State	STATE	2,400.17
12,754 State	STATE	2,649.82
12,755 State	STATE	380.8736591
12,757 State	STATE	6,388.95
12,760 State	STATE	20,644.90
12,761 State	STATE	812.9955802
12,765 State	STATE	8,409.94
12,766 State	STATE	9,630.03
12,767 State	STATE	3,491.10
12,776 State	STATE	3,660.34
12,783 State	STATE	341.4241665
12,784 State	STATE	256.9669187
12,787 State	STATE	104.9175765
12,789 State	STATE	196.2304712
12,790 State	STATE	257.027178
12,791 State	STATE	106.4635656
12,792 State	STATE	903.2619802
12,793 State	STATE	256.9669096
12,794 State	STATE	101.8831325
12,795 State	STATE	165.7790334
12,796 State	STATE	256.9674045
12,797 State	STATE	256.9595345
12,799 State	STATE	226.6026451
12,800 State	STATE	135.3488772
12,801 State	STATE	229.1796296
12,802 State	STATE	254.6805183
12,803 State	STATE	257.0774715
12,804 State	STATE	5,196.68
12,805 State	STATE	257.0912016
12,806 State	STATE	341.2364026
12,807 State	STATE	591.5962686
12,808 State	STATE	257.0048154
12,809 State	STATE	257.0913275
12,810 State	STATE	257.1351097

12,811 State	STATE	340.7277717
12,812 State	STATE	175.8278213
12,813 State	STATE	180.8695256
12,814 State	STATE	201.154487
12,815 State	STATE	584.7221882
12,816 State	STATE	165.7718783
12,817 State	STATE	490.7381687
12,818 State	STATE	280.4857533
12,819 State	STATE	196.2359846
12,820 State	STATE	165.8297603
12,821 State	STATE	163.7677788
12,822 State	STATE	115.1333927
12,826 State	STATE	1,248.07
12,829 State	STATE	2,141.45
12,830 State	STATE	3,230.46
12,831 State	STATE	588.1311888
12,832 State	STATE	4,975.45
12,834 State	STATE	6,443.15
12,839 State	STATE	396.2870755
12,842 State	STATE	372.3912657
12,843 State	STATE	2,301.42
12,848 State	STATE	1,738.02
12,854 State	STATE	6,439.44
12,857 State	STATE	2,401.40
12,859 State	STATE	5,624.83
12,866 State	STATE	1,744.68
12,870 State	STATE	4,000.90
12,881 State	STATE	8,646.42
12,885 State	STATE	6,442.20
12,890 State	STATE	47.23369831
12,895 State	STATE	6,433.37
12,897 State	STATE	6,205.20
12,899 State	STATE	7,900.25
12,900 State	STATE	351.5526447
12,907 State	STATE	4,101.09
12,914 State	STATE	2,925.01
12,917 State	STATE	46.63546484
12,925 State	STATE	73.90115991
12,928 State	STATE	53.16371984
12,929 State	STATE	49.22329185
12,930 State	STATE	49.44066203
12,931 State	STATE	826.1735837
12,933 State	STATE	417.5431539
12,941 State	STATE	128.8831945
12,944 State	STATE	407.6602624
12,945 State	STATE	4,834.59
12,946 State	STATE	333.3407257

12,954 State	STATE	1,257.87
12,962 State	STATE	1,118.62
12,964 State	STATE	19,187.57
12,970 State	STATE	3,852.69
12,971 State	STATE	50.99059277
12,972 State	STATE	347.6565149
12,975 State	STATE	208.7127233
12,977 State	STATE	3,891.52
12,979 State	STATE	1,733.30
12,980 State	STATE	28,402.64
12,982 State	STATE	6,427.99
12,984 State	STATE	522.0928706
12,987 State	STATE	7,658.50
12,989 State	STATE	1,165.98
12,991 State	STATE	2,247.39
12,996 State	STATE	4,071.76
12,997 State	STATE	6,406.62
12,998 State	STATE	237.8905075
13,000 State	STATE	709.6697863
13,001 State	STATE	822.4213792
13,002 State	STATE	1,611.93
13,003 State	STATE	6,440.89
13,006 State	STATE	1,310.17
13,010 State	STATE	1,324.18
13,011 State	STATE	328.7710109
13,012 State	STATE	234.7685339
13,013 State	STATE	693.4523407
13,014 State	STATE	702.1105523
13,015 State	STATE	233.0011649
13,019 State	STATE	6,485.65
13,020 State	STATE	3,226.79
13,023 State	STATE	1,005.53
13,025 State	STATE	1,666.82
13,030 State	STATE	76,116.77
13,033 State	STATE	2,318.24
13,036 State	STATE	4,042.54
13,037 State	STATE	6,419.58
13,038 State	STATE	1,741.54
13,039 State	STATE	1,615.25
13,044 State	STATE	3,219.31
13,045 State	STATE	1,457.26
13,048 State	STATE	3,163.84
13,049 State	STATE	2,712.42
13,058 State	STATE	7,894.48
13,059 State	STATE	3,586.88
13,060 State	STATE	1,608.30
13,062 State	STATE	6,431.83

13,064 State	STATE	1,608.28
13,066 State	STATE	253.8501908
13,067 State	STATE	1,607.10
13,069 State	STATE	1,568.33
13,070 State	STATE	2,853.59
13,071 State	STATE	1,319.11
13,072 State	STATE	6,448.41
13,073 State	STATE	2,052.99
13,074 State	STATE	2,424.95
13,075 State	STATE	2,426.98
13,076 State	STATE	2,850.68
13,077 State	STATE	7,255.81
13,078 State	STATE	6,423.67
13,079 State	STATE	220.723541
13,080 State	STATE	4,037.59
13,082 State	STATE	4,852.50
13,083 State	STATE	5,654.29
13,084 State	STATE	833.5501048
13,085 State	STATE	3,326.23
13,088 State	STATE	1,652.52
13,089 State	STATE	218.867472
13,090 State	STATE	2,431.77
13,091 State	STATE	24,572.24
13,092 State	STATE	7,191.45
13,093 State	STATE	835.6848864
13,094 State	STATE	1,915.81
13,095 State	STATE	934.272362
13,097 State	STATE	1,725.56
13,100 State	STATE	832.7346734
13,102 State	STATE	1,134.94
13,103 State	STATE	537.8865459
13,105 State	STATE	6,406.05
13,107 State	STATE	9,627.82
13,112 State	STATE	1,176.45
13,113 State	STATE	1,597.77
13,114 State	STATE	39,360.03
13,116 State	STATE	5,103.26
13,119 State	STATE	3,201.33
13,120 State	STATE	1,599.85
13,121 State	STATE	51,348.02
13,122 State	STATE	3,206.21
13,123 State	STATE	1,572.04
13,124 State	STATE	6,435.81
13,125 State	STATE	1,596.64
13,127 State	STATE	8,049.57
13,128 State	STATE	3,635.48
13,129 State	STATE	5,427.04



13,130 State	STATE	6,427.32
13,131 State	STATE	1,604.50
13,132 State	STATE	1,598.37
13,134 State	STATE	5,087.43
13,135 State	STATE	23,973.65
13,136 State	STATE	1,602.27
13,137 State	STATE	311.3804718
13,139 State	STATE	1,599.77
13,140 State	STATE	1,608.69
13,141 State	STATE	5,991.71
13,142 State	STATE	6,410.42
13,143 State	STATE	41,899.79
13,144 State	STATE	6,047.57
13,145 State	STATE	5,997.34
13,146 State	STATE	1,605.77
13,147 State	STATE	3,891.96
13,149 State	STATE	2,278.95
13,151 State	STATE	6,428.90
13,154 State	STATE	4,841.38
13,155 State	STATE	10,710.85
13,156 State	STATE	67.05294876
13,157 State	STATE	142.631734
13,158 State	STATE	120.661321
13,159 State	STATE	208.096611
13,161 State	STATE	1,594.89
13,163 State	STATE	6,442.35
13,165 State	STATE	7,592.60
13,166 State	STATE	1,605.59
13,168 State	STATE	1,609.18
13,170 State	STATE	1,146.91
13,171 State	STATE	1,586.70
13,172 State	STATE	967.3577958
13,173 State	STATE	299.2111081
13,174 State	STATE	1,613.81
13,176 State	STATE	3,091.05
13,177 State	STATE	1,151.03
13,178 State	STATE	3,778.53
13,179 State	STATE	8,062.12
13,181 State	STATE	1,614.91
13,183 State	STATE	303.0002174
13,185 State	STATE	6,390.70
13,186 State	STATE	4,756.43
13,187 State	STATE	257.9063764
13,188 State	STATE	1,549.10
13,189 State	STATE	3,564.49
13,190 State	STATE	4,314.68
13,191 State	STATE	426.458482

13,192 State	STATE	4,644.28
13,193 State	STATE	918.9510172
13,194 State	STATE	1,176.22
13,195 State	STATE	1,587.02
13,196 State	STATE	1,571.14
13,197 State	STATE	2,373.76
13,198 State	STATE	6,479.29
13,199 State	STATE	3,208.84
13,200 State	STATE	2,185.32
13,202 State	STATE	1,602.69
13,203 State	STATE	1,027.48
13,204 State	STATE	3,563.81
13,205 State	STATE	1,587.35
13,206 State	STATE	3,956.74
13,207 State	STATE	1,584.65
13,208 State	STATE	4,000.84
13,209 State	STATE	573.706833
13,210 State	STATE	1,587.00
13,211 State	STATE	1,593.21
13,212 State	STATE	7,241.78
13,213 State	STATE	1,603.20
13,214 State	STATE	3,216.61
13,215 State	STATE	1,607.84
13,217 State	STATE	98.6631991
13,218 State	STATE	466.5204173
13,219 State	STATE	332.2125199
13,220 State	STATE	93.11922357
13,221 State	STATE	102.6332169
13,222 State	STATE	640.1505637
13,223 State	STATE	1,013.64
13,224 State	STATE	516.6839883
13,226 State	STATE	1,598.04
13,227 State	STATE	525.0755549
13,228 State	STATE	2,428.62
13,229 State	STATE	30.59666148
13,230 State	STATE	476.0096862
13,231 State	STATE	1,596.24
13,232 State	STATE	534.6561629
13,233 State	STATE	92.18684101
13,234 State	STATE	579.9543679
13,235 State	STATE	305.6928302
13,236 State	STATE	2,792.81
13,237 State	STATE	302.2717134
13,238 State	STATE	7,937.54
13,239 State	STATE	809.9074904
13,240 State	STATE	101.6045801
13,241 State	STATE	82.93767408

13,242 State	STATE	280.2915593
13,243 State	STATE	13,206.07
13,244 State	STATE	3,194.50
13,246 State	STATE	242.8686964
13,247 State	STATE	123.1016305
13,248 State	STATE	45.97292341
13,249 State	STATE	5,255.72
13,250 State	STATE	4,815.17
13,251 State	STATE	1,588.72
13,253 State	STATE	395.3036126
13,255 State	STATE	4,002.43
13,256 State	STATE	193.4887751
13,257 State	STATE	41.98549997
13,258 State	STATE	596.3446191
13,259 State	STATE	5,627.82
13,261 State	STATE	1,609.20
13,262 State	STATE	1,596.44
13,263 State	STATE	591.8492354
13,264 State	STATE	1,569.19
13,265 State	STATE	6,424.78
13,266 State	STATE	2,700.59
13,267 State	STATE	177.0883728
13,268 State	STATE	5,048.93
13,270 State	STATE	268.5602114
13,271 State	STATE	195.0662603
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13,274 State	STATE	26.83294538
13,275 State	STATE	422.3286026
13,276 State	STATE	1,570.68
13,277 State	STATE	53.03669762
13,278 State	STATE	53.29764618
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13,281 State	STATE	44.49950602
13,282 State	STATE	202.3165106
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13,287 State	STATE	181.492412
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13,291 State	STATE	3,195.65
13,292 State	STATE	998.4589871
13,293 State	STATE	2,397.49
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13,310 State	STATE	7,989.06
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13,328 State	STATE	1,611.10
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13,332 State	STATE	1,591.80
13,333 State	STATE	1,360.72
13,334 State	STATE	2,287.19
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13,348 State	STATE	4,010.82
13,350 State	STATE	7,038.27
13,351 State	STATE	603.2521798
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13,354 State	STATE	6,409.44
13,355 State	STATE	6,353.36
13,358 State	STATE	7,660.86
13,359 State	STATE	6,283.35
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13,364 State	STATE	1,698.86

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13,377 State	STATE	765.1548932
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13,381 State	STATE	448.1708984
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13,386 State	STATE	8,344.80
13,389 State	STATE	3,193.54
13,391 State	STATE	1,613.54
13,392 State	STATE	107.9518546
13,395 State	STATE	390.3139811
13,396 State	STATE	1,108.59
13,397 State	STATE	733.7723976
13,406 State	STATE	1,604.95
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13,412 State	STATE	4,014.36
13,413 State	STATE	414.4536916
13,415 State	STATE	132.7969704
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13,423 State	STATE	364.4583981
13,425 State	STATE	1,652.05
13,428 State	STATE	870.4713013
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13,478 State	STATE	1,727.13
13,484 State	STATE	47,913.97
13,485 State	STATE	4,605.46
13,486 State	STATE	867.5479431
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13,501 State	STATE	3,190.18
13,507 State	STATE	1,604.72
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13,573 State	STATE	2,400.11
13,576 State	STATE	43.19989253
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13,600 State	STATE	164.5704959
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13,613 State	STATE	3,202.21
13,621 State	STATE	5,475.33
13,623 State	STATE	63.6290061
13,624 State	STATE	66.86125255
13,626 State	STATE	62.2232931
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13,631 State	STATE	5,793.22
13,632 State	STATE	181.4796616
13,634 State	STATE	1,598.47
13,637 State	STATE	5,380.80
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13,643 State	STATE	1,613.72
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13,650 State	STATE	4,011.86
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13,655 State	STATE	549.9639203
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13,663 State	STATE	3,276.17
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13,673 State	STATE	4,825.77
13,677 State	STATE	1,599.73
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13,679 State	STATE	1,364.00
13,681 State	STATE	59.08040509
13,686 State	STATE	1,358.67
13,698 State	STATE	3,613.24
13,704 State	STATE	667.0752121
13,705 State	STATE	5,916.83
13,710 State	STATE	50.04299598
13,714 State	STATE	6,432.73

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13,717 State	STATE	587.3507808
13,740 State	STATE	2,401.79
13,746 State	STATE	6,395.14
13,753 State	STATE	8,393.36
13,755 State	STATE	350.1545635
13,757 State	STATE	965.4102074
13,760 State	STATE	4,768.76
13,763 State	STATE	8,680.96
13,769 State	STATE	3,501.82
13,777 State	STATE	733.0781335
13,779 State	STATE	1,387.23
13,783 State	STATE	6,418.26
13,785 State	STATE	465.8706893
13,789 State	STATE	4,822.59
13,796 State	STATE	1,607.40
13,807 State	STATE	25.93227204
13,833 State	STATE	6,119.44
13,837 State	STATE	3,304.60
13,839 State	STATE	18,375.46
13,840 State	STATE	4,354.15
13,843 State	STATE	4,033.64
13,849 State	STATE	3,092.30
13,852 State	STATE	1,171.13
13,856 State	STATE	4,010.83
13,859 State	STATE	6,434.03
13,862 State	STATE	1,707.84
13,864 State	STATE	3,293.67
13,867 State	STATE	38,553.38
13,871 State	STATE	6,386.45
13,873 State	STATE	7,187.94
13,874 State	STATE	4,026.54
13,875 State	STATE	2,410.06
13,876 State	STATE	3,256.77
13,880 State	STATE	712.5252687
13,881 State	STATE	657.9878493
13,887 State	STATE	3,723.19
13,890 State	STATE	702.4237895
13,892 State	STATE	6,434.39
13,898 State	STATE	1,607.40
13,904 State	STATE	6,436.42
13,908 State	STATE	6,648.00
13,917 State	STATE	1,734.69
13,923 State	STATE	2,005.14
13,924 State	STATE	8,057.60
13,938 State	STATE	6,442.25
13,940 State	STATE	6,459.28



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13,951 State	STATE	1,606.07
13,958 State	STATE	897.3222752
13,962 State	STATE	2,411.91
13,969 State	STATE	4,035.54
13,970 State	STATE	4,275.46
13,972 State	STATE	6,446.42
13,975 State	STATE	1,613.01
13,976 State	STATE	952.275137
13,977 State	STATE	1,612.37
13,978 State	STATE	14,458.38
13,980 State	STATE	3,269.87
13,982 State	STATE	825.7984759
13,983 State	STATE	1,612.86
14,017 State	STATE	1,394.77
14,039 State	STATE	17,728.31
14,040 State	STATE	826.8610805
14,044 State	STATE	3,926.85
14,047 State	STATE	1,607.22
14,048 State	STATE	138.1177971
14,049 State	STATE	3,516.32
14,054 State	STATE	2,424.09
14,058 State	STATE	3,456.65
14,061 State	STATE	5,084.06
14,062 State	STATE	3,922.76
14,063 State	STATE	3,218.02
14,069 State	STATE	15,286.06
14,072 State	STATE	2,423.39
14,076 State	STATE	5,179.88
14,079 State	STATE	6,317.16
14,082 State	STATE	919.016575
14,087 State	STATE	6,442.63
14,089 State	STATE	6,439.17
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14,093 State	STATE	6,431.73
14,098 State	STATE	10,716.65
14,101 State	STATE	1,420.54
14,102 State	STATE	2,404.55
14,104 State	STATE	4,328.83
14,109 State	STATE	741.1882209
14,110 State	STATE	455.8371524
14,111 State	STATE	6,409.75
14,115 State	STATE	8,018.49
14,118 State	STATE	160.2634516
14,119 State	STATE	243.9417942
14,120 State	STATE	243.383205
14,123 State	STATE	6,411.97

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14,129 State	STATE	663.9705328
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14,131 State	STATE	6,454.66
14,140 State	STATE	697.2917106
14,141 State	STATE	30,378.56
14,145 State	STATE	4,819.32
14,146 State	STATE	5,592.89
14,151 State	STATE	569.6217677
14,152 State	STATE	1,609.08
14,153 State	STATE	109.7162272
14,155 State	STATE	1,608.86
14,157 State	STATE	2,421.92
14,161 State	STATE	7,329.73
14,162 State	STATE	6,422.76
14,166 State	STATE	2,123.57
14,168 State	STATE	830.5302244
14,169 State	STATE	415.8519588
14,180 State	STATE	3,785.02
14,182 State	STATE	6,441.76
14,185 State	STATE	4,047.07
14,193 State	STATE	6,056.13
14,196 State	STATE	61,705.83
14,198 State	STATE	4,824.97
14,199 State	STATE	343.5255004
14,201 State	STATE	6,439.38
14,204 State	STATE	1,040.35
14,205 State	STATE	61.82972682
14,206 State	STATE	880.7835715
14,210 State	STATE	84,077.66
14,211 State	STATE	22,479.81
14,212 State	STATE	153.4666515
14,216 State	STATE	1,238.98
14,219 State	STATE	6,443.35
14,220 State	STATE	181.322789
14,221 State	STATE	2,964.42
14,230 State	STATE	1,848.86
14,234 State	STATE	433.5498648
14,242 State	STATE	1,322.95
14,244 State	STATE	4,026.03
14,259 State	STATE	6,438.76
14,275 State	STATE	1,310.94
14,277 State	STATE	8,041.55
14,288 State	STATE	512.7956573
14,290 State	STATE	3,249.60
14,291 State	STATE	2,247.62
14,292 State	STATE	1,615.78

14,298 State	STATE	3,168.19
14,303 State	STATE	818.3875222
14,307 State	STATE	1,627.35
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14,329 State	STATE	38,025.78
14,337 State	STATE	28,188.26
14,339 State	STATE	3,223.30
14,350 State	STATE	6,397.94
14,356 State	STATE	1,616.40
14,363 State	STATE	8,502.90
14,376 State	STATE	683.536971
15,005 USFS	USFS	1,000.23
15,019 USFS	USFS	100.5113449
15,020 USFS	USFS	116.9853136
15,021 USFS	USFS	229.6572185
15,022 USFS	USFS	155.1061155
15,023 USFS	USFS	147.4100479
15,027 USFS	USFS	208.2590038
15,028 USFS	USFS	1,968.05
15,029 USFS	USFS	1,124.46
15,030 USFS	USFS	2,195.70
15,031 USFS	USFS	27.20460438
15,032 USFS	USFS	1,204.98
15,033 USFS	USFS	2,209.52
15,034 USFS	USFS	1,167.24
15,035 USFS	USFS	786.117054
15,036 USFS	USFS	1,023.17
15,037 USFS	USFS	50.21586197
15,038 USFS	USFS	300.0328213
15,039 USFS	USFS	931.722665
15,040 USFS	USFS	4.902378536
15,041 USFS	USFS	703.0169812
15,042 USFS	USFS	151.0902949
15,043 USFS	USFS	151.4488259
15,044 USFS	USFS	762.3678266
15,045 USFS	USFS	1,936.73
15,046 USFS	USFS	409.6786137
15,047 USFS	USFS	174.2960454
15,048 USFS	USFS	410.8780793
15,049 USFS	USFS	20,211.00
15,050 USFS	USFS	683.6255802
15,051 USFS	USFS	226.9016445
15,052 USFS	USFS	215.1953476
15,053 USFS	USFS	605.5718993
15,054 USFS	USFS	191.1086094

15,055 USFS	USFS	2,984.30
15,056 USFS	USFS	2,187.97
15,057 USFS	USFS	4,830.33
15,058 USFS	USFS	309.9497172
15,059 USFS	USFS	877.5923424
15,060 USFS	USFS	353.4823848
15,061 USFS	USFS	2,337.11
15,062 USFS	USFS	974.1121073
15,063 USFS	USFS	33,093.83
15,064 USFS	USFS	1,652.35
15,065 USFS	USFS	1,621.69
15,066 USFS	USFS	523.8357357
15,067 USFS	USFS	3,081.39
15,068 USFS	USFS	309.1015233
15,069 USFS	USFS	7,202.39
15,070 USFS	USFS	230,700.28
15,071 USFS	USFS	225.6770197
15,072 USFS	USFS	3,181.71
15,073 USFS	USFS	714.3378611
15,074 USFS	USFS	1,595.50
15,075 USFS	USFS	92.00359037
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15,079 USFS	USFS	16,462.23
15,080 USFS	USFS	1,636.10
15,081 USFS	USFS	311.5050631
15,082 USFS	USFS	197.5309062
15,083 USFS	USFS	462.476078
15,084 USFS	USFS	1,123.16
15,085 USFS	USFS	2,005.10
15,086 USFS	USFS	1,599.87
15,087 USFS	USFS	1,602.63
15,088 USFS	USFS	1,503.12
15,089 USFS	USFS	1,381.56
15,090 USFS	USFS	2,398.81
15,091 USFS	USFS	1,597.16
15,093 USFS	USFS	242.3724928
15,096 USFS	USFS	634.2878899
15,097 USFS	USFS	2,169.28
15,099 USFS	USFS	1,033.40
15,100 USFS	USFS	2,423.77
15,101 USFS	USFS	1,997.57
15,102 USFS	USFS	2,864.43
15,103 USFS	USFS	167.8954609
15,104 USFS	USFS	1,747.27
15,105 USFS	USFS	10,746.56

15,106 USFS	USFS	1,491.07
15,107 USFS	USFS	2,929.79
15,108 USFS	USFS	1,184.40
15,109 USFS	USFS	1,255.70
15,113 USFS	USFS	107.4662236
15,115 USFS	USFS	774.9785962
15,116 USFS	USFS	228,835.65
15,117 USFS	USFS	1,661.01
15,118 USFS	USFS	2,558.68
15,119 USFS	USFS	4,739.68
15,120 USFS	USFS	508.7704725
15,121 USFS	USFS	222.577783
15,122 USFS	USFS	592.3535708
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15,126 USFS	USFS	5,471.62
15,127 USFS	USFS	1,605.95
15,128 USFS	USFS	1,847.08
15,129 USFS	USFS	3,410.84
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15,131 USFS	USFS	2,622.28
15,132 USFS	USFS	1,512.84
15,133 USFS	USFS	457.2948958
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15,136 USFS	USFS	1,278.27
15,137 USFS	USFS	1,278.59
15,139 USFS	USFS	207.701096
15,140 USFS	USFS	18.13113095
15,144 USFS	USFS	8,045.34
15,145 USFS	USFS	743.767398
15,147 USFS	USFS	5,262.43
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15,151 USFS	USFS	1,325.52
15,156 USFS	USFS	5,256.58
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15,164 USFS	USFS	3,082.64
15,165 USFS	USFS	424,004.52
15,169 USFS	USFS	136.8901048
15,170 USFS	USFS	4,019.29
15,171 USFS	USFS	1,636.74
15,172 USFS	USFS	1,146.50
15,175 USFS	USFS	1,699,689.97
15,176 USFS	USFS	298,999.78

15,177 USFS	USFS	694.9615572
15,178 USFS	USFS	810.2548361
15,181 USFS	USFS	9,026.28
15,183 USFS	USFS	1,363.99
15,185 USFS	USFS	615,895.88
15,186 USFS	USFS	32,021.76
15,188 USFS	USFS	684.688118
15,189 USFS	USFS	230.681522
15,190 USFS	USFS	270.1254777
15,192 USFS	USFS	521.2067121
15,193 USFS	USFS	639.4397544
15,194 USFS	USFS	121.1962637
15,195 USFS	USFS	291.1115568
15,196 USFS	USFS	1,221.93
15,202 USFS	USFS	1,236.53
15,206 USFS	USFS	1,017.30
15,211 USFS	USFS	493.897804
15,212 USFS	USFS	7,694.93
15,217 USFS	USFS	40,895.26
15,226 USFS	USFS	1,244.54
15,227 USFS	USFS	513.4568986
15,228 USFS	USFS	1,126.26
15,242 USFS	USFS	796.6473305
15,244 USFS	USFS	517.8078394
15,246 USFS	USFS	1,441.81
15,247 USFS	USFS	595.8749472
15,248 USFS	USFS	425.6072909
15,249 USFS	USFS	374.3546282
15,250 USFS	USFS	1,724.02
15,251 USFS	USFS	99.09067589
15,252 USFS	USFS	81.47171314
15,253 USFS	USFS	1,827.80
15,254 USFS	USFS	214.034307
15,255 USFS	USFS	125.4019382
15,262 USFS	USFS	4,445,173.04
15,294 USFS Not Analyzed	USFS Not Analyzed	1,616.75
15,300 USFS Not Analyzed	USFS Not Analyzed	1,064.60
15,301 USFS Not Analyzed	USFS Not Analyzed	1,862.66
15,307 USFS Not Analyzed	USFS Not Analyzed	4,087.39
15,314 USFS Not Analyzed	USFS Not Analyzed	423.1892621
15,315 USFS Not Analyzed	USFS Not Analyzed	142.3493069
15,316 USFS Not Analyzed	USFS Not Analyzed	862.0333862
15,317 USFS Not Analyzed	USFS Not Analyzed	1,280.76
15,319 USFS Not Analyzed	USFS Not Analyzed	2,391.53
15,323 USFS Not Analyzed	USFS Not Analyzed	111,341.11
15,324 USFS Not Analyzed	USFS Not Analyzed	4,444.82
15,325 USFS Not Analyzed	USFS Not Analyzed	1,613.23

15,329 USFS Not Analyzed	USFS Not Analyzed	2,417.47
15,330 USFS Not Analyzed	USFS Not Analyzed	1,608.71
15,331 USFS Not Analyzed	USFS Not Analyzed	86,673.04
15,334 USFS Not Analyzed	USFS Not Analyzed	636,324.71
15,335 USFS Not Analyzed	USFS Not Analyzed	776,796.89
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639 BLM	BLM	2,416.73
644 BLM	BLM	389.8589644
645 BLM	BLM	252.5826954
647 BLM	BLM	8.31309892
648 BLM	BLM	7,467.06
650 BLM	BLM	186.9940955
655 BLM	BLM	28.26846128
656 BLM	BLM	232.1273239
664 BLM	BLM	7,495.44
666 BLM	BLM	292.5630487
667 BLM	BLM	200.8659462
673 BLM	BLM	1,707.53
676 BLM	BLM	2,948.84
678 BLM	BLM	4,019.65
679 BLM	BLM	182.6116914
680 BLM	BLM	24,087.40
686 BLM	BLM	44.44680112
687 BLM	BLM	99.32304943
689 BLM	BLM	4,797.40
690 BLM	BLM	2,603.48
691 BLM	BLM	3,204.21
697 BLM	BLM	1,207.39
698 BLM	BLM	2,414.54
701 BLM	BLM	729.3732317
703 BLM	BLM	1,690.64
708 BLM	BLM	498.2861194
710 BLM	BLM	1,173.38
726 BLM	BLM	3,740.95
732 BLM	BLM	873.7157174
734 BLM	BLM	6,817.14
735 BLM	BLM	6,376.96
736 BLM	BLM	1,606.60
738 BLM	BLM	1,561.29
740 BLM	BLM	1,608.40
742 BLM	BLM	271.857383
747 BLM	BLM	2,408.81
748 BLM	BLM	10,550.12
749 BLM	BLM	5,743.59
752 BLM	BLM	11,239.96
753 BLM	BLM	1,088.05
757 BLM	BLM	4,035.56

759 BLM	BLM	1,610.74
762 BLM	BLM	2,002.72
765 BLM	BLM	8,043.80
766 BLM	BLM	1,657.61
771 BLM	BLM	4,026.34
773 BLM	BLM	523.1118372
774 BLM	BLM	1,611.92
775 BLM	BLM	1,654.77
776 BLM	BLM	1,464.49
780 BLM	BLM	20,211.88
782 BLM	BLM	96.26878992
783 BLM	BLM	1,315.56
784 BLM	BLM	637.0172185
785 BLM	BLM	1,777.85
786 BLM	BLM	411.6934238
788 BLM	BLM	351.491357
790 BLM	BLM	1,973.74
792 BLM	BLM	185.1737192
794 BLM	BLM	563.362357
795 BLM	BLM	1,583.83
797 BLM	BLM	7,252.84
798 BLM	BLM	1,115.35
800 BLM	BLM	813.264663
801 BLM	BLM	859.8277068
805 BLM	BLM	235.5420144
808 BLM	BLM	2,397.53
809 BLM	BLM	1,169.97
811 BLM	BLM	809.5372846
816 BLM	BLM	1,475.58
819 BLM	BLM	5,838.95
821 BLM	BLM	1,614.51
823 BLM	BLM	2,874.93
825 BLM	BLM	6,458.57
826 BLM	BLM	3,204.58
828 BLM	BLM	2,012.02
829 BLM	BLM	1,029.90
832 BLM	BLM	186,785.59
836 BLM	BLM	1,609.31
837 BLM	BLM	4,334.63
841 BLM	BLM	299.7919089
845 BLM	BLM	880.7987923
847 BLM	BLM	906.8042083
849 BLM	BLM	1,977.32
857 BLM	BLM	1,610.04
860 BLM	BLM	10,783.72
875 BLM	BLM	1,609.36
880 BLM	BLM	3,209.34



881 BLM	BLM	2,345.28
885 BLM	BLM	859.1975297
886 BLM	BLM	1,594.82
888 BLM	BLM	3,308.25
889 BLM	BLM	1,928.68
890 BLM	BLM	1,607.98
891 BLM	BLM	1,630.13
894 BLM	BLM	331.8674299
895 BLM	BLM	1,609.92
896 BLM	BLM	3,221.32
897 BLM	BLM	3,206.14
899 BLM	BLM	4,816.06
900 BLM	BLM	3,217.53
902 BLM	BLM	1,610.91
904 BLM	BLM	1,647.21
905 BLM	BLM	2,786.80
907 BLM	BLM	5,610.51
908 BLM	BLM	4,018.21
909 BLM	BLM	4,024.43
911 BLM	BLM	1,609.54
913 BLM	BLM	1,611.66
915 BLM	BLM	7,064.50
919 BLM	BLM	3,208.41
921 BLM	BLM	2,126.02
922 BLM	BLM	15,019.10
925 BLM	BLM	2,409.02
927 BLM	BLM	1,609.41
928 BLM	BLM	1,605.57
930 BLM	BLM	3,966.73
934 BLM	BLM	3,229.34
935 BLM	BLM	6,441.67
937 BLM	BLM	1,200.16
938 BLM	BLM	1,565.31
939 BLM	BLM	686.0707481
941 BLM	BLM	6,761.35
945 BLM	BLM	4,830.98
946 BLM	BLM	1,207.26
948 BLM	BLM	2,418.83
949 BLM	BLM	7,800.51
952 BLM	BLM	1,610.36
953 BLM	BLM	1,608.83
954 BLM	BLM	1,588.24
958 BLM	BLM	4,830.73
959 BLM	BLM	1,606.76
961 BLM	BLM	2,410.71
962 BLM	BLM	2,430.24
963 BLM	BLM	2,419.86

964 BLM	BLM	1,607.98
965 BLM	BLM	1,620.72
966 BLM	BLM	7,264.08
967 BLM	BLM	4,840.39
968 BLM	BLM	6,048.00
969 BLM	BLM	1,290.26
970 BLM	BLM	1,609.37
971 BLM	BLM	1,605.66
972 BLM	BLM	3,219.64
973 BLM	BLM	3,206.81
974 BLM	BLM	1,064.06
975 BLM	BLM	1,609.83
976 BLM	BLM	1,066.27
977 BLM	BLM	2,371.48
979 BLM	BLM	1,096.60
980 BLM	BLM	3,203.96
982 BLM	BLM	1,610.26
988 BLM	BLM	2,004.58
989 BLM	BLM	1,520.73
990 BLM	BLM	2,422.95
991 BLM	BLM	2,442.71
999 BLM	BLM	2,373.36
1,003 BLM	BLM	1,850.11
1,004 BLM	BLM	2,376.98
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1,022 BLM	BLM	1,524.85
1,031 BLM	BLM	2,257.88
1,048 BLM	BLM	3,069.92
1,049 BLM	BLM	7,166.72
1,050 BLM	BLM	1,580.53
1,052 BLM	BLM	378.5273715
1,054 BLM	BLM	2,174.69
1,058 BLM	BLM	13,518.54
1,059 BLM	BLM	1,096.78
1,060 BLM	BLM	15,449.60
1,066 BLM	BLM	2,042.97
1,079 BLM	BLM	398.67168
1,080 BLM	BLM	8,164.29
1,083 BLM	BLM	2,420.49
1,085 BLM	BLM	4,836.65
1,092 BLM	BLM	969.0832952
1,093 BLM	BLM	2,422.67
1,100 BLM	BLM	1,620.47
1,101 BLM	BLM	10,490.99
1,106 BLM	BLM	1,623.38
1,108 BLM	BLM	2,326.68

1,109 BLM	BLM	275.0180852
1,112 BLM	BLM	4,030.63
1,113 BLM	BLM	2,322.53
1,116 BLM	BLM	3,460.94
1,120 BLM	BLM	1,084.92
1,125 BLM	BLM	1,618.19
1,127 BLM	BLM	1,612.74
1,129 BLM	BLM	691.8790984
1,132 BLM	BLM	1,590.51
1,138 BLM	BLM	2,117.69
1,148 BLM	BLM	3,717.82
1,149 BLM	BLM	882.3039417
1,150 BLM	BLM	3,226.66
1,151 BLM	BLM	897.5625932
1,153 BLM	BLM	551.3925049
1,163 BLM	BLM	1,777.89
1,183 BLM	BLM	281.0939847
1,185 BLM	BLM	2,322.08
1,195 BLM	BLM	13,569.17
1,197 BLM	BLM	1,129.28
1,199 BLM	BLM	1,607.08
1,202 BLM	BLM	2,424.70
1,204 BLM	BLM	267.9013716
1,207 BLM	BLM	1,621.27
1,216 BLM	BLM	1,911.17
1,222 BLM	BLM	853.3378259
1,224 BLM	BLM	221.6032882
1,225 BLM	BLM	421.4024666
1,226 BLM	BLM	1,685.86
1,227 BLM	BLM	99.73293196
1,229 BLM	BLM	395.4435835
1,239 BLM	BLM	163.4865547
1,246 BLM	BLM	421.9581415
1,252 BLM	BLM	721.4766788
1,258 BLM	BLM	223.4858443
1,259 BLM	BLM	1,950.04
1,262 BLM	BLM	374.8553763
1,263 BLM	BLM	410.4250507
1,267 BLM	BLM	360.6594812
1,270 BLM	BLM	465.8470755
1,274 BLM	BLM	1,615.05
1,275 BLM	BLM	285.2087933
1,277 BLM	BLM	1,045.78
1,279 BLM	BLM	198.8787069
1,280 BLM	BLM	660.6965089
1,281 BLM	BLM	358.8829494
1,283 BLM	BLM	275.2836265

1,285 BLM	BLM	392.3515158
1,288 BLM	BLM	426.3933905
1,290 BLM	BLM	966.4649984
1,294 BLM	BLM	105.3546638
1,298 BLM	BLM	234.1489401
1,299 BLM	BLM	130.6227999
1,301 BLM	BLM	488.4082812
1,305 BLM	BLM	435.9741672
1,306 BLM	BLM	327.0968896
1,308 BLM	BLM	274.6766394
1,317 BLM	BLM	1,171.67
1,319 BLM	BLM	105.2358175
1,320 BLM	BLM	636.0735995
1,322 BLM	BLM	831.1444689
1,328 BLM	BLM	784.8830908
1,331 BLM	BLM	2,806.40
1,332 BLM	BLM	7,367.11
1,334 BLM	BLM	3,225.11
1,336 BLM	BLM	1,284.53
1,338 BLM	BLM	5,964.50
1,353 BLM	BLM	1,602.47
1,360 BLM	BLM	5,934.39
1,383 BLM	BLM	4,864.37
1,395 BLM	BLM	97.88609673
1,399 BLM	BLM	277.0037773
1,403 BLM	BLM	179.4197883
1,405 BLM	BLM	7,321.11
1,406 BLM	BLM	385.6642548
1,409 BLM	BLM	177.4492838
1,411 BLM	BLM	15,968.00
1,412 BLM	BLM	507.5898116
1,413 BLM	BLM	2,416.86
1,414 BLM	BLM	1,134.45
1,416 BLM	BLM	1,355.41
1,420 BLM	BLM	131.4283639
1,430 BLM	BLM	324.9769688
1,435 BLM	BLM	1,021.05
1,439 BLM	BLM	3,178.54
1,441 BLM	BLM	4,904.19
1,442 BLM	BLM	1,193.82
1,444 BLM	BLM	818.7602432
1,467 BLM	BLM	518.5603161
1,472 BLM	BLM	8,835.14
1,490 BLM	BLM	9,687.18
1,496 BLM	BLM	14,652.84
1,508 BLM	BLM	599.3355437
1,509 BLM	BLM	13,691.31

1,515 BLM	BLM	3,210.35
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1,518 BLM	BLM	1,484.84
1,523 BLM	BLM	843.6615557
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1,526 BLM	BLM	669.9167492
1,527 BLM	BLM	625.9160191
1,528 BLM	BLM	19,295.70
1,529 BLM	BLM	1,032.26
1,530 BLM	BLM	1,389.11
1,531 BLM	BLM	2,175.14
1,533 BLM	BLM	8,872.58
1,536 BLM	BLM	1,608.78
1,538 BLM	BLM	11,382.44
1,540 BLM	BLM	4,024.95
1,541 BLM	BLM	11,949.73
1,543 BLM	BLM	149.9481807
1,544 BLM	BLM	2,439.75
1,547 BLM	BLM	1,034.57
1,562 BLM	BLM	1,606.03
1,564 BLM	BLM	806.4690699
1,567 BLM	BLM	2,417.49
1,573 BLM	BLM	2,411.81
1,574 BLM	BLM	12.67907262
1,575 BLM	BLM	2,478.42
1,578 BLM	BLM	366.4291301
1,589 BLM	BLM	1,615.70
1,591 BLM	BLM	3,220.30
1,594 BLM	BLM	148.8348303
1,602 BLM	BLM	2,039.27
1,605 BLM	BLM	307.1877331
1,611 BLM	BLM	776.5901478
1,614 BLM	BLM	869.6674215
1,635 BLM	BLM	256,030.71
1,637 BLM	BLM	36,217.48
1,641 BLM	BLM	22,425.96
1,663 BLM	BLM	646.0794612
1,677 BLM	BLM	6,476.33
1,682 BLM	BLM	106.7132055
1,703 BLM	BLM	9,031.96
1,706 BLM	BLM	4,010.72
1,712 BLM	BLM	1,427.90
1,719 BLM	BLM	750.0730959
1,739 BLM	BLM	2,274.47
1,756 BLM	BLM	3,217.07
1,779 BLM	BLM	4,037.09
1,792 BLM	BLM	96.57431028

1,800 BLM	BLM	2,238.66
1,803 BLM	BLM	884.5196017
1,806 BLM	BLM	542.190007
1,809 BLM	BLM	4,281.01
1,815 BLM	BLM	245.8606696
1,819 BLM	BLM	1,604.66
1,823 BLM	BLM	713.8416988
1,833 BLM	BLM	1,269.63
1,835 BLM	BLM	1,068.91
1,838 BLM	BLM	1,605.92
1,844 BLM	BLM	585.8940929
1,856 BLM	BLM	2,583.97
1,863 BLM	BLM	24.47901371
1,864 BLM	BLM	294.4450932
1,871 BLM	BLM	2,183.51
1,877 BLM	BLM	2,119.78
1,878 BLM	BLM	1,474.37
1,880 BLM	BLM	2,379.82
1,891 BLM	BLM	721.9738657
1,892 BLM	BLM	2,380.31
1,897 BLM	BLM	755.4329525
1,904 BLM	BLM	1,009.78
1,905 BLM	BLM	1,675.10
1,906 BLM	BLM	189.0774838
1,912 BLM	BLM	2,752.85
1,916 BLM	BLM	2,176.10
1,918 BLM	BLM	812.2993986
1,920 BLM	BLM	682.1565548
1,922 BLM	BLM	1,216.86
1,934 BLM	BLM	1,101.90
1,935 BLM	BLM	536.5196958
1,944 BLM	BLM	1,208.41
1,946 BLM	BLM	778.2521336
1,949 BLM	BLM	1,192.54
1,954 BLM	BLM	2,527.27
1,960 BLM	BLM	1,791.86
1,989 BLM	BLM	193.5338852
2,010 BLM	BLM	1,502.76
2,114 BLM	BLM	1,619.27
2,315 BLM	BLM	133,320.84
2,648 BLM	BLM	56,364.75
2,721 BLM	BLM	1,508.54
3,362 BLM	BLM	1,862,201.19
4,542 Other Federal	BOR	1,109.52
4,545 Other Federal	BOR	1,737.21
4,546 Other Federal	BOR	715.4515284
4,549 Other Federal	BOR	3,582.47

4,554 Other Federal	BOR	8,921.19
4,555 Other Federal	BOR	1,076.74
4,557 Other Federal	BOR	2,051.50
4,558 Other Federal	BOR	1,095.88
4,559 Other Federal	BOR	15,350.92
4,561 Other Federal	BOR	2,113.83
4,563 Other Federal	BOR	142.726514
4,565 Other Federal	BOR	1,477.06
4,567 Other Federal	BOR	2,126.26
4,568 Other Federal	BOR	1,883.22
4,570 Other Federal	BOR	12,457.45
4,572 Other Federal	BOR	2,424.85
4,573 Other Federal	BOR	1,429.99
4,574 Other Federal	BOR	40,974.09
4,575 Other Federal	BOR	249.4744774
4,577 Other Federal	BOR	44,386.56
4,578 Other Federal	BOR	41,916.37
4,579 Other Federal	BOR	1,675.59
4,581 Other Federal	BOR	922.1238206
4,582 Other Federal	BOR	1,272.97
4,583 Other Federal	BOR	650.6883747
4,584 Other Federal	BOR	2,107.95
4,585 Other Federal	BOR	11,929.22
4,586 Other Federal	BOR	9,593.72
4,587 Other Federal	BOR	91.39314621
4,588 Other Federal	BOR	3,031.48
4,589 Other Federal	BOR	1,609.02
4,590 Other Federal	BOR	1,612.48
4,591 Other Federal	BOR	1,607.48
4,592 Other Federal	BOR	2,404.13
4,593 Other Federal	BOR	1,204.89
4,594 Other Federal	BOR	9,544.28
4,595 Other Federal	BOR	2,015.58
4,596 Other Federal	BOR	4,818.40
4,597 Other Federal	BOR	25,858.47
4,598 Other Federal	BOR	1,702.61
4,599 Other Federal	BOR	2,410.60
4,600 Other Federal	BOR	2,813.91
4,601 Other Federal	BOR	2,153.21
4,602 Other Federal	BOR	1,204.90
4,604 Other Federal	BOR	5,613.54
4,605 Other Federal	BOR	795.0745741
4,606 Other Federal	BOR	9,648.29
4,608 Other Federal	BOR	1,887.05
4,609 Other Federal	BOR	1,358.11
4,610 Other Federal	BOR	7,804.46
4,611 Other Federal	BOR	5,657.10

4,612 Other Federal	BOR	7,920.63
4,613 Other Federal	BOR	738.7720207
4,614 Other Federal	BOR	1,184.18
4,615 Other Federal	BOR	5,257.97
4,616 Other Federal	BOR	19,187.85
4,617 Other Federal	BOR	1,623.84
4,619 Other Federal	BOR	13,723.55
4,620 Other Federal	BOR	867.7861631
4,622 Other Federal	BOR	2,249.69
4,624 Other Federal	BOR	975.9842941
4,625 Other Federal	BOR	8,611.14
4,626 Other Federal	BOR	1,081.20
4,627 Other Federal	BOR	13,007.93
4,628 Other Federal	BOR	3,273.02
4,629 Other Federal	BOR	5,365.67
4,630 Other Federal	BOR	1,308.10
4,631 Other Federal	BOR	1,599.78
4,632 Other Federal	BOR	7,634.25
4,633 Other Federal	BOR	1,766.55
4,635 Other Federal	BOR	424.5486253
4,636 Other Federal	BOR	3,484.55
4,637 Other Federal	BOR	436.4638758
4,638 Other Federal	BOR	11,221.07
4,639 Other Federal	BOR	8,662.34
4,640 Other Federal	BOR	13,148.87
4,641 Other Federal	BOR	4,344.21
4,642 Other Federal	BOR	680.8687479
4,643 Other Federal	BOR	1,162.26
4,644 Other Federal	BOR	1,461.90
4,645 Other Federal	BOR	483.1341807
4,646 Other Federal	BOR	1,620.65
4,647 Other Federal	BOR	3,273.01
4,648 Other Federal	BOR	872.4093522
4,649 Other Federal	BOR	819.8385811
4,650 Other Federal	BOR	369.7792566
4,651 Other Federal	BOR	4,048.02
4,652 Other Federal	BOR	1,728.27
4,653 Other Federal	BOR	13,832.97
4,654 Other Federal	BOR	846.0364953
4,655 Other Federal	BOR	1,193.98
4,656 Other Federal	BOR	2,271.84
4,657 Other Federal	BOR	9,136.54
4,658 Other Federal	BOR	803.3311437
4,659 Other Federal	BOR	1,695.04
4,660 Other Federal	BOR	38,530.30
4,662 Other Federal	BOR	3,574.33
4,663 Other Federal	BOR	43,000.76



4,665 Other Federal	BOR	803.862832
4,666 Other Federal	BOR	11,728.22
4,668 Other Federal	BOR	41,778.06
4,672 Other Federal	BOR	2,412.02
4,677 Other Federal	BOR	925.3388855
4,679 Other Federal	BOR	830.6283178
4,680 Other Federal	BOR	1,616.88
4,684 Other Federal	BOR	1,615.77
4,685 Other Federal	BOR	2,411.86
4,686 Other Federal	BOR	1,610.99
4,687 Other Federal	BOR	23,900.93
4,688 Other Federal	BOR	3,262.00
4,689 Other Federal	BOR	2,419.43
4,691 Other Federal	BOR	16,925.76
4,692 Other Federal	BOR	4,049.34
4,698 Other Federal	BOR	8,461.62
4,699 Other Federal	BOR	1,617.23
4,702 Other Federal	BOR	2,418.01
4,704 Other Federal	BOR	3,808.75
4,711 Other Federal	BOR	4,057.82
4,731 Other Federal	BOR	171.4438859
4,733 Other Federal	BOR	625.2787441
4,734 Other Federal	BOR	727.3706704
4,735 Other Federal	BOR	485.066574
4,736 Other Federal	BOR	280.4332983
4,976 Other Federal	DOE	56,397.69
4,980 HSTRCWTR	HSTRCWTR	874.2052077
4,981 HSTRCWTR	HSTRCWTR	403.926807
4,982 HSTRCWTR	HSTRCWTR	8,640.36
4,983 HSTRCWTR	HSTRCWTR	15,390.12
4,984 HSTRCWTR	HSTRCWTR	26,487.35
4,985 HSTRCWTR	HSTRCWTR	114,262.05
4,986 HSTRCWTR	HSTRCWTR	29,193.59
4,988 HSTRCWTR	HSTRCWTR	77,986.04
4,990 HSTRCWTR	HSTRCWTR	386.0361565
4,991 HSTRCWTR	HSTRCWTR	446.0836599
4,992 HSTRCWTR	HSTRCWTR	54,932.99
4,993 HSTRCWTR	HSTRCWTR	9,824.95
4,994 HSTRCWTR	HSTRCWTR	27,008.27
4,999 HSTRCWTR	HSTRCWTR	3,553.41
5,002 HSTRCWTR	HSTRCWTR	1,261.39
5,004 HSTRCWTR	HSTRCWTR	97,495.04
5,024 HSTRCWTR	HSTRCWTR	40,314.25
5,034 HSTRCWTR	HSTRCWTR	14,436.93
5,035 HSTRCWTR	HSTRCWTR	2,479.04
5,051 HSTRCWTR	HSTRCWTR	21,232.95
5,052 HSTRCWTR	HSTRCWTR	4,921.63

5,053 HSTRCWTR	HSTRCWTR	12,808.83
5,054 HSTRCWTR	HSTRCWTR	10,821.88
5,056 HSTRCWTR	HSTRCWTR	253.9709113
5,058 HSTRCWTR	HSTRCWTR	34,532.77
5,064 HSTRCWTR	HSTRCWTR	30,852.08
5,072 HSTRCWTR	HSTRCWTR	13,335.62
5,075 HSTRCWTR	HSTRCWTR	371,032.29
5,078 HSTRCWTR	HSTRCWTR	20,697.48
5,084 HSTRCWTR	HSTRCWTR	9,560.35
5,088 HSTRCWTR	HSTRCWTR	10,666.40
5,091 HSTRCWTR	HSTRCWTR	4,010.51
5,093 HSTRCWTR	HSTRCWTR	6,797.40
5,097 HSTRCWTR	HSTRCWTR	1,641.51
5,098 HSTRCWTR	HSTRCWTR	4,518.62
5,099 HSTRCWTR	HSTRCWTR	916.5431347
5,100 HSTRCWTR	HSTRCWTR	1,037.90
5,101 HSTRCWTR	HSTRCWTR	2,142.86
5,102 HSTRCWTR	HSTRCWTR	4,218.48
5,103 HSTRCWTR	HSTRCWTR	11,027.28
5,104 HSTRCWTR	HSTRCWTR	619.9013543
5,105 HSTRCWTR	HSTRCWTR	462.8447223
5,106 HSTRCWTR	HSTRCWTR	508.3160405
5,107 HSTRCWTR	HSTRCWTR	13,602.80
5,108 HSTRCWTR	HSTRCWTR	11,827.68
5,109 HSTRCWTR	HSTRCWTR	7,763.52
5,110 HSTRCWTR	HSTRCWTR	530.0394507
5,111 HSTRCWTR	HSTRCWTR	490.8008502
5,113 HSTRCWTR	HSTRCWTR	2,618.68
5,114 HSTRCWTR	HSTRCWTR	1,094.81
5,360 IR	IR	960.5775691
5,362 IR	IR	1,310.04
5,367 IR	IR	154.8283712
5,371 IR	IR	707.2151054
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5,381 IR	IR	24,307.06
5,521 Other Federal	MIL	9,701.76
5,522 Other Federal	MIL	21,348.50
5,523 Other Federal	MIL	12,038.45
5,549 Other Federal	NPS	3,926.30
5,550 Other Federal	NPS	2,406.04
5,552 Other Federal	NPS	19,272.80
5,553 Other Federal	NPS	317,167.75
5,555 Other Federal	NPS	36,895.77
5,556 Other Federal	NPS	13,529.92
5,557 Other Federal	NPS	201,131.74
5,558 Other Federal	NPS	144,169.21
5,559 Other Federal	NPS	649,995.85

5,566 Other Federal	NWR	10,809.35
5,567 Other Federal	NWR	1,369.57
5,568 Other Federal	NWR	3,212.74
5,569 Other Federal	NWR	5,628.86
5,570 Other Federal	NWR	14,761.33
5,571 Other Federal	NWR	251.0470558
5,572 Other Federal	NWR	17,605.46
5,573 Other Federal	NWR	23,114.16
5,574 Other Federal	NWR	31,522.78
5,704 Other Federal	OTHER	1,202.50
5,734 Other Federal	OTHER	3,472.11
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6,112 Private	PRIVATE	249.9264269
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6,115 Private	PRIVATE	88.32180746
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6,128 Private	PRIVATE	267.725753
6,129 Private	PRIVATE	267.8192405
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6,132 Private	PRIVATE	267.7264839
6,133 Private	PRIVATE	267.7258421
6,136 Private	PRIVATE	267.7332073
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6,315 Private	PRIVATE	267.5925943
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6,318 Private	PRIVATE	267.5913864
6,319 Private	PRIVATE	243.8081628
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6,321 Private	PRIVATE	146.3961601
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6,343 Private	PRIVATE	268.7970317
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6,457 Private	PRIVATE	1,609.37
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6,462 Private	PRIVATE	205.7635841
6,464 Private	PRIVATE	6,225.83
6,466 Private	PRIVATE	1,141.51
6,468 Private	PRIVATE	21.73454688
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6,686 Private	PRIVATE	620.402196
6,689 Private	PRIVATE	471.3759323
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6,697 Private	PRIVATE	246.6704202
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6,702 Private	PRIVATE	4,819.19
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6,709 Private	PRIVATE	908.1433615
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6,713 Private	PRIVATE	9,198.02
6,714 Private	PRIVATE	10,330.08
6,717 Private	PRIVATE	52,697.11
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6,740 Private	PRIVATE	292.2633483
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6,756 Private	PRIVATE	4,004.14
6,759 Private	PRIVATE	3,236.74
6,766 Private	PRIVATE	3,028.48
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6,805 Private	PRIVATE	7,239.59
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6,829 Private	PRIVATE	278.225903
6,842 Private	PRIVATE	180,917.00
6,857 Private	PRIVATE	1,964.35
6,859 Private	PRIVATE	10,177.86
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6,867 Private	PRIVATE	3,984.53
6,871 Private	PRIVATE	8,055.27
6,872 Private	PRIVATE	3,215.57
6,877 Private	PRIVATE	13,514.48
6,879 Private	PRIVATE	3,890.73
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6,921 Private	PRIVATE	743,517.63
6,932 Private	PRIVATE	8,342.51
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6,940 Private	PRIVATE	904.7161175
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6,950 Private	PRIVATE	2,423.94
6,952 Private	PRIVATE	20,808.57
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6,984 Private	PRIVATE	25,150.97
6,985 Private	PRIVATE	2,414.84
6,988 Private	PRIVATE	30,385.90
6,990 Private	PRIVATE	9,696.07
6,994 Private	PRIVATE	7,225.49
6,996 Private	PRIVATE	7,205.59
6,999 Private	PRIVATE	4,017.23
7,008 Private	PRIVATE	3,520.11
7,009 Private	PRIVATE	19,426.13

7,011 Private	PRIVATE	1,610.41
7,013 Private	PRIVATE	5,621.91
7,016 Private	PRIVATE	1,260.23
7,027 Private	PRIVATE	609.3476459
7,029 Private	PRIVATE	12,896.51
7,031 Private	PRIVATE	84.47758733
7,034 Private	PRIVATE	13,467.09
7,035 Private	PRIVATE	366.7998954
7,038 Private	PRIVATE	1,607.80
7,040 Private	PRIVATE	1,508.09
7,041 Private	PRIVATE	4,006.00
7,046 Private	PRIVATE	4,477.49
7,056 Private	PRIVATE	4,370.50
7,057 Private	PRIVATE	1,022.90
7,060 Private	PRIVATE	803.7429231
7,063 Private	PRIVATE	13,005.71
7,064 Private	PRIVATE	1,491.75
7,066 Private	PRIVATE	11,817.42
7,073 Private	PRIVATE	2,374.05
7,074 Private	PRIVATE	6,431.11
7,077 Private	PRIVATE	6,439.40
7,078 Private	PRIVATE	1,574.22
7,091 Private	PRIVATE	8,105.35
7,103 Private	PRIVATE	10,107.26
7,104 Private	PRIVATE	6,493.62
7,109 Private	PRIVATE	28,366.30
7,115 Private	PRIVATE	3,095.02
7,116 Private	PRIVATE	613.1349783
7,122 Private	PRIVATE	723.2590387
7,123 Private	PRIVATE	3,219.63
7,129 Private	PRIVATE	12,068.86
7,131 Private	PRIVATE	138,355.62
7,138 Private	PRIVATE	39,544.22
7,140 Private	PRIVATE	16,551.61
7,149 Private	PRIVATE	37,567.68
7,151 Private	PRIVATE	16,887.83
7,154 Private	PRIVATE	440.3853442
7,157 Private	PRIVATE	440.4323487
7,158 Private	PRIVATE	440.5899247
7,160 Private	PRIVATE	439.5705724
7,161 Private	PRIVATE	440.2346781
7,163 Private	PRIVATE	438.9857291
7,164 Private	PRIVATE	441.1138079
7,165 Private	PRIVATE	438.8944437
7,166 Private	PRIVATE	439.0812825
7,167 Private	PRIVATE	439.0947834
7,168 Private	PRIVATE	1,513.03

7,169 Private	PRIVATE	536.5491906
7,170 Private	PRIVATE	438.9866564
7,171 Private	PRIVATE	438.9856395
7,172 Private	PRIVATE	438.8943935
7,173 Private	PRIVATE	439.0194398
7,175 Private	PRIVATE	440.3144985
7,177 Private	PRIVATE	439.7337387
7,178 Private	PRIVATE	439.1995651
7,183 Private	PRIVATE	6,493.49
7,189 Private	PRIVATE	5,612.34
7,190 Private	PRIVATE	4,445.25
7,206 Private	PRIVATE	6,072.01
7,260 Private	PRIVATE	1,067.16
7,283 Private	PRIVATE	160,024.60
7,299 Private	PRIVATE	171.8838093
7,316 Private	PRIVATE	1,486.12
7,325 Private	PRIVATE	582.1468312
7,327 Private	PRIVATE	2,770.75
7,333 Private	PRIVATE	3,222.19
7,346 Private	PRIVATE	8,347.59
7,350 Private	PRIVATE	45.86930653
7,356 Private	PRIVATE	1,128.74
7,376 Private	PRIVATE	1,603.24
7,399 Private	PRIVATE	37,736.20
7,418 Private	PRIVATE	1,202,889.80
7,455 Private	PRIVATE	167,316.76
7,777 Private	PRIVATE	31,598.54
7,793 Private	PRIVATE	139,148.87
8,004 Private	PRIVATE	9,267.18
8,151 Private	PRIVATE	65,976.19
8,258 Private	PRIVATE	63,327.43
11,170 State	STATE	935.2083691
11,175 State	STATE	924.4142966
11,182 State	STATE	1,749.54
11,195 State	STATE	4,662.40
11,201 State	STATE	2,435.90
11,211 State	STATE	33,928.91
11,218 State	STATE	5,833.24
11,224 State	STATE	850.765634
11,232 State	STATE	332.9275742
11,233 State	STATE	2,227.21
11,235 State	STATE	6,415.75
11,240 State	STATE	6,419.67
11,254 State	STATE	6,422.24
11,263 State	STATE	121.6902413
11,272 State	STATE	6,429.86
11,274 State	STATE	6,435.47

11,279 State	STATE	3,214.95
11,280 State	STATE	1,338.41
11,281 State	STATE	1,602.08
11,284 State	STATE	5,677.35
11,288 State	STATE	6,433.81
11,290 State	STATE	3,216.71
11,295 State	STATE	4,028.59
11,298 State	STATE	8,237.63
11,300 State	STATE	3,558.77
11,304 State	STATE	1,695.01
11,311 State	STATE	3,050.06
11,318 State	STATE	6,312.86
11,341 State	STATE	16,803.40
11,349 State	STATE	283.48013
11,350 State	STATE	1,319.80
11,359 State	STATE	7,936.23
11,377 State	STATE	860.213962
11,379 State	STATE	6,326.73
11,384 State	STATE	5,077.33
11,391 State	STATE	9,524.86
11,393 State	STATE	217.0650069
11,395 State	STATE	70.68684603
11,398 State	STATE	631.0156798
11,399 State	STATE	623.1302603
11,400 State	STATE	2,429.38
11,403 State	STATE	16,426.34
11,404 State	STATE	1,967.08
11,413 State	STATE	1,625.32
11,419 State	STATE	4,816.95
11,422 State	STATE	516.5355584
11,424 State	STATE	119.6455057
11,425 State	STATE	557.1707018
11,426 State	STATE	611.1987953
11,427 State	STATE	1,604.58
11,428 State	STATE	6,440.70
11,429 State	STATE	1,946.79
11,430 State	STATE	697.0499055
11,433 State	STATE	4,468.85
11,440 State	STATE	168.4832506
11,443 State	STATE	17,713.66
11,444 State	STATE	3,181.48
11,445 State	STATE	8,245.52
11,450 State	STATE	2,431.73
11,453 State	STATE	7,670.11
11,456 State	STATE	2,846.55
11,457 State	STATE	158.9346445
11,458 State	STATE	1,288.08

11,459 State	STATE	255.8562654
11,461 State	STATE	191.3056466
11,469 State	STATE	5,277.56
11,471 State	STATE	328.7349302
11,472 State	STATE	170.6654505
11,474 State	STATE	961.0297652
11,476 State	STATE	3,700.50
11,489 State	STATE	6,431.05
11,490 State	STATE	3,926.78
11,491 State	STATE	11,545.94
11,503 State	STATE	1,456.11
11,504 State	STATE	488.705897
11,505 State	STATE	421.7419324
11,506 State	STATE	1,741.28
11,512 State	STATE	844.8226079
11,520 State	STATE	233.319485
11,521 State	STATE	188.4121914
11,522 State	STATE	343.8123965
11,523 State	STATE	223.2788724
11,524 State	STATE	221.3464566
11,525 State	STATE	244.2030649
11,528 State	STATE	6,434.27
11,531 State	STATE	10,644.72
11,548 State	STATE	667.7182778
11,551 State	STATE	610.3745195
11,561 State	STATE	16.06096383
11,563 State	STATE	233.7621332
11,567 State	STATE	966.0073131
11,568 State	STATE	5,594.63
11,576 State	STATE	73,607.78
11,582 State	STATE	8,997.66
11,597 State	STATE	6,455.53
11,604 State	STATE	1,614.81
11,606 State	STATE	13,585.51
11,608 State	STATE	1,817.36
11,612 State	STATE	2,279.14
11,632 State	STATE	6,135.77
11,639 State	STATE	1,411.57
11,641 State	STATE	1,386.17
11,645 State	STATE	5,476.96
11,647 State	STATE	356.5890128
11,648 State	STATE	3,337.17
11,659 State	STATE	857.7782553
11,660 State	STATE	515.6162309
11,661 State	STATE	6,441.01
11,666 State	STATE	6,502.42
11,683 State	STATE	6,404.73

11,685 State	STATE	2,300.70
11,690 State	STATE	6,443.67
11,694 State	STATE	5,637.03
11,698 State	STATE	971.74932
11,714 State	STATE	6,414.13
11,718 State	STATE	4,002.00
11,719 State	STATE	6,430.69
11,723 State	STATE	6,319.80
11,724 State	STATE	956.4690379
11,728 State	STATE	5,629.55
11,733 State	STATE	34,578.50
11,741 State	STATE	1,709.18
11,744 State	STATE	6,425.29
11,754 State	STATE	6,441.05
11,759 State	STATE	6,428.14
11,760 State	STATE	1,610.81
11,764 State	STATE	430.5855742
11,780 State	STATE	6,427.12
11,784 State	STATE	8,093.64
11,802 State	STATE	6,231.82
11,812 State	STATE	916.2513466
11,831 State	STATE	6,418.09
11,835 State	STATE	8,231.31
11,841 State	STATE	5,619.72
11,846 State	STATE	1,627.84
11,847 State	STATE	120.889654
11,855 State	STATE	1,040.80
11,860 State	STATE	2,478.98
11,868 State	STATE	5,063.20
11,871 State	STATE	10,536.34
11,877 State	STATE	32,402.91
11,880 State	STATE	4,134.05
11,890 State	STATE	1,606.82
11,899 State	STATE	166,748.69
11,906 State	STATE	3,194.08
11,908 State	STATE	333.095966
11,913 State	STATE	2,049.01
11,917 State	STATE	617.0357969
11,925 State	STATE	17,040.11
11,926 State	STATE	1,448.90
11,939 State	STATE	779.9757305
11,955 State	STATE	5,615.98
12,003 State	STATE	6,048.16
12,009 State	STATE	6,862.45
12,020 State	STATE	676.1230653
12,028 State	STATE	2,175.23
12,031 State	STATE	32,326.17



12,046 State	STATE	68,794.63
12,079 State	STATE	2,341.15
12,154 State	STATE	423.7371199
12,159 State	STATE	25.99235731
12,170 State	STATE	4,204.11
12,175 State	STATE	4,221.01
12,213 State	STATE	1,007.13
12,221 State	STATE	2,219.46
12,247 State	STATE	14,974.10
12,273 State	STATE	1,059.49
12,284 State	STATE	11,852.40
12,286 State	STATE	833.8215112
12,309 State	STATE	21,359.31
12,382 State	STATE	20.56810658
2,937 BLM	BLM	2,138.37
2,956 BLM	BLM	1,607.99
2,963 BLM	BLM	1,619.38
2,964 BLM	BLM	3,221.43
2,975 BLM	BLM	164.5506306
2,978 BLM	BLM	6,451.68
2,979 BLM	BLM	8,096.56
2,983 BLM	BLM	4,012.12
2,988 BLM	BLM	2,758.04
2,991 BLM	BLM	1,608.24
3,001 BLM	BLM	9,064.41
3,002 BLM	BLM	4,824.61
3,004 BLM	BLM	1,609.38
3,006 BLM	BLM	2,927.47
3,009 BLM	BLM	1,615.93
3,016 BLM	BLM	1,615.22
3,021 BLM	BLM	5,628.40
3,025 BLM	BLM	1,619.29
3,026 BLM	BLM	2,424.39
3,029 BLM	BLM	2,405.28
3,031 BLM	BLM	1,616.59
3,033 BLM	BLM	3,220.59
3,037 BLM	BLM	2,417.48
3,038 BLM	BLM	2,423.41
3,039 BLM	BLM	2,422.66
3,041 BLM	BLM	4,035.30
3,049 BLM	BLM	2,416.23
3,051 BLM	BLM	4,029.73
3,053 BLM	BLM	1,617.98
3,056 BLM	BLM	3,420.98
3,060 BLM	BLM	8,861.42
3,061 BLM	BLM	1,612.12
3,063 BLM	BLM	1,615.42

3,065 BLM	BLM	1,612.99
3,070 BLM	BLM	2,421.66
3,074 BLM	BLM	2,457.53
3,078 BLM	BLM	2,421.52
3,079 BLM	BLM	4,796.44
3,080 BLM	BLM	41,055.62
3,085 BLM	BLM	2,694.64
3,091 BLM	BLM	3,214.33
3,093 BLM	BLM	9,657.28
3,096 BLM	BLM	2,411.46
3,100 BLM	BLM	35,616.97
3,104 BLM	BLM	6,452.91
3,106 BLM	BLM	21,695.32
3,107 BLM	BLM	1,598.90
3,110 BLM	BLM	4,757.43
3,113 BLM	BLM	13,653.39
3,117 BLM	BLM	10,513.84
3,118 BLM	BLM	14,210.70
3,121 BLM	BLM	176,187.09
3,124 BLM	BLM	5,679.42
3,127 BLM	BLM	4,016.90
3,135 BLM	BLM	8,857.44
3,141 BLM	BLM	66,355.62
3,146 BLM	BLM	9,522.08
3,148 BLM	BLM	1,608.24
3,156 BLM	BLM	2,412.02
3,174 BLM	BLM	1,607.75
3,177 BLM	BLM	3,212.08
3,179 BLM	BLM	1,608.22
3,189 BLM	BLM	1,608.72
3,191 BLM	BLM	1,608.87
3,214 BLM	BLM	283,441.91
3,250 BLM	BLM	2,409.49
3,263 BLM	BLM	12,720.15
3,276 BLM	BLM	1,252.52
3,277 BLM	BLM	378,086.84
3,281 BLM	BLM	3,007.14
3,287 BLM	BLM	1,608.99
3,289 BLM	BLM	26,833.35
3,291 BLM	BLM	3,907.13
3,292 BLM	BLM	1,201.83
3,293 BLM	BLM	1,619.28
3,300 BLM	BLM	22,482.05
3,302 BLM	BLM	14,827.65
3,306 BLM	BLM	1,609.58
3,308 BLM	BLM	42,524.38
3,310 BLM	BLM	7,905.28

3,313 BLM	BLM	4,823.66
3,316 BLM	BLM	4,054.43
3,322 BLM	BLM	1,606.62
3,326 BLM	BLM	10,569.35
3,330 BLM	BLM	2,419.45
3,337 BLM	BLM	12,398.10
3,346 BLM	BLM	2,395.74
3,348 BLM	BLM	3,435.90
3,349 BLM	BLM	2,434.88
3,356 BLM	BLM	1,637.78
3,357 BLM	BLM	4,872.37
3,369 BLM	BLM	2,374.07
3,381 BLM	BLM	106,364.59
3,392 BLM	BLM	109,074.27
3,401 BLM	BLM	3,223.23
3,403 BLM	BLM	1,591.12
3,404 BLM	BLM	3,240.88
3,411 BLM	BLM	1,608.72
3,413 BLM	BLM	1,609.81
3,416 BLM	BLM	2,417.32
3,417 BLM	BLM	1,146.94
3,427 BLM	BLM	1,616.98
3,429 BLM	BLM	4,823.96
3,437 BLM	BLM	74,206.39
3,438 BLM	BLM	6,490.53
3,440 BLM	BLM	3,280.84
3,444 BLM	BLM	8,313.09
3,445 BLM	BLM	2,412.45
3,450 BLM	BLM	37,440.88
3,451 BLM	BLM	1,606.99
3,453 BLM	BLM	4,820.56
3,457 BLM	BLM	2,420.62
3,459 BLM	BLM	69,271.08
3,464 BLM	BLM	2,403.38
3,471 BLM	BLM	4,048.29
3,475 BLM	BLM	78,285.63
3,477 BLM	BLM	124,700.74
3,485 BLM	BLM	25,284.27
3,486 BLM	BLM	3,514.23
3,493 BLM	BLM	8,064.69
3,498 BLM	BLM	1,963.70
3,500 BLM	BLM	4,827.82
3,504 BLM	BLM	15,659.69
3,507 BLM	BLM	7,222.89
3,511 BLM	BLM	6,436.53
3,521 BLM	BLM	4,389.02
3,530 BLM	BLM	23,827.51

3,535 BLM	BLM	1,610.06
3,539 BLM	BLM	2,412.75
3,540 BLM	BLM	41,209.97
3,556 BLM	BLM	288.6294482
3,568 BLM	BLM	422.4829066
3,582 BLM	BLM	1,526.82
3,600 BLM	BLM	200,184.28
3,614 BLM	BLM	1,608.80
3,627 BLM	BLM	28,182.51
3,653 BLM	BLM	9,626.56
3,656 BLM	BLM	7,996.03
3,660 BLM	BLM	2,417.64
3,688 BLM	BLM	44.40247506
3,692 BLM	BLM	196.4883474
3,695 BLM	BLM	117.386545
3,696 BLM	BLM	576.2264863
3,707 BLM	BLM	14,537.63
3,709 BLM	BLM	10,595.39
3,720 BLM	BLM	128.3543582
3,728 BLM	BLM	277,208.20
3,747 BLM	BLM	30,823.51
3,812 BLM	BLM	3,266.32
4,917 Other Federal	BOR	22,762.10
4,919 Other Federal	BOR	2,431.13
4,926 Other Federal	BOR	1,931.17
5,171 HSTRCWTR	HSTRCWTR	21,635.06
5,173 HSTRCWTR	HSTRCWTR	8,146.60
5,177 HSTRCWTR	HSTRCWTR	7,739.34
5,178 HSTRCWTR	HSTRCWTR	24,948.33
5,642 Other Federal	NWR	1,333.66
5,645 Other Federal	NWR	183,154.00
5,646 Other Federal	NWR	2,409.51
8,283 Private	PRIVATE	51.91176737
8,297 Private	PRIVATE	401.0674712
8,298 Private	PRIVATE	491.7518725
8,373 Private	PRIVATE	10,538.07
8,379 Private	PRIVATE	2,413.17
8,394 Private	PRIVATE	3.457643931
8,395 Private	PRIVATE	3.344978623
8,399 Private	PRIVATE	3,682.45
8,409 Private	PRIVATE	8,152.07
8,417 Private	PRIVATE	2,685.12
8,419 Private	PRIVATE	22,881.57
8,422 Private	PRIVATE	133.7008714
8,448 Private	PRIVATE	7,247.74
8,449 Private	PRIVATE	4,861.34
8,456 Private	PRIVATE	17,164.46

8,465 Private	PRIVATE	11,248.90
8,481 Private	PRIVATE	3,130.60
8,489 Private	PRIVATE	2,685.16
8,501 Private	PRIVATE	1,607.92
8,506 Private	PRIVATE	1,609.78
8,507 Private	PRIVATE	3,158.34
8,510 Private	PRIVATE	40,975.37
8,516 Private	PRIVATE	5,643.92
8,530 Private	PRIVATE	9,616.29
8,538 Private	PRIVATE	7,238.88
8,540 Private	PRIVATE	9,611.23
8,546 Private	PRIVATE	5,633.19
8,549 Private	PRIVATE	1,608.10
8,561 Private	PRIVATE	9,124.26
8,562 Private	PRIVATE	3,216.41
8,566 Private	PRIVATE	1,609.47
8,569 Private	PRIVATE	1,658.58
8,579 Private	PRIVATE	43,868.62
8,581 Private	PRIVATE	20,299.19
8,585 Private	PRIVATE	23,335.26
8,590 Private	PRIVATE	4,013.15
8,628 Private	PRIVATE	8,847.99
8,630 Private	PRIVATE	13,763.55
8,638 Private	PRIVATE	293,215.11
8,640 Private	PRIVATE	77,029.00
8,641 Private	PRIVATE	15,377.31
8,648 Private	PRIVATE	11,266.74
8,650 Private	PRIVATE	3,217.18
8,657 Private	PRIVATE	2,414.70
8,662 Private	PRIVATE	2,410.61
8,671 Private	PRIVATE	6,430.19
8,679 Private	PRIVATE	8,079.20
8,688 Private	PRIVATE	1,609.08
8,692 Private	PRIVATE	1,609.02
8,693 Private	PRIVATE	1,608.60
8,716 Private	PRIVATE	13,594.56
8,725 Private	PRIVATE	20,069.89
8,737 Private	PRIVATE	6,627.02
8,738 Private	PRIVATE	1,609.80
8,756 Private	PRIVATE	2,414.42
8,762 Private	PRIVATE	2,414.71
8,766 Private	PRIVATE	19,454.41
8,767 Private	PRIVATE	631.6635048
8,775 Private	PRIVATE	4,028.09
8,780 Private	PRIVATE	3,921.74
8,785 Private	PRIVATE	8,605.60
8,786 Private	PRIVATE	9,708.01

8,787 Private	PRIVATE	4,023.75
8,790 Private	PRIVATE	1,566.59
8,793 Private	PRIVATE	1,606.31
8,805 Private	PRIVATE	4,034.54
8,817 Private	PRIVATE	1,609.52
8,820 Private	PRIVATE	1,609.34
8,826 Private	PRIVATE	45,661.31
8,827 Private	PRIVATE	2,415.16
8,835 Private	PRIVATE	4,813.05
8,836 Private	PRIVATE	49,359.36
8,840 Private	PRIVATE	1,613.24
8,845 Private	PRIVATE	5,646.26
8,846 Private	PRIVATE	3,217.93
8,851 Private	PRIVATE	2,410.94
8,852 Private	PRIVATE	18,505.38
8,854 Private	PRIVATE	6,347.97
8,856 Private	PRIVATE	206.9730065
8,861 Private	PRIVATE	507.0647143
8,866 Private	PRIVATE	11,892.66
8,867 Private	PRIVATE	417.1115566
8,868 Private	PRIVATE	159.7786918
8,870 Private	PRIVATE	23,997.51
8,874 Private	PRIVATE	11,749.42
8,876 Private	PRIVATE	684.3711251
8,877 Private	PRIVATE	719.0985808
8,881 Private	PRIVATE	210.2523345
8,885 Private	PRIVATE	1,863.61
8,888 Private	PRIVATE	1,144.77
8,890 Private	PRIVATE	7,034.32
8,892 Private	PRIVATE	4,047.99
8,896 Private	PRIVATE	2,439.28
8,903 Private	PRIVATE	18,660.69
8,908 Private	PRIVATE	3,030.21
8,913 Private	PRIVATE	8,900.47
8,924 Private	PRIVATE	1,368.54
8,928 Private	PRIVATE	4,036.22
8,931 Private	PRIVATE	996.6418571
8,932 Private	PRIVATE	38,154.61
8,934 Private	PRIVATE	12,069.19
8,935 Private	PRIVATE	7,226.81
8,943 Private	PRIVATE	18,440.98
8,944 Private	PRIVATE	6,505.04
8,945 Private	PRIVATE	1,620.91
8,947 Private	PRIVATE	1,615.29
8,953 Private	PRIVATE	274,596.13
8,958 Private	PRIVATE	17,185.35
8,959 Private	PRIVATE	3,210.87

8,971 Private	PRIVATE	8,025.27
8,987 Private	PRIVATE	6,419.10
8,989 Private	PRIVATE	22,835.36
8,996 Private	PRIVATE	3,268.64
9,016 Private	PRIVATE	10,829.75
9,031 Private	PRIVATE	4,716.62
9,032 Private	PRIVATE	19,514.17
9,035 Private	PRIVATE	3,245.00
9,037 Private	PRIVATE	6,490.51
9,049 Private	PRIVATE	4,051.34
9,052 Private	PRIVATE	1,617.22
9,121 Private	PRIVATE	7,245.04
9,140 Private	PRIVATE	4,050.31
9,148 Private	PRIVATE	525,081.07
9,149 Private	PRIVATE	1,610.04
9,163 Private	PRIVATE	29.50384321
9,171 Private	PRIVATE	7.397416759
9,172 Private	PRIVATE	19.60817029
9,173 Private	PRIVATE	82.36974575
9,175 Private	PRIVATE	1,217.75
9,177 Private	PRIVATE	969.6071536
9,182 Private	PRIVATE	1,613.94
9,187 Private	PRIVATE	5,588.71
9,190 Private	PRIVATE	1,617.31
9,191 Private	PRIVATE	2,775.68
9,193 Private	PRIVATE	1,614.23
9,195 Private	PRIVATE	1,186.49
9,206 Private	PRIVATE	4,328.41
9,210 Private	PRIVATE	10,410.82
9,212 Private	PRIVATE	1,280.23
9,219 Private	PRIVATE	1,609.87
9,222 Private	PRIVATE	2,140.14
9,223 Private	PRIVATE	4,556.32
9,227 Private	PRIVATE	8,131.86
9,231 Private	PRIVATE	1,219.17
9,234 Private	PRIVATE	10,498.80
9,254 Private	PRIVATE	4,832.29
9,259 Private	PRIVATE	3,980.85
9,272 Private	PRIVATE	4,852.37
9,280 Private	PRIVATE	2,431.02
9,283 Private	PRIVATE	1,280.00
9,285 Private	PRIVATE	3,573.41
9,294 Private	PRIVATE	2,407.28
9,296 Private	PRIVATE	28,706.72
9,308 Private	PRIVATE	5,632.31
9,312 Private	PRIVATE	1,768.41
9,314 Private	PRIVATE	316.9790206

9,315 Private	PRIVATE	731.0793502
9,321 Private	PRIVATE	2,661.53
9,323 Private	PRIVATE	3,508.44
9,326 Private	PRIVATE	565.6747509
9,327 Private	PRIVATE	3,945.50
9,333 Private	PRIVATE	1,661.76
9,334 Private	PRIVATE	3,264.32
9,335 Private	PRIVATE	2,184.70
10,112 Private	PRIVATE	173,030.13
10,784 Private	PRIVATE	589,153.38
13,236 State	STATE	10,594.37
13,268 State	STATE	2,631.91
13,269 State	STATE	1,779.68
13,298 State	STATE	1,225.31
13,303 State	STATE	674.03817
13,306 State	STATE	1,584.72
13,309 State	STATE	4,821.27
13,319 State	STATE	4,552.91
13,330 State	STATE	22,326.44
13,331 State	STATE	1,613.03
13,342 State	STATE	5,621.48
13,349 State	STATE	6,422.20
13,362 State	STATE	6,448.96
13,365 State	STATE	488.7853568
13,367 State	STATE	6,459.80
13,370 State	STATE	6,437.98
13,376 State	STATE	6,451.70
13,384 State	STATE	9,646.49
13,390 State	STATE	26,249.70
13,394 State	STATE	6,429.85
13,402 State	STATE	6,477.45
13,411 State	STATE	26,289.61
13,441 State	STATE	9,698.90
13,445 State	STATE	33,701.04
13,449 State	STATE	8,047.02
13,452 State	STATE	15,320.38
13,459 State	STATE	11,314.19
13,471 State	STATE	6,428.49
13,475 State	STATE	65,763.72
13,477 State	STATE	6,472.88
13,482 State	STATE	32,901.61
13,490 State	STATE	8,142.57
13,491 State	STATE	4,816.45
13,499 State	STATE	2,410.97
13,506 State	STATE	17,628.83
13,514 State	STATE	45,077.32
13,519 State	STATE	41,102.33



13,523 State	STATE	6,437.21
13,525 State	STATE	9,851.95
13,527 State	STATE	7,238.72
13,539 State	STATE	2,410.07
13,541 State	STATE	2,414.22
13,544 State	STATE	6,433.52
13,589 State	STATE	8,844.83
13,591 State	STATE	1,906.87
13,604 State	STATE	10,454.42
13,605 State	STATE	6,428.00
13,607 State	STATE	60,419.75
13,622 State	STATE	3,729.41
13,625 State	STATE	38,857.46
13,630 State	STATE	12,062.31
13,633 State	STATE	6,142.28
13,636 State	STATE	6,443.07
13,658 State	STATE	6,433.01
13,662 State	STATE	6,431.93
13,667 State	STATE	16,776.74
13,669 State	STATE	4,019.82
13,676 State	STATE	3,251.22
13,680 State	STATE	6,430.81
13,686 State	STATE	3,564.45
13,690 State	STATE	6,474.30
13,693 State	STATE	21,744.76
13,695 State	STATE	1,617.04
13,696 State	STATE	3,257.57
13,699 State	STATE	1,617.62
13,700 State	STATE	9,485.50
13,701 State	STATE	3,236.92
13,702 State	STATE	4,031.30
13,703 State	STATE	1,625.38
13,706 State	STATE	6,495.73
13,708 State	STATE	3,232.46
13,709 State	STATE	1,172.34
13,711 State	STATE	1,614.52
13,712 State	STATE	2,448.54
13,718 State	STATE	1,617.70
13,721 State	STATE	3,237.21
13,723 State	STATE	6,433.05
13,727 State	STATE	5,840.47
13,729 State	STATE	13,765.76
13,734 State	STATE	20,686.15
13,735 State	STATE	7,422.38
13,744 State	STATE	2,985.43
13,747 State	STATE	1,617.62
13,756 State	STATE	5,668.27

13,758 State	STATE	6,490.31
13,759 State	STATE	6,470.89
13,762 State	STATE	59,382.16
13,765 State	STATE	1,623.44
13,771 State	STATE	18,643.30
13,772 State	STATE	2,410.76
13,780 State	STATE	14,487.57
13,788 State	STATE	8,049.44
13,791 State	STATE	6,460.42
13,792 State	STATE	1,640.09
13,795 State	STATE	6,499.31
13,800 State	STATE	6,491.34
13,804 State	STATE	4,711.53
13,809 State	STATE	6,499.20
13,823 State	STATE	301.8711903
13,825 State	STATE	23,695.06
13,827 State	STATE	905.3828938
13,829 State	STATE	6,673.94
13,830 State	STATE	1,464.85
13,832 State	STATE	6,434.54
13,841 State	STATE	175,117.40
13,842 State	STATE	6,403.97
13,845 State	STATE	6,432.40
13,846 State	STATE	1,603.50
13,850 State	STATE	2,413.22
13,852 State	STATE	7,055.50
13,858 State	STATE	3,223.24
13,860 State	STATE	6,358.68
13,861 State	STATE	15,066.66
13,868 State	STATE	14,631.93
13,878 State	STATE	6,508.92
13,894 State	STATE	553.6345668
13,896 State	STATE	1,934.21
13,903 State	STATE	4,242.19
13,916 State	STATE	4,839.22
13,918 State	STATE	6,421.68
13,922 State	STATE	1,438.11
13,928 State	STATE	6,398.21
13,929 State	STATE	4,634.56
13,930 State	STATE	3,205.96
13,936 State	STATE	39,912.27
13,939 State	STATE	5,472.00
13,943 State	STATE	6,570.99
13,945 State	STATE	6,434.41
13,956 State	STATE	5,391.18
13,957 State	STATE	7,719.03
13,959 State	STATE	4,925.17

13,964 State	STATE	3,229.29
13,985 State	STATE	6,478.86
13,986 State	STATE	5,670.45
13,988 State	STATE	6,300.27
14,019 State	STATE	21,935.86
14,025 State	STATE	17,465.79
14,027 State	STATE	8,010.16
14,038 State	STATE	10,491.42
14,051 State	STATE	7,205.25
14,053 State	STATE	5,632.66
14,055 State	STATE	1,614.15
14,060 State	STATE	1,612.76
14,065 State	STATE	6,503.26
14,077 State	STATE	5,575.05
14,080 State	STATE	6,435.68
14,081 State	STATE	1,645.06
14,085 State	STATE	1,607.57
14,096 State	STATE	6,457.93
14,105 State	STATE	6,436.60
14,108 State	STATE	6,453.37
14,116 State	STATE	6,440.76
14,127 State	STATE	5,869.01
14,128 State	STATE	5,983.26
15,168 USFS	USFS	120,396.20
15,175 USFS	USFS	373,639.68
15,187 USFS	USFS	708.1145511
15,260 USFS	USFS	57,927.39
15,262 USFS	USFS	70,981.82
8,953 Private	PRIVATE	384.9087401
2,949 BLM	BLM	1,722.35
2,951 BLM	BLM	1,203.47
2,975 BLM	BLM	1,621.65
2,990 BLM	BLM	2,434.92
3,006 BLM	BLM	3,870.07
3,067 BLM	BLM	2,268.05
3,085 BLM	BLM	1,486.83
3,086 BLM	BLM	2,413.25
3,090 BLM	BLM	1,608.40
3,095 BLM	BLM	28,732.14
3,108 BLM	BLM	4,098.18
3,115 BLM	BLM	1,598.79
3,118 BLM	BLM	18,084.68
3,119 BLM	BLM	9,731.14
3,123 BLM	BLM	1,454.68
3,131 BLM	BLM	4,507.18
3,155 BLM	BLM	1,541.38
3,157 BLM	BLM	2,420.31

3,170 BLM	BLM	4,096.30
3,171 BLM	BLM	1,612.60
3,173 BLM	BLM	2,412.69
3,181 BLM	BLM	516.1019644
3,192 BLM	BLM	4,878.26
3,203 BLM	BLM	203.0034599
3,214 BLM	BLM	79,671.29
3,216 BLM	BLM	22,709.44
3,230 BLM	BLM	1,622.69
3,240 BLM	BLM	1,612.31
3,248 BLM	BLM	3,253.52
3,269 BLM	BLM	5,750.82
3,275 BLM	BLM	2,373.30
3,277 BLM	BLM	29,790.93
3,280 BLM	BLM	2,959.83
3,286 BLM	BLM	1,608.15
3,289 BLM	BLM	43,473.29
3,292 BLM	BLM	3,639.72
3,302 BLM	BLM	1,622.50
3,308 BLM	BLM	1,178.41
3,329 BLM	BLM	9,462.26
3,337 BLM	BLM	2,993.76
3,343 BLM	BLM	22,451.98
3,351 BLM	BLM	1,609.80
3,353 BLM	BLM	1,751.28
3,357 BLM	BLM	2,821.96
3,362 BLM	BLM	260.2071975
3,368 BLM	BLM	4,657.05
3,381 BLM	BLM	105,597.62
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3,400 BLM	BLM	2,333.44
3,417 BLM	BLM	2,092.31
3,425 BLM	BLM	2,043.47
3,428 BLM	BLM	2,415.87
3,430 BLM	BLM	6,050.79
3,433 BLM	BLM	1,605.22
3,434 BLM	BLM	40,684.36
3,438 BLM	BLM	96,464.34
3,440 BLM	BLM	18,135.22
3,442 BLM	BLM	1,601.30
3,447 BLM	BLM	2,396.07
3,454 BLM	BLM	8,040.81
3,467 BLM	BLM	4,360.62
3,477 BLM	BLM	44,769.12
3,485 BLM	BLM	3,318.85
3,486 BLM	BLM	765.7850825
3,498 BLM	BLM	3,264.10

3,502 BLM	BLM	4,904.41
3,504 BLM	BLM	6,340.20
3,506 BLM	BLM	4,980.01
3,516 BLM	BLM	1,009.95
3,518 BLM	BLM	1,605.49
3,521 BLM	BLM	1,893.55
3,526 BLM	BLM	1,621.18
3,527 BLM	BLM	14,469.76
3,528 BLM	BLM	6,432.65
3,530 BLM	BLM	1,010.67
3,531 BLM	BLM	830.6135638
3,532 BLM	BLM	357.2236966
3,533 BLM	BLM	165.5138839
3,534 BLM	BLM	1,619.68
3,537 BLM	BLM	767.5108427
3,542 BLM	BLM	1,617.80
3,543 BLM	BLM	15,963.42
3,544 BLM	BLM	1,061.05
3,552 BLM	BLM	12,107.58
3,553 BLM	BLM	4,700.39
3,555 BLM	BLM	6,345.54
3,559 BLM	BLM	816.4948057
3,561 BLM	BLM	6,434.61
3,570 BLM	BLM	5,959.27
3,571 BLM	BLM	4,214.63
3,573 BLM	BLM	1,276.23
3,575 BLM	BLM	165.8853132
3,578 BLM	BLM	511.0794472
3,581 BLM	BLM	16,446.79
3,584 BLM	BLM	4,144.19
3,585 BLM	BLM	84.34209917
3,586 BLM	BLM	139.0967664
3,589 BLM	BLM	8,554.84
3,592 BLM	BLM	2,580.45
3,593 BLM	BLM	3,347.24
3,600 BLM	BLM	63,773.86
3,603 BLM	BLM	1,635.07
3,605 BLM	BLM	3,882.22
3,609 BLM	BLM	1,616.14
3,612 BLM	BLM	1,589.16
3,615 BLM	BLM	2,428.05
3,618 BLM	BLM	10,318.83
3,620 BLM	BLM	2,436.32
3,622 BLM	BLM	1,622.06
3,623 BLM	BLM	816.0772172
3,626 BLM	BLM	10,464.42
3,628 BLM	BLM	1,217.73

3,630 BLM	BLM	996.8593875
3,632 BLM	BLM	18,243.16
3,633 BLM	BLM	2,830.02
3,634 BLM	BLM	1,440.13
3,635 BLM	BLM	2,113.52
3,636 BLM	BLM	2,480.39
3,639 BLM	BLM	1,618.97
3,645 BLM	BLM	8,009.11
3,646 BLM	BLM	1,633.12
3,647 BLM	BLM	22,574.13
3,653 BLM	BLM	2,170.02
3,654 BLM	BLM	12,689.28
3,655 BLM	BLM	8,353.69
3,657 BLM	BLM	5,335.04
3,658 BLM	BLM	9,285.31
3,669 BLM	BLM	11,287.43
3,672 BLM	BLM	6,441.57
3,673 BLM	BLM	4,036.53
3,679 BLM	BLM	1,615.35
3,681 BLM	BLM	2,414.73
3,694 BLM	BLM	8,730.48
3,700 BLM	BLM	6,538.76
3,702 BLM	BLM	27,224.34
3,706 BLM	BLM	10,848.25
3,707 BLM	BLM	133,768.60
3,714 BLM	BLM	3,833.45
3,717 BLM	BLM	20,602.42
3,719 BLM	BLM	16,611.84
3,721 BLM	BLM	1,616.43
3,728 BLM	BLM	14,639.45
3,730 BLM	BLM	9,991.26
3,747 BLM	BLM	51,198.97
3,750 BLM	BLM	3,220.27
3,752 BLM	BLM	27,059.92
3,755 BLM	BLM	467.1907018
3,756 BLM	BLM	1,199.39
3,758 BLM	BLM	230.5920994
3,759 BLM	BLM	668.700138
3,764 BLM	BLM	6,159.48
3,765 BLM	BLM	609.8893569
3,770 BLM	BLM	8,551.33
3,772 BLM	BLM	9,270.51
3,774 BLM	BLM	979.1239109
3,778 BLM	BLM	3,201.26
3,779 BLM	BLM	1,692.23
3,780 BLM	BLM	3,431.33
3,783 BLM	BLM	7,252.70

3,784 BLM	BLM	5,500.41
3,790 BLM	BLM	629.220578
3,793 BLM	BLM	1,618.97
3,797 BLM	BLM	1,070.32
3,808 BLM	BLM	1,613.83
3,809 BLM	BLM	1,610.18
3,810 BLM	BLM	32,172.69
3,811 BLM	BLM	1,606.41
3,812 BLM	BLM	484.8149144
3,822 BLM	BLM	29,907.05
3,823 BLM	BLM	3,635.54
3,831 BLM	BLM	2,852.44
3,833 BLM	BLM	1,229.99
3,834 BLM	BLM	1,509.04
3,836 BLM	BLM	1,037.50
3,838 BLM	BLM	1,512.43
3,842 BLM	BLM	408.000916
3,845 BLM	BLM	204.969528
3,846 BLM	BLM	6,140.51
3,847 BLM	BLM	3,723.10
3,848 BLM	BLM	1,143.21
3,853 BLM	BLM	960.1950649
3,854 BLM	BLM	2,452.76
3,855 BLM	BLM	33,717.29
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3,857 BLM	BLM	1,430.30
3,860 BLM	BLM	29,870.97
3,861 BLM	BLM	1,067.60
3,866 BLM	BLM	1,679.88
3,873 BLM	BLM	39,980.34
3,876 BLM	BLM	6,876.12
3,879 BLM	BLM	45,032.41
3,881 BLM	BLM	3,225.36
3,885 BLM	BLM	1,608.10
3,886 BLM	BLM	2,432.76
3,888 BLM	BLM	9,090.89
3,890 BLM	BLM	4,107.60
3,894 BLM	BLM	5,770.41
3,895 BLM	BLM	3,893.96
3,896 BLM	BLM	2,421.18
3,897 BLM	BLM	4,030.85
3,898 BLM	BLM	1,065.73
3,899 BLM	BLM	1,615.78
3,907 BLM	BLM	8,351.89
3,909 BLM	BLM	549.2994076
3,915 BLM	BLM	308.4942531
3,917 BLM	BLM	329.5736765

3,918 BLM	BLM	2,622.86
3,920 BLM	BLM	11,043.77
3,924 BLM	BLM	7,925.52
3,927 BLM	BLM	3,158.65
3,928 BLM	BLM	55,420.99
3,929 BLM	BLM	6,435.74
3,933 BLM	BLM	2,296.30
3,937 BLM	BLM	3,225.69
3,938 BLM	BLM	12,219.81
3,940 BLM	BLM	12,806.49
3,941 BLM	BLM	14,565.37
3,942 BLM	BLM	3,325.61
3,944 BLM	BLM	1,707.94
3,946 BLM	BLM	1,201.19
3,947 BLM	BLM	2,850.97
3,948 BLM	BLM	18,534.65
3,949 BLM	BLM	8,053.64
3,950 BLM	BLM	5,725.85
3,952 BLM	BLM	2,216.77
3,953 BLM	BLM	4,253.45
3,955 BLM	BLM	223.5970535
3,957 BLM	BLM	10,097.55
3,958 BLM	BLM	156.3005271
3,959 BLM	BLM	30.66970959
3,960 BLM	BLM	266.9936114
3,962 BLM	BLM	311.9540072
3,966 BLM	BLM	4,321.68
3,968 BLM	BLM	9,049.82
3,970 BLM	BLM	1,495.26
3,971 BLM	BLM	27,236.98
3,975 BLM	BLM	8,608.88
3,976 BLM	BLM	1,614.74
3,978 BLM	BLM	1,182.41
3,984 BLM	BLM	2,118.64
3,986 BLM	BLM	179.9401347
3,988 BLM	BLM	778.976227
3,989 BLM	BLM	10,390.73
4,006 BLM	BLM	1,609.18
4,007 BLM	BLM	281,130.15
4,009 BLM	BLM	4,869.54
4,010 BLM	BLM	1,610.85
4,025 BLM	BLM	142.3522991
4,037 BLM	BLM	1,606.68
4,050 BLM	BLM	6,450.11
4,060 BLM	BLM	11,869.11
4,061 BLM	BLM	9,636.11
4,062 BLM	BLM	1,584.03



4,063 BLM	BLM	7,696.17
4,071 BLM	BLM	23,085.95
4,072 BLM	BLM	5,705.58
4,078 BLM	BLM	13,855.26
4,080 BLM	BLM	1,613.27
4,081 BLM	BLM	1,614.97
4,083 BLM	BLM	14,795.60
4,087 BLM	BLM	5,326.27
4,091 BLM	BLM	4,041.12
4,097 BLM	BLM	8,872.05
4,115 BLM	BLM	906.7928672
4,116 BLM	BLM	1,247.40
4,124 BLM	BLM	781.8017106
4,917 Other Federal	BOR	18,855.26
4,926 Other Federal	BOR	2,748.19
5,179 HSTRCWTR	HSTRCWTR	10,929.25
5,189 HSTRCWTR	HSTRCWTR	21,878.87
5,190 HSTRCWTR	HSTRCWTR	7,019.54
5,201 HSTRCWTR	HSTRCWTR	36,938.43
5,209 HSTRCWTR	HSTRCWTR	3,683.71
5,210 HSTRCWTR	HSTRCWTR	31.74983368
5,211 HSTRCWTR	HSTRCWTR	97.64177585
5,212 HSTRCWTR	HSTRCWTR	217.9663477
5,213 HSTRCWTR	HSTRCWTR	165.1440734
5,238 HSTRCWTR	HSTRCWTR	1,770.41
5,563 Other Federal	NPS	1,791.28
5,645 Other Federal	NWR	13,596.96
5,663 Other Federal	NWR	4,055.98
5,665 Other Federal	NWR	6,390.29
5,666 Other Federal	NWR	2,035.29
8,417 Private	PRIVATE	376.8215598
8,419 Private	PRIVATE	18,542.68
8,438 Private	PRIVATE	1,607.07
8,440 Private	PRIVATE	1,606.78
8,456 Private	PRIVATE	6,339.47
8,481 Private	PRIVATE	2,299.71
8,496 Private	PRIVATE	4,087.95
8,513 Private	PRIVATE	6,054.96
8,561 Private	PRIVATE	13,601.22
8,578 Private	PRIVATE	337.6621813
8,581 Private	PRIVATE	12,299.81
8,596 Private	PRIVATE	3,593.90
8,616 Private	PRIVATE	3,989.55
8,626 Private	PRIVATE	2,989.32
8,635 Private	PRIVATE	16.49905053
8,704 Private	PRIVATE	67,400.64
8,737 Private	PRIVATE	12,793.52

8,786 Private	PRIVATE	15,401.99
8,788 Private	PRIVATE	1,607.90
8,790 Private	PRIVATE	242.5872913
8,805 Private	PRIVATE	5,587.45
8,836 Private	PRIVATE	9,858.84
8,854 Private	PRIVATE	4,413.30
8,859 Private	PRIVATE	2,410.07
8,865 Private	PRIVATE	3,217.30
8,866 Private	PRIVATE	41,966.45
8,870 Private	PRIVATE	3,614.88
8,877 Private	PRIVATE	73.52840677
8,885 Private	PRIVATE	2,983.15
8,886 Private	PRIVATE	1,658.99
8,894 Private	PRIVATE	9,943.59
8,898 Private	PRIVATE	3,215.35
8,900 Private	PRIVATE	1,608.10
8,908 Private	PRIVATE	855.5151679
8,917 Private	PRIVATE	8,857.84
8,923 Private	PRIVATE	4,844.41
8,924 Private	PRIVATE	6,073.32
8,931 Private	PRIVATE	3,743.97
8,942 Private	PRIVATE	11,378.42
8,943 Private	PRIVATE	3,460.46
8,944 Private	PRIVATE	762.9719982
8,949 Private	PRIVATE	11,534.35
8,953 Private	PRIVATE	224,434.73
8,956 Private	PRIVATE	1,340.87
8,958 Private	PRIVATE	2,116.65
8,961 Private	PRIVATE	1,337.94
8,978 Private	PRIVATE	1,657.03
8,981 Private	PRIVATE	4,841.76
8,984 Private	PRIVATE	531.5337496
8,991 Private	PRIVATE	4,060.68
8,998 Private	PRIVATE	1,276.82
9,001 Private	PRIVATE	3,237.42
9,002 Private	PRIVATE	7,633.78
9,005 Private	PRIVATE	1,607.10
9,008 Private	PRIVATE	2,401.31
9,011 Private	PRIVATE	3,258.02
9,012 Private	PRIVATE	1,533.15
9,016 Private	PRIVATE	71,436.53
9,022 Private	PRIVATE	1,602.42
9,031 Private	PRIVATE	854.2288081
9,041 Private	PRIVATE	1,608.33
9,044 Private	PRIVATE	152.2269061
9,051 Private	PRIVATE	5,611.89
9,083 Private	PRIVATE	7,989.26

9,127 Private	PRIVATE	6,202.04
9,130 Private	PRIVATE	6,432.72
9,145 Private	PRIVATE	109.7234633
9,148 Private	PRIVATE	65,563.39
9,150 Private	PRIVATE	6,411.08
9,153 Private	PRIVATE	928.6186734
9,161 Private	PRIVATE	3,833.18
9,164 Private	PRIVATE	3,193.55
9,166 Private	PRIVATE	4,762.85
9,179 Private	PRIVATE	28.28899546
9,181 Private	PRIVATE	517.8827879
9,192 Private	PRIVATE	1,762.38
9,197 Private	PRIVATE	3,973.63
9,211 Private	PRIVATE	2,414.31
9,215 Private	PRIVATE	2,193.36
9,229 Private	PRIVATE	2,131.69
9,243 Private	PRIVATE	1,224.71
9,244 Private	PRIVATE	6,429.99
9,290 Private	PRIVATE	1,148.98
9,292 Private	PRIVATE	64.52806068
9,300 Private	PRIVATE	1,279.28
9,316 Private	PRIVATE	3,238.06
9,326 Private	PRIVATE	40.52376695
9,329 Private	PRIVATE	1,279.83
9,330 Private	PRIVATE	1,280.08
9,333 Private	PRIVATE	1,954.85
9,334 Private	PRIVATE	1,923.73
9,335 Private	PRIVATE	766.8522116
9,337 Private	PRIVATE	1,268.93
9,347 Private	PRIVATE	8,059.96
9,349 Private	PRIVATE	1,279.49
9,351 Private	PRIVATE	1,613.09
9,352 Private	PRIVATE	2,784.74
9,356 Private	PRIVATE	1,008.42
9,357 Private	PRIVATE	1,009.45
9,364 Private	PRIVATE	216.1523142
9,367 Private	PRIVATE	4,369.03
9,369 Private	PRIVATE	7,271.83
9,437 Private	PRIVATE	3,876.93
9,441 Private	PRIVATE	1,980.37
9,456 Private	PRIVATE	1,253.03
9,479 Private	PRIVATE	3,791.84
9,489 Private	PRIVATE	1,281.85
9,510 Private	PRIVATE	1,207.74
9,514 Private	PRIVATE	1,254.22
9,515 Private	PRIVATE	1,187.56
9,520 Private	PRIVATE	1,178.85

9,524 Private	PRIVATE	1,268.27
9,531 Private	PRIVATE	5,931.66
9,574 Private	PRIVATE	4,818.01
9,578 Private	PRIVATE	9,996.56
9,583 Private	PRIVATE	1,530.50
9,584 Private	PRIVATE	169.6366759
9,586 Private	PRIVATE	114.9502187
9,588 Private	PRIVATE	1,240.10
9,590 Private	PRIVATE	1,284.75
9,592 Private	PRIVATE	467.8410603
9,593 Private	PRIVATE	4,639.95
9,597 Private	PRIVATE	1,290.80
9,598 Private	PRIVATE	1,807.79
9,603 Private	PRIVATE	830.1028615
9,604 Private	PRIVATE	3,329.93
9,608 Private	PRIVATE	2,414.22
9,610 Private	PRIVATE	2,287.79
9,612 Private	PRIVATE	1,279.10
9,613 Private	PRIVATE	1,061.48
9,618 Private	PRIVATE	2,676.31
9,632 Private	PRIVATE	520.2539942
9,648 Private	PRIVATE	1,279.80
9,657 Private	PRIVATE	1,974.96
9,663 Private	PRIVATE	1,394.71
9,664 Private	PRIVATE	1,630.29
9,669 Private	PRIVATE	1,317.03
9,679 Private	PRIVATE	3,109.60
9,699 Private	PRIVATE	12,114.75
9,718 Private	PRIVATE	1,794.84
9,727 Private	PRIVATE	3,301.69
9,750 Private	PRIVATE	303.0655812
9,758 Private	PRIVATE	542.1990131
9,761 Private	PRIVATE	598.5249324
9,762 Private	PRIVATE	829.4328974
9,765 Private	PRIVATE	13,852.52
9,767 Private	PRIVATE	4,052.40
9,770 Private	PRIVATE	1,210.55
9,772 Private	PRIVATE	995.8262118
9,774 Private	PRIVATE	1,191.43
9,775 Private	PRIVATE	2,194.50
9,777 Private	PRIVATE	4,345.09
9,779 Private	PRIVATE	1,627.92
9,780 Private	PRIVATE	1,234.88
9,784 Private	PRIVATE	1,269.36
9,789 Private	PRIVATE	4,042.14
9,791 Private	PRIVATE	1,138.17
9,792 Private	PRIVATE	6,399.28

9,794 Private	PRIVATE	2,641.34
9,795 Private	PRIVATE	2,644.77
9,800 Private	PRIVATE	1,610.59
9,801 Private	PRIVATE	1,252.46
9,802 Private	PRIVATE	6,248.93
9,804 Private	PRIVATE	2,415.93
9,808 Private	PRIVATE	15,951.76
9,810 Private	PRIVATE	3,545.33
9,811 Private	PRIVATE	7,233.99
9,813 Private	PRIVATE	5,865.01
9,814 Private	PRIVATE	1,325.13
9,815 Private	PRIVATE	2,257.47
9,817 Private	PRIVATE	1,290.41
9,820 Private	PRIVATE	4,417.47
9,825 Private	PRIVATE	4,842.48
9,827 Private	PRIVATE	6,309.24
9,828 Private	PRIVATE	2,610.70
9,829 Private	PRIVATE	1,618.52
9,841 Private	PRIVATE	300.1456058
9,842 Private	PRIVATE	3,601.34
9,843 Private	PRIVATE	2,097.57
9,848 Private	PRIVATE	438.5685013
9,851 Private	PRIVATE	4,877.24
9,856 Private	PRIVATE	1,975.55
9,863 Private	PRIVATE	948.62044
9,865 Private	PRIVATE	1,612.47
9,866 Private	PRIVATE	1,539.77
9,868 Private	PRIVATE	3,915.83
9,873 Private	PRIVATE	620.9055396
9,874 Private	PRIVATE	3,668.29
9,876 Private	PRIVATE	1,280.12
9,878 Private	PRIVATE	4,039.93
9,879 Private	PRIVATE	1,327.98
9,882 Private	PRIVATE	1,515.66
9,883 Private	PRIVATE	1,225.23
9,884 Private	PRIVATE	1,290.24
9,886 Private	PRIVATE	503.1432249
9,888 Private	PRIVATE	2,479.87
9,890 Private	PRIVATE	1,312.73
9,891 Private	PRIVATE	3,378.63
9,892 Private	PRIVATE	1,307.47
9,893 Private	PRIVATE	1,659.33
9,895 Private	PRIVATE	1,279.60
9,896 Private	PRIVATE	2,208.92
9,898 Private	PRIVATE	180,970.14
9,899 Private	PRIVATE	3,357.12
9,900 Private	PRIVATE	6,437.11

9,902 Private	PRIVATE	3,710.41
9,904 Private	PRIVATE	5,678.51
9,906 Private	PRIVATE	5,126.75
9,908 Private	PRIVATE	2,109.87
9,909 Private	PRIVATE	5,562.54
9,911 Private	PRIVATE	6,801.01
9,914 Private	PRIVATE	6,453.13
9,917 Private	PRIVATE	2,214.58
9,918 Private	PRIVATE	1,280.16
9,919 Private	PRIVATE	1,228.68
9,920 Private	PRIVATE	3,024.33
9,921 Private	PRIVATE	1,612.73
9,922 Private	PRIVATE	1,997.44
9,923 Private	PRIVATE	1,760.38
9,926 Private	PRIVATE	1,606.10
9,927 Private	PRIVATE	2,824.23
9,928 Private	PRIVATE	63,449.41
9,930 Private	PRIVATE	7,900.11
9,946 Private	PRIVATE	6,489.73
9,950 Private	PRIVATE	3,354.00
10,046 Private	PRIVATE	3,542.83
10,053 Private	PRIVATE	4,621.76
10,055 Private	PRIVATE	4,854.67
10,059 Private	PRIVATE	5,631.52
10,063 Private	PRIVATE	14,394.63
10,112 Private	PRIVATE	605,194.30
10,451 Private	PRIVATE	24,256.02
10,784 Private	PRIVATE	2,132,129.28
13,352 State	STATE	34,590.41
13,390 State	STATE	20,943.50
13,399 State	STATE	4,022.29
13,405 State	STATE	3,222.62
13,424 State	STATE	12,285.88
13,443 State	STATE	6,456.09
13,444 State	STATE	2,413.89
13,445 State	STATE	658.8089789
13,452 State	STATE	26,908.67
13,464 State	STATE	5,633.23
13,479 State	STATE	1,333.80
13,488 State	STATE	1,950.17
13,493 State	STATE	4,829.25
13,528 State	STATE	3,803.66
13,530 State	STATE	14,493.31
13,535 State	STATE	3,240.20
13,538 State	STATE	5,850.85
13,545 State	STATE	1,549.08
13,547 State	STATE	3,359.95

13,591 State	STATE	6,013.41
13,619 State	STATE	4,011.75
13,622 State	STATE	1,280.96
13,625 State	STATE	3,022.16
13,633 State	STATE	10,548.12
13,649 State	STATE	14,996.04
13,661 State	STATE	6,485.29
13,684 State	STATE	942.91197
13,685 State	STATE	6,429.91
13,693 State	STATE	4,870.28
13,694 State	STATE	1,856.79
13,696 State	STATE	4,062.86
13,700 State	STATE	5,253.37
13,709 State	STATE	2,852.05
13,715 State	STATE	798.2517144
13,727 State	STATE	3,434.85
13,734 State	STATE	5,414.38
13,735 State	STATE	5,161.87
13,736 State	STATE	2,389.81
13,744 State	STATE	1,245.19
13,750 State	STATE	33,433.21
13,751 State	STATE	6,440.72
13,752 State	STATE	2,416.35
13,762 State	STATE	57,148.21
13,766 State	STATE	10,067.23
13,770 State	STATE	2,119.23
13,774 State	STATE	838.6198003
13,781 State	STATE	42,730.19
13,784 State	STATE	6,471.56
13,786 State	STATE	3,234.08
13,794 State	STATE	3,156.07
13,802 State	STATE	1,635.57
13,804 State	STATE	5,040.88
13,813 State	STATE	2,413.36
13,815 State	STATE	3,279.86
13,817 State	STATE	13,085.22
13,818 State	STATE	6,206.30
13,819 State	STATE	1,636.25
13,820 State	STATE	6,456.48
13,821 State	STATE	2,415.25
13,823 State	STATE	1,567.67
13,827 State	STATE	771.8007168
13,828 State	STATE	5,247.91
13,830 State	STATE	846.2120964
13,834 State	STATE	2,433.97
13,835 State	STATE	1,620.98
13,841 State	STATE	112,713.50

13,851 State	STATE	14,621.06
13,852 State	STATE	5,082.49
13,853 State	STATE	6,415.22
13,854 State	STATE	4,799.14
13,855 State	STATE	6,384.50
13,860 State	STATE	474.510092
13,861 State	STATE	8,467.63
13,866 State	STATE	6,501.76
13,869 State	STATE	5,619.96
13,882 State	STATE	4,073.21
13,885 State	STATE	34,127.11
13,888 State	STATE	1,611.83
13,893 State	STATE	2,825.10
13,896 State	STATE	292.5620581
13,903 State	STATE	4,328.88
13,907 State	STATE	2,545.85
13,909 State	STATE	6,382.90
13,911 State	STATE	2,751.82
13,912 State	STATE	1,629.78
13,913 State	STATE	9,790.69
13,915 State	STATE	1,609.07
13,919 State	STATE	2,325.70
13,921 State	STATE	6,435.57
13,922 State	STATE	10,233.03
13,927 State	STATE	1,610.22
13,928 State	STATE	582.979308
13,934 State	STATE	995.2614341
13,939 State	STATE	5,069.19
13,944 State	STATE	7,946.29
13,950 State	STATE	6,161.15
13,952 State	STATE	6,414.32
13,957 State	STATE	1,890.59
13,971 State	STATE	7,275.18
13,979 State	STATE	6,426.84
13,981 State	STATE	3,068.47
13,989 State	STATE	85.24736217
13,990 State	STATE	164.9648338
13,991 State	STATE	172.7679773
13,992 State	STATE	80.68400976
13,993 State	STATE	60.09969566
13,994 State	STATE	442.0592463
13,995 State	STATE	93.35675726
13,996 State	STATE	1,268.87
13,997 State	STATE	167.4573349
13,998 State	STATE	74.52078311
13,999 State	STATE	132.9546019
14,000 State	STATE	209.21371



14,001 State	STATE	232.690283
14,002 State	STATE	426.9862794
14,003 State	STATE	83.36430168
14,004 State	STATE	84.70199046
14,005 State	STATE	149.8722934
14,006 State	STATE	210.1619753
14,007 State	STATE	143.0367525
14,008 State	STATE	203.4761291
14,009 State	STATE	512.1736633
14,010 State	STATE	84.16675891
14,011 State	STATE	115.4258861
14,013 State	STATE	891.5606336
14,014 State	STATE	517.4707023
14,020 State	STATE	6,451.40
14,023 State	STATE	5,882.60
14,028 State	STATE	7,301.98
14,029 State	STATE	758.0568077
14,033 State	STATE	6,442.41
14,050 State	STATE	5,270.51
14,052 State	STATE	8,857.99
14,071 State	STATE	5,915.24
14,073 State	STATE	17,572.52
14,083 State	STATE	11,447.69
14,086 State	STATE	6,517.56
14,091 State	STATE	6,442.98
14,092 State	STATE	550.4299312
14,099 State	STATE	3,417.28
14,100 State	STATE	5,645.33
14,107 State	STATE	6,174.45
14,113 State	STATE	6,489.35
14,117 State	STATE	6,276.09
14,121 State	STATE	3,086.37
14,126 State	STATE	6,462.66
14,127 State	STATE	3,421.12
14,128 State	STATE	2,726.97
14,136 State	STATE	5,820.22
14,142 State	STATE	9,720.39
14,149 State	STATE	6,444.19
14,156 State	STATE	7,387.65
14,158 State	STATE	5,388.36
14,160 State	STATE	2,060.91
14,163 State	STATE	1,942.00
14,165 State	STATE	4,139.04
14,178 State	STATE	22,834.45
14,202 State	STATE	6,442.65
14,208 State	STATE	6,436.46
14,227 State	STATE	17,166.23

14,229 State	STATE	13.21045371
14,233 State	STATE	7,231.53
14,238 State	STATE	1,043.38
14,247 State	STATE	1,617.33
14,254 State	STATE	1,973.94
14,257 State	STATE	5,649.57
14,263 State	STATE	9,399.75
14,267 State	STATE	6,362.38
14,269 State	STATE	7,629.33
14,270 State	STATE	6,416.03
14,273 State	STATE	20,697.19
14,282 State	STATE	4,835.48
14,285 State	STATE	1,990.09
14,294 State	STATE	5,639.32
14,295 State	STATE	1,943.43
14,305 State	STATE	6,431.01
14,310 State	STATE	3,984.31
14,311 State	STATE	6,441.25
14,314 State	STATE	4,735.35
14,317 State	STATE	6,365.85
14,322 State	STATE	2,783.62
14,324 State	STATE	6,965.95
14,326 State	STATE	4,685.45
14,330 State	STATE	3,383.28
14,335 State	STATE	4,854.34
14,341 State	STATE	9,066.49
14,348 State	STATE	5,486.25
14,352 State	STATE	2,461.83
14,354 State	STATE	6,457.93
14,357 State	STATE	6,398.70
14,359 State	STATE	6,699.20
14,368 State	STATE	4,046.46
14,375 State	STATE	6,529.21
14,377 State	STATE	1,668.79
14,380 State	STATE	6,407.87
14,382 State	STATE	6,421.42
14,383 State	STATE	26,132.16
14,386 State	STATE	7,245.78
14,391 State	STATE	6,333.18
14,394 State	STATE	6,498.24
14,403 State	STATE	3,941.21
14,408 State	STATE	5,204.88
14,409 State	STATE	6,695.46
14,413 State	STATE	6,400.45
14,415 State	STATE	6,490.00
14,420 State	STATE	13,920.89
14,421 State	STATE	1,611.23

14,430 State	STATE	10,113.04
14,431 State	STATE	6,171.02
14,437 State	STATE	607.168813
14,438 State	STATE	4,842.88
14,440 State	STATE	3,598.41
14,441 State	STATE	4,475.27
14,442 State	STATE	6,261.52
14,443 State	STATE	7,285.80
14,452 State	STATE	229.4315883
14,453 State	STATE	3,999.99
14,455 State	STATE	4,888.88
14,456 State	STATE	15,427.33
14,459 State	STATE	6,413.38
14,460 State	STATE	10,151.70
14,465 State	STATE	6,446.80
14,467 State	STATE	4,837.62
14,471 State	STATE	8,100.96
14,472 State	STATE	6,481.56
14,476 State	STATE	4,316.92
14,478 State	STATE	6,410.67
14,480 State	STATE	4,793.31
14,481 State	STATE	2,838.39
14,482 State	STATE	6,550.81
14,484 State	STATE	3,249.80
14,488 State	STATE	1,877.91
14,490 State	STATE	4,026.49
14,491 State	STATE	3,227.76
14,494 State	STATE	1,610.69
14,495 State	STATE	5,892.33
14,496 State	STATE	968.3125087
14,497 State	STATE	1,616.01
14,499 State	STATE	1,611.14
14,503 State	STATE	6,437.43
14,511 State	STATE	4,075.52
14,513 State	STATE	35.1476393
14,514 State	STATE	7,285.19
14,516 State	STATE	3,514.68
14,519 State	STATE	6,468.09
14,525 State	STATE	4,834.91
14,529 State	STATE	4,874.85
14,531 State	STATE	4,851.32
14,539 State	STATE	1,607.46
14,540 State	STATE	4,052.32
14,548 State	STATE	6,469.47
14,550 State	STATE	6,603.59
14,552 State	STATE	44,821.53
14,554 State	STATE	7,621.27

14,556 State	STATE	6,458.04
14,557 State	STATE	3,227.11
14,561 State	STATE	1,609.73
14,564 State	STATE	3,220.81
14,573 State	STATE	2,643.37
14,576 State	STATE	8,052.26
14,579 State	STATE	172.4671251
14,581 State	STATE	5,226.25
14,583 State	STATE	6,068.55
14,585 State	STATE	6,691.90
14,586 State	STATE	4,846.30
14,587 State	STATE	427.3988659
14,590 State	STATE	2,411.50
14,594 State	STATE	9,688.86
14,600 State	STATE	6,430.70
14,607 State	STATE	6,410.83
14,614 State	STATE	6,448.89
14,615 State	STATE	2,071.74
14,616 State	STATE	2,662.10
14,618 State	STATE	5,901.91
14,624 State	STATE	1,169.42
14,625 State	STATE	86.12741107
15,153 USFS	USFS	854.9732711
15,154 USFS	USFS	441.5638414
15,166 USFS	USFS	173.6647609
15,168 USFS	USFS	86,177.76
15,175 USFS	USFS	659,400.30
15,179 USFS	USFS	8,302.80
15,191 USFS	USFS	688.6686567
15,198 USFS	USFS	621.9032559
15,201 USFS	USFS	2,654.83
15,213 USFS	USFS	2,162.11
15,214 USFS	USFS	36.19720497
15,215 USFS	USFS	31.86399617
15,241 USFS	USFS	3,193.46
15,243 USFS	USFS	109,364.07
15,245 USFS	USFS	379.6208891
15,256 USFS	USFS	29,318.16
15,260 USFS	USFS	306,902.67
15,262 USFS	USFS	142,075.14
15,331 USFS Not Analyzed	USFS Not Analyzed	2,045.81
15,368 USFS Not Analyzed	USFS Not Analyzed	5,849.74
15,385 USFS Not Analyzed	USFS Not Analyzed	3,910.21
15,477 USFS Not Analyzed	USFS Not Analyzed	5,215.49
15,548 USFS Not Analyzed	USFS Not Analyzed	15,734.71
369 BLM	BLM	2,527.94
400 BLM	BLM	2,418.84

416 BLM	BLM	1,613.07
429 BLM	BLM	4,034.97
473 BLM	BLM	2,444.67
483 BLM	BLM	5,603.51
485 BLM	BLM	3,244.08
502 BLM	BLM	8,108.33
516 BLM	BLM	1,500.10
542 BLM	BLM	3,222.81
545 BLM	BLM	3,113.19
555 BLM	BLM	1,612.37
565 BLM	BLM	2,298.51
600 BLM	BLM	4,035.74
605 BLM	BLM	2,430.89
610 BLM	BLM	2,432.20
617 BLM	BLM	4,033.53
626 BLM	BLM	1,617.54
653 BLM	BLM	2,387.91
661 BLM	BLM	2,430.66
672 BLM	BLM	7,205.13
722 BLM	BLM	1,620.62
741 BLM	BLM	7,233.74
944 BLM	BLM	1,608.07
951 BLM	BLM	2,395.48
1,152 BLM	BLM	48.19432332
1,158 BLM	BLM	1,339.09
1,161 BLM	BLM	1,587.61
1,190 BLM	BLM	367.7897632
1,203 BLM	BLM	2,512.46
1,230 BLM	BLM	3,657.04
1,232 BLM	BLM	478.0947723
1,314 BLM	BLM	1,012.39
1,344 BLM	BLM	2,979.86
1,351 BLM	BLM	1,192.84
1,361 BLM	BLM	2,636.25
1,367 BLM	BLM	6,483.78
1,376 BLM	BLM	2,418.32
1,381 BLM	BLM	2,416.96
1,391 BLM	BLM	1,610.29
1,432 BLM	BLM	4,834.97
1,463 BLM	BLM	1,797.42
1,640 BLM	BLM	14,738.75
1,826 BLM	BLM	3,223.94
1,847 BLM	BLM	1,613.11
1,869 BLM	BLM	1,619.21
1,872 BLM	BLM	1,606.51
1,876 BLM	BLM	17,091.51
1,887 BLM	BLM	2,435.33

1,926 BLM	BLM	8,992.14
1,932 BLM	BLM	1,601.17
1,941 BLM	BLM	1,347.03
1,999 BLM	BLM	1,553.35
2,005 BLM	BLM	1,609.30
2,019 BLM	BLM	3,217.14
2,024 BLM	BLM	3,216.01
2,025 BLM	BLM	1,586.35
2,031 BLM	BLM	2,407.80
2,721 BLM	BLM	3,025,611.91
4,989 HSTRCWTR	HSTRCWTR	2,067.71
5,278 IR	IR	105,997.19
5,504 Other Federal	MIL	254.395741
5,508 Other Federal	MIL	652.4570432
5,510 Other Federal	MIL	568.8960973
5,511 Other Federal	MIL	254.3799903
5,947 Private	PRIVATE	1,146.85
5,950 Private	PRIVATE	4,416.08
5,952 Private	PRIVATE	2,011.93
5,955 Private	PRIVATE	2,411.32
5,959 Private	PRIVATE	1,610.46
5,966 Private	PRIVATE	1,613.72
5,973 Private	PRIVATE	3,225.09
5,976 Private	PRIVATE	8,469.02
5,978 Private	PRIVATE	2,420.44
5,979 Private	PRIVATE	11,261.61
5,989 Private	PRIVATE	8,035.11
5,991 Private	PRIVATE	5,667.76
5,996 Private	PRIVATE	5,888.61
5,997 Private	PRIVATE	4,045.71
6,006 Private	PRIVATE	4,034.49
6,013 Private	PRIVATE	12,129.51
6,018 Private	PRIVATE	6,131.48
6,022 Private	PRIVATE	7,276.05
6,026 Private	PRIVATE	8,855.71
6,029 Private	PRIVATE	5,970.18
6,037 Private	PRIVATE	64,722.63
6,042 Private	PRIVATE	1,553.16
6,044 Private	PRIVATE	2,419.70
6,045 Private	PRIVATE	5,619.69
6,046 Private	PRIVATE	3,220.49
6,050 Private	PRIVATE	8,096.80
6,053 Private	PRIVATE	4,059.73
6,057 Private	PRIVATE	9,307.19
6,063 Private	PRIVATE	16,813.08
6,066 Private	PRIVATE	2,421.95
6,070 Private	PRIVATE	7,396.69

6,071 Private	PRIVATE	3,222.14
6,077 Private	PRIVATE	4,036.39
6,078 Private	PRIVATE	8,083.69
6,081 Private	PRIVATE	1,613.80
6,082 Private	PRIVATE	4,826.66
6,083 Private	PRIVATE	1,618.59
6,089 Private	PRIVATE	11,312.11
6,090 Private	PRIVATE	6,485.59
6,091 Private	PRIVATE	4,816.41
6,092 Private	PRIVATE	1,608.96
6,100 Private	PRIVATE	2,427.53
6,101 Private	PRIVATE	6,444.49
6,102 Private	PRIVATE	1,639.40
6,105 Private	PRIVATE	3,242.21
6,135 Private	PRIVATE	6,498.54
6,193 Private	PRIVATE	3,213.91
6,204 Private	PRIVATE	7,221.80
6,206 Private	PRIVATE	1,609.23
6,207 Private	PRIVATE	4,041.12
6,210 Private	PRIVATE	4,055.21
6,211 Private	PRIVATE	1,560.11
6,214 Private	PRIVATE	7,221.15
6,215 Private	PRIVATE	1,641.20
6,216 Private	PRIVATE	8,948.60
6,217 Private	PRIVATE	4,057.07
6,218 Private	PRIVATE	1,508.65
6,284 Private	PRIVATE	3,249.47
6,380 Private	PRIVATE	1,609.04
6,408 Private	PRIVATE	11,303.98
6,409 Private	PRIVATE	10,624.12
6,411 Private	PRIVATE	8,065.21
6,414 Private	PRIVATE	4,054.30
6,417 Private	PRIVATE	7,293.42
6,421 Private	PRIVATE	4,971.61
6,423 Private	PRIVATE	7,320.47
6,424 Private	PRIVATE	7,260.73
6,425 Private	PRIVATE	1,605.52
6,427 Private	PRIVATE	4,840.23
6,428 Private	PRIVATE	5,621.17
6,429 Private	PRIVATE	4,017.80
6,430 Private	PRIVATE	2,420.59
6,433 Private	PRIVATE	1,631.79
6,435 Private	PRIVATE	2,434.21
6,437 Private	PRIVATE	114,567.94
6,438 Private	PRIVATE	11,351.27
6,439 Private	PRIVATE	5,650.95
6,440 Private	PRIVATE	20,115.41

6,441 Private	PRIVATE	1,611.81
6,442 Private	PRIVATE	1,619.00
6,443 Private	PRIVATE	21,798.79
6,448 Private	PRIVATE	5,628.90
6,449 Private	PRIVATE	4,080.46
6,455 Private	PRIVATE	8,880.57
6,459 Private	PRIVATE	1,612.46
6,461 Private	PRIVATE	8,028.19
6,463 Private	PRIVATE	5,622.12
6,474 Private	PRIVATE	4,836.12
6,477 Private	PRIVATE	1,638.86
6,532 Private	PRIVATE	4,015.09
6,533 Private	PRIVATE	2,418.70
6,536 Private	PRIVATE	3,218.32
6,539 Private	PRIVATE	3,216.63
6,540 Private	PRIVATE	659.0163552
6,548 Private	PRIVATE	1,608.70
6,550 Private	PRIVATE	1,609.74
6,553 Private	PRIVATE	6,437.43
6,556 Private	PRIVATE	4,834.93
6,564 Private	PRIVATE	4,025.85
6,565 Private	PRIVATE	6,393.13
6,568 Private	PRIVATE	14,095.86
6,571 Private	PRIVATE	1,608.72
6,574 Private	PRIVATE	2,412.04
6,578 Private	PRIVATE	15,277.55
6,579 Private	PRIVATE	1,609.53
6,580 Private	PRIVATE	2,418.57
6,584 Private	PRIVATE	4,014.16
6,585 Private	PRIVATE	5,616.18
6,586 Private	PRIVATE	1,607.97
6,589 Private	PRIVATE	7,229.67
6,592 Private	PRIVATE	1,609.44
6,593 Private	PRIVATE	1,610.99
6,598 Private	PRIVATE	1,614.74
6,599 Private	PRIVATE	2,408.66
6,600 Private	PRIVATE	1,608.30
6,601 Private	PRIVATE	4,040.15
6,602 Private	PRIVATE	3,222.19
6,603 Private	PRIVATE	14,080.51
6,604 Private	PRIVATE	1,608.24
6,621 Private	PRIVATE	9,454.14
6,626 Private	PRIVATE	8,037.33
6,664 Private	PRIVATE	11,257.94
6,668 Private	PRIVATE	4,845.29
6,669 Private	PRIVATE	1,612.64
6,670 Private	PRIVATE	1,610.04



6,672 Private	PRIVATE	4,031.65
6,676 Private	PRIVATE	7,264.99
6,679 Private	PRIVATE	6,444.71
6,684 Private	PRIVATE	3,231.94
6,685 Private	PRIVATE	8,888.76
6,688 Private	PRIVATE	3,220.59
6,691 Private	PRIVATE	21,675.58
6,696 Private	PRIVATE	1,610.30
6,699 Private	PRIVATE	3,213.85
6,701 Private	PRIVATE	1,609.26
6,706 Private	PRIVATE	2,407.89
6,711 Private	PRIVATE	1,609.70
6,715 Private	PRIVATE	1,615.40
6,716 Private	PRIVATE	1,609.35
6,718 Private	PRIVATE	18,281.70
6,720 Private	PRIVATE	1,610.38
6,722 Private	PRIVATE	4,035.33
6,728 Private	PRIVATE	1,608.82
6,731 Private	PRIVATE	20,205.04
6,735 Private	PRIVATE	19,394.10
6,736 Private	PRIVATE	3,228.33
6,739 Private	PRIVATE	4,849.95
6,741 Private	PRIVATE	6,423.35
6,750 Private	PRIVATE	1,608.40
6,751 Private	PRIVATE	7,276.93
6,753 Private	PRIVATE	1,613.94
6,758 Private	PRIVATE	8,885.25
6,765 Private	PRIVATE	2,427.19
6,769 Private	PRIVATE	6,447.48
6,777 Private	PRIVATE	22,594.55
6,778 Private	PRIVATE	2,788.84
6,781 Private	PRIVATE	8,769.72
6,782 Private	PRIVATE	1,607.76
6,798 Private	PRIVATE	1,260.57
6,804 Private	PRIVATE	2,396.89
6,806 Private	PRIVATE	9,784.19
6,809 Private	PRIVATE	18,992.96
6,812 Private	PRIVATE	19,362.21
6,814 Private	PRIVATE	1,798.32
6,823 Private	PRIVATE	4,283.54
6,832 Private	PRIVATE	17,653.66
6,835 Private	PRIVATE	31,467.98
6,836 Private	PRIVATE	1,608.83
6,843 Private	PRIVATE	12,166.74
6,848 Private	PRIVATE	7,429.70
6,852 Private	PRIVATE	1,760.12
6,855 Private	PRIVATE	1,602.92

6,858 Private	PRIVATE	3,219.75
6,865 Private	PRIVATE	1,609.13
6,869 Private	PRIVATE	49.03866681
6,870 Private	PRIVATE	1,590.96
6,884 Private	PRIVATE	17,011.99
6,900 Private	PRIVATE	3,317.17
6,913 Private	PRIVATE	37,932.79
6,942 Private	PRIVATE	827.1284767
6,986 Private	PRIVATE	16,835.65
6,991 Private	PRIVATE	6,426.95
7,014 Private	PRIVATE	3,814.69
7,026 Private	PRIVATE	3,211.85
7,042 Private	PRIVATE	4,803.63
7,043 Private	PRIVATE	3,965.95
7,044 Private	PRIVATE	4,828.33
7,045 Private	PRIVATE	3,184.63
7,052 Private	PRIVATE	6,286.82
7,061 Private	PRIVATE	12,047.28
7,082 Private	PRIVATE	137,869.69
7,090 Private	PRIVATE	9,747.99
7,096 Private	PRIVATE	4,045.00
7,102 Private	PRIVATE	4,019.19
7,108 Private	PRIVATE	9,604.29
7,119 Private	PRIVATE	30,906.01
7,125 Private	PRIVATE	6,430.97
7,126 Private	PRIVATE	6,481.74
7,133 Private	PRIVATE	4,054.51
7,139 Private	PRIVATE	12,896.02
7,146 Private	PRIVATE	4,010.13
7,174 Private	PRIVATE	7,037.89
7,192 Private	PRIVATE	7,268.08
7,215 Private	PRIVATE	15,902.82
7,223 Private	PRIVATE	87,029.64
7,242 Private	PRIVATE	1,593.88
7,264 Private	PRIVATE	1,605.74
7,265 Private	PRIVATE	1,608.98
7,268 Private	PRIVATE	3,208.51
7,269 Private	PRIVATE	576.2164062
7,271 Private	PRIVATE	35,138.68
7,274 Private	PRIVATE	1,306.11
7,280 Private	PRIVATE	907.1640903
7,284 Private	PRIVATE	33,412.29
7,287 Private	PRIVATE	6,928.67
7,291 Private	PRIVATE	6,497.33
7,312 Private	PRIVATE	12,879.96
7,330 Private	PRIVATE	2,406.08
7,332 Private	PRIVATE	3,408.08

7,344 Private	PRIVATE	22,853.57
7,349 Private	PRIVATE	9,695.89
7,364 Private	PRIVATE	36,211.16
7,386 Private	PRIVATE	4,053.58
7,387 Private	PRIVATE	9,747.05
7,404 Private	PRIVATE	1,527.60
7,405 Private	PRIVATE	241.4863588
7,435 Private	PRIVATE	16,877.47
7,441 Private	PRIVATE	50,588.25
7,483 Private	PRIVATE	19,188.60
7,485 Private	PRIVATE	4,159.56
7,514 Private	PRIVATE	9,717.73
7,531 Private	PRIVATE	11,203.11
7,550 Private	PRIVATE	7,250.32
7,763 Private	PRIVATE	30,400.14
11,010 State	STATE	4,588.74
11,012 State	STATE	9,693.92
11,016 State	STATE	5,727.67
11,028 State	STATE	5,638.76
11,029 State	STATE	6,444.32
11,034 State	STATE	7,243.01
11,039 State	STATE	6,434.98
11,044 State	STATE	7,255.85
11,047 State	STATE	6,445.58
11,059 State	STATE	6,444.21
11,072 State	STATE	6,481.70
11,086 State	STATE	6,442.91
11,095 State	STATE	6,439.66
11,097 State	STATE	16,038.79
11,103 State	STATE	3,953.41
11,106 State	STATE	6,454.39
11,110 State	STATE	6,442.40
11,119 State	STATE	6,435.81
11,121 State	STATE	6,443.71
11,126 State	STATE	4,044.55
11,134 State	STATE	6,461.20
11,137 State	STATE	6,440.21
11,140 State	STATE	6,437.43
11,147 State	STATE	6,451.76
11,148 State	STATE	8,882.14
11,151 State	STATE	6,441.53
11,157 State	STATE	6,431.00
11,167 State	STATE	6,454.46
11,168 State	STATE	6,471.45
11,169 State	STATE	6,442.04
11,171 State	STATE	4,047.22
11,183 State	STATE	1,620.45

11,185 State	STATE	5,416.03
11,188 State	STATE	6,435.19
11,198 State	STATE	6,438.39
11,209 State	STATE	6,438.31
11,215 State	STATE	5,665.25
11,216 State	STATE	6,434.35
11,217 State	STATE	8,160.91
11,222 State	STATE	6,430.26
11,231 State	STATE	6,458.70
11,234 State	STATE	7,238.48
11,238 State	STATE	4,033.33
11,246 State	STATE	6,439.13
11,249 State	STATE	6,441.96
11,256 State	STATE	6,438.01
11,266 State	STATE	6,453.49
11,273 State	STATE	6,434.91
11,282 State	STATE	6,472.72
11,283 State	STATE	6,436.92
11,285 State	STATE	6,438.49
11,296 State	STATE	6,434.38
11,299 State	STATE	6,435.33
11,301 State	STATE	6,439.96
11,306 State	STATE	6,430.36
11,310 State	STATE	6,434.63
11,313 State	STATE	93,009.58
11,316 State	STATE	5,945.42
11,317 State	STATE	1,606.84
11,323 State	STATE	6,442.23
11,328 State	STATE	6,449.11
11,329 State	STATE	1,607.72
11,333 State	STATE	2,406.30
11,335 State	STATE	1,607.81
11,339 State	STATE	6,444.26
11,340 State	STATE	32,301.57
11,345 State	STATE	4,807.89
11,348 State	STATE	6,450.12
11,352 State	STATE	7,230.86
11,354 State	STATE	6,436.52
11,355 State	STATE	13,675.27
11,358 State	STATE	6,433.33
11,360 State	STATE	6,437.58
11,363 State	STATE	5,645.82
11,367 State	STATE	6,436.36
11,368 State	STATE	1,620.11
11,375 State	STATE	6,422.89
11,378 State	STATE	6,430.34
11,380 State	STATE	1,608.29

11,385 State	STATE	3,810.88
11,392 State	STATE	6,440.84
11,394 State	STATE	1,423.71
11,405 State	STATE	25,800.52
11,406 State	STATE	2,810.30
11,415 State	STATE	6,437.29
11,416 State	STATE	7,252.96
11,418 State	STATE	6,439.55
11,437 State	STATE	6,431.55
11,439 State	STATE	6,439.67
11,452 State	STATE	6,447.43
11,454 State	STATE	6,437.28
11,455 State	STATE	6,439.64
11,466 State	STATE	6,440.23
11,467 State	STATE	6,436.16
11,470 State	STATE	6,432.18
11,481 State	STATE	6,443.50
11,482 State	STATE	6,441.21
11,483 State	STATE	6,433.89
11,502 State	STATE	6,428.98
11,513 State	STATE	2,597.95
11,515 State	STATE	6,436.95
11,516 State	STATE	6,647.79
11,530 State	STATE	1,612.75
11,536 State	STATE	6,441.88
11,537 State	STATE	6,438.98
11,545 State	STATE	1,605.63
11,550 State	STATE	6,426.77
11,552 State	STATE	4,854.52
11,553 State	STATE	2,427.16
11,566 State	STATE	6,444.44
11,569 State	STATE	6,433.05
11,571 State	STATE	8,889.97
11,584 State	STATE	6,439.22
11,585 State	STATE	6,430.50
11,586 State	STATE	5,922.01
11,600 State	STATE	6,431.57
11,607 State	STATE	6,265.40
11,615 State	STATE	7,285.43
11,623 State	STATE	6,432.80
11,629 State	STATE	6,424.96
11,640 State	STATE	6,467.30
11,651 State	STATE	1,620.47
11,656 State	STATE	1,630.24
11,657 State	STATE	4,716.82
11,662 State	STATE	6,453.22
11,670 State	STATE	6,438.35

11,677 State	STATE	17.76380241
11,679 State	STATE	2,420.92
11,689 State	STATE	3,458.38
11,691 State	STATE	6,714.72
11,702 State	STATE	1,895.54
11,706 State	STATE	1,469.83
11,722 State	STATE	6,435.34
11,753 State	STATE	11,222.21
11,771 State	STATE	3,394.44
11,779 State	STATE	1,528.74
11,797 State	STATE	3,229.41
11,800 State	STATE	6,433.75
11,806 State	STATE	7,240.05
11,807 State	STATE	32,785.69
11,811 State	STATE	1,608.13
11,815 State	STATE	6,307.89
11,821 State	STATE	7,098.52
11,823 State	STATE	6,444.96
11,827 State	STATE	4,843.27
11,837 State	STATE	9,635.82
11,839 State	STATE	6,457.82
11,842 State	STATE	500.8285024
11,852 State	STATE	7,246.97
11,854 State	STATE	6,449.76
11,862 State	STATE	6,444.31
11,866 State	STATE	6,467.87
11,875 State	STATE	6,451.28
11,878 State	STATE	6,523.24
11,897 State	STATE	6,442.52
11,911 State	STATE	6,435.51
11,938 State	STATE	6,440.25
11,940 State	STATE	6,420.84
11,975 State	STATE	6,457.99
11,989 State	STATE	6,424.34
12,033 State	STATE	6,420.80
12,037 State	STATE	3,041.72
12,088 State	STATE	4,834.21
12,093 State	STATE	4,071.08
12,108 State	STATE	3,216.66
12,131 State	STATE	22,960.68
12,148 State	STATE	6,439.75
12,215 State	STATE	14,533.43
12,300 State	STATE	1,623.14
12,322 State	STATE	6,498.53
12,337 State	STATE	44,281.31
12,360 State	STATE	6,432.09
12,391 State	STATE	6,262.17

12,440 State	STATE	1,121.45
1,161 BLM	BLM	394.559484
1,190 BLM	BLM	19,360.80
1,191 BLM	BLM	2,447.12
1,273 BLM	BLM	2,409.66
1,427 BLM	BLM	4,841.77
1,433 BLM	BLM	1,610.36
1,447 BLM	BLM	3,243.26
1,458 BLM	BLM	2,414.91
1,460 BLM	BLM	1,611.96
1,462 BLM	BLM	1,608.14
1,464 BLM	BLM	1,608.38
1,511 BLM	BLM	7,286.80
1,586 BLM	BLM	3,221.21
1,661 BLM	BLM	1,620.49
1,675 BLM	BLM	163.6458608
1,938 BLM	BLM	2,417.83
1,941 BLM	BLM	1,154.10
1,967 BLM	BLM	8,852.18
1,973 BLM	BLM	2,416.37
2,001 BLM	BLM	1,609.16
2,003 BLM	BLM	1,608.34
2,025 BLM	BLM	2,434.26
2,039 BLM	BLM	5,634.26
2,055 BLM	BLM	1,609.06
2,075 BLM	BLM	3,219.84
2,135 BLM	BLM	1,609.59
2,141 BLM	BLM	1,609.55
2,223 BLM	BLM	4,018.22
2,409 BLM	BLM	1,524.51
2,721 BLM	BLM	1,574,456.89
4,786 Other Federal	BOR	1,595.04
4,793 Other Federal	BOR	2,392.85
4,796 Other Federal	BOR	1,601.88
4,797 Other Federal	BOR	3,933.89
4,799 Other Federal	BOR	2,421.83
4,800 Other Federal	BOR	1,570.37
4,802 Other Federal	BOR	1,023.00
4,803 Other Federal	BOR	1,523.72
4,832 Other Federal	BOR	1,605.55
4,835 Other Federal	BOR	2,043.50
4,837 Other Federal	BOR	2,730.32
5,512 Other Federal	MIL	568.8843546
5,514 Other Federal	MIL	254.3910997
6,410 Private	PRIVATE	1,721.92
6,564 Private	PRIVATE	63.9186862
6,621 Private	PRIVATE	2,429.72

6,870 Private	PRIVATE	7,640.27
6,884 Private	PRIVATE	34,247.46
6,888 Private	PRIVATE	15,131.24
6,900 Private	PRIVATE	14,434.12
6,902 Private	PRIVATE	3,225.65
6,922 Private	PRIVATE	4,066.76
6,930 Private	PRIVATE	6,445.49
6,931 Private	PRIVATE	5,061.40
6,946 Private	PRIVATE	8,074.31
6,960 Private	PRIVATE	1,609.10
6,966 Private	PRIVATE	2,292.93
6,975 Private	PRIVATE	3,216.53
6,993 Private	PRIVATE	3,919.78
7,006 Private	PRIVATE	6,438.38
7,007 Private	PRIVATE	53,485.17
7,024 Private	PRIVATE	1,688.93
7,026 Private	PRIVATE	268.9577788
7,032 Private	PRIVATE	9,678.45
7,037 Private	PRIVATE	7,257.01
7,045 Private	PRIVATE	1,654.78
7,052 Private	PRIVATE	3,465.35
7,061 Private	PRIVATE	1,072.87
7,068 Private	PRIVATE	66,339.24
7,108 Private	PRIVATE	3,715.63
7,112 Private	PRIVATE	1,376.26
7,125 Private	PRIVATE	42.23291734
7,174 Private	PRIVATE	5,544.75
7,184 Private	PRIVATE	99,889.55
7,204 Private	PRIVATE	1,282.58
7,209 Private	PRIVATE	989.8681423
7,215 Private	PRIVATE	6,098.43
7,218 Private	PRIVATE	5,917.88
7,222 Private	PRIVATE	2,500.81
7,231 Private	PRIVATE	13,824.53
7,257 Private	PRIVATE	1,259.88
7,261 Private	PRIVATE	8,022.73
7,270 Private	PRIVATE	4,040.24
7,280 Private	PRIVATE	2,342.17
7,282 Private	PRIVATE	3,128.16
7,284 Private	PRIVATE	80,680.14
7,285 Private	PRIVATE	6,443.24
7,286 Private	PRIVATE	4,020.29
7,287 Private	PRIVATE	12,618.08
7,290 Private	PRIVATE	7,065.09
7,306 Private	PRIVATE	14,063.03
7,311 Private	PRIVATE	2,410.16
7,335 Private	PRIVATE	10,300.07



7,343 Private	PRIVATE	2,407.27
7,347 Private	PRIVATE	6,434.34
7,373 Private	PRIVATE	1,615.94
7,398 Private	PRIVATE	12,873.83
7,405 Private	PRIVATE	32,172.08
7,423 Private	PRIVATE	4,016.48
7,426 Private	PRIVATE	3,943.74
7,427 Private	PRIVATE	21,146.19
7,429 Private	PRIVATE	4,836.18
7,437 Private	PRIVATE	3,254.57
7,444 Private	PRIVATE	3,221.22
7,450 Private	PRIVATE	8,826.36
7,506 Private	PRIVATE	9,215.27
7,517 Private	PRIVATE	3,223.04
7,523 Private	PRIVATE	46,260.35
7,540 Private	PRIVATE	5,848.18
7,546 Private	PRIVATE	4,840.67
7,752 Private	PRIVATE	1,611.85
7,763 Private	PRIVATE	110,783.09
7,766 Private	PRIVATE	6,434.73
7,772 Private	PRIVATE	8,030.56
7,779 Private	PRIVATE	14,596.52
7,780 Private	PRIVATE	6,310.45
7,781 Private	PRIVATE	1,611.81
7,782 Private	PRIVATE	1,609.63
7,791 Private	PRIVATE	8,885.57
7,794 Private	PRIVATE	17,972.88
7,803 Private	PRIVATE	4,007.78
7,804 Private	PRIVATE	3,959.59
7,805 Private	PRIVATE	9,564.06
7,814 Private	PRIVATE	7,434.86
7,826 Private	PRIVATE	6,319.07
7,828 Private	PRIVATE	1,606.77
7,838 Private	PRIVATE	1,607.83
7,839 Private	PRIVATE	1,607.61
7,854 Private	PRIVATE	4,786.94
7,856 Private	PRIVATE	1,608.24
7,857 Private	PRIVATE	2,081.94
7,865 Private	PRIVATE	11,246.06
7,868 Private	PRIVATE	3,215.98
7,875 Private	PRIVATE	2,409.62
7,893 Private	PRIVATE	2,006.81
7,949 Private	PRIVATE	4,834.87
8,118 Private	PRIVATE	92,026.87
11,278 State	STATE	6,445.62
11,305 State	STATE	6,380.45
11,316 State	STATE	1,712.91

11,338 State	STATE	6,440.75
11,375 State	STATE	3,032.85
11,385 State	STATE	3,416.31
11,394 State	STATE	1,218.29
11,406 State	STATE	3,195.15
11,436 State	STATE	6,435.70
11,513 State	STATE	6,318.52
11,671 State	STATE	1,613.28
11,676 State	STATE	1,614.31
11,677 State	STATE	6,237.73
11,678 State	STATE	1,614.34
11,689 State	STATE	6,201.99
11,691 State	STATE	3,606.68
11,699 State	STATE	6,425.22
11,700 State	STATE	2,431.53
11,702 State	STATE	9,098.14
11,705 State	STATE	4,844.70
11,706 State	STATE	1,867.09
11,708 State	STATE	6,424.92
11,709 State	STATE	1,606.54
11,720 State	STATE	6,394.16
11,721 State	STATE	6,435.16
11,731 State	STATE	6,435.35
11,743 State	STATE	6,450.00
11,748 State	STATE	6,207.12
11,762 State	STATE	6,436.20
11,772 State	STATE	6,430.49
11,793 State	STATE	6,404.02
11,813 State	STATE	6,444.13
11,824 State	STATE	5,448.60
11,826 State	STATE	6,448.54
11,839 State	STATE	1,618.76
11,842 State	STATE	28,474.85
11,851 State	STATE	6,439.37
11,864 State	STATE	6,474.42
11,895 State	STATE	6,358.68
11,966 State	STATE	4,396.16
12,024 State	STATE	6,524.64
12,057 State	STATE	6,446.60
12,061 State	STATE	1,936.45
12,093 State	STATE	7,232.13
12,136 State	STATE	6,434.89
12,160 State	STATE	4,828.93
12,166 State	STATE	6,203.45
12,187 State	STATE	4,834.02
12,204 State	STATE	1,609.98
12,245 State	STATE	6,444.40

12,257 State	STATE	2,409.06
12,281 State	STATE	6,447.26
12,308 State	STATE	6,429.34
12,328 State	STATE	4,027.71
12,337 State	STATE	62,114.63
12,352 State	STATE	6,441.94
12,362 State	STATE	423.9611501
12,387 State	STATE	6,433.73
12,421 State	STATE	6,433.88
12,433 State	STATE	6,428.92
12,440 State	STATE	6,397.90
12,455 State	STATE	6,432.45
12,483 State	STATE	6,241.44
12,486 State	STATE	6,426.70
12,506 State	STATE	6,426.69
12,527 State	STATE	6,434.73
12,547 State	STATE	6,417.50
12,570 State	STATE	6,431.05
12,610 State	STATE	6,427.47
12,626 State	STATE	6,439.49
12,648 State	STATE	6,435.60
12,727 State	STATE	2,800.49
12,764 State	STATE	6,427.08
12,823 State	STATE	18,432.22
12,835 State	STATE	4,420.11
1,057 BLM	BLM	10,411.19
1,072 BLM	BLM	2,409.11
1,073 BLM	BLM	4,022.34
1,081 BLM	BLM	3,218.03
1,087 BLM	BLM	7,236.21
1,089 BLM	BLM	4,014.03
1,124 BLM	BLM	3,218.61
1,140 BLM	BLM	11,109.70
1,152 BLM	BLM	1,612.25
1,164 BLM	BLM	3,015.35
1,165 BLM	BLM	4,025.74
1,172 BLM	BLM	2,404.17
1,175 BLM	BLM	2,412.61
1,186 BLM	BLM	2,418.38
1,203 BLM	BLM	4,989.02
1,210 BLM	BLM	2,422.04
1,230 BLM	BLM	3,708.22
1,232 BLM	BLM	9,716.11
1,234 BLM	BLM	4,697.08
1,314 BLM	BLM	1,422.37
1,321 BLM	BLM	3,283.51
1,351 BLM	BLM	4,516.52

1,352 BLM	BLM	416.2896023
1,354 BLM	BLM	92.77517092
1,361 BLM	BLM	20,599.71
1,363 BLM	BLM	3,412.15
1,367 BLM	BLM	2,667.08
1,586 BLM	BLM	1,615.95
1,742 BLM	BLM	26.23392207
1,747 BLM	BLM	22.57979879
1,748 BLM	BLM	113.5832942
1,752 BLM	BLM	75.18719046
1,753 BLM	BLM	113.986851
1,754 BLM	BLM	78.21440388
1,755 BLM	BLM	228.6784668
1,757 BLM	BLM	169.2216762
1,763 BLM	BLM	457.1485168
2,721 BLM	BLM	1,024,034.02
5,518 Other Federal	MIL	6,431.50
5,519 Other Federal	MIL	254.3933144
6,540 Private	PRIVATE	5,587.99
6,682 Private	PRIVATE	6,708.11
6,718 Private	PRIVATE	8,773.56
6,726 Private	PRIVATE	6,433.12
6,773 Private	PRIVATE	4,818.22
6,778 Private	PRIVATE	14,545.44
6,798 Private	PRIVATE	5,666.12
6,800 Private	PRIVATE	8,812.26
6,802 Private	PRIVATE	1,612.00
6,803 Private	PRIVATE	38,684.37
6,809 Private	PRIVATE	20,667.02
6,815 Private	PRIVATE	8,842.47
6,823 Private	PRIVATE	17,624.62
6,828 Private	PRIVATE	16,897.15
6,832 Private	PRIVATE	18,979.54
6,834 Private	PRIVATE	4,021.90
6,860 Private	PRIVATE	9,796.50
6,864 Private	PRIVATE	2,248.54
6,866 Private	PRIVATE	8,685.01
6,876 Private	PRIVATE	8,656.63
6,894 Private	PRIVATE	17,742.01
6,895 Private	PRIVATE	2,357.06
6,900 Private	PRIVATE	66,044.34
6,913 Private	PRIVATE	78,805.77
6,923 Private	PRIVATE	7,489.77
6,937 Private	PRIVATE	2,409.17
6,942 Private	PRIVATE	1,392.93
6,944 Private	PRIVATE	26,689.73
6,973 Private	PRIVATE	6,230.70

6,980 Private	PRIVATE	8,733.97
6,991 Private	PRIVATE	3,217.78
7,006 Private	PRIVATE	3,250.95
7,007 Private	PRIVATE	6,422.79
7,014 Private	PRIVATE	1,920.90
7,024 Private	PRIVATE	17,269.89
7,082 Private	PRIVATE	46,599.36
7,108 Private	PRIVATE	1,663.57
7,112 Private	PRIVATE	6,803.15
7,117 Private	PRIVATE	172.4072534
7,184 Private	PRIVATE	36,374.83
7,195 Private	PRIVATE	1,480.51
7,218 Private	PRIVATE	409.7426823
7,257 Private	PRIVATE	39.02460258
7,261 Private	PRIVATE	867.4795451
7,269 Private	PRIVATE	14,453.01
7,271 Private	PRIVATE	22,613.90
7,272 Private	PRIVATE	1,404.13
7,274 Private	PRIVATE	103.4487946
7,306 Private	PRIVATE	3,720.61
7,427 Private	PRIVATE	15,662.68
7,461 Private	PRIVATE	8,668.05
11,316 State	STATE	2,314.94
11,357 State	STATE	6,433.65
11,366 State	STATE	6,447.07
11,388 State	STATE	6,440.96
11,411 State	STATE	6,440.23
11,434 State	STATE	7,791.08
11,449 State	STATE	6,440.49
11,465 State	STATE	6,396.74
11,470 State	STATE	2,536.77
11,478 State	STATE	6,440.77
11,499 State	STATE	3,481.66
11,518 State	STATE	6,437.76
11,534 State	STATE	6,430.26
11,572 State	STATE	6,426.86
11,586 State	STATE	3,824.10
11,613 State	STATE	11,234.64
11,617 State	STATE	6,429.85
11,622 State	STATE	8,025.58
11,629 State	STATE	2,663.21
11,646 State	STATE	6,919.26
11,677 State	STATE	6,435.41
11,706 State	STATE	5,950.73
11,748 State	STATE	1,351.77
11,770 State	STATE	6,457.94
11,771 State	STATE	4,060.71

11,779 State	STATE	11,195.11
11,807 State	STATE	150,288.10
11,815 State	STATE	5,479.49
11,824 State	STATE	6,888.95
11,842 State	STATE	1,326.39
11,878 State	STATE	1,991.76
11,923 State	STATE	2,171.15
11,957 State	STATE	630.1293583
11,966 State	STATE	1,648.95
11,993 State	STATE	138.6832997
12,037 State	STATE	3,238.68
12,166 State	STATE	1,223.27
1 BLM	BLM	8,082.43
2 BLM	BLM	1,606.34
3 BLM	BLM	2,426.22
4 BLM	BLM	1,606.55
5 BLM	BLM	1,604.28
6 BLM	BLM	1,634.80
7 BLM	BLM	2,393.11
8 BLM	BLM	1,604.56
9 BLM	BLM	1,608.89
15 BLM	BLM	1,605.84
16 BLM	BLM	7,259.50
18 BLM	BLM	108,152.81
23 BLM	BLM	10,250.83
28 Private	PRIVATE	1,777.36
29 BLM	BLM	64,450.99
33 BLM	BLM	46,223.47
34 BLM	BLM	3,195.82
41 BLM	BLM	5,433.33
46 BLM	BLM	2,391.02
49 BLM	BLM	12,571.43
50 BLM	BLM	7,974.10
52 BLM	BLM	1,607.14
69 USFS	USFS	2,608.81
75 USFS	USFS	3,203.40
77 USFS	USFS	8,013.09
87 USFS	USFS	2,850.39
90 USFS	USFS	4,847.95
212 BLM	BLM	1,612.01
222 BLM	BLM	1,612.09
231 BLM	BLM	1,611.40
258 BLM	BLM	5,633.86
259 BLM	BLM	2,488.32
269 BLM	BLM	2,419.57
273 BLM	BLM	4,930.32
276 BLM	BLM	2,423.80

278 BLM	BLM	2,422.45
281 BLM	BLM	1,610.35
282 BLM	BLM	14,839.56
283 BLM	BLM	1,605.61
287 BLM	BLM	1,704.01
289 BLM	BLM	9,673.19
290 BLM	BLM	1,610.53
292 BLM	BLM	1,609.78
295 BLM	BLM	11,231.19
297 BLM	BLM	3,225.19
298 BLM	BLM	507.8345913
299 BLM	BLM	4,846.77
303 BLM	BLM	4,035.47
310 BLM	BLM	1,608.10
311 BLM	BLM	2,422.94
312 BLM	BLM	2,407.88
315 BLM	BLM	5,638.49
316 BLM	BLM	85.28257124
317 BLM	BLM	137.5910105
318 BLM	BLM	194.2867814
320 BLM	BLM	218.079748
321 BLM	BLM	5,658.03
322 BLM	BLM	71.90703705
324 BLM	BLM	2,420.00
332 BLM	BLM	330.5787603
333 BLM	BLM	435.7239965
339 BLM	BLM	1,613.41
341 BLM	BLM	2,425.76
351 BLM	BLM	2,423.34
352 BLM	BLM	9,676.99
354 BLM	BLM	828.0774676
361 BLM	BLM	1,609.70
362 BLM	BLM	4,820.84
364 BLM	BLM	1,607.88
365 BLM	BLM	36,469.67
371 BLM	BLM	1,616.42
378 BLM	BLM	12,888.47
379 BLM	BLM	1,610.96
380 BLM	BLM	5,672.66
389 BLM	BLM	3,219.33
405 BLM	BLM	28,243.93
423 BLM	BLM	1,607.68
424 BLM	BLM	5,659.69
426 BLM	BLM	7,979.69
431 BLM	BLM	298.9499039
438 BLM	BLM	670.9712938
450 BLM	BLM	2,417.53

453 BLM	BLM	1,608.51
457 BLM	BLM	7,278.82
463 BLM	BLM	1,608.97
553 BLM	BLM	29,308.22
562 BLM	BLM	21,681.63
2,721 BLM	BLM	1,304,634.79
5,564 Other Federal	NWR	1,192.29
5,565 Other Federal	NWR	8,657.22
5,742 Private	PRIVATE	1,607.34
5,743 Private	PRIVATE	1,031.05
5,744 Private	PRIVATE	1,790.19
5,746 Private	PRIVATE	11,342.63
5,747 Private	PRIVATE	1,895.14
5,748 Private	PRIVATE	3,214.32
5,751 Private	PRIVATE	3,235.49
5,753 Private	PRIVATE	10,516.40
5,754 Private	PRIVATE	2,662.32
5,755 Private	PRIVATE	24.42185683
5,756 Private	PRIVATE	7,951.72
5,757 Private	PRIVATE	2,808.63
5,758 Private	PRIVATE	11,841.63
5,759 Private	PRIVATE	1,957.77
5,760 Private	PRIVATE	3,211.70
5,761 Private	PRIVATE	3,271.73
5,762 Private	PRIVATE	6,424.21
5,763 Private	PRIVATE	3,221.48
5,764 Private	PRIVATE	5,485.72
5,765 Private	PRIVATE	12,393.35
5,767 Private	PRIVATE	6,432.05
5,769 Private	PRIVATE	3,260.56
5,770 Private	PRIVATE	41.80649887
5,771 Private	PRIVATE	6,422.59
5,772 Private	PRIVATE	576.8584488
5,773 Private	PRIVATE	4,779.49
5,774 Private	PRIVATE	136.4659438
5,777 Private	PRIVATE	6,386.97
5,778 Private	PRIVATE	1,604.91
5,779 Private	PRIVATE	67,133.67
5,780 Private	PRIVATE	4,847.04
5,781 Private	PRIVATE	5,083.34
5,782 Private	PRIVATE	6,241.39
5,783 USFS	USFS	2,873.65
5,784 Private	PRIVATE	8,099.35
5,785 Private	PRIVATE	6,469.92
5,786 Private	PRIVATE	7,375.18
5,787 Private	PRIVATE	4,847.71
5,788 Private	PRIVATE	993.6245788



5,789 Private	PRIVATE	977.3856652
5,792 Private	PRIVATE	5,119.24
5,796 Private	PRIVATE	10,299.52
5,840 Private	PRIVATE	3,225.34
5,843 Private	PRIVATE	1,612.01
5,845 Private	PRIVATE	1,612.98
5,850 Private	PRIVATE	1,611.39
5,851 Private	PRIVATE	1,612.02
5,853 Private	PRIVATE	1,611.65
5,854 Private	PRIVATE	13,675.36
5,855 Private	PRIVATE	3,219.81
5,856 Private	PRIVATE	2,411.40
5,859 Private	PRIVATE	3,215.75
5,860 Private	PRIVATE	6,445.85
5,865 Private	PRIVATE	83.8885124
5,866 Private	PRIVATE	1,612.56
5,867 Private	PRIVATE	2,421.25
5,868 Private	PRIVATE	2,411.66
5,869 Private	PRIVATE	1,611.12
5,870 Private	PRIVATE	2,422.24
5,874 Private	PRIVATE	1,612.77
5,875 Private	PRIVATE	1,607.27
5,876 Private	PRIVATE	9,674.92
5,878 Private	PRIVATE	1,616.97
5,879 Private	PRIVATE	2,418.85
5,880 Private	PRIVATE	1,616.72
5,882 Private	PRIVATE	1,608.61
5,887 Private	PRIVATE	5,665.68
5,888 Private	PRIVATE	10,877.80
5,891 Private	PRIVATE	14,477.93
5,893 Private	PRIVATE	455.8814318
5,894 Private	PRIVATE	1,123.19
5,896 Private	PRIVATE	3,562.32
5,897 Private	PRIVATE	4,040.88
5,898 Private	PRIVATE	4,067.81
5,899 Private	PRIVATE	598.1326925
5,900 Private	PRIVATE	1,618.86
5,901 Private	PRIVATE	690.4871282
5,903 Private	PRIVATE	1,614.48
5,907 Private	PRIVATE	10,506.42
5,908 Private	PRIVATE	1,312.50
5,909 Private	PRIVATE	3,221.30
5,910 Private	PRIVATE	2,413.59
5,911 Private	PRIVATE	1,614.31
5,912 Private	PRIVATE	41,821.69
5,913 Private	PRIVATE	3,078.54
5,914 Private	PRIVATE	9,681.06

5,916 Private	PRIVATE	8,040.73
5,917 Private	PRIVATE	2,411.17
5,921 Private	PRIVATE	4,840.46
5,923 Private	PRIVATE	1,587.75
5,924 Private	PRIVATE	1,597.97
5,925 Private	PRIVATE	6,652.06
5,926 Private	PRIVATE	29,340.98
5,928 Private	PRIVATE	92.90217526
5,929 Private	PRIVATE	6,439.12
5,930 Private	PRIVATE	8,069.73
5,931 Private	PRIVATE	963.227308
5,933 Private	PRIVATE	3,707.46
5,934 Private	PRIVATE	4,844.21
5,935 Private	PRIVATE	3,227.98
5,936 Private	PRIVATE	1,118.09
5,940 Private	PRIVATE	4,827.85
5,941 Private	PRIVATE	8,857.52
5,946 Private	PRIVATE	12,383.72
5,948 Private	PRIVATE	1,608.04
5,951 Private	PRIVATE	10,954.88
5,954 Private	PRIVATE	46,599.47
5,956 Private	PRIVATE	8,082.13
5,957 Private	PRIVATE	4,019.59
5,958 Private	PRIVATE	4,026.81
5,961 Private	PRIVATE	5,715.46
5,963 Private	PRIVATE	1,608.92
5,967 Private	PRIVATE	4,031.78
5,968 Private	PRIVATE	5,673.64
5,970 Private	PRIVATE	2,418.85
5,971 Private	PRIVATE	5,657.21
5,974 Private	PRIVATE	1,613.50
5,975 Private	PRIVATE	4,031.31
5,980 Private	PRIVATE	14,546.49
5,983 Private	PRIVATE	4,036.11
5,985 Private	PRIVATE	185,743.53
5,986 Private	PRIVATE	1,485.36
5,987 Private	PRIVATE	1,607.06
5,988 Private	PRIVATE	3,234.85
5,990 Private	PRIVATE	12,877.79
5,992 Private	PRIVATE	22,593.15
5,993 Private	PRIVATE	1,715.82
5,994 Private	PRIVATE	12,847.17
5,995 Private	PRIVATE	4,034.30
5,996 Private	PRIVATE	6,073.29
5,998 Private	PRIVATE	4,027.88
5,999 Private	PRIVATE	4,851.39
6,000 Private	PRIVATE	1,611.97

6,001 Private	PRIVATE	2,655.52
6,002 Private	PRIVATE	30,850.41
6,005 Private	PRIVATE	7,541.46
6,008 Private	PRIVATE	1,615.36
6,009 Private	PRIVATE	602.6945019
6,011 Private	PRIVATE	8,030.61
6,014 Private	PRIVATE	1,610.80
6,015 Private	PRIVATE	1,612.42
6,017 Private	PRIVATE	22,053.26
6,018 Private	PRIVATE	4,981.71
6,019 Private	PRIVATE	7,251.63
6,020 Private	PRIVATE	5,137.25
6,021 Private	PRIVATE	6,427.13
6,023 Private	PRIVATE	19,320.26
6,024 Private	PRIVATE	7,245.21
6,027 Private	PRIVATE	1,611.34
6,028 Private	PRIVATE	8,055.79
6,029 Private	PRIVATE	5,726.18
6,032 Private	PRIVATE	6,447.19
6,038 Private	PRIVATE	2,420.98
6,042 Private	PRIVATE	2,430.62
6,047 Private	PRIVATE	12,084.34
6,060 Private	PRIVATE	4,034.72
6,061 Private	PRIVATE	13,752.69
6,062 Private	PRIVATE	3,175.74
6,070 Private	PRIVATE	8,360.16
6,098 Private	PRIVATE	5,644.23
6,211 Private	PRIVATE	487.5617844
6,212 Private	PRIVATE	3,694.25
6,218 Private	PRIVATE	1,375.44
6,693 Private	PRIVATE	271,471.25
6,921 Private	PRIVATE	393,860.57
10,801 State	STATE	6,426.14
10,802 State	STATE	8,283.85
10,805 State	STATE	6,424.48
10,806 State	STATE	6,432.37
10,813 State	STATE	6,351.39
10,823 State	STATE	6,388.57
10,902 State	STATE	3,962.15
10,910 State	STATE	4,008.26
10,917 State	STATE	3,657.00
10,918 State	STATE	6,447.41
10,926 State	STATE	6,452.60
10,934 State	STATE	6,439.23
10,940 State	STATE	6,439.56
10,941 State	STATE	6,420.87
10,942 State	STATE	3,457.64

10,948 State	STATE	1,889.81
10,949 State	STATE	6,437.69
10,950 State	STATE	6,432.63
10,951 State	STATE	3,809.12
10,958 State	STATE	1,608.93
10,960 State	STATE	6,435.94
10,961 State	STATE	3,854.96
10,962 State	STATE	1,612.58
10,968 State	STATE	8,058.18
10,971 State	STATE	2,419.54
10,973 State	STATE	4,847.99
10,974 State	STATE	3,232.23
10,975 State	STATE	6,446.42
10,976 State	STATE	6,437.52
10,977 State	STATE	3,806.21
10,979 State	STATE	6,450.27
10,980 State	STATE	6,438.45
10,981 State	STATE	5,630.20
10,983 State	STATE	3,689.22
10,985 State	STATE	6,447.46
10,986 State	STATE	6,427.88
10,987 State	STATE	6,423.91
10,988 State	STATE	3,650.30
10,993 State	STATE	4,814.18
10,994 State	STATE	4,837.68
10,995 State	STATE	6,418.39
10,996 State	STATE	6,448.11
10,998 State	STATE	9,664.07
11,001 State	STATE	1,908.48
11,002 State	STATE	6,432.65
11,003 State	STATE	8,031.86
11,004 State	STATE	6,435.02
11,008 State	STATE	6,449.15
11,009 State	STATE	6,426.52
11,010 State	STATE	5,944.88
11,011 State	STATE	6,443.65
11,017 State	STATE	6,454.55
11,020 State	STATE	6,432.25
11,023 State	STATE	6,435.73
11,036 State	STATE	6,435.79
11,037 State	STATE	6,434.70
11,038 State	STATE	6,447.12
11,043 State	STATE	6,437.69
11,045 State	STATE	6,437.83
11,046 State	STATE	6,442.82
11,055 State	STATE	6,426.17
11,056 State	STATE	6,442.15

11,057 State	STATE	6,436.62
11,066 State	STATE	6,388.56
11,070 State	STATE	6,448.16
11,081 State	STATE	6,439.76
11,083 State	STATE	6,435.25
11,084 State	STATE	394.3684057
11,094 State	STATE	6,436.22
11,101 State	STATE	6,446.73
11,114 State	STATE	6,436.54
11,118 State	STATE	6,438.42
11,129 State	STATE	6,441.05
11,133 State	STATE	6,443.17
11,143 State	STATE	6,466.70
11,159 State	STATE	2,135.78
11,162 State	STATE	6,179.81
11,185 State	STATE	4,543.94
11,230 State	STATE	6,435.29
14,918 USFS	USFS	4,012.90
14,919 USFS	USFS	3,132.89
14,920 USFS	USFS	6,445.67
14,921 USFS	USFS	5,524.22
14,927 USFS	USFS	45,766.13
14,945 USFS	USFS	147,811.29
14,972 USFS	USFS	1,609.62
14,994 USFS	USFS	190,970.37
11 BLM	BLM	2,421.35
13 BLM	BLM	18,974.03
20 BLM	BLM	3,634.45
39 BLM	BLM	4,042.73
43 BLM	BLM	2,420.34
48 BLM	BLM	1,594.87
53 BLM	BLM	3,176.91
55 BLM	BLM	4,056.59
56 BLM	BLM	2,825.60
57 BLM	BLM	2,404.39
59 BLM	BLM	3,505.95
61 BLM	BLM	21,268.97
62 BLM	BLM	5,086.61
64 BLM	BLM	8,790.80
65 BLM	BLM	1,038.94
66 BLM	BLM	4,807.11
67 BLM	BLM	4,824.32
68 BLM	BLM	6,422.61
72 BLM	BLM	2,413.21
73 BLM	BLM	1,359.41
74 BLM	BLM	2,409.13
76 BLM	BLM	4,895.79

78 BLM	BLM	4,888.04
79 BLM	BLM	6,463.28
80 BLM	BLM	6,910.74
81 BLM	BLM	1,620.09
84 BLM	BLM	5,637.61
88 BLM	BLM	4,846.70
91 BLM	BLM	1,025.25
92 BLM	BLM	1,611.91
95 BLM	BLM	8,379.35
96 BLM	BLM	1,464.04
97 BLM	BLM	4,024.70
98 BLM	BLM	2,405.62
101 BLM	BLM	7,206.05
103 BLM	BLM	1,607.12
104 BLM	BLM	71,148.03
110 BLM	BLM	23,703.46
111 BLM	BLM	1,606.92
112 BLM	BLM	6,138.77
114 BLM	BLM	8,807.66
116 BLM	BLM	2,418.65
118 BLM	BLM	59,453.13
121 BLM	BLM	12,840.90
122 BLM	BLM	3,795.52
123 BLM	BLM	4,825.58
134 BLM	BLM	6,431.81
138 BLM	BLM	1,608.49
139 BLM	BLM	6,437.17
142 BLM	BLM	9,338.51
144 BLM	BLM	10,402.34
147 BLM	BLM	1,614.54
153 BLM	BLM	22,221.93
154 BLM	BLM	9,648.22
160 BLM	BLM	7,999.66
161 BLM	BLM	6,007.09
162 BLM	BLM	7,173.36
169 BLM	BLM	1,609.26
170 BLM	BLM	2,598.70
173 BLM	BLM	2,408.56
174 BLM	BLM	1,612.06
175 BLM	BLM	2,067.57
181 BLM	BLM	1,627.22
183 BLM	BLM	1,551.46
185 BLM	BLM	794.3730009
188 BLM	BLM	1,453.47
190 BLM	BLM	3,495.43
192 BLM	BLM	8,528.65
193 BLM	BLM	703.8528076

199 BLM	BLM	1,606.56
200 BLM	BLM	1,978.57
207 BLM	BLM	4,822.70
209 BLM	BLM	1,606.70
211 BLM	BLM	7,262.15
213 BLM	BLM	1,608.74
223 BLM	BLM	2,520.33
225 BLM	BLM	1,606.91
227 BLM	BLM	1,613.69
234 BLM	BLM	1,610.51
235 BLM	BLM	2,514.14
237 BLM	BLM	2,426.73
238 BLM	BLM	2,430.36
249 BLM	BLM	910.067165
251 BLM	BLM	5,493.76
253 BLM	BLM	6,997.36
266 BLM	BLM	3,208.87
274 BLM	BLM	2,385.03
285 BLM	BLM	10,430.11
286 BLM	BLM	1,610.41
294 BLM	BLM	4,075.19
300 BLM	BLM	1,610.44
301 BLM	BLM	6,002.31
302 BLM	BLM	3,215.76
304 BLM	BLM	2,408.49
305 BLM	BLM	5,620.14
306 BLM	BLM	3,715.22
307 BLM	BLM	3,218.65
308 BLM	BLM	1,610.64
309 BLM	BLM	3,228.54
323 BLM	BLM	299,090.75
325 BLM	BLM	258,806.58
331 BLM	BLM	4,797.30
337 BLM	BLM	20,867.57
342 BLM	BLM	330.3103703
350 BLM	BLM	15,352.09
357 BLM	BLM	2,199.22
359 BLM	BLM	45,537.25
394 BLM	BLM	23,834.23
396 BLM	BLM	20,505.91
413 BLM	BLM	10,365.57
414 BLM	BLM	4,422.08
440 BLM	BLM	35,615.48
491 BLM	BLM	1,603.77
526 BLM	BLM	73,091.80
562 BLM	BLM	418,064.54
582 BLM	BLM	77,867.49

595 BLM	BLM	60,743.57
658 BLM	BLM	3,234.79
2,721 BLM	BLM	655,273.61
5,434 BLM	LU_DOI	4,024.52
5,435 BLM	LU_DOI	3,230.07
5,437 BLM	LU_DOI	5,221.91
5,438 BLM	LU_DOI	11,145.11
5,439 BLM	LU_DOI	2,984.53
5,440 BLM	LU_DOI	5,631.19
5,441 BLM	LU_DOI	1,210.26
5,443 BLM	LU_DOI	7,253.21
5,444 BLM	LU_DOI	1,608.13
5,445 BLM	LU_DOI	4,536.74
5,447 BLM	LU_DOI	17,098.56
5,448 BLM	LU_DOI	5,643.68
5,449 BLM	LU_DOI	1,587.15
5,450 BLM	LU_DOI	12,808.68
5,451 BLM	LU_DOI	5,220.25
5,454 BLM	LU_DOI	54,962.62
5,455 BLM	LU_DOI	179,413.76
5,456 BLM	LU_DOI	8,447.55
5,457 BLM	LU_DOI	4,829.76
5,458 BLM	LU_DOI	25,534.63
5,459 BLM	LU_DOI	5,528.02
5,460 BLM	LU_DOI	1,985.48
5,461 BLM	LU_DOI	7,165.64
5,462 BLM	LU_DOI	191.0926992
5,463 BLM	LU_DOI	22,998.17
5,464 BLM	LU_DOI	2,402.87
5,465 BLM	LU_DOI	4,767.45
5,466 BLM	LU_DOI	2,867.25
5,467 BLM	LU_DOI	2,418.28
5,468 BLM	LU_DOI	3,719.24
5,469 BLM	LU_DOI	20,461.66
5,470 BLM	LU_DOI	3,220.59
5,471 BLM	LU_DOI	4,768.77
5,472 BLM	LU_DOI	9,147.12
5,473 BLM	LU_DOI	4,817.80
5,474 BLM	LU_DOI	8,550.76
5,475 BLM	LU_DOI	12,086.19
5,476 BLM	LU_DOI	8,064.96
5,477 BLM	LU_DOI	5,625.31
5,478 BLM	LU_DOI	8,070.90
5,479 BLM	LU_DOI	8,076.43
5,480 USFS	LU_USDA	1,277.52
5,482 USFS	LU_USDA	4,785.20
5,483 USFS	LU_USDA	2,934.22



5,485 USFS	LU_USDA	2,289.62
5,488 USFS	LU_USDA	483.4350569
5,491 USFS	LU_USDA	8,469.86
5,492 USFS	LU_USDA	51,394.91
5,493 USFS	LU_USDA	36,282.92
5,496 USFS	LU_USDA	404.1778355
5,497 USFS	LU_USDA	1,605.44
5,498 USFS	LU_USDA	2,316.02
5,499 USFS	LU_USDA	28,000.21
5,500 USFS	LU_USDA	59,689.57
5,501 USFS	LU_USDA	78,922.54
5,502 USFS	LU_USDA	21,785.73
5,503 Other Federal	MIL	254.3958779
5,506 Other Federal	MIL	32,347.20
5,507 Other Federal	MIL	568.8848477
5,509 Other Federal	MIL	254.3828522
5,768 Private	PRIVATE	2,191.13
5,775 Private	PRIVATE	6,840.41
5,790 Private	PRIVATE	4,847.40
5,793 Private	PRIVATE	8,207.22
5,795 Private	PRIVATE	6,451.68
5,797 Private	PRIVATE	4,854.53
5,802 Private	PRIVATE	4,809.55
5,805 Private	PRIVATE	60,333.00
5,806 Private	PRIVATE	1,391.05
5,807 Private	PRIVATE	3,561.35
5,811 Private	PRIVATE	3,218.30
5,813 Private	PRIVATE	11,348.89
5,816 Private	PRIVATE	4,813.04
5,819 Private	PRIVATE	2,416.86
5,822 Private	PRIVATE	4,558.41
5,823 Private	PRIVATE	1,603.99
5,826 Private	PRIVATE	998.309207
5,827 Private	PRIVATE	4,876.50
5,828 Private	PRIVATE	1,609.42
5,831 Private	PRIVATE	7,392.21
5,834 Private	PRIVATE	8,596.69
5,836 Private	PRIVATE	27,525.13
5,837 Private	PRIVATE	68,550.79
5,838 Private	PRIVATE	12,036.69
5,839 Private	PRIVATE	3,613.63
5,842 Private	PRIVATE	2,418.70
5,844 Private	PRIVATE	4,777.59
5,847 Private	PRIVATE	5,574.35
5,848 Private	PRIVATE	3,229.59
5,852 Private	PRIVATE	17,984.41
5,857 Private	PRIVATE	8,078.01

5,861 Private	PRIVATE	6,980.39
5,862 Private	PRIVATE	166.4275148
5,864 Private	PRIVATE	1,113.45
5,871 Private	PRIVATE	11,253.80
5,873 Private	PRIVATE	1,637.77
5,877 Private	PRIVATE	4,004.53
5,881 Private	PRIVATE	5,555.81
5,883 Private	PRIVATE	3,601.30
5,884 Private	PRIVATE	7,448.44
5,886 Private	PRIVATE	4,815.06
5,889 Private	PRIVATE	2,453.19
5,890 Private	PRIVATE	2,272.52
5,895 Private	PRIVATE	2,415.75
5,896 Private	PRIVATE	8,812.53
5,902 Private	PRIVATE	12,299.56
5,905 Private	PRIVATE	6,560.42
5,908 Private	PRIVATE	8,831.32
5,918 Private	PRIVATE	4,568.64
5,931 Private	PRIVATE	3,078.43
5,943 Private	PRIVATE	24,087.32
5,944 Private	PRIVATE	7,228.81
5,953 Private	PRIVATE	6,996.85
5,960 Private	PRIVATE	3,780.83
5,964 Private	PRIVATE	771.1183347
5,969 Private	PRIVATE	1,421.32
5,972 Private	PRIVATE	2,003.57
6,004 Private	PRIVATE	2,366.50
6,012 Private	PRIVATE	2,666.84
6,030 Private	PRIVATE	3,220.72
6,036 Private	PRIVATE	4,818.49
6,039 Private	PRIVATE	6,629.74
6,040 Private	PRIVATE	12,946.96
6,047 Private	PRIVATE	25,082.94
6,051 Private	PRIVATE	9,710.94
6,055 Private	PRIVATE	12,896.60
6,056 Private	PRIVATE	4,020.19
6,058 Private	PRIVATE	18,014.69
6,059 Private	PRIVATE	9,161.99
6,061 Private	PRIVATE	33,109.16
6,062 Private	PRIVATE	1,161.42
6,064 Private	PRIVATE	4,820.05
6,067 Private	PRIVATE	1,210.12
6,069 Private	PRIVATE	6,443.30
6,098 Private	PRIVATE	8,889.73
6,104 Private	PRIVATE	1,617.45
6,183 Private	PRIVATE	4,828.30
6,205 Private	PRIVATE	1,616.78

6,212 Private	PRIVATE	40,427.13
6,404 Private	PRIVATE	6,437.39
6,410 Private	PRIVATE	2,325.60
6,412 Private	PRIVATE	7,242.71
6,473 Private	PRIVATE	7,272.93
6,693 Private	PRIVATE	474,220.96
6,921 Private	PRIVATE	745,365.74
10,809 State	STATE	5,370.42
10,825 State	STATE	5,303.08
10,826 State	STATE	5,553.27
10,830 State	STATE	4,831.78
10,835 State	STATE	5,617.10
10,840 State	STATE	9,620.57
10,850 State	STATE	6,435.33
10,859 State	STATE	3,535.76
10,864 State	STATE	1,614.85
10,867 State	STATE	1,616.82
10,870 State	STATE	1,613.97
10,871 State	STATE	1,604.59
10,872 State	STATE	6,455.38
10,873 State	STATE	3,230.33
10,874 State	STATE	6,354.78
10,875 State	STATE	2,432.35
10,880 State	STATE	4,009.68
10,884 State	STATE	6,440.64
10,886 State	STATE	6,447.28
10,887 State	STATE	2,434.58
10,888 State	STATE	6,446.17
10,892 State	STATE	3,248.11
10,894 State	STATE	5,907.32
10,897 State	STATE	6,410.76
10,899 State	STATE	6,381.97
10,900 State	STATE	2,387.16
10,901 State	STATE	22,417.28
10,903 State	STATE	1,560.17
10,907 State	STATE	4,970.81
10,911 State	STATE	2,415.54
10,919 State	STATE	6,277.25
10,921 State	STATE	6,438.69
10,923 State	STATE	6,420.24
10,924 State	STATE	23,574.59
10,929 State	STATE	6,431.49
10,932 State	STATE	1,607.22
10,933 State	STATE	3,396.71
10,936 State	STATE	1,606.86
10,937 State	STATE	2,399.31
10,938 State	STATE	3,454.23

10,939 State	STATE	2,399.60
10,943 State	STATE	6,413.52
10,944 State	STATE	4,258.57
10,952 State	STATE	6,446.38
10,953 State	STATE	6,438.73
10,957 State	STATE	454.8641464
10,964 State	STATE	867.0287942
10,965 State	STATE	12,212.01
10,966 State	STATE	6,422.66
10,982 State	STATE	1,573.39
10,989 State	STATE	6,410.98
10,992 State	STATE	6,440.59
11,006 State	STATE	3,247.73
11,026 State	STATE	6,272.09
11,035 State	STATE	7,396.52
11,058 State	STATE	6,378.39
11,060 State	STATE	6,426.31
11,067 State	STATE	6,437.80
11,068 State	STATE	406.6093918
11,069 State	STATE	6,365.47
11,071 State	STATE	6,440.34
11,082 State	STATE	6,416.64
11,084 State	STATE	6,440.79
11,090 State	STATE	6,426.40
11,091 State	STATE	6,368.30
11,093 State	STATE	6,435.86
11,102 State	STATE	6,445.84
11,104 State	STATE	6,268.01
11,105 State	STATE	6,442.81
11,115 State	STATE	6,420.83
11,117 State	STATE	6,440.65
11,129 State	STATE	899.8935834
11,130 State	STATE	6,438.35
11,132 State	STATE	6,438.57
11,143 State	STATE	4,027.96
11,145 State	STATE	6,443.54
11,146 State	STATE	6,444.28
11,159 State	STATE	6,435.83
11,161 State	STATE	6,439.10
11,162 State	STATE	2,652.06
11,179 State	STATE	6,436.31
11,180 State	STATE	6,436.00
11,184 State	STATE	6,445.74
11,202 State	STATE	6,443.05
11,203 State	STATE	6,460.98
11,206 State	STATE	6,438.23
11,225 State	STATE	6,440.60

11,227 State	STATE	6,439.04
11,243 State	STATE	6,440.70
11,244 State	STATE	6,473.72
11,245 State	STATE	6,437.47
11,262 State	STATE	6,433.30
11,264 State	STATE	6,456.82
11,276 State	STATE	3,203.89
11,277 State	STATE	6,436.07
11,291 State	STATE	6,436.37
11,292 State	STATE	6,343.20
11,294 State	STATE	6,431.72
11,303 State	STATE	6,445.32
11,314 State	STATE	6,432.41
11,325 State	STATE	6,435.39
11,327 State	STATE	6,438.46
11,337 State	STATE	6,493.56
11,346 State	STATE	6.459410875
11,372 State	STATE	6,444.54
14,928 USFS	USFS	6,404.13
14,930 USFS	USFS	3,555.50
14,931 USFS	USFS	740.9145175
14,932 USFS	USFS	3,197.07
14,933 USFS	USFS	1,011.78
14,934 USFS	USFS	219.7893029
14,937 USFS	USFS	284.8943761
14,938 USFS	USFS	10,711.23
14,939 USFS	USFS	833.1459835
14,940 USFS	USFS	271.0304781
14,942 USFS	USFS	1,606.11
14,944 USFS	USFS	552.4884805
14,946 USFS	USFS	489.44483
14,947 USFS	USFS	2,059.10
14,948 USFS	USFS	4,002.69
14,949 USFS	USFS	486.5629667
14,950 USFS	USFS	620.3509879
14,951 USFS	USFS	1,812.84
14,952 USFS	USFS	1,720.25
14,953 USFS	USFS	731.9927965
14,956 USFS	USFS	1,620.18
14,957 USFS	USFS	3,222.27
14,958 USFS	USFS	1,637.17
14,959 USFS	USFS	814.285283
14,960 USFS	USFS	1,608.84
14,961 USFS	USFS	3,249.43
14,963 USFS	USFS	3,189.61
14,964 USFS	USFS	1,615.39
14,965 USFS	USFS	954.307718

14,966 USFS	USFS	3,257.01
14,967 USFS	USFS	1,605.28
14,968 USFS	USFS	4,036.30
14,969 USFS	USFS	1,601.65
14,970 USFS	USFS	1,602.87
14,971 USFS	USFS	1,610.79
14,973 USFS	USFS	1,609.02
14,974 USFS	USFS	5,519.09
14,975 USFS	USFS	1,611.45
14,976 USFS	USFS	1,608.46
14,978 USFS	USFS	2,279.68
14,979 USFS	USFS	3,216.61
14,982 USFS	USFS	2,417.77
14,983 USFS	USFS	4,855.68
14,991 USFS	USFS	25,134.16
14,992 USFS	USFS	104,623.17
14,993 USFS	USFS	31,105.55
14,994 USFS	USFS	211,369.58
15,002 USFS	USFS	23,843.09
30 BLM	BLM	1,613.92
78 BLM	BLM	727.9138247
85 BLM	BLM	3,602.50
93 BLM	BLM	1,613.52
94 BLM	BLM	12,209.31
99 BLM	BLM	4,816.06
108 BLM	BLM	1,843.41
110 BLM	BLM	8,906.46
113 BLM	BLM	3,747.29
124 BLM	BLM	1,908.02
125 BLM	BLM	3,354.77
134 BLM	BLM	2,431.12
138 BLM	BLM	809.7351062
154 BLM	BLM	3,201.36
155 BLM	BLM	15,263.17
161 BLM	BLM	7,237.65
176 BLM	BLM	10,970.99
178 BLM	BLM	9,005.30
180 BLM	BLM	2,091.02
187 BLM	BLM	3,205.08
192 BLM	BLM	7,702.69
197 BLM	BLM	23,705.46
198 BLM	BLM	5,626.71
206 BLM	BLM	1,921.25
211 BLM	BLM	4,956.47
216 BLM	BLM	1,353.95
217 BLM	BLM	4,799.08
220 BLM	BLM	15,536.80

228 BLM	BLM	1,605.48
235 BLM	BLM	2,529.12
236 BLM	BLM	1,615.21
240 BLM	BLM	1,357.91
241 BLM	BLM	7,637.36
242 BLM	BLM	4,025.15
243 BLM	BLM	4,819.53
246 BLM	BLM	1,604.71
247 BLM	BLM	1,610.05
249 BLM	BLM	33,845.89
253 BLM	BLM	6,502.11
254 BLM	BLM	1,611.45
255 BLM	BLM	1,647.72
257 BLM	BLM	1,618.55
260 BLM	BLM	2,397.64
261 BLM	BLM	14,444.88
262 BLM	BLM	6,059.91
265 BLM	BLM	1,604.64
267 BLM	BLM	1,601.66
288 BLM	BLM	1,600.69
301 BLM	BLM	854.9646535
323 BLM	BLM	35,830.53
325 BLM	BLM	325,526.81
331 BLM	BLM	850.2702316
334 BLM	BLM	538.0767668
342 BLM	BLM	1,508.77
357 BLM	BLM	1,367.44
363 BLM	BLM	8,821.31
381 BLM	BLM	1,562.96
394 BLM	BLM	8,839.03
396 BLM	BLM	16,133.64
397 BLM	BLM	226.153947
413 BLM	BLM	6,564.46
417 BLM	BLM	2,435.87
420 BLM	BLM	19,204.90
433 BLM	BLM	90,095.22
439 BLM	BLM	6,222.62
440 BLM	BLM	315,918.15
462 BLM	BLM	1,842.60
465 BLM	BLM	10,480.50
480 BLM	BLM	2,407.92
484 BLM	BLM	12,333.49
500 BLM	BLM	1,779.05
509 BLM	BLM	3,184.75
510 BLM	BLM	2,403.37
511 BLM	BLM	1,624.19
520 BLM	BLM	2,023.29

528 BLM	BLM	6,019.93
529 BLM	BLM	4,051.94
532 BLM	BLM	9,575.69
541 BLM	BLM	23,400.75
546 BLM	BLM	2,015.57
552 BLM	BLM	24,988.29
556 BLM	BLM	13,388.91
562 BLM	BLM	120,115.78
563 BLM	BLM	6,453.42
577 BLM	BLM	1,601.33
580 BLM	BLM	703.9780531
582 BLM	BLM	157,109.91
597 BLM	BLM	17,578.49
599 BLM	BLM	605.0294162
603 BLM	BLM	5,613.65
675 BLM	BLM	1,584.46
681 BLM	BLM	29,736.62
745 BLM	BLM	602.6108211
770 BLM	BLM	5,651.53
772 BLM	BLM	9,092.38
779 BLM	BLM	1,448.18
827 BLM	BLM	4,025.87
831 BLM	BLM	13,545.68
844 BLM	BLM	407.5997326
852 BLM	BLM	16,972.79
854 BLM	BLM	6,458.78
855 BLM	BLM	2,311.66
858 BLM	BLM	7,246.06
859 BLM	BLM	3,217.06
866 BLM	BLM	8,896.87
870 BLM	BLM	1,419.57
874 BLM	BLM	1,608.10
882 BLM	BLM	1,310.46
884 BLM	BLM	15,249.82
901 BLM	BLM	14,502.32
903 BLM	BLM	2,418.70
910 BLM	BLM	1,120.44
912 BLM	BLM	1,610.05
916 BLM	BLM	2,422.82
917 BLM	BLM	6,459.96
918 BLM	BLM	1,366.57
923 BLM	BLM	1,611.63
931 BLM	BLM	836.2138569
933 BLM	BLM	1,604.53
936 BLM	BLM	1,344.81
947 BLM	BLM	2,418.61
955 BLM	BLM	1,558.51



956 BLM	BLM	25,779.82
1,000 BLM	BLM	18,122.86
1,017 BLM	BLM	6,495.78
1,026 BLM	BLM	1,351.35
1,030 BLM	BLM	1,600.78
1,035 BLM	BLM	304.2615236
1,037 BLM	BLM	1,604.80
1,051 BLM	BLM	2,637.44
1,062 BLM	BLM	1,603.73
1,063 BLM	BLM	1,604.43
1,065 BLM	BLM	1,607.18
1,070 BLM	BLM	3,660.79
1,075 BLM	BLM	1,614.04
1,086 BLM	BLM	2,412.42
1,091 BLM	BLM	2,412.24
1,096 BLM	BLM	3,220.86
1,097 BLM	BLM	2,410.86
1,098 BLM	BLM	5,637.04
1,099 BLM	BLM	1,607.05
1,102 BLM	BLM	1,606.56
1,103 BLM	BLM	1,608.62
1,115 BLM	BLM	4,821.06
1,118 BLM	BLM	1,613.86
1,133 BLM	BLM	1,607.68
1,135 BLM	BLM	1,609.94
1,143 BLM	BLM	1,608.59
1,159 BLM	BLM	7,229.19
1,180 BLM	BLM	4,020.72
1,182 BLM	BLM	3,217.03
1,192 BLM	BLM	48,064.15
1,201 BLM	BLM	12,876.61
1,205 BLM	BLM	1,605.26
1,211 BLM	BLM	1,606.56
1,220 BLM	BLM	2,411.17
1,241 BLM	BLM	4,074.98
1,242 BLM	BLM	1,608.13
1,249 BLM	BLM	1,608.85
1,255 BLM	BLM	11,255.20
1,265 BLM	BLM	2,411.85
1,289 BLM	BLM	9,548.43
1,297 BLM	BLM	3,631.35
1,300 BLM	BLM	1,615.52
1,327 BLM	BLM	6,806.67
1,335 BLM	BLM	6,932.71
1,339 BLM	BLM	1,611.49
1,341 BLM	BLM	3,231.02
1,343 BLM	BLM	2,411.73

1,348 BLM	BLM	1,611.24
1,356 BLM	BLM	4,026.28
1,357 BLM	BLM	4,023.76
1,382 BLM	BLM	1,609.62
1,400 BLM	BLM	1,608.47
2,721 BLM	BLM	279,341.45
4,681 Other Federal	BOR	2,411.53
4,682 Other Federal	BOR	947.6411811
5,003 HSTRCWTR	HSTRCWTR	13,373.98
5,036 HSTRCWTR	HSTRCWTR	28,997.91
5,037 HSTRCWTR	HSTRCWTR	54.41822195
5,038 HSTRCWTR	HSTRCWTR	108.9110971
5,039 HSTRCWTR	HSTRCWTR	248.9332515
5,040 HSTRCWTR	HSTRCWTR	1,577.46
5,041 HSTRCWTR	HSTRCWTR	138.2737947
5,050 HSTRCWTR	HSTRCWTR	1,735.84
5,285 IR	IR	2,643.57
5,290 IR	IR	1,005.34
5,293 IR	IR	2,264.24
5,296 IR	IR	2,069.97
5,301 IR	IR	12,108.40
5,308 IR	IR	1,798.11
5,319 IR	IR	2,215.30
5,359 IR	IR	1,344.77
5,363 IR	IR	2,409.67
5,365 IR	IR	2,957.56
5,368 IR	IR	6,673.34
5,380 IR	IR	3,215.71
5,385 IR	IR	1,294.27
5,386 IR	IR	4,832.02
5,415 IR	IR	11,014.12
5,416 IR	IR	4,807.96
5,433 IR	IR	39,860.17
5,452 BLM	LU_DOI	6,548.62
5,455 BLM	LU_DOI	3,251.12
5,456 BLM	LU_DOI	16,008.31
5,462 BLM	LU_DOI	4,037.31
5,466 BLM	LU_DOI	2,944.03
5,480 USFS	LU_USDA	6,221.62
5,484 USFS	LU_USDA	5,253.83
5,486 USFS	LU_USDA	3,849.72
5,487 USFS	LU_USDA	39.14497267
5,488 USFS	LU_USDA	5,638.27
5,489 USFS	LU_USDA	3,998.80
5,490 USFS	LU_USDA	5,099.38
5,494 USFS	LU_USDA	3,633.16
5,496 USFS	LU_USDA	3,140.20

5,499 USFS	LU_USDA	18,123.01
5,520 Other Federal	MIL	17,846.00
5,543 Other Federal	NPS	722.9442432
5,544 Other Federal	NPS	2,427.57
5,547 Other Federal	NPS	2,556.21
5,668 Other Federal	OTHER	3,215.58
5,680 Other Federal	OTHER	1,803.14
5,691 Other Federal	OTHER	38,707.01
5,693 Other Federal	OTHER	4,727.33
5,695 Other Federal	OTHER	4,036.91
5,696 Other Federal	OTHER	4,112.93
5,699 Other Federal	OTHER	2,228.56
5,700 Other Federal	OTHER	3,887.51
5,703 Other Federal	OTHER	4,814.61
5,710 Other Federal	OTHER	6,130.52
5,730 Other Federal	OTHER	148,566.05
5,731 Other Federal	OTHER	47,781.63
5,795 Private	PRIVATE	6,450.03
5,804 Private	PRIVATE	24.42080151
5,809 Private	PRIVATE	2,443.96
5,810 Private	PRIVATE	1,616.87
5,812 Private	PRIVATE	5,649.33
5,814 Private	PRIVATE	4,850.03
5,815 Private	PRIVATE	3,231.98
5,817 Private	PRIVATE	6,445.12
5,818 Private	PRIVATE	13,776.94
5,820 Private	PRIVATE	5,650.59
5,822 Private	PRIVATE	8,070.09
5,824 Private	PRIVATE	3,211.16
5,825 Private	PRIVATE	3,233.31
5,826 Private	PRIVATE	5,774.97
5,829 Private	PRIVATE	4,803.88
5,832 Private	PRIVATE	5,603.76
5,833 Private	PRIVATE	3,359.74
5,834 Private	PRIVATE	18,813.57
5,837 Private	PRIVATE	8,713.86
5,839 Private	PRIVATE	7,026.30
5,841 Private	PRIVATE	5,743.28
5,846 Private	PRIVATE	5,602.53
5,849 Private	PRIVATE	4,853.86
5,858 Private	PRIVATE	1,604.24
5,861 Private	PRIVATE	127,250.92
5,862 Private	PRIVATE	8,822.92
5,864 Private	PRIVATE	15,876.65
5,873 Private	PRIVATE	1,520.64
5,881 Private	PRIVATE	960.6894277
5,905 Private	PRIVATE	1,740.56

5,913 Private	PRIVATE	871.2254419
5,915 Private	PRIVATE	10,163.88
5,920 Private	PRIVATE	2,404.63
5,936 Private	PRIVATE	1,408.92
5,960 Private	PRIVATE	2,778.99
5,962 Private	PRIVATE	1,605.40
5,964 Private	PRIVATE	2,209.49
5,969 Private	PRIVATE	1,095.38
5,981 Private	PRIVATE	2,294.98
5,982 Private	PRIVATE	1,607.51
5,984 Private	PRIVATE	1,489.48
6,030 Private	PRIVATE	2,032.66
6,049 Private	PRIVATE	43,714.66
6,074 Private	PRIVATE	5,689.97
6,075 Private	PRIVATE	3,406.04
6,076 Private	PRIVATE	12,181.02
6,313 Private	PRIVATE	5,617.06
6,420 Private	PRIVATE	13,699.16
6,434 Private	PRIVATE	6,432.49
6,452 Private	PRIVATE	16,927.46
6,456 Private	PRIVATE	2,466.87
6,535 Private	PRIVATE	36,487.78
6,538 Private	PRIVATE	5,649.28
6,545 Private	PRIVATE	5,601.11
6,552 Private	PRIVATE	6,392.85
6,573 Private	PRIVATE	95,806.72
6,577 Private	PRIVATE	4,827.67
6,581 Private	PRIVATE	6,439.05
6,583 Private	PRIVATE	9,636.42
6,591 Private	PRIVATE	2,417.43
6,605 Private	PRIVATE	9,577.75
6,633 Private	PRIVATE	5,635.59
6,674 Private	PRIVATE	7,236.92
6,693 Private	PRIVATE	788,667.03
6,695 Private	PRIVATE	2,653.56
6,704 Private	PRIVATE	1,611.28
6,707 Private	PRIVATE	3,029.76
6,708 Private	PRIVATE	1,608.95
6,712 Private	PRIVATE	3,037.92
6,719 Private	PRIVATE	1,509.74
6,721 Private	PRIVATE	2,403.54
6,723 Private	PRIVATE	3,253.92
6,725 Private	PRIVATE	21,740.76
6,732 Private	PRIVATE	1,611.68
6,733 Private	PRIVATE	6,417.96
6,738 Private	PRIVATE	2,368.55
6,743 Private	PRIVATE	5,619.18

6,745 Private	PRIVATE	17,655.74
6,767 Private	PRIVATE	1,605.87
6,780 Private	PRIVATE	46,578.87
6,831 Private	PRIVATE	3,213.18
6,838 Private	PRIVATE	6,409.56
6,875 Private	PRIVATE	12,763.69
6,886 Private	PRIVATE	6,436.93
6,921 Private	PRIVATE	1,038,837.93
6,936 Private	PRIVATE	4,832.58
6,979 Private	PRIVATE	3,223.87
7,418 Private	PRIVATE	750,408.64
10,808 State	STATE	1,608.25
10,815 State	STATE	6,431.18
10,816 State	STATE	4,023.35
10,818 State	STATE	2,417.37
10,827 State	STATE	3,107.18
10,828 State	STATE	1,599.66
10,829 State	STATE	7,187.61
10,832 State	STATE	3,208.77
10,833 State	STATE	6,450.53
10,844 State	STATE	6,439.11
10,851 State	STATE	6,462.71
10,853 State	STATE	6,472.58
10,854 State	STATE	6,433.18
10,856 State	STATE	6,460.59
10,858 State	STATE	6,445.32
10,859 State	STATE	23,249.10
10,861 State	STATE	4,376.37
10,865 State	STATE	5,848.28
10,868 State	STATE	6,470.85
10,877 State	STATE	5,750.48
10,881 State	STATE	6,440.63
10,885 State	STATE	6,331.38
10,891 State	STATE	6,448.43
10,895 State	STATE	6,431.67
10,896 State	STATE	6,506.76
10,898 State	STATE	6,377.48
10,904 State	STATE	6,458.88
10,907 State	STATE	5,571.36
10,908 State	STATE	6,408.90
10,912 State	STATE	6,427.73
10,914 State	STATE	4,841.58
10,915 State	STATE	14,713.75
10,919 State	STATE	1,078.51
10,920 State	STATE	6,434.39
10,931 State	STATE	6,416.03
10,946 State	STATE	6,446.41

10,947 State	STATE	6,425.69
10,955 State	STATE	6,392.80
10,966 State	STATE	198.1190175
10,984 State	STATE	6,429.54
10,989 State	STATE	574.5898986
11,006 State	STATE	6,361.67
11,032 State	STATE	6,454.55
11,068 State	STATE	327.289395
11,087 State	STATE	6,286.22
11,092 State	STATE	3,830.70
11,100 State	STATE	13,854.70
11,111 State	STATE	6,445.40
11,116 State	STATE	1,522.85
11,122 State	STATE	6,455.67
11,123 State	STATE	6,371.02
11,214 State	STATE	15,008.09
11,259 State	STATE	5,464.01
11,276 State	STATE	6,438.05
11,302 State	STATE	5,203.29
11,312 State	STATE	6,432.54
11,326 State	STATE	6,437.60
11,337 State	STATE	1,494.36
11,346 State	STATE	6,435.36
11,347 State	STATE	6,436.40
11,353 State	STATE	1,613.24
11,356 State	STATE	6,400.18
11,361 State	STATE	1,607.56
11,362 State	STATE	2,442.93
11,365 State	STATE	6,447.89
11,369 State	STATE	163,125.46
11,370 State	STATE	2,736.82
11,376 State	STATE	8,021.37
11,382 State	STATE	3,715.36
11,387 State	STATE	283.1516086
11,401 State	STATE	5,474.39
11,408 State	STATE	2,407.38
11,409 State	STATE	6,445.15
11,417 State	STATE	1,609.25
11,420 State	STATE	1,374.78
11,421 State	STATE	7,238.22
11,423 State	STATE	1,603.81
11,431 State	STATE	3,161.20
11,434 State	STATE	2,452.23
11,438 State	STATE	1,608.89
11,441 State	STATE	4,014.97
11,442 State	STATE	53,922.63
11,451 State	STATE	3,207.97

11,462 State	STATE	6,443.06
11,463 State	STATE	28,039.75
11,468 State	STATE	21,275.19
11,473 State	STATE	3,219.53
11,485 State	STATE	1,608.71
11,487 State	STATE	1,609.93
11,493 State	STATE	1,609.18
11,500 State	STATE	1,609.64
11,510 State	STATE	2,788.88
11,517 State	STATE	9,638.15
11,538 State	STATE	4,808.33
11,539 State	STATE	1,605.02
11,541 State	STATE	2,403.82
11,546 State	STATE	2,403.96
11,558 State	STATE	3,202.83
11,559 State	STATE	3,215.75
11,562 State	STATE	48.08255661
11,570 State	STATE	35,493.42
11,580 State	STATE	1,599.62
11,583 State	STATE	18,448.31
11,588 State	STATE	2,403.58
11,603 State	STATE	21,827.77
11,610 State	STATE	4,006.22
11,614 State	STATE	264,964.72
11,616 State	STATE	7,223.73
11,619 State	STATE	2,406.45
11,627 State	STATE	549.6945958
11,630 State	STATE	3,219.09
11,631 State	STATE	3,208.78
11,642 State	STATE	4,811.50
11,643 State	STATE	6,428.84
11,674 State	STATE	6,437.87
11,686 State	STATE	4,822.55
11,727 State	STATE	4,017.08
11,737 State	STATE	6,490.63
11,761 State	STATE	112,547.75
11,774 State	STATE	1,608.32
11,777 State	STATE	8,326.18
11,788 State	STATE	4,024.22
11,790 State	STATE	22,273.88
11,803 State	STATE	2,307.24
11,804 State	STATE	3,507.98
11,834 State	STATE	5,667.98
14,932 USFS	USFS	3,633.23
14,936 USFS	USFS	2,737.71
14,941 USFS	USFS	1,192.68
14,943 USFS	USFS	2,116.37

14,959 USFS	USFS	1,601.56
14,983 USFS	USFS	102,146.55
14,992 USFS	USFS	40,923.78
14,993 USFS	USFS	77,359.75
14,994 USFS	USFS	189,041.94
14,995 USFS	USFS	2,938.89
14,997 USFS	USFS	16,162.68
15,002 USFS	USFS	151,316.76
1,561 BLM	BLM	1,515.32
1,566 BLM	BLM	1,033.80
1,569 BLM	BLM	245.2930905
1,571 BLM	BLM	1,803.48
1,579 BLM	BLM	7,048.08
1,580 BLM	BLM	549.7163872
1,582 BLM	BLM	559.1124233
1,583 BLM	BLM	968.7150401
1,588 BLM	BLM	885.6918247
1,596 BLM	BLM	2,289.31
1,609 BLM	BLM	6,890.59
1,622 BLM	BLM	1,407.31
1,630 BLM	BLM	1,611.19
1,648 BLM	BLM	2,418.19
1,649 BLM	BLM	1,601.98
1,650 BLM	BLM	1,609.38
1,652 BLM	BLM	44,311.58
1,653 BLM	BLM	4,119.53
1,654 BLM	BLM	12,780.45
1,656 BLM	BLM	2,415.15
1,657 BLM	BLM	13,490.96
1,659 BLM	BLM	3,232.06
1,660 BLM	BLM	3,239.10
1,665 BLM	BLM	1,607.60
1,672 BLM	BLM	39,541.59
1,674 BLM	BLM	4,818.05
1,676 BLM	BLM	5,132.61
1,679 BLM	BLM	1,513.36
1,680 BLM	BLM	2,419.90
1,683 BLM	BLM	3,185.09
1,684 BLM	BLM	4,041.84
1,687 BLM	BLM	1,611.58
1,692 BLM	BLM	1,744.18
1,693 BLM	BLM	7,916.55
1,694 BLM	BLM	1,610.31
1,695 BLM	BLM	1,599.94
1,698 BLM	BLM	3,214.23
1,700 BLM	BLM	1,613.80
1,703 BLM	BLM	90,154.46



1,707 BLM	BLM	1,610.49
1,710 BLM	BLM	1,628.00
1,711 BLM	BLM	9,614.82
1,713 BLM	BLM	4,063.99
1,723 BLM	BLM	30,504.27
1,726 BLM	BLM	1,608.06
1,729 BLM	BLM	24,053.94
1,735 BLM	BLM	1,609.90
1,736 BLM	BLM	3,235.51
1,737 BLM	BLM	8,235.91
1,743 BLM	BLM	2,583.59
1,745 BLM	BLM	1,012.52
1,749 BLM	BLM	6,465.30
1,750 BLM	BLM	62.10001825
1,760 BLM	BLM	461.2322792
1,764 BLM	BLM	13,719.38
1,767 BLM	BLM	2,430.43
1,769 BLM	BLM	1,530.72
1,771 BLM	BLM	1,604.83
1,780 BLM	BLM	404.866885
1,781 BLM	BLM	1,596.93
1,783 BLM	BLM	1,610.71
1,791 BLM	BLM	1,381.27
1,794 BLM	BLM	17,976.77
1,795 BLM	BLM	2,073.12
1,798 BLM	BLM	148.4592914
1,799 BLM	BLM	2,682.52
1,808 BLM	BLM	1,534.50
1,810 BLM	BLM	1,567.93
1,816 BLM	BLM	3,230.20
1,821 BLM	BLM	3,225.69
1,834 BLM	BLM	1,613.20
1,841 BLM	BLM	3,225.92
1,843 BLM	BLM	72.74020799
1,849 BLM	BLM	12,827.48
1,854 BLM	BLM	11,300.33
1,858 BLM	BLM	2,431.63
1,859 BLM	BLM	3,233.86
1,860 BLM	BLM	1,604.96
1,862 BLM	BLM	5,623.17
1,865 BLM	BLM	1,609.07
1,866 BLM	BLM	31,701.65
1,867 BLM	BLM	17,022.85
1,870 BLM	BLM	2,397.29
1,882 BLM	BLM	2,412.51
1,885 BLM	BLM	4,001.33
1,886 BLM	BLM	1,596.48

1,888 BLM	BLM	7,171.56
1,894 BLM	BLM	6,973.62
1,899 BLM	BLM	1,605.55
1,906 BLM	BLM	10,778.59
1,913 BLM	BLM	3,184.26
1,919 BLM	BLM	9,078.19
1,923 BLM	BLM	18,520.10
1,928 BLM	BLM	1,598.59
1,933 BLM	BLM	2,408.50
1,955 BLM	BLM	13,567.33
1,958 BLM	BLM	285.0408027
1,971 BLM	BLM	3,194.59
1,974 BLM	BLM	1,610.52
1,977 BLM	BLM	1,610.24
2,047 BLM	BLM	4,905.55
2,056 BLM	BLM	233,027.95
2,109 BLM	BLM	9,611.80
2,123 BLM	BLM	2,344.23
2,129 BLM	BLM	1,621.20
2,169 BLM	BLM	3,954.55
2,186 BLM	BLM	79,883.23
2,215 BLM	BLM	165,708.76
2,233 BLM	BLM	60.29486339
2,251 BLM	BLM	47,424.14
2,256 BLM	BLM	1,499.06
2,259 BLM	BLM	1,600.90
2,268 BLM	BLM	2,478.72
2,285 BLM	BLM	80,977.78
2,286 BLM	BLM	1,295.28
2,287 BLM	BLM	1,597.76
2,290 BLM	BLM	1,603.25
2,291 BLM	BLM	1,603.69
2,292 BLM	BLM	2,373.97
2,294 BLM	BLM	1,610.47
2,295 BLM	BLM	12,919.73
2,297 BLM	BLM	451.8911944
2,299 BLM	BLM	1,468.42
2,300 BLM	BLM	1,611.09
2,301 BLM	BLM	2,410.66
2,302 BLM	BLM	1,610.76
2,303 BLM	BLM	1,610.11
2,304 BLM	BLM	2,421.36
2,305 BLM	BLM	4,084.50
2,307 BLM	BLM	1,602.74
2,308 BLM	BLM	1,608.46
2,309 BLM	BLM	4,826.06
2,310 BLM	BLM	1,611.76

2,312 BLM	BLM	1,604.10
2,313 BLM	BLM	1,602.38
2,316 BLM	BLM	1,600.83
2,317 BLM	BLM	1,609.85
2,318 BLM	BLM	4,025.08
2,319 BLM	BLM	1,605.86
2,321 BLM	BLM	1,611.10
2,323 BLM	BLM	2,418.83
2,325 BLM	BLM	1,601.01
2,326 BLM	BLM	1,609.19
2,328 BLM	BLM	1,600.92
2,329 BLM	BLM	1,602.66
2,330 BLM	BLM	2,409.34
2,331 BLM	BLM	1,620.18
2,332 BLM	BLM	1,606.79
2,334 BLM	BLM	1,604.82
2,335 BLM	BLM	1,604.98
2,336 BLM	BLM	1,616.74
2,338 BLM	BLM	1,606.15
2,340 BLM	BLM	1,613.11
2,341 BLM	BLM	1,613.93
2,342 BLM	BLM	1,613.96
2,343 BLM	BLM	1,619.48
2,344 BLM	BLM	4,892.44
2,345 BLM	BLM	1,608.97
2,346 BLM	BLM	4,006.48
2,347 BLM	BLM	2,420.14
2,348 BLM	BLM	3,250.87
2,349 BLM	BLM	1,611.67
2,350 BLM	BLM	18,014.58
2,351 BLM	BLM	1,613.82
2,352 BLM	BLM	1,604.81
2,354 BLM	BLM	1,611.21
2,355 BLM	BLM	2,438.56
2,357 BLM	BLM	1,679.27
2,358 BLM	BLM	7,228.09
2,359 BLM	BLM	1,619.36
2,360 BLM	BLM	1,611.11
2,361 BLM	BLM	1,607.01
2,362 BLM	BLM	1,608.17
2,363 BLM	BLM	1,607.40
2,364 BLM	BLM	1,607.97
2,365 BLM	BLM	1,611.91
2,366 BLM	BLM	4,846.36
2,367 BLM	BLM	1,605.48
2,368 BLM	BLM	1,611.90
2,369 BLM	BLM	1,611.95

2,370 BLM	BLM	1,610.38
2,371 BLM	BLM	1,603.32
2,372 BLM	BLM	2,267.64
2,373 BLM	BLM	12,883.76
2,376 BLM	BLM	1,676.85
2,378 BLM	BLM	3,226.44
2,380 BLM	BLM	1,608.57
2,381 BLM	BLM	1,606.51
2,382 BLM	BLM	1,676.59
2,383 BLM	BLM	1,679.71
2,384 BLM	BLM	1,616.25
2,385 BLM	BLM	1,607.91
2,386 BLM	BLM	1,666.96
2,390 BLM	BLM	1,605.95
2,391 BLM	BLM	1,606.81
2,392 BLM	BLM	1,617.88
2,393 BLM	BLM	1,606.06
2,394 BLM	BLM	1,605.86
2,395 BLM	BLM	1,605.55
2,396 BLM	BLM	1,609.41
2,397 BLM	BLM	2,416.03
2,398 BLM	BLM	1,617.36
2,399 BLM	BLM	1,604.09
2,401 BLM	BLM	2,413.15
2,402 BLM	BLM	1,619.45
2,403 BLM	BLM	1,605.51
2,405 BLM	BLM	1,605.88
2,406 BLM	BLM	1,609.98
2,407 BLM	BLM	1,606.06
2,410 BLM	BLM	1,605.91
2,413 BLM	BLM	1,607.43
2,414 BLM	BLM	1,606.30
2,415 BLM	BLM	1,605.63
2,416 BLM	BLM	1,619.08
2,417 BLM	BLM	1,604.82
2,418 BLM	BLM	1,606.51
2,419 BLM	BLM	4,062.89
2,420 BLM	BLM	1,614.17
2,421 BLM	BLM	1,608.41
2,422 BLM	BLM	1,605.49
2,423 BLM	BLM	1,604.77
2,424 BLM	BLM	2,409.85
2,425 BLM	BLM	1,616.49
2,426 BLM	BLM	1,603.96
2,427 BLM	BLM	2,457.97
2,429 BLM	BLM	2,417.15
2,430 BLM	BLM	1,604.20

2,431 BLM	BLM	1,605.00
2,432 BLM	BLM	1,609.00
2,434 BLM	BLM	1,633.94
2,435 BLM	BLM	1,613.34
2,436 BLM	BLM	3,254.25
2,438 BLM	BLM	1,698.15
2,439 BLM	BLM	1,615.17
2,440 BLM	BLM	1,526.90
2,441 BLM	BLM	1,603.56
2,442 BLM	BLM	1,607.62
2,443 BLM	BLM	1,613.82
2,445 BLM	BLM	1,612.23
2,446 BLM	BLM	2,411.04
2,447 BLM	BLM	1,608.95
2,448 BLM	BLM	1,607.68
2,451 BLM	BLM	1,607.34
2,452 BLM	BLM	2,411.22
2,453 BLM	BLM	1,607.92
2,454 BLM	BLM	1,607.13
2,455 BLM	BLM	1,609.71
2,456 BLM	BLM	1,612.78
2,457 BLM	BLM	1,609.01
2,458 BLM	BLM	2,410.62
2,459 BLM	BLM	1,607.27
2,461 BLM	BLM	1,607.22
2,462 BLM	BLM	1,605.89
2,463 BLM	BLM	1,608.73
2,465 BLM	BLM	1,517.57
2,466 BLM	BLM	1,609.36
2,467 BLM	BLM	1,606.34
2,468 BLM	BLM	1,602.50
2,469 BLM	BLM	1,609.43
2,470 BLM	BLM	1,607.74
2,471 BLM	BLM	1,612.87
2,472 BLM	BLM	1,604.60
2,473 BLM	BLM	2,406.42
2,474 BLM	BLM	1,609.70
2,475 BLM	BLM	1,606.20
2,476 BLM	BLM	1,604.02
2,477 BLM	BLM	1,610.66
2,478 BLM	BLM	2,421.29
2,479 BLM	BLM	1,611.00
2,480 BLM	BLM	1,605.41
2,481 BLM	BLM	1,611.48
2,482 BLM	BLM	1,607.88
2,485 BLM	BLM	1,606.74
2,487 BLM	BLM	1,602.69

2,488 BLM	BLM	1,606.10
2,489 BLM	BLM	1,609.83
2,490 BLM	BLM	1,607.99
2,492 BLM	BLM	1,605.54
2,493 BLM	BLM	1,601.13
2,494 BLM	BLM	2,313.94
2,495 BLM	BLM	3,218.70
2,496 BLM	BLM	1,612.93
2,497 BLM	BLM	1,610.65
2,499 BLM	BLM	1,605.62
2,500 BLM	BLM	1,599.58
2,501 BLM	BLM	1,610.86
2,502 BLM	BLM	8,824.32
2,504 BLM	BLM	4,008.97
2,505 BLM	BLM	2,408.81
2,506 BLM	BLM	1,607.61
2,507 BLM	BLM	1,608.06
2,508 BLM	BLM	1,600.70
2,509 BLM	BLM	1,610.88
2,510 BLM	BLM	1,614.00
2,511 BLM	BLM	1,604.47
2,513 BLM	BLM	1,607.04
2,514 BLM	BLM	1,605.78
2,515 BLM	BLM	1,600.96
2,516 BLM	BLM	1,610.99
2,517 BLM	BLM	1,610.07
2,518 BLM	BLM	1,601.99
2,520 BLM	BLM	2,406.83
2,521 BLM	BLM	1,607.87
2,522 BLM	BLM	1,601.23
2,523 BLM	BLM	2,415.95
2,526 BLM	BLM	1,611.92
2,527 BLM	BLM	1,605.30
2,528 BLM	BLM	1,602.32
2,529 BLM	BLM	1,608.60
2,530 BLM	BLM	7,227.70
2,531 BLM	BLM	1,607.57
2,532 BLM	BLM	3,124.69
2,533 BLM	BLM	1,609.89
2,534 BLM	BLM	1,604.76
2,535 BLM	BLM	4,853.37
2,536 BLM	BLM	2,413.62
2,537 BLM	BLM	2,410.00
2,538 BLM	BLM	1,602.62
2,539 BLM	BLM	1,608.79
2,540 BLM	BLM	1,609.76
2,541 BLM	BLM	1,556.04

2,542 BLM	BLM	1,607.22
2,543 BLM	BLM	1,523.53
2,544 BLM	BLM	1,606.26
2,546 BLM	BLM	1,603.71
2,547 BLM	BLM	1,604.97
2,548 BLM	BLM	1,608.72
2,549 BLM	BLM	5,632.00
2,550 BLM	BLM	1,603.37
2,551 BLM	BLM	1,608.54
2,552 BLM	BLM	2,405.90
2,553 BLM	BLM	1,603.35
2,554 BLM	BLM	1,608.28
2,555 BLM	BLM	1,609.68
2,556 BLM	BLM	1,604.64
2,557 BLM	BLM	1,608.75
2,558 BLM	BLM	1,609.92
2,559 BLM	BLM	2,404.13
2,560 BLM	BLM	1,607.38
2,561 BLM	BLM	1,604.35
2,562 BLM	BLM	1,610.63
2,563 BLM	BLM	1,606.51
2,564 BLM	BLM	3,233.14
2,565 BLM	BLM	1,606.08
2,566 BLM	BLM	2,410.21
2,567 BLM	BLM	1,604.33
2,568 BLM	BLM	1,607.48
2,569 BLM	BLM	1,612.83
2,570 BLM	BLM	1,610.29
2,572 BLM	BLM	1,605.32
2,574 BLM	BLM	2,404.66
2,575 BLM	BLM	1,605.24
2,576 BLM	BLM	1,610.31
2,577 BLM	BLM	1,613.18
2,578 BLM	BLM	1,610.48
2,579 BLM	BLM	1,608.95
2,580 BLM	BLM	1,605.48
2,581 BLM	BLM	1,609.75
2,582 BLM	BLM	3,215.33
2,583 BLM	BLM	7,824.00
2,584 BLM	BLM	1,604.23
2,585 BLM	BLM	1,610.70
2,586 BLM	BLM	1,605.12
2,587 BLM	BLM	2,414.42
2,588 BLM	BLM	2,417.21
2,589 BLM	BLM	1,614.75
2,590 BLM	BLM	1,616.24
2,591 BLM	BLM	1,622.26

2,592 BLM	BLM	1,614.57
2,593 BLM	BLM	141,131.30
2,595 BLM	BLM	1,603.79
2,596 BLM	BLM	1,617.65
2,598 BLM	BLM	1,608.54
2,599 BLM	BLM	1,602.56
2,600 BLM	BLM	1,610.44
2,602 BLM	BLM	1,607.64
2,603 BLM	BLM	1,607.24
2,604 BLM	BLM	2,416.96
2,605 BLM	BLM	2,417.76
2,606 BLM	BLM	11,292.01
2,607 BLM	BLM	1,602.16
2,608 BLM	BLM	2,423.00
2,609 BLM	BLM	2,396.48
2,610 BLM	BLM	3,220.69
2,611 BLM	BLM	2,411.91
2,612 BLM	BLM	1,604.79
2,613 BLM	BLM	1,610.69
2,614 BLM	BLM	2,412.05
2,616 BLM	BLM	1,604.90
2,617 BLM	BLM	1,604.92
2,618 BLM	BLM	2,418.03
2,619 BLM	BLM	1,603.38
2,620 BLM	BLM	1,610.06
2,621 BLM	BLM	1,604.96
2,622 BLM	BLM	1,610.19
2,623 BLM	BLM	1,611.83
2,624 BLM	BLM	2,411.02
2,625 BLM	BLM	1,599.29
2,626 BLM	BLM	1,626.95
2,627 BLM	BLM	1,608.62
2,628 BLM	BLM	23,926.58
2,629 BLM	BLM	1,608.77
2,630 BLM	BLM	3,225.57
2,631 BLM	BLM	4,808.13
2,632 BLM	BLM	1,609.73
2,633 BLM	BLM	1,610.66
2,634 BLM	BLM	1,613.61
2,635 BLM	BLM	3,191.91
2,636 BLM	BLM	4,022.54
2,637 BLM	BLM	2,417.54
2,640 BLM	BLM	1,607.81
2,641 BLM	BLM	1,532.72
2,642 BLM	BLM	1,606.57
2,643 BLM	BLM	1,610.52
2,644 BLM	BLM	4,849.54



2,645 BLM	BLM	1,611.34
2,646 BLM	BLM	1,608.05
2,647 BLM	BLM	1,600.36
2,648 BLM	BLM	380,214.73
2,649 BLM	BLM	1,612.84
2,652 BLM	BLM	2,418.21
2,653 BLM	BLM	12,054.92
2,654 BLM	BLM	1,610.58
2,655 BLM	BLM	1,609.00
2,656 BLM	BLM	1,610.01
2,657 BLM	BLM	11,172.58
2,658 BLM	BLM	1,609.07
2,659 BLM	BLM	1,618.12
2,660 BLM	BLM	24,971.42
2,661 BLM	BLM	1,612.10
2,662 BLM	BLM	8,836.62
2,663 BLM	BLM	1,610.33
2,666 BLM	BLM	1,610.98
2,667 BLM	BLM	38,648.54
2,668 BLM	BLM	1,610.92
2,669 BLM	BLM	1,593.59
2,670 BLM	BLM	1,610.97
2,673 BLM	BLM	1,610.77
2,675 BLM	BLM	40,117.97
2,676 BLM	BLM	9,635.13
2,679 BLM	BLM	1,605.71
2,680 BLM	BLM	1,606.86
2,681 BLM	BLM	1,504.18
2,682 BLM	BLM	25,709.48
2,683 BLM	BLM	1,606.29
2,686 BLM	BLM	1,606.73
2,687 BLM	BLM	1,607.92
2,688 BLM	BLM	1,608.40
2,689 BLM	BLM	1,607.73
2,691 BLM	BLM	1,607.15
2,692 BLM	BLM	3,222.04
2,693 BLM	BLM	2,401.59
2,694 BLM	BLM	1,624.33
2,695 BLM	BLM	1,608.06
2,696 BLM	BLM	2,270.00
2,697 BLM	BLM	1,610.85
2,698 BLM	BLM	1,610.69
2,699 BLM	BLM	1,607.58
2,700 BLM	BLM	7,275.95
2,701 BLM	BLM	1,607.61
2,702 BLM	BLM	1,608.47
2,703 BLM	BLM	2,550.67

2,709 BLM	BLM	1,597.97
2,710 BLM	BLM	6,447.28
2,719 BLM	BLM	1,610.41
2,723 BLM	BLM	1,604.65
2,724 BLM	BLM	4,839.21
2,728 BLM	BLM	1,606.56
2,730 BLM	BLM	1,608.91
2,731 BLM	BLM	3,245.09
2,733 BLM	BLM	4,042.02
2,734 BLM	BLM	1,614.00
2,735 BLM	BLM	1,609.54
2,737 BLM	BLM	1,609.09
2,739 BLM	BLM	2,134.37
2,745 BLM	BLM	1,614.24
2,747 BLM	BLM	3,250.03
2,750 BLM	BLM	1,621.70
2,751 BLM	BLM	3,227.99
2,756 BLM	BLM	1,624.16
2,757 BLM	BLM	1,248.08
2,758 BLM	BLM	2,433.48
2,760 BLM	BLM	1,623.70
2,761 BLM	BLM	1,620.80
2,763 BLM	BLM	1,611.93
2,764 BLM	BLM	1,626.23
2,765 BLM	BLM	1,611.89
2,767 BLM	BLM	1,606.82
2,768 BLM	BLM	14,250.24
2,769 BLM	BLM	1,605.88
2,770 BLM	BLM	1,606.51
2,771 BLM	BLM	5,641.98
2,772 BLM	BLM	1,609.83
2,774 BLM	BLM	1,608.14
2,775 BLM	BLM	1,628.60
2,776 BLM	BLM	1,610.43
2,777 BLM	BLM	6,430.91
2,779 BLM	BLM	1,609.54
2,782 BLM	BLM	8,096.71
2,783 BLM	BLM	862.1520788
2,784 BLM	BLM	1,608.60
2,785 BLM	BLM	4,027.48
2,787 BLM	BLM	4,032.86
2,789 BLM	BLM	8,520.25
2,797 BLM	BLM	3,219.43
2,799 BLM	BLM	7,952.07
2,802 BLM	BLM	2,435.73
2,806 BLM	BLM	1,635.02
2,812 BLM	BLM	1,669.40

2,814 BLM	BLM	1,593.98
2,819 BLM	BLM	4,046.24
2,823 BLM	BLM	1,044.81
2,826 BLM	BLM	1,379.36
2,834 BLM	BLM	21,883.31
2,862 BLM	BLM	1,610.84
2,866 BLM	BLM	1,606.19
2,876 BLM	BLM	1,608.97
2,887 BLM	BLM	1,602.71
2,890 BLM	BLM	1,605.20
2,927 BLM	BLM	26,461.03
3,045 BLM	BLM	3,857.28
3,052 BLM	BLM	3,238.59
3,062 BLM	BLM	13,248.19
3,125 BLM	BLM	20,956.50
3,153 BLM	BLM	9,973.50
3,176 BLM	BLM	2,443.20
3,183 BLM	BLM	4,485.37
3,194 BLM	BLM	3,306.44
3,197 BLM	BLM	63,300.09
3,257 BLM	BLM	2,398.18
3,262 BLM	BLM	11,825.19
3,276 BLM	BLM	197.4808561
3,282 BLM	BLM	3,795.62
3,308 BLM	BLM	25,801.29
3,362 BLM	BLM	2,360,056.83
3,563 BLM	BLM	57,230.85
4,701 Other Federal	BOR	3,216.30
4,705 Other Federal	BOR	1,186.15
4,706 Other Federal	BOR	1,195.32
4,715 Other Federal	BOR	21,257.28
4,718 Other Federal	BOR	3,196.11
4,976 Other Federal	DOE	91,821.25
5,559 Other Federal	NPS	418.2536605
5,738 Other Federal	OTHER	65,760.50
7,132 Private	PRIVATE	8,956.70
7,137 Private	PRIVATE	1,608.83
7,141 Private	PRIVATE	4,863.53
7,162 Private	PRIVATE	2,712.38
7,180 Private	PRIVATE	1,629.49
7,198 Private	PRIVATE	1,602.07
7,201 Private	PRIVATE	1,621.17
7,202 Private	PRIVATE	5,623.89
7,211 Private	PRIVATE	1,609.16
7,245 Private	PRIVATE	1,562.73
7,248 Private	PRIVATE	552.7177329
7,252 Private	PRIVATE	28,955.13

7,253 Private	PRIVATE	5,613.45
7,275 Private	PRIVATE	1,604.15
7,277 Private	PRIVATE	2,789.98
7,279 Private	PRIVATE	2,554.79
7,281 Private	PRIVATE	1,279.26
7,289 Private	PRIVATE	2,404.41
7,292 Private	PRIVATE	1,601.76
7,298 Private	PRIVATE	1,603.20
7,301 Private	PRIVATE	2,022.14
7,303 Private	PRIVATE	196.0644221
7,308 Private	PRIVATE	8.267569285
7,309 Private	PRIVATE	19,449.36
7,310 Private	PRIVATE	2,418.00
7,317 Private	PRIVATE	3,180.37
7,318 Private	PRIVATE	2,108.23
7,322 Private	PRIVATE	3,991.85
7,324 Private	PRIVATE	4,809.21
7,326 Private	PRIVATE	1,613.04
7,329 Private	PRIVATE	1,681.57
7,334 Private	PRIVATE	570.2232688
7,336 Private	PRIVATE	4,311.54
7,363 Private	PRIVATE	1,216.35
7,365 Private	PRIVATE	37,423.45
7,366 Private	PRIVATE	9,802.14
7,380 Private	PRIVATE	3,320.25
7,389 Private	PRIVATE	606.2438568
7,442 Private	PRIVATE	4,025.74
7,455 Private	PRIVATE	10,673.63
7,469 Private	PRIVATE	3,418.93
7,481 Private	PRIVATE	4,002.81
7,491 Private	PRIVATE	6,011.57
7,553 Private	PRIVATE	4,085.12
7,579 Private	PRIVATE	6,448.64
7,592 Private	PRIVATE	2,389.26
7,777 Private	PRIVATE	3,234.87
7,778 Private	PRIVATE	3,224.52
7,792 Private	PRIVATE	569.8221096
7,793 Private	PRIVATE	683,329.70
7,800 Private	PRIVATE	5,275.80
7,811 Private	PRIVATE	4,029.07
7,813 Private	PRIVATE	7,274.54
7,815 Private	PRIVATE	54,588.79
7,816 Private	PRIVATE	10,503.49
7,817 Private	PRIVATE	4,019.29
7,818 Private	PRIVATE	4,706.89
7,820 Private	PRIVATE	6,410.23
7,823 Private	PRIVATE	7,248.36

7,834 Private	PRIVATE	4,036.25
7,847 Private	PRIVATE	6,408.95
7,853 Private	PRIVATE	4,834.35
7,860 Private	PRIVATE	4,021.55
7,874 Private	PRIVATE	8,776.43
7,880 Private	PRIVATE	3,940.35
7,881 Private	PRIVATE	4,944.16
7,882 Private	PRIVATE	507.0515053
7,887 Private	PRIVATE	6,471.69
7,890 Private	PRIVATE	21,408.34
7,891 Private	PRIVATE	3,864.38
7,894 Private	PRIVATE	3,954.98
7,896 Private	PRIVATE	4,017.68
7,900 Private	PRIVATE	1,608.93
7,912 Private	PRIVATE	6,462.78
7,914 Private	PRIVATE	3,220.64
7,917 Private	PRIVATE	12,089.78
7,931 Private	PRIVATE	8,871.38
7,932 Private	PRIVATE	4,828.34
7,935 Private	PRIVATE	4,916.08
7,938 Private	PRIVATE	6,676.03
7,942 Private	PRIVATE	2,413.26
7,946 Private	PRIVATE	1,607.84
7,948 Private	PRIVATE	16,119.49
7,950 Private	PRIVATE	8,688.55
7,952 Private	PRIVATE	16,954.10
7,955 Private	PRIVATE	890.9361585
7,958 Private	PRIVATE	4,840.01
7,960 Private	PRIVATE	10,710.53
7,965 Private	PRIVATE	5,662.38
7,974 Private	PRIVATE	30,225.43
7,975 Private	PRIVATE	5,668.21
7,977 Private	PRIVATE	6,437.45
7,980 Private	PRIVATE	4,832.18
7,985 Private	PRIVATE	4,828.73
7,986 Private	PRIVATE	6,454.83
7,991 Private	PRIVATE	6,417.23
7,994 Private	PRIVATE	4,809.38
7,996 Private	PRIVATE	3,219.54
8,000 Private	PRIVATE	1,607.44
8,002 Private	PRIVATE	12,873.51
8,003 Private	PRIVATE	4,726.93
8,004 Private	PRIVATE	69,717.82
8,008 Private	PRIVATE	4,797.35
8,009 Private	PRIVATE	8,836.40
8,012 Private	PRIVATE	3,296.48
8,013 Private	PRIVATE	8,062.30

8,020 Private	PRIVATE	5,627.22
8,022 Private	PRIVATE	5,611.84
8,025 Private	PRIVATE	18,540.40
8,026 Private	PRIVATE	16,554.67
8,028 Private	PRIVATE	1,810.45
8,029 Private	PRIVATE	1,612.15
8,030 Private	PRIVATE	7,236.18
8,031 Private	PRIVATE	26,392.27
8,032 Private	PRIVATE	3,085.40
8,037 Private	PRIVATE	1,607.65
8,045 Private	PRIVATE	11,247.01
8,050 Private	PRIVATE	2,455.52
8,059 Private	PRIVATE	6,430.36
8,061 Private	PRIVATE	4,028.92
8,063 Private	PRIVATE	49,420.92
8,065 Private	PRIVATE	8,877.06
8,066 Private	PRIVATE	1,598.60
8,069 Private	PRIVATE	12,193.79
8,070 Private	PRIVATE	1,604.16
8,076 Private	PRIVATE	4,227.32
8,094 Private	PRIVATE	3,433.02
8,097 Private	PRIVATE	1,600.30
8,099 Private	PRIVATE	2,393.95
8,110 Private	PRIVATE	15,911.19
8,111 Private	PRIVATE	7,239.73
8,112 Private	PRIVATE	28,379.47
8,116 Private	PRIVATE	1,455.56
8,117 Private	PRIVATE	6,535.34
8,120 Private	PRIVATE	1,609.52
8,124 Private	PRIVATE	5,607.62
8,130 Private	PRIVATE	7,247.07
8,138 Private	PRIVATE	3,753.99
8,151 Private	PRIVATE	544,105.54
8,221 Private	PRIVATE	4,011.95
8,224 Private	PRIVATE	34,612.06
8,225 Private	PRIVATE	1,604.78
8,226 Private	PRIVATE	6,454.84
8,230 Private	PRIVATE	1,605.14
8,245 Private	PRIVATE	8,880.17
8,246 Private	PRIVATE	5,643.83
8,253 Private	PRIVATE	8,865.59
8,254 Private	PRIVATE	27,200.10
8,255 Private	PRIVATE	5,567.92
8,258 Private	PRIVATE	928,622.80
8,262 Private	PRIVATE	4,018.39
8,265 Private	PRIVATE	1,611.01
8,267 Private	PRIVATE	7,202.36

8,268 Private	PRIVATE	1,608.80
8,272 Private	PRIVATE	16,169.00
8,277 Private	PRIVATE	8,853.47
8,278 Private	PRIVATE	39,331.22
8,282 Private	PRIVATE	9,242.39
8,296 Private	PRIVATE	2,838.05
8,301 Private	PRIVATE	3,064.80
8,303 Private	PRIVATE	1,610.44
8,312 Private	PRIVATE	1,609.53
8,316 Private	PRIVATE	1,606.02
8,318 Private	PRIVATE	3,211.91
8,319 Private	PRIVATE	84,781.49
8,320 Private	PRIVATE	9,229.46
8,323 Private	PRIVATE	2,405.93
8,326 Private	PRIVATE	21,938.58
8,331 Private	PRIVATE	10,600.05
8,339 Private	PRIVATE	3,224.39
8,353 Private	PRIVATE	2,350.50
8,369 Private	PRIVATE	6,442.14
8,371 Private	PRIVATE	2,404.37
8,387 Private	PRIVATE	2,405.59
8,398 Private	PRIVATE	1,606.06
8,416 Private	PRIVATE	7,256.92
8,423 Private	PRIVATE	20,898.70
8,424 Private	PRIVATE	2,344.58
8,429 Private	PRIVATE	6,434.93
8,434 Private	PRIVATE	2,193.30
8,455 Private	PRIVATE	14,004.26
8,466 Private	PRIVATE	13,344.75
8,514 Private	PRIVATE	36,331.49
8,541 Private	PRIVATE	28,987.66
8,548 Private	PRIVATE	15,308.46
8,558 Private	PRIVATE	6,447.50
8,583 Private	PRIVATE	9,570.65
8,588 Private	PRIVATE	2,437.18
8,598 Private	PRIVATE	15,318.88
8,606 Private	PRIVATE	570.3545845
8,633 Private	PRIVATE	8,057.43
8,647 Private	PRIVATE	14,686.36
8,656 Private	PRIVATE	24,390.22
8,675 Private	PRIVATE	4,195.16
8,686 Private	PRIVATE	4,033.09
8,703 Private	PRIVATE	15,280.19
8,755 Private	PRIVATE	5,536.52
8,769 Private	PRIVATE	609.5188983
8,816 Private	PRIVATE	4,083.94
8,821 Private	PRIVATE	3,696.45

8,825 Private	PRIVATE	4,020.21
8,839 Private	PRIVATE	3,442.03
8,861 Private	PRIVATE	219.5005509
8,867 Private	PRIVATE	239.3993205
8,868 Private	PRIVATE	60.76701624
8,881 Private	PRIVATE	37.98951142
8,890 Private	PRIVATE	702.3003198
8,920 Private	PRIVATE	31,098.63
9,398 Private	PRIVATE	221,657.50
11,894 State	STATE	7,455.81
11,901 State	STATE	6,419.64
11,903 State	STATE	3,217.37
11,910 State	STATE	2,451.10
11,918 State	STATE	6,435.03
11,931 State	STATE	1,398.40
11,934 State	STATE	3,231.09
11,943 State	STATE	2,415.30
11,945 State	STATE	8,030.12
11,946 State	STATE	4,049.00
11,948 State	STATE	1,099.14
11,949 State	STATE	6,559.74
11,950 State	STATE	2,389.54
11,951 State	STATE	3,208.46
11,952 State	STATE	1,611.54
11,954 State	STATE	7,220.39
11,958 State	STATE	2,417.89
11,959 State	STATE	3,221.40
11,961 State	STATE	1,598.46
11,964 State	STATE	2,470.59
11,967 State	STATE	3,888.87
11,969 State	STATE	2,410.86
11,971 State	STATE	1,612.85
11,973 State	STATE	1,602.01
11,974 State	STATE	6,461.93
11,978 State	STATE	3,193.37
11,979 State	STATE	2,415.28
11,980 State	STATE	5,612.93
11,982 State	STATE	1,611.93
11,985 State	STATE	4,851.32
11,986 State	STATE	1,612.86
11,987 State	STATE	4,800.87
11,988 State	STATE	1,584.44
11,990 State	STATE	1,611.65
11,991 State	STATE	1,605.48
11,992 State	STATE	1,612.90
11,994 State	STATE	1,602.94
11,995 State	STATE	3,237.23



11,997 State	STATE	1,607.92
11,999 State	STATE	6,463.52
12,001 State	STATE	1,623.21
12,002 State	STATE	1,607.26
12,004 State	STATE	6,435.11
12,005 State	STATE	1,607.74
12,006 State	STATE	3,791.92
12,008 State	STATE	2,414.45
12,010 State	STATE	2,285.64
12,011 State	STATE	2,390.31
12,013 State	STATE	1,585.97
12,018 State	STATE	1,599.68
12,019 State	STATE	1,620.53
12,021 State	STATE	1,609.28
12,022 State	STATE	8,029.04
12,023 State	STATE	1,586.78
12,025 State	STATE	4,810.36
12,032 State	STATE	22,351.06
12,035 State	STATE	5,674.66
12,039 State	STATE	1,614.43
12,041 State	STATE	2,408.21
12,042 State	STATE	1,610.73
12,043 State	STATE	1,616.38
12,044 State	STATE	2,398.61
12,050 State	STATE	4,038.83
12,052 State	STATE	1,574.51
12,054 State	STATE	2,411.53
12,056 State	STATE	1,610.76
12,058 State	STATE	1,613.05
12,059 State	STATE	2,412.62
12,060 State	STATE	1,604.77
12,063 State	STATE	1,607.22
12,067 State	STATE	2,396.86
12,068 State	STATE	6,444.01
12,070 State	STATE	4,781.61
12,073 State	STATE	6,449.13
12,075 State	STATE	2,395.79
12,076 State	STATE	1,629.09
12,078 State	STATE	2,408.13
12,080 State	STATE	1,603.58
12,081 State	STATE	1,606.03
12,086 State	STATE	8,775.30
12,091 State	STATE	1,380.61
12,094 State	STATE	5,605.75
12,099 State	STATE	2,332.38
12,102 State	STATE	13,632.65
12,110 State	STATE	1,595.11

12,113 State	STATE	1,600.61
12,119 State	STATE	1,614.30
12,121 State	STATE	1,599.73
12,122 State	STATE	1,602.86
12,126 State	STATE	1,601.48
12,127 State	STATE	1,618.05
12,129 State	STATE	1,596.80
12,135 State	STATE	2,388.48
12,139 State	STATE	1,612.73
12,144 State	STATE	2,390.36
12,145 State	STATE	4,770.74
12,147 State	STATE	6,441.76
12,150 State	STATE	6,470.95
12,157 State	STATE	1,583.11
12,162 State	STATE	1,613.23
12,168 State	STATE	1,980.49
12,172 State	STATE	6,358.24
12,173 State	STATE	5,374.37
12,189 State	STATE	6,420.86
12,193 State	STATE	4,046.65
12,209 State	STATE	1,595.79
12,214 State	STATE	8,589.21
12,219 State	STATE	4,875.51
12,241 State	STATE	618.463603
12,297 State	STATE	2,141.92
12,368 State	STATE	4,865.47
12,369 State	STATE	3,564.84
12,383 State	STATE	1,611.46
12,390 State	STATE	3,279.34
12,392 State	STATE	3,246.00
12,416 State	STATE	606.7436899
12,432 State	STATE	4,880.74
12,465 State	STATE	9,511.52
12,476 State	STATE	6,446.81
12,489 State	STATE	6,865.00
12,500 State	STATE	20,254.00
12,515 State	STATE	1,606.65
12,517 State	STATE	429.1330033
12,518 State	STATE	6,428.58
12,528 State	STATE	1,612.04
12,529 State	STATE	1,595.44
12,532 State	STATE	1,348.71
12,534 State	STATE	1,597.51
12,535 State	STATE	6,441.79
12,538 State	STATE	1,595.99
12,541 State	STATE	1,606.37
12,542 State	STATE	4,137.80

12,543 State	STATE	5,622.80
12,544 State	STATE	1,602.18
12,545 State	STATE	3,632.63
12,549 State	STATE	1,531.46
12,551 State	STATE	7,209.83
12,555 State	STATE	1,614.15
12,557 State	STATE	1,584.78
12,561 State	STATE	4,025.29
12,564 State	STATE	6,431.93
12,565 State	STATE	1,610.22
12,566 State	STATE	5,594.42
12,567 State	STATE	1,610.02
12,571 State	STATE	1,610.73
12,578 State	STATE	1,605.72
12,579 State	STATE	1,604.90
12,580 State	STATE	1,610.97
12,583 State	STATE	1,609.46
12,585 State	STATE	7,240.23
12,588 State	STATE	1,630.04
12,589 State	STATE	4,839.04
12,592 State	STATE	1,600.98
12,594 State	STATE	1,607.71
12,595 State	STATE	1,607.38
12,596 State	STATE	2,403.53
12,599 State	STATE	1,604.69
12,600 State	STATE	1,602.65
12,603 State	STATE	1,613.58
12,607 State	STATE	16,021.74
12,609 State	STATE	1,596.19
12,611 State	STATE	1,612.99
12,612 State	STATE	1,612.18
12,613 State	STATE	1,605.31
12,614 State	STATE	1,605.64
12,616 State	STATE	1,608.27
12,619 State	STATE	1,679.85
12,620 State	STATE	1,618.46
12,621 State	STATE	1,609.63
12,623 State	STATE	6,388.13
12,625 State	STATE	1,655.05
12,628 State	STATE	4,830.94
12,629 State	STATE	1,606.21
12,631 State	STATE	1,606.82
12,634 State	STATE	5,608.03
12,635 State	STATE	3,214.38
12,642 State	STATE	1,608.59
12,645 State	STATE	2,487.61
12,646 State	STATE	1,613.21

12,647 State	STATE	1,608.55
12,650 State	STATE	1,612.36
12,651 State	STATE	1,606.13
12,653 State	STATE	2,408.60
12,654 State	STATE	1,605.61
12,658 State	STATE	1,607.29
12,659 State	STATE	1,604.31
12,660 State	STATE	6,473.43
12,661 State	STATE	1,610.23
12,662 State	STATE	1,605.90
12,663 State	STATE	1,603.77
12,664 State	STATE	1,603.27
12,666 State	STATE	4,029.69
12,668 State	STATE	2,407.38
12,669 State	STATE	1,608.72
12,670 State	STATE	1,605.78
12,671 State	STATE	1,602.43
12,672 State	STATE	1,612.78
12,673 State	STATE	1,607.19
12,675 State	STATE	1,605.02
12,676 State	STATE	4,820.24
12,677 State	STATE	1,608.66
12,679 State	STATE	1,606.26
12,680 State	STATE	1,600.13
12,681 State	STATE	1,610.44
12,682 State	STATE	1,613.85
12,683 State	STATE	1,608.14
12,685 State	STATE	3,206.84
12,686 State	STATE	2,314.23
12,687 State	STATE	2,409.15
12,689 State	STATE	1,614.08
12,690 State	STATE	1,605.10
12,691 State	STATE	1,600.40
12,692 State	STATE	1,606.42
12,693 State	STATE	1,601.50
12,694 State	STATE	1,609.00
12,695 State	STATE	3,223.67
12,696 State	STATE	1,605.92
12,697 State	STATE	1,606.77
12,700 State	STATE	218,192.01
12,702 State	STATE	3,219.34
12,703 State	STATE	1,601.75
12,706 State	STATE	1,521.83
12,707 State	STATE	1,608.70
12,709 State	STATE	1,606.45
12,712 State	STATE	6,563.39
12,713 State	STATE	2,413.65

12,714 State	STATE	1,602.09
12,717 State	STATE	1,612.15
12,718 State	STATE	3,212.25
12,719 State	STATE	1,603.17
12,720 State	STATE	1,608.88
12,721 State	STATE	1,606.07
12,722 State	STATE	1,609.36
12,723 State	STATE	4,009.87
12,724 State	STATE	1,603.86
12,725 State	STATE	1,608.02
12,726 State	STATE	1,603.37
12,728 State	STATE	6,462.23
12,729 State	STATE	1,525.27
12,730 State	STATE	1,606.21
12,732 State	STATE	1,603.54
12,733 State	STATE	1,608.06
12,734 State	STATE	1,604.31
12,735 State	STATE	2,405.25
12,736 State	STATE	1,604.36
12,737 State	STATE	1,606.66
12,739 State	STATE	1,608.24
12,740 State	STATE	2,403.98
12,742 State	STATE	1,606.81
12,743 State	STATE	1,605.03
12,744 State	STATE	6,437.41
12,747 State	STATE	1,603.74
12,749 State	STATE	1,604.70
12,750 State	STATE	5,730.56
12,752 State	STATE	1,603.35
12,756 State	STATE	1,602.15
12,758 State	STATE	8,028.30
12,759 State	STATE	6,449.46
12,762 State	STATE	1,601.90
12,763 State	STATE	3,218.93
12,768 State	STATE	6,449.60
12,769 State	STATE	1,604.76
12,770 State	STATE	28,122.17
12,771 State	STATE	1,604.95
12,772 State	STATE	1,603.50
12,773 State	STATE	6,491.85
12,774 State	STATE	2,410.46
12,775 State	STATE	8,053.49
12,776 State	STATE	5,801.08
12,777 State	STATE	3,205.67
12,778 State	STATE	1,604.97
12,779 State	STATE	20,805.83
12,780 State	STATE	1,604.94

12,782 State	STATE	4,032.37
12,785 State	STATE	1,604.14
12,786 State	STATE	6,417.19
12,788 State	STATE	1,605.12
12,798 State	STATE	1,605.13
12,824 State	STATE	1,609.92
12,825 State	STATE	6,463.92
12,828 State	STATE	192,559.17
12,830 State	STATE	6,438.20
12,833 State	STATE	1,611.32
12,836 State	STATE	8,053.18
12,837 State	STATE	2,417.83
12,838 State	STATE	1,612.19
12,840 State	STATE	13,687.55
12,841 State	STATE	3,218.27
12,844 State	STATE	2,398.39
12,845 State	STATE	6,441.10
12,846 State	STATE	6,305.74
12,847 State	STATE	1,616.27
12,850 State	STATE	1,607.59
12,851 State	STATE	807.4573201
12,852 State	STATE	1,617.12
12,853 State	STATE	39,442.64
12,855 State	STATE	6,405.76
12,856 State	STATE	1,404.99
12,858 State	STATE	1,612.06
12,860 State	STATE	7,246.71
12,861 State	STATE	11,260.27
12,862 State	STATE	6,449.65
12,863 State	STATE	1,613.26
12,864 State	STATE	13,015.30
12,865 State	STATE	1,611.84
12,867 State	STATE	2,419.20
12,868 State	STATE	1,612.03
12,869 State	STATE	826.154936
12,871 State	STATE	4,034.67
12,873 State	STATE	1,614.24
12,874 State	STATE	1,610.45
12,875 State	STATE	6,439.24
12,877 State	STATE	1,613.22
12,878 State	STATE	1,611.25
12,879 State	STATE	1,615.18
12,880 State	STATE	1,610.64
12,882 State	STATE	1,610.80
12,883 State	STATE	1,610.63
12,884 State	STATE	1,612.24
12,885 State	STATE	1,144.42

12,886 State	STATE	1,610.56
12,887 State	STATE	1,383.78
12,888 State	STATE	6,430.80
12,889 State	STATE	1,615.17
12,891 State	STATE	1,609.92
12,892 State	STATE	1,611.04
12,893 State	STATE	2,391.49
12,896 State	STATE	1,610.95
12,898 State	STATE	1,605.96
12,901 State	STATE	1,606.50
12,902 State	STATE	1,608.16
12,905 State	STATE	1,606.59
12,906 State	STATE	807.1232125
12,908 State	STATE	1,605.92
12,909 State	STATE	1,611.70
12,910 State	STATE	6,456.11
12,912 State	STATE	3,227.57
12,913 State	STATE	1,607.57
12,916 State	STATE	807.3753778
12,918 State	STATE	1,610.61
12,920 State	STATE	1,607.63
12,922 State	STATE	1,607.60
12,923 State	STATE	1,615.90
12,924 State	STATE	1,608.47
12,926 State	STATE	1,980.35
12,927 State	STATE	6,405.04
12,934 State	STATE	6,434.26
12,940 State	STATE	11,208.46
12,942 State	STATE	4,838.66
12,943 State	STATE	6,440.82
12,948 State	STATE	1,615.53
12,951 State	STATE	6,452.90
12,959 State	STATE	1,509.98
12,960 State	STATE	1,606.46
12,963 State	STATE	1,461.10
12,973 State	STATE	6,489.19
12,983 State	STATE	1,614.19
12,992 State	STATE	4,865.19
12,994 State	STATE	6,418.28
12,999 State	STATE	1,397.36
13,004 State	STATE	6,495.46
13,007 State	STATE	7,255.96
13,016 State	STATE	129,809.41
13,017 State	STATE	1,608.72
13,018 State	STATE	6,486.16
13,021 State	STATE	6,445.82
13,022 State	STATE	1,606.20

13,024 State	STATE	1,606.80
13,026 State	STATE	4,021.88
13,027 State	STATE	3,220.14
13,028 State	STATE	6,494.27
13,029 State	STATE	1,606.42
13,031 State	STATE	7,247.25
13,032 State	STATE	1,609.81
13,034 State	STATE	1,609.84
13,035 State	STATE	2,409.98
13,040 State	STATE	7,267.18
13,041 State	STATE	24,136.42
13,042 State	STATE	2,855.10
13,050 State	STATE	3,223.69
13,051 State	STATE	8,894.70
13,052 State	STATE	2,444.32
13,053 State	STATE	8,048.78
13,054 State	STATE	6,424.13
13,055 State	STATE	6,428.44
13,058 State	STATE	1,830.47
13,061 State	STATE	4,042.18
13,065 State	STATE	6,468.75
13,068 State	STATE	6,442.66
13,076 State	STATE	3,820.28
13,081 State	STATE	6,441.34
13,083 State	STATE	4,200.58
13,101 State	STATE	10,040.82
13,103 State	STATE	6,370.34
13,104 State	STATE	6,443.14
13,106 State	STATE	6,425.79
13,118 State	STATE	6,434.03
13,126 State	STATE	1,603.35
13,133 State	STATE	6,424.26
13,138 State	STATE	6,434.80
13,148 State	STATE	6,112.44
13,150 State	STATE	6,422.71
13,152 State	STATE	6,441.69
13,153 State	STATE	6,428.93
13,162 State	STATE	4,024.75
13,167 State	STATE	6,437.71
13,169 State	STATE	6,436.77
13,182 State	STATE	6,444.20
13,183 State	STATE	6,422.43
13,184 State	STATE	6,439.06
13,201 State	STATE	6,444.71
13,225 State	STATE	6,441.43
13,254 State	STATE	6,434.93
13,260 State	STATE	6,462.79



13,288 State	STATE	6,398.53
13,307 State	STATE	35,183.80
13,323 State	STATE	6,479.95
13,324 State	STATE	6,455.73
13,339 State	STATE	6,441.92
13,347 State	STATE	4,302.45
13,356 State	STATE	6,432.25
13,369 State	STATE	3,396.96
13,373 State	STATE	5,922.42
13,380 State	STATE	6,445.16
13,400 State	STATE	4,822.61
13,435 State	STATE	7,276.58
13,454 State	STATE	6,466.08
13,497 State	STATE	6,465.98
13,510 State	STATE	6,442.44
13,560 State	STATE	6,448.91
13,577 State	STATE	6,531.17
13,599 State	STATE	4,850.47
13,611 State	STATE	6,538.11
13,628 State	STATE	6,435.28
13,686 State	STATE	105.5671572
13,687 State	STATE	6,370.86
13,689 State	STATE	6,434.98
15,140 USFS	USFS	65.04510431
15,165 USFS	USFS	332,993.06
15,167 USFS	USFS	1,607.84
15,175 USFS	USFS	355,676.86
15,185 USFS	USFS	286,151.28
15,262 USFS	USFS	327,294.95
1,720 BLM	BLM	2,412.82
1,745 BLM	BLM	1,387.22
1,768 BLM	BLM	2,424.49
1,769 BLM	BLM	859.43199
1,795 BLM	BLM	3,321.12
1,810 BLM	BLM	2,415.37
1,811 BLM	BLM	4,001.92
1,818 BLM	BLM	3,314.10
1,820 BLM	BLM	3,224.94
1,825 BLM	BLM	1,609.10
1,827 BLM	BLM	3,979.42
1,839 BLM	BLM	536.6955332
1,840 BLM	BLM	3,061.43
1,846 BLM	BLM	1,621.70
1,848 BLM	BLM	4,020.49
1,859 BLM	BLM	1,254.88
1,873 BLM	BLM	4,017.39
1,879 BLM	BLM	1,603.60

1,883 BLM	BLM	3,221.03
1,894 BLM	BLM	3,487.49
1,895 BLM	BLM	5,639.72
1,900 BLM	BLM	4,017.84
1,902 BLM	BLM	4,014.73
1,903 BLM	BLM	1,607.96
1,917 BLM	BLM	1,604.74
1,924 BLM	BLM	39,539.70
1,928 BLM	BLM	3,137.69
1,931 BLM	BLM	1,609.38
1,935 BLM	BLM	25,571.19
1,939 BLM	BLM	1,612.36
1,940 BLM	BLM	3,258.38
1,951 BLM	BLM	4,003.03
1,952 BLM	BLM	11,631.74
1,953 BLM	BLM	6,895.01
1,959 BLM	BLM	2,410.61
1,961 BLM	BLM	4,812.15
1,984 BLM	BLM	1,610.00
1,988 BLM	BLM	9,649.05
1,992 BLM	BLM	2,403.40
1,998 BLM	BLM	10,464.39
2,000 BLM	BLM	7,278.37
2,009 BLM	BLM	1,619.59
2,014 BLM	BLM	1,608.69
2,021 BLM	BLM	1,609.44
2,023 BLM	BLM	2,871.11
2,028 BLM	BLM	4,208.09
2,037 BLM	BLM	1,611.09
2,044 BLM	BLM	4,690.35
2,048 BLM	BLM	1,608.42
2,052 BLM	BLM	11,215.97
2,056 BLM	BLM	127,256.96
2,058 BLM	BLM	23,245.92
2,060 BLM	BLM	2,408.20
2,066 BLM	BLM	9,856.63
2,074 BLM	BLM	53,399.70
2,079 BLM	BLM	2,400.83
2,082 BLM	BLM	545.6677092
2,098 BLM	BLM	4,032.67
2,102 BLM	BLM	1,588.41
2,130 BLM	BLM	4,006.54
2,155 BLM	BLM	3,315.58
2,166 BLM	BLM	5,548.31
2,186 BLM	BLM	22,843.09
2,213 BLM	BLM	1,613.15
2,216 BLM	BLM	2,421.50

2,224 BLM	BLM	3,625.47
2,234 BLM	BLM	1,603.12
2,235 BLM	BLM	3,774.37
2,238 BLM	BLM	1,610.59
2,245 BLM	BLM	2,407.84
2,249 BLM	BLM	1,607.13
2,251 BLM	BLM	75,692.16
2,253 BLM	BLM	1,609.98
2,255 BLM	BLM	1,612.02
2,256 BLM	BLM	141.3640122
2,257 BLM	BLM	3,966.86
2,263 BLM	BLM	3,213.76
2,267 BLM	BLM	3,225.34
2,275 BLM	BLM	1,609.60
2,286 BLM	BLM	5,746.17
2,288 BLM	BLM	2,421.50
2,292 BLM	BLM	859.0087882
2,297 BLM	BLM	1,577.37
2,299 BLM	BLM	968.6834869
2,350 BLM	BLM	9,292.03
2,387 BLM	BLM	10,462.75
2,389 BLM	BLM	806.5863813
2,404 BLM	BLM	1,613.54
2,408 BLM	BLM	48,539.59
2,428 BLM	BLM	1,620.12
2,460 BLM	BLM	1,615.28
2,464 BLM	BLM	1,603.51
2,483 BLM	BLM	1,609.33
2,524 BLM	BLM	1,608.69
2,571 BLM	BLM	5,632.19
2,594 BLM	BLM	1,610.77
2,597 BLM	BLM	1,606.59
2,601 BLM	BLM	16,102.54
2,639 BLM	BLM	9,655.69
2,648 BLM	BLM	332,429.93
2,650 BLM	BLM	3,229.31
2,651 BLM	BLM	2,415.39
2,660 BLM	BLM	3,996.68
2,664 BLM	BLM	1,609.15
2,671 BLM	BLM	1,616.16
2,674 BLM	BLM	1,613.86
2,677 BLM	BLM	20,092.94
2,684 BLM	BLM	1,610.72
2,704 BLM	BLM	1,608.41
2,705 BLM	BLM	3,207.15
2,707 BLM	BLM	1,608.90
2,711 BLM	BLM	1,610.01

2,712 BLM	BLM	1,610.81
2,713 BLM	BLM	1,606.91
2,714 BLM	BLM	1,608.47
2,716 BLM	BLM	1,610.65
2,717 BLM	BLM	3,221.67
2,718 BLM	BLM	1,607.07
2,720 BLM	BLM	1,610.16
2,722 BLM	BLM	1,607.31
2,725 BLM	BLM	3,215.94
2,726 BLM	BLM	1,610.46
2,727 BLM	BLM	2,420.75
2,729 BLM	BLM	1,609.27
2,738 BLM	BLM	10,258.50
2,752 BLM	BLM	14,201.00
2,768 BLM	BLM	10,932.85
2,779 BLM	BLM	798.1394266
2,783 BLM	BLM	1,501.50
2,789 BLM	BLM	3,573.92
2,791 BLM	BLM	4,907.97
2,794 BLM	BLM	2,419.65
2,798 BLM	BLM	1,606.43
2,801 BLM	BLM	1,618.40
2,810 BLM	BLM	1,617.02
2,813 BLM	BLM	6,460.02
2,816 BLM	BLM	15,732.39
2,818 BLM	BLM	1,612.04
2,820 BLM	BLM	8,818.29
2,821 BLM	BLM	9,264.55
2,822 BLM	BLM	1,556.97
2,827 BLM	BLM	28,892.09
2,828 BLM	BLM	1,128.82
2,829 BLM	BLM	2,408.70
2,830 BLM	BLM	2,070.58
2,834 BLM	BLM	121,572.44
2,836 BLM	BLM	12,888.13
2,837 BLM	BLM	2,409.88
2,839 BLM	BLM	3,246.91
2,841 BLM	BLM	2,406.27
2,844 BLM	BLM	11,924.02
2,845 BLM	BLM	1,592.97
2,848 BLM	BLM	17,758.75
2,850 BLM	BLM	1,613.86
2,851 BLM	BLM	2,389.87
2,852 BLM	BLM	1,602.21
2,853 BLM	BLM	1,610.66
2,854 BLM	BLM	5,278.19
2,855 BLM	BLM	6,518.89

2,861 BLM	BLM	692.0426269
2,867 BLM	BLM	3,548.12
2,870 BLM	BLM	259.3010942
2,873 BLM	BLM	14,455.08
2,877 BLM	BLM	3,610.90
2,891 BLM	BLM	72.83568051
2,932 BLM	BLM	1,570.74
2,960 BLM	BLM	17,531.80
2,978 BLM	BLM	1,574.56
2,979 BLM	BLM	7,150.44
2,984 BLM	BLM	7,235.60
2,988 BLM	BLM	11,754.93
3,001 BLM	BLM	14,274.19
3,059 BLM	BLM	1,610.46
3,151 BLM	BLM	3,228.53
3,362 BLM	BLM	1,900,720.15
3,384 BLM	BLM	2,408.11
3,468 BLM	BLM	140,470.64
3,563 BLM	BLM	310,661.30
3,574 BLM	BLM	14,340.70
3,608 BLM	BLM	5,665.88
3,683 BLM	BLM	88,536.57
3,733 BLM	BLM	27,209.64
3,812 BLM	BLM	202,690.33
4,738 Other Federal	BOR	3,343.13
4,842 Other Federal	BOR	1,274.19
4,846 Other Federal	BOR	3,856.61
4,975 Other Federal	DOE	8,838.34
4,976 Other Federal	DOE	105,925.63
5,147 HSTRCWTR	HSTRCWTR	3,910.16
5,151 HSTRCWTR	HSTRCWTR	7,073.70
5,246 HSTRCWTR	HSTRCWTR	33,656.70
7,259 Private	PRIVATE	4,049.60
7,300 Private	PRIVATE	1,329.36
7,302 Private	PRIVATE	1,284.17
7,305 Private	PRIVATE	3,117.00
7,313 Private	PRIVATE	1,278.13
7,314 Private	PRIVATE	5,556.84
7,315 Private	PRIVATE	10,410.71
7,317 Private	PRIVATE	122.7259717
7,318 Private	PRIVATE	1,170.02
7,319 Private	PRIVATE	2,483.80
7,320 Private	PRIVATE	4,397.30
7,323 Private	PRIVATE	1,604.56
7,329 Private	PRIVATE	1,145.96
7,336 Private	PRIVATE	8,872.97
7,338 Private	PRIVATE	3,741.24

7,339 Private	PRIVATE	21,097.29
7,348 Private	PRIVATE	4,014.56
7,351 Private	PRIVATE	4,313.65
7,355 Private	PRIVATE	1,610.19
7,358 Private	PRIVATE	3,725.75
7,360 Private	PRIVATE	1,616.97
7,365 Private	PRIVATE	71,915.38
7,366 Private	PRIVATE	6,404.69
7,368 Private	PRIVATE	1,609.83
7,370 Private	PRIVATE	7,274.49
7,371 Private	PRIVATE	5,574.99
7,375 Private	PRIVATE	1,609.53
7,377 Private	PRIVATE	2,184.55
7,378 Private	PRIVATE	1,600.75
7,379 Private	PRIVATE	1,614.42
7,382 Private	PRIVATE	4,494.61
7,384 Private	PRIVATE	5,538.23
7,385 Private	PRIVATE	8,838.28
7,389 Private	PRIVATE	5,081.99
7,390 Private	PRIVATE	1,595.56
7,408 Private	PRIVATE	1,119.68
7,409 Private	PRIVATE	1,607.59
7,411 Private	PRIVATE	9,433.01
7,416 Private	PRIVATE	1,595.49
7,419 Private	PRIVATE	6,704.24
7,420 Private	PRIVATE	3,217.24
7,421 Private	PRIVATE	1,602.13
7,428 Private	PRIVATE	1,607.53
7,431 Private	PRIVATE	5,646.56
7,432 Private	PRIVATE	8,808.35
7,434 Private	PRIVATE	1,597.33
7,448 Private	PRIVATE	1,398.97
7,454 Private	PRIVATE	7,421.97
7,455 Private	PRIVATE	398,197.38
7,476 Private	PRIVATE	1,471.25
7,496 Private	PRIVATE	5,641.40
7,512 Private	PRIVATE	4,008.91
7,520 Private	PRIVATE	61,089.67
7,777 Private	PRIVATE	38,467.08
7,793 Private	PRIVATE	231,473.37
7,799 Private	PRIVATE	8,465.39
7,812 Private	PRIVATE	1,609.93
7,815 Private	PRIVATE	65,887.32
7,816 Private	PRIVATE	2,890.41
7,819 Private	PRIVATE	1,611.12
7,822 Private	PRIVATE	4,884.12
7,845 Private	PRIVATE	786.9772876

7,846 Private	PRIVATE	3,400.48
7,852 Private	PRIVATE	10,249.09
7,855 Private	PRIVATE	4,004.68
7,874 Private	PRIVATE	1,772.54
7,890 Private	PRIVATE	26,522.34
7,895 Private	PRIVATE	4,083.84
7,897 Private	PRIVATE	3,867.33
7,909 Private	PRIVATE	3,220.30
7,937 Private	PRIVATE	3,571.24
7,973 Private	PRIVATE	6,443.92
7,975 Private	PRIVATE	8,804.08
7,986 Private	PRIVATE	1,606.64
7,987 Private	PRIVATE	7,446.52
7,989 Private	PRIVATE	8,609.27
7,993 Private	PRIVATE	973.2159936
8,004 Private	PRIVATE	195,588.07
8,007 Private	PRIVATE	1,613.84
8,012 Private	PRIVATE	5,304.14
8,014 Private	PRIVATE	19,334.50
8,020 Private	PRIVATE	3,219.47
8,023 Private	PRIVATE	9,631.03
8,026 Private	PRIVATE	22,481.73
8,032 Private	PRIVATE	792.5114651
8,039 Private	PRIVATE	9,406.63
8,051 Private	PRIVATE	1,614.86
8,058 Private	PRIVATE	1,614.77
8,073 Private	PRIVATE	1,611.97
8,080 Private	PRIVATE	38,779.11
8,091 Private	PRIVATE	3,223.17
8,093 Private	PRIVATE	618.5652441
8,115 Private	PRIVATE	1,607.82
8,119 Private	PRIVATE	1,603.67
8,151 Private	PRIVATE	181,306.62
8,216 Private	PRIVATE	8,843.89
8,217 Private	PRIVATE	40,523.78
8,228 Private	PRIVATE	15,349.80
8,229 Private	PRIVATE	1,249.38
8,231 Private	PRIVATE	6,494.25
8,233 Private	PRIVATE	1,829.46
8,234 Private	PRIVATE	431.3246322
8,237 Private	PRIVATE	77,724.83
8,241 Private	PRIVATE	4,051.28
8,248 Private	PRIVATE	1,310.18
8,252 Private	PRIVATE	8,962.08
8,255 Private	PRIVATE	7,766.41
8,258 Private	PRIVATE	467,465.89
8,270 Private	PRIVATE	4,834.32

8,271 Private	PRIVATE	4,837.11
8,273 Private	PRIVATE	3,633.65
8,300 Private	PRIVATE	6,426.49
8,311 Private	PRIVATE	4,076.52
8,313 Private	PRIVATE	5,668.48
8,317 Private	PRIVATE	12,062.87
8,322 Private	PRIVATE	4,035.22
8,324 Private	PRIVATE	4,027.23
8,331 Private	PRIVATE	15,670.63
8,347 Private	PRIVATE	3,778.70
8,355 Private	PRIVATE	12,897.24
8,357 Private	PRIVATE	6,442.15
8,360 Private	PRIVATE	9,550.87
8,371 Private	PRIVATE	3,195.77
8,412 Private	PRIVATE	2,337.98
8,422 Private	PRIVATE	23.65970823
8,434 Private	PRIVATE	2,737.08
8,441 Private	PRIVATE	3,589.11
8,455 Private	PRIVATE	6,452.94
8,466 Private	PRIVATE	5,327.81
8,480 Private	PRIVATE	3,851.19
8,509 Private	PRIVATE	3,504.95
8,523 Private	PRIVATE	3,884.38
8,525 Private	PRIVATE	1,602.92
8,545 Private	PRIVATE	1,071.24
8,571 Private	PRIVATE	2,286.56
8,572 Private	PRIVATE	2,416.81
8,576 Private	PRIVATE	430.564521
8,580 Private	PRIVATE	4,024.25
8,588 Private	PRIVATE	28,262.05
8,593 Private	PRIVATE	8,874.46
8,598 Private	PRIVATE	67,107.98
8,604 Private	PRIVATE	33,056.80
8,625 Private	PRIVATE	3,726.36
8,634 Private	PRIVATE	5,324.60
8,691 Private	PRIVATE	25,752.03
8,699 Private	PRIVATE	18,585.52
8,726 Private	PRIVATE	918.7245907
8,778 Private	PRIVATE	8,518.61
8,819 Private	PRIVATE	15,858.38
8,822 Private	PRIVATE	492.2219384
8,823 Private	PRIVATE	290.4357129
8,824 Private	PRIVATE	2,408.51
8,829 Private	PRIVATE	6,834.55
8,862 Private	PRIVATE	7,156.22
8,864 Private	PRIVATE	94,886.39
8,873 Private	PRIVATE	4,205.53



8,920 Private	PRIVATE	21,385.47
8,940 Private	PRIVATE	4,103.38
8,941 Private	PRIVATE	3,771.23
8,953 Private	PRIVATE	94,124.06
8,955 Private	PRIVATE	8,041.52
8,964 Private	PRIVATE	1,295.57
8,966 Private	PRIVATE	2,415.31
8,967 Private	PRIVATE	4,031.57
8,968 Private	PRIVATE	6,973.34
8,970 Private	PRIVATE	189.9222807
8,972 Private	PRIVATE	2,433.70
8,975 Private	PRIVATE	1,273.40
8,976 Private	PRIVATE	3,072.94
8,983 Private	PRIVATE	5,604.09
8,988 Private	PRIVATE	3,230.25
8,994 Private	PRIVATE	31,962.62
8,995 Private	PRIVATE	8,413.51
8,999 Private	PRIVATE	1,353.21
9,015 Private	PRIVATE	5,131.43
9,019 Private	PRIVATE	1,613.84
9,036 Private	PRIVATE	9,394.66
9,045 Private	PRIVATE	1,601.89
9,058 Private	PRIVATE	6,404.81
9,066 Private	PRIVATE	3,714.93
9,072 Private	PRIVATE	8,037.74
9,084 Private	PRIVATE	1,725.58
9,118 Private	PRIVATE	2,401.47
9,220 Private	PRIVATE	871.5040951
9,228 Private	PRIVATE	10,394.15
9,238 Private	PRIVATE	5,792.75
9,250 Private	PRIVATE	1,618.53
9,257 Private	PRIVATE	3,423.07
9,398 Private	PRIVATE	318,832.83
9,576 Private	PRIVATE	27,885.14
11,964 State	STATE	2,082.53
12,000 State	STATE	2,974.19
12,016 State	STATE	1,616.00
12,029 State	STATE	3,219.66
12,053 State	STATE	2,432.86
12,064 State	STATE	2,411.71
12,065 State	STATE	6,502.30
12,069 State	STATE	9,633.44
12,082 State	STATE	4,132.54
12,090 State	STATE	1,590.24
12,091 State	STATE	1,225.12
12,099 State	STATE	7,094.91
12,101 State	STATE	1,594.72

12,103 State	STATE	7,491.02
12,111 State	STATE	6,423.25
12,118 State	STATE	1,604.21
12,125 State	STATE	2,412.91
12,128 State	STATE	1,597.77
12,133 State	STATE	2,397.54
12,134 State	STATE	1,609.89
12,137 State	STATE	2,519.02
12,140 State	STATE	1,610.32
12,141 State	STATE	10,793.19
12,145 State	STATE	1,124.64
12,151 State	STATE	1,508.78
12,156 State	STATE	1,597.00
12,158 State	STATE	4,808.40
12,165 State	STATE	1,606.43
12,167 State	STATE	1,597.92
12,168 State	STATE	3,029.54
12,169 State	STATE	1,610.21
12,173 State	STATE	14,470.56
12,174 State	STATE	1,609.88
12,176 State	STATE	1,585.72
12,177 State	STATE	3,222.68
12,179 State	STATE	5,620.13
12,180 State	STATE	1,609.45
12,182 State	STATE	1,614.24
12,184 State	STATE	1,609.16
12,186 State	STATE	1,020.95
12,191 State	STATE	2,399.05
12,192 State	STATE	990.5456362
12,194 State	STATE	1,608.64
12,197 State	STATE	1,601.31
12,198 State	STATE	1,602.04
12,200 State	STATE	1,410.66
12,203 State	STATE	1,589.33
12,205 State	STATE	7,356.62
12,206 State	STATE	365.2312872
12,210 State	STATE	1,602.03
12,211 State	STATE	1,596.62
12,212 State	STATE	5,317.13
12,214 State	STATE	6,134.33
12,216 State	STATE	2,425.94
12,217 State	STATE	6,442.20
12,218 State	STATE	1,591.26
12,220 State	STATE	2,948.27
12,222 State	STATE	1,630.15
12,226 State	STATE	1,602.80
12,227 State	STATE	2,395.94

12,228 State	STATE	6,442.86
12,231 State	STATE	1,605.36
12,234 State	STATE	2,410.68
12,241 State	STATE	4,618.59
12,243 State	STATE	4,850.62
12,249 State	STATE	4,046.12
12,251 State	STATE	6,377.12
12,252 State	STATE	1,610.18
12,259 State	STATE	5,749.24
12,260 State	STATE	8,041.28
12,263 State	STATE	6,425.25
12,276 State	STATE	5,680.11
12,280 State	STATE	2,149.43
12,282 State	STATE	8,019.24
12,287 State	STATE	1,601.79
12,289 State	STATE	2,408.67
12,293 State	STATE	1,488.60
12,294 State	STATE	3,188.66
12,295 State	STATE	27,351.18
12,297 State	STATE	6,095.20
12,299 State	STATE	4,900.33
12,303 State	STATE	2,409.97
12,305 State	STATE	4,021.12
12,306 State	STATE	1,610.38
12,312 State	STATE	6,329.92
12,313 State	STATE	3,211.65
12,317 State	STATE	4,479.71
12,318 State	STATE	2,411.40
12,319 State	STATE	3,208.54
12,325 State	STATE	6,439.07
12,326 State	STATE	1,609.50
12,329 State	STATE	3,181.82
12,331 State	STATE	7,894.08
12,335 State	STATE	1,710.30
12,341 State	STATE	6,440.51
12,342 State	STATE	20,416.62
12,348 State	STATE	1,194.39
12,353 State	STATE	5,626.39
12,355 State	STATE	6,429.35
12,357 State	STATE	1,838.41
12,358 State	STATE	3,971.73
12,361 State	STATE	1,797.85
12,372 State	STATE	6,459.07
12,378 State	STATE	6,457.25
12,382 State	STATE	26,854.97
12,402 State	STATE	3,287.15
12,423 State	STATE	7,217.44

12,430 State	STATE	6,424.66
12,434 State	STATE	6,436.77
12,444 State	STATE	11,236.60
12,460 State	STATE	3,049.06
12,461 State	STATE	2,996.05
12,464 State	STATE	3,253.00
12,500 State	STATE	24,905.61
12,516 State	STATE	6,403.17
12,521 State	STATE	1,609.08
12,544 State	STATE	271.0563217
12,548 State	STATE	1,607.03
12,549 State	STATE	888.8874058
12,557 State	STATE	303.4055729
12,566 State	STATE	9,456.03
12,574 State	STATE	6,415.91
12,586 State	STATE	8,201.97
12,587 State	STATE	6,452.11
12,601 State	STATE	2,411.44
12,602 State	STATE	6,109.84
12,615 State	STATE	6,466.54
12,622 State	STATE	8,030.71
12,632 State	STATE	6,443.03
12,633 State	STATE	11,229.82
12,645 State	STATE	6,417.46
12,660 State	STATE	4,814.28
12,710 State	STATE	1,712.98
12,750 State	STATE	4,708.10
12,828 State	STATE	16,316.88
12,851 State	STATE	4,822.26
12,861 State	STATE	12,893.92
12,869 State	STATE	3,986.22
12,876 State	STATE	1,602.57
12,885 State	STATE	49,504.20
12,893 State	STATE	2,188.61
12,903 State	STATE	1,609.68
12,904 State	STATE	1,615.66
12,906 State	STATE	1,607.15
12,911 State	STATE	10,495.90
12,912 State	STATE	1,606.07
12,915 State	STATE	1,610.36
12,916 State	STATE	1,607.80
12,919 State	STATE	1,610.73
12,923 State	STATE	8,017.05
12,926 State	STATE	372.7212799
12,932 State	STATE	1,608.63
12,935 State	STATE	2,418.50
12,939 State	STATE	4,023.46

12,940 State	STATE	12,852.67
12,950 State	STATE	1,610.38
12,952 State	STATE	1,612.69
12,953 State	STATE	1,606.85
12,955 State	STATE	1,613.33
12,957 State	STATE	1,613.86
12,958 State	STATE	1,612.98
12,959 State	STATE	6,130.63
12,961 State	STATE	1,612.63
12,965 State	STATE	27,896.35
12,966 State	STATE	2,422.17
12,974 State	STATE	2,104.77
12,981 State	STATE	5,636.50
12,986 State	STATE	6,458.46
12,988 State	STATE	3,766.05
12,990 State	STATE	6,396.31
12,993 State	STATE	6,459.97
12,995 State	STATE	2,418.64
13,005 State	STATE	4,849.00
13,009 State	STATE	13,410.88
13,016 State	STATE	21,718.71
13,043 State	STATE	6,440.96
13,046 State	STATE	4,087.49
13,047 State	STATE	6,457.61
13,057 State	STATE	6,444.43
13,059 State	STATE	6,142.92
13,063 State	STATE	8,028.60
13,069 State	STATE	2,343.97
13,073 State	STATE	6,375.66
13,082 State	STATE	8,008.89
13,086 State	STATE	38,359.18
13,087 State	STATE	5,664.19
13,091 State	STATE	67,149.34
13,098 State	STATE	1,596.65
13,099 State	STATE	6,418.44
13,108 State	STATE	16,881.37
13,109 State	STATE	2,389.40
13,110 State	STATE	5,058.97
13,111 State	STATE	2,431.74
13,115 State	STATE	3,217.14
13,117 State	STATE	2,404.09
13,128 State	STATE	13,348.17
13,129 State	STATE	5,252.16
13,135 State	STATE	42,644.34
13,137 State	STATE	7,241.05
13,145 State	STATE	3,846.47
13,148 State	STATE	4,525.88

13,160 State	STATE	6,409.79
13,175 State	STATE	4,037.96
13,178 State	STATE	4,551.45
13,183 State	STATE	2,933.99
13,190 State	STATE	5,630.97
13,216 State	STATE	6,444.79
13,252 State	STATE	6,417.18
13,254 State	STATE	3,238.98
13,292 State	STATE	6,446.86
13,298 State	STATE	616.4876196
13,301 State	STATE	6,440.92
13,302 State	STATE	6,185.17
13,303 State	STATE	599.8319325
13,304 State	STATE	6,431.71
13,306 State	STATE	3,649.00
13,319 State	STATE	1,823.16
13,323 State	STATE	335.1029419
13,330 State	STATE	944.3085463
13,347 State	STATE	5,871.81
13,349 State	STATE	1,062.99
13,361 State	STATE	5,818.62
13,373 State	STATE	3,574.78
13,378 State	STATE	6,456.59
13,393 State	STATE	6,383.88
13,401 State	STATE	6,421.93
13,431 State	STATE	6,477.98
13,437 State	STATE	4,004.62
13,446 State	STATE	6,462.75
13,448 State	STATE	6,509.31
13,476 State	STATE	6,446.86
13,494 State	STATE	6,450.83
13,496 State	STATE	6,421.25
13,508 State	STATE	6,489.47
13,516 State	STATE	6,440.31
13,531 State	STATE	6,418.75
13,572 State	STATE	6,444.24
13,627 State	STATE	5,012.27
13,663 State	STATE	6,399.62
13,666 State	STATE	125.4703814
13,691 State	STATE	768.97761
13,730 State	STATE	6,483.14
13,741 State	STATE	7,850.84
13,760 State	STATE	6,131.47
13,775 State	STATE	6,422.95
13,787 State	STATE	8,031.11
13,812 State	STATE	1,604.06
13,816 State	STATE	1,607.26

13,862 State	STATE	7,932.37
13,873 State	STATE	1,552.24
13,876 State	STATE	9,548.74
13,908 State	STATE	8,479.89
13,941 State	STATE	6,740.83
14,017 State	STATE	18,427.92
14,074 State	STATE	6,400.94
14,082 State	STATE	4,775.12
14,110 State	STATE	6,519.68
14,130 State	STATE	5,431.84
14,161 State	STATE	4,328.56
14,175 State	STATE	4,803.35
15,008 USFS	USFS	6,111.90
15,009 USFS	USFS	4,839.40
15,010 USFS	USFS	21,183.62
15,011 USFS	USFS	5,320.39
15,012 USFS	USFS	1,604.99
15,013 USFS	USFS	1,597.45
15,014 USFS	USFS	1,532.76
15,015 USFS	USFS	1,608.40
15,016 USFS	USFS	19,528.33
15,017 USFS	USFS	1,263.94
15,018 USFS	USFS	7,698.04
15,024 USFS	USFS	1,611.29
15,025 USFS	USFS	12,521.59
15,026 USFS	USFS	7,194.60
15,070 USFS	USFS	35,812.78
15,108 USFS	USFS	1,253.11
15,110 USFS	USFS	2,764.34
15,111 USFS	USFS	2,421.93
15,112 USFS	USFS	420.9664539
15,113 USFS	USFS	289.8153551
15,162 USFS	USFS	303.293111
15,165 USFS	USFS	316,906.24
15,175 USFS	USFS	195,060.15
15,185 USFS	USFS	372,052.25
15,262 USFS	USFS	505,196.01
1,797 BLM	BLM	5,681.60
1,831 BLM	BLM	1,610.31
1,842 BLM	BLM	3,167.19
1,853 BLM	BLM	4,016.50
1,855 BLM	BLM	1,602.90
1,889 BLM	BLM	9,024.27
1,907 BLM	BLM	4,088.40
1,908 BLM	BLM	5,852.42
1,918 BLM	BLM	2,292.56
1,921 BLM	BLM	1,608.55

1,924 BLM	BLM	256.9832335
1,929 BLM	BLM	218.6332625
1,930 BLM	BLM	1,691.05
1,948 BLM	BLM	2,420.71
1,950 BLM	BLM	2,427.52
1,957 BLM	BLM	2,421.82
1,965 BLM	BLM	2,417.20
1,969 BLM	BLM	562.5773914
1,970 BLM	BLM	102.6778981
1,975 BLM	BLM	2,432.23
1,976 BLM	BLM	68.00184571
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1,982 BLM	BLM	208.927691
1,983 BLM	BLM	9,677.07
1,993 BLM	BLM	354.8790456
1,994 BLM	BLM	2,149.61
1,996 BLM	BLM	347.8667217
1,997 BLM	BLM	380.2309383
2,002 BLM	BLM	6,507.72
2,008 BLM	BLM	1,061.08
2,011 BLM	BLM	6,465.44
2,015 BLM	BLM	24,119.38
2,017 BLM	BLM	2,429.11
2,022 BLM	BLM	47,712.10
2,023 BLM	BLM	8,859.50
2,028 BLM	BLM	83,633.22
2,029 BLM	BLM	2,449.77
2,034 BLM	BLM	3,187.57
2,038 BLM	BLM	5,659.48
2,040 BLM	BLM	1,030.00
2,050 BLM	BLM	16,438.51
2,051 BLM	BLM	2,404.68
2,052 BLM	BLM	2,425.68
2,056 BLM	BLM	35,249.77
2,058 BLM	BLM	1,212.57
2,062 BLM	BLM	2,402.35
2,063 BLM	BLM	2,501.79
2,066 BLM	BLM	6,248.68
2,067 BLM	BLM	2,409.14
2,068 BLM	BLM	1,609.03
2,074 BLM	BLM	12,730.29
2,078 BLM	BLM	17,269.77
2,079 BLM	BLM	1,608.71
2,080 BLM	BLM	15,234.86
2,081 BLM	BLM	21,023.44
2,082 BLM	BLM	3,937.83
2,084 BLM	BLM	1,608.12



2,085 BLM	BLM	3,210.18
2,087 BLM	BLM	1,532.91
2,093 BLM	BLM	13,940.55
2,100 BLM	BLM	1,608.82
2,103 BLM	BLM	4,035.51
2,108 BLM	BLM	7,569.82
2,142 BLM	BLM	4,984.98
2,153 BLM	BLM	3,326.63
2,178 BLM	BLM	3,194.10
2,186 BLM	BLM	210,138.56
2,230 BLM	BLM	9,626.50
2,232 BLM	BLM	2,418.75
2,239 BLM	BLM	4,819.65
2,240 BLM	BLM	1,484.81
2,271 BLM	BLM	24,439.35
2,273 BLM	BLM	2,439.52
2,276 BLM	BLM	18,251.20
2,283 BLM	BLM	1,611.32
2,353 BLM	BLM	16,556.22
2,411 BLM	BLM	3,013.71
2,433 BLM	BLM	355.0996024
2,449 BLM	BLM	127.6681275
2,541 BLM	BLM	275.1860291
2,969 BLM	BLM	140.9330293
3,012 BLM	BLM	2,268.59
3,014 BLM	BLM	675.8756541
3,064 BLM	BLM	1,583.69
3,076 BLM	BLM	1,605.92
3,097 BLM	BLM	1,606.05
3,099 BLM	BLM	2,412.53
3,103 BLM	BLM	2,638.06
3,105 BLM	BLM	21,039.41
3,120 BLM	BLM	2,058.27
3,128 BLM	BLM	3,217.31
3,134 BLM	BLM	1,754.75
3,144 BLM	BLM	2,215.78
3,150 BLM	BLM	1,608.74
3,154 BLM	BLM	1,342.59
3,159 BLM	BLM	137,379.18
3,161 BLM	BLM	1,607.65
3,164 BLM	BLM	1,325.86
3,175 BLM	BLM	1,612.75
3,178 BLM	BLM	4,031.35
3,184 BLM	BLM	1,081.65
3,185 BLM	BLM	1,365.63
3,186 BLM	BLM	3,226.37
3,198 BLM	BLM	6,465.59

3,201 BLM	BLM	1,608.35
3,202 BLM	BLM	1,013.06
3,204 BLM	BLM	1,608.55
3,205 BLM	BLM	1,453.58
3,206 BLM	BLM	1,608.25
3,209 BLM	BLM	1,607.98
3,210 BLM	BLM	1,607.21
3,212 BLM	BLM	1,599.69
3,215 BLM	BLM	4,016.13
3,218 BLM	BLM	2,416.25
3,221 BLM	BLM	1,575.42
3,223 BLM	BLM	1,609.21
3,224 BLM	BLM	3,204.97
3,225 BLM	BLM	647.7211817
3,226 BLM	BLM	4,021.17
3,227 BLM	BLM	12,778.37
3,229 BLM	BLM	3,231.56
3,231 BLM	BLM	1,605.95
3,232 BLM	BLM	1,607.66
3,235 BLM	BLM	3,212.78
3,236 BLM	BLM	1,575.92
3,238 BLM	BLM	3,214.90
3,239 BLM	BLM	2,396.50
3,241 BLM	BLM	5,631.04
3,242 BLM	BLM	3,897.47
3,244 BLM	BLM	4,015.84
3,245 BLM	BLM	7,150.74
3,246 BLM	BLM	893.0762363
3,247 BLM	BLM	2,412.04
3,249 BLM	BLM	2,406.79
3,252 BLM	BLM	2,410.20
3,255 BLM	BLM	15,109.45
3,256 BLM	BLM	2,402.57
3,258 BLM	BLM	1,604.79
3,260 BLM	BLM	10,141.67
3,261 BLM	BLM	26,272.00
3,264 BLM	BLM	11,216.94
3,265 BLM	BLM	4,030.75
3,267 BLM	BLM	2,636.30
3,268 BLM	BLM	1,466.43
3,270 BLM	BLM	15,253.71
3,271 BLM	BLM	1,609.46
3,272 BLM	BLM	1,435.46
3,274 BLM	BLM	5,617.66
3,278 BLM	BLM	3,225.91
3,283 BLM	BLM	8,673.59
3,285 BLM	BLM	2,417.37

3,290 BLM	BLM	4,017.44
3,295 BLM	BLM	1,580.43
3,296 BLM	BLM	6,403.38
3,297 BLM	BLM	5,626.92
3,304 BLM	BLM	17,738.26
3,305 BLM	BLM	4,025.10
3,307 BLM	BLM	1,608.06
3,309 BLM	BLM	2,378.89
3,311 BLM	BLM	1,576.29
3,312 BLM	BLM	1,609.64
3,314 BLM	BLM	5,629.76
3,315 BLM	BLM	2,410.64
3,319 BLM	BLM	1,610.43
3,321 BLM	BLM	2,415.22
3,323 BLM	BLM	2,405.53
3,324 BLM	BLM	2,409.51
3,325 BLM	BLM	4,605.19
3,327 BLM	BLM	2,376.76
3,328 BLM	BLM	1,609.60
3,331 BLM	BLM	1,607.72
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3,335 BLM	BLM	1,608.31
3,336 BLM	BLM	4,029.18
3,338 BLM	BLM	2,400.13
3,339 BLM	BLM	102,415.19
3,340 BLM	BLM	8,034.92
3,341 BLM	BLM	886.8733729
3,344 BLM	BLM	4,828.97
3,345 BLM	BLM	3,235.55
3,347 BLM	BLM	1,609.29
3,350 BLM	BLM	1,595.90
3,352 BLM	BLM	1,587.46
3,354 BLM	BLM	683,403.09
3,355 BLM	BLM	1,604.30
3,358 BLM	BLM	18,508.27
3,359 BLM	BLM	1,608.52
3,361 BLM	BLM	2,407.06
3,362 BLM	BLM	583,981.53
3,363 BLM	BLM	2,412.79
3,364 BLM	BLM	447.6571528
3,365 BLM	BLM	1,600.95
3,366 BLM	BLM	6,407.46
3,367 BLM	BLM	258.5994323
3,370 BLM	BLM	2,417.13
3,372 BLM	BLM	4,099.42
3,373 BLM	BLM	4,019.41

3,375 BLM	BLM	6,449.41
3,377 BLM	BLM	2,414.49
3,378 BLM	BLM	1,607.90
3,379 BLM	BLM	16,113.75
3,380 BLM	BLM	1,607.09
3,382 BLM	BLM	1,612.79
3,383 BLM	BLM	1,611.57
3,385 BLM	BLM	1,612.92
3,387 BLM	BLM	1,611.50
3,388 BLM	BLM	3,160.26
3,390 BLM	BLM	2,421.15
3,393 BLM	BLM	1,606.95
3,394 BLM	BLM	5,645.29
3,395 BLM	BLM	30,817.03
3,396 BLM	BLM	1,607.15
3,398 BLM	BLM	1,612.02
3,399 BLM	BLM	1,597.50
3,402 BLM	BLM	1,607.49
3,405 BLM	BLM	1,609.77
3,407 BLM	BLM	4,026.68
3,408 BLM	BLM	4,813.43
3,409 BLM	BLM	9,649.71
3,410 BLM	BLM	3,213.90
3,412 BLM	BLM	1,612.80
3,414 BLM	BLM	1,612.63
3,415 BLM	BLM	1,606.79
3,418 BLM	BLM	6,444.36
3,419 BLM	BLM	3,221.16
3,420 BLM	BLM	3,087.97
3,422 BLM	BLM	1,546.41
3,423 BLM	BLM	3,208.41
3,426 BLM	BLM	1,608.80
3,431 BLM	BLM	2,405.22
3,441 BLM	BLM	3,230.77
3,443 BLM	BLM	1,608.87
3,446 BLM	BLM	1,615.63
3,452 BLM	BLM	4,022.45
3,455 BLM	BLM	4,061.68
3,456 BLM	BLM	9,610.75
3,460 BLM	BLM	3,216.74
3,462 BLM	BLM	40,563.41
3,465 BLM	BLM	1,608.57
3,468 BLM	BLM	113,714.20
3,469 BLM	BLM	1,613.86
3,470 BLM	BLM	84,113.91
3,472 BLM	BLM	100,322.42
3,476 BLM	BLM	5,040.20

3,478 BLM	BLM	15,193.19
3,482 BLM	BLM	1,445.07
3,483 BLM	BLM	5,629.19
3,487 BLM	BLM	4,845.23
3,490 BLM	BLM	7,061.39
3,492 BLM	BLM	8,084.19
3,494 BLM	BLM	7,949.81
3,505 BLM	BLM	3,229.45
3,509 BLM	BLM	1,456.23
3,524 BLM	BLM	4,009.04
3,525 BLM	BLM	3,232.57
3,545 BLM	BLM	1,674.47
3,548 BLM	BLM	165,168.17
3,550 BLM	BLM	3,228.78
3,551 BLM	BLM	1,609.25
3,567 BLM	BLM	2,952.70
3,569 BLM	BLM	88,326.45
3,572 BLM	BLM	6,434.80
3,577 BLM	BLM	17,640.49
3,579 BLM	BLM	2,442.40
3,580 BLM	BLM	1,595.69
3,583 BLM	BLM	1,610.99
3,587 BLM	BLM	4,874.91
3,588 BLM	BLM	1,631.43
3,590 BLM	BLM	1,588.73
3,591 BLM	BLM	1,617.63
3,594 BLM	BLM	2,250.01
3,597 BLM	BLM	2,816.79
3,598 BLM	BLM	1,600.45
3,601 BLM	BLM	4,805.12
3,602 BLM	BLM	1,624.78
3,604 BLM	BLM	1,612.34
3,607 BLM	BLM	3,994.44
3,616 BLM	BLM	5,618.82
3,624 BLM	BLM	13,621.25
3,637 BLM	BLM	5,307.83
3,638 BLM	BLM	12,039.45
3,640 BLM	BLM	3,293.02
3,642 BLM	BLM	41,362.15
3,643 BLM	BLM	2,393.58
3,644 BLM	BLM	2,413.31
3,648 BLM	BLM	5,358.74
3,649 BLM	BLM	27,147.88
3,661 BLM	BLM	5,885.49
3,662 BLM	BLM	4,820.25
3,724 BLM	BLM	4,135.25
3,812 BLM	BLM	180,032.87

3,851 BLM	BLM	41,315.16
4,716 Other Federal	BOR	574.9766077
4,728 Other Federal	BOR	9,445.58
4,910 Other Federal	BOR	2,408.67
4,939 Other Federal	BOR	8,099.78
4,941 Other Federal	BOR	4,018.63
4,976 Other Federal	DOE	52,075.21
5,151 HSTRCWTR	HSTRCWTR	23,398.60
5,160 HSTRCWTR	HSTRCWTR	3,031.87
5,246 HSTRCWTR	HSTRCWTR	201,164.77
7,299 Private	PRIVATE	735.3479749
7,300 Private	PRIVATE	862.1572023
7,303 Private	PRIVATE	1,136.58
7,305 Private	PRIVATE	85.56764378
7,308 Private	PRIVATE	11,023.86
7,316 Private	PRIVATE	2,794.89
7,321 Private	PRIVATE	1,010.60
7,340 Private	PRIVATE	4,026.86
7,341 Private	PRIVATE	1,275.39
7,342 Private	PRIVATE	1,156.03
7,345 Private	PRIVATE	2,777.21
7,351 Private	PRIVATE	4,472.98
7,357 Private	PRIVATE	5,873.70
7,358 Private	PRIVATE	1,448.83
7,361 Private	PRIVATE	617.0880903
7,365 Private	PRIVATE	55,592.70
7,367 Private	PRIVATE	2,417.99
7,372 Private	PRIVATE	1,956.31
7,377 Private	PRIVATE	1,821.31
7,381 Private	PRIVATE	6,520.01
7,388 Private	PRIVATE	1,153.57
7,389 Private	PRIVATE	11,352.75
7,391 Private	PRIVATE	1,608.81
7,396 Private	PRIVATE	619.4047556
7,400 Private	PRIVATE	785.1156768
7,402 Private	PRIVATE	4,824.60
7,403 Private	PRIVATE	311.7826085
7,406 Private	PRIVATE	1,614.78
7,408 Private	PRIVATE	3,799.54
7,410 Private	PRIVATE	2,900.15
7,412 Private	PRIVATE	1,270.18
7,413 Private	PRIVATE	605.0060921
7,414 Private	PRIVATE	4,023.47
7,424 Private	PRIVATE	3,873.34
7,436 Private	PRIVATE	31,677.88
7,440 Private	PRIVATE	23,132.38
7,446 Private	PRIVATE	4,612.71

7,454 Private	PRIVATE	33,598.17
7,455 Private	PRIVATE	345,175.03
7,460 Private	PRIVATE	1,611.08
7,464 Private	PRIVATE	209.1596189
7,473 Private	PRIVATE	8,848.73
7,476 Private	PRIVATE	6,101.68
7,478 Private	PRIVATE	1,599.35
7,492 Private	PRIVATE	2,753.23
7,505 Private	PRIVATE	5,838.97
7,511 Private	PRIVATE	1,600.49
7,539 Private	PRIVATE	5,414.75
7,544 Private	PRIVATE	6,891.66
7,790 Private	PRIVATE	755.5000472
7,793 Private	PRIVATE	239,752.81
7,806 Private	PRIVATE	783.150497
7,809 Private	PRIVATE	7,573.48
7,810 Private	PRIVATE	4,776.15
7,827 Private	PRIVATE	21,627.55
7,864 Private	PRIVATE	8,523.56
8,060 Private	PRIVATE	31,709.42
8,074 Private	PRIVATE	3,746.68
8,075 Private	PRIVATE	3,227.52
8,077 Private	PRIVATE	3,217.84
8,131 Private	PRIVATE	15,810.66
8,151 Private	PRIVATE	111,140.54
8,232 Private	PRIVATE	1,138.57
8,235 Private	PRIVATE	5,091.09
8,241 Private	PRIVATE	479.1363103
8,248 Private	PRIVATE	24,250.15
8,249 Private	PRIVATE	40,642.37
8,256 Private	PRIVATE	1,177.99
8,258 Private	PRIVATE	12,580.03
8,276 Private	PRIVATE	10,203.61
8,280 Private	PRIVATE	1,609.13
8,334 Private	PRIVATE	7,863.97
8,337 Private	PRIVATE	2,648.80
8,421 Private	PRIVATE	4,561.92
8,437 Private	PRIVATE	1,600.63
8,439 Private	PRIVATE	2,037.83
8,441 Private	PRIVATE	7,384.23
8,443 Private	PRIVATE	12,794.75
8,444 Private	PRIVATE	1,605.80
8,470 Private	PRIVATE	5,215.68
8,471 Private	PRIVATE	22,750.90
8,472 Private	PRIVATE	4,052.24
8,473 Private	PRIVATE	3,967.40
8,479 Private	PRIVATE	3,220.26

8,480 Private	PRIVATE	3,503.40
8,495 Private	PRIVATE	7,982.46
8,497 Private	PRIVATE	1,580.01
8,505 Private	PRIVATE	1,608.97
8,508 Private	PRIVATE	1,608.07
8,509 Private	PRIVATE	3,773.72
8,512 Private	PRIVATE	1,611.82
8,518 Private	PRIVATE	4,021.54
8,519 Private	PRIVATE	5,042.10
8,523 Private	PRIVATE	3,089.88
8,527 Private	PRIVATE	2,409.81
8,532 Private	PRIVATE	6,417.27
8,533 Private	PRIVATE	6,164.42
8,536 Private	PRIVATE	5,586.05
8,537 Private	PRIVATE	7,965.17
8,539 Private	PRIVATE	3,750.06
8,542 Private	PRIVATE	4,012.72
8,545 Private	PRIVATE	1,868.12
8,547 Private	PRIVATE	1,605.27
8,557 Private	PRIVATE	3,225.85
8,560 Private	PRIVATE	4,041.89
8,567 Private	PRIVATE	1,598.58
8,570 Private	PRIVATE	4,020.49
8,573 Private	PRIVATE	13,499.61
8,576 Private	PRIVATE	427.3350029
8,577 Private	PRIVATE	3,218.45
8,580 Private	PRIVATE	1.889022857
8,598 Private	PRIVATE	1,284.33
8,602 Private	PRIVATE	2,405.78
8,603 Private	PRIVATE	5,779.13
8,605 Private	PRIVATE	4,376.95
8,607 Private	PRIVATE	1,601.85
8,615 Private	PRIVATE	1,579.53
8,622 Private	PRIVATE	3,995.43
8,631 Private	PRIVATE	11,626.66
8,632 Private	PRIVATE	1,606.64
8,636 Private	PRIVATE	1,602.38
8,643 Private	PRIVATE	1,609.01
8,645 Private	PRIVATE	1,606.16
8,646 Private	PRIVATE	3,917.32
8,653 Private	PRIVATE	2,417.04
8,667 Private	PRIVATE	116,278.86
8,677 Private	PRIVATE	25,358.51
8,682 Private	PRIVATE	1,105.78
8,699 Private	PRIVATE	38,945.70
8,700 Private	PRIVATE	5,366.93
8,706 Private	PRIVATE	3,316.05



8,707 Private	PRIVATE	4,028.37
8,708 Private	PRIVATE	1,606.66
8,709 Private	PRIVATE	5,623.77
8,715 Private	PRIVATE	7,224.62
8,723 Private	PRIVATE	1,609.58
8,724 Private	PRIVATE	3,260.79
8,727 Private	PRIVATE	6,429.56
8,735 Private	PRIVATE	21,729.19
8,744 Private	PRIVATE	3,994.44
8,751 Private	PRIVATE	1,599.55
8,753 Private	PRIVATE	4,030.11
8,760 Private	PRIVATE	1,610.47
8,763 Private	PRIVATE	5,629.30
8,778 Private	PRIVATE	77,712.85
8,781 Private	PRIVATE	1,591.55
8,783 Private	PRIVATE	4,361.11
8,784 Private	PRIVATE	6,463.98
8,791 Private	PRIVATE	1,610.15
8,795 Private	PRIVATE	1,608.03
8,798 Private	PRIVATE	5,971.74
8,801 Private	PRIVATE	7,648.80
8,811 Private	PRIVATE	2,614.76
8,818 Private	PRIVATE	7,513.91
8,819 Private	PRIVATE	21,697.24
8,822 Private	PRIVATE	2,823.24
8,823 Private	PRIVATE	2,869.54
8,824 Private	PRIVATE	2,371.30
8,830 Private	PRIVATE	2,407.65
8,832 Private	PRIVATE	2,681.46
8,838 Private	PRIVATE	1,538.81
8,862 Private	PRIVATE	7,998.63
8,863 Private	PRIVATE	4,027.89
8,864 Private	PRIVATE	38,522.34
8,875 Private	PRIVATE	1,610.27
8,883 Private	PRIVATE	6,805.15
8,884 Private	PRIVATE	5,668.25
8,889 Private	PRIVATE	1,608.27
8,893 Private	PRIVATE	1,609.31
8,895 Private	PRIVATE	2,257.03
8,904 Private	PRIVATE	7,238.04
8,906 Private	PRIVATE	2,238.13
8,910 Private	PRIVATE	8,757.27
8,925 Private	PRIVATE	8,137.15
8,930 Private	PRIVATE	10,858.79
8,936 Private	PRIVATE	1,600.11
8,946 Private	PRIVATE	5,959.27
8,951 Private	PRIVATE	2,591.90

8,952 Private	PRIVATE	7,239.24
8,954 Private	PRIVATE	9,150.18
8,960 Private	PRIVATE	2,088.84
8,962 Private	PRIVATE	2,395.99
8,965 Private	PRIVATE	3,933.44
8,977 Private	PRIVATE	8,808.39
8,979 Private	PRIVATE	4,335.57
8,985 Private	PRIVATE	4,028.47
9,009 Private	PRIVATE	8,267.86
9,027 Private	PRIVATE	2,649.23
9,034 Private	PRIVATE	2,411.77
9,057 Private	PRIVATE	12,056.84
9,059 Private	PRIVATE	4,842.61
9,062 Private	PRIVATE	13,497.60
9,063 Private	PRIVATE	6,434.73
9,069 Private	PRIVATE	4,038.50
9,070 Private	PRIVATE	4,269.31
9,073 Private	PRIVATE	1,615.67
9,093 Private	PRIVATE	12,547.47
9,106 Private	PRIVATE	3,286.97
9,108 Private	PRIVATE	1,609.28
9,124 Private	PRIVATE	2,416.22
9,131 Private	PRIVATE	2,241.30
9,136 Private	PRIVATE	5,768.45
9,139 Private	PRIVATE	2,423.81
9,141 Private	PRIVATE	3,883.94
9,143 Private	PRIVATE	1,604.93
9,160 Private	PRIVATE	809.8323132
9,169 Private	PRIVATE	5,139.73
9,184 Private	PRIVATE	2,400.19
9,198 Private	PRIVATE	24,834.85
9,205 Private	PRIVATE	10,609.45
9,236 Private	PRIVATE	13,605.32
9,249 Private	PRIVATE	843.894718
9,264 Private	PRIVATE	8,176.34
9,398 Private	PRIVATE	220,003.62
9,517 Private	PRIVATE	2,204,166.04
9,576 Private	PRIVATE	42,130.61
9,683 Private	PRIVATE	10,659.00
12,072 State	STATE	1,598.39
12,084 State	STATE	1,615.04
12,098 State	STATE	1,614.66
12,100 State	STATE	2,425.96
12,107 State	STATE	1,612.82
12,113 State	STATE	118.9333249
12,115 State	STATE	1,611.18
12,138 State	STATE	5,446.69

12,142 State	STATE	6,373.67
12,143 State	STATE	2,413.68
12,146 State	STATE	3,840.81
12,149 State	STATE	6,442.27
12,153 State	STATE	5,498.22
12,154 State	STATE	444.7071773
12,159 State	STATE	1,149.49
12,164 State	STATE	3,133.23
12,171 State	STATE	12,057.58
12,183 State	STATE	1,610.83
12,185 State	STATE	258.2126945
12,189 State	STATE	492.0765941
12,192 State	STATE	1,432.51
12,195 State	STATE	2,424.18
12,202 State	STATE	1,487.44
12,208 State	STATE	1,983.17
12,232 State	STATE	2,397.51
12,237 State	STATE	2,216.56
12,238 State	STATE	8,246.86
12,239 State	STATE	4,820.00
12,240 State	STATE	1,608.35
12,242 State	STATE	608.6114816
12,244 State	STATE	2,417.88
12,246 State	STATE	1,091.39
12,253 State	STATE	2,411.77
12,255 State	STATE	1,604.52
12,258 State	STATE	2,432.48
12,260 State	STATE	240.7445157
12,261 State	STATE	4,840.06
12,263 State	STATE	112.2185514
12,264 State	STATE	2,410.85
12,267 State	STATE	2,422.33
12,268 State	STATE	9,682.39
12,269 State	STATE	1,608.80
12,271 State	STATE	1,604.78
12,277 State	STATE	1,662.31
12,278 State	STATE	1,606.02
12,279 State	STATE	1,610.05
12,280 State	STATE	2,260.63
12,283 State	STATE	1,674.41
12,285 State	STATE	1,610.56
12,290 State	STATE	6,452.17
12,291 State	STATE	4,030.66
12,292 State	STATE	344.6204382
12,298 State	STATE	1,598.49
12,301 State	STATE	1,607.72
12,304 State	STATE	1,605.84

12,307 State	STATE	1,599.97
12,310 State	STATE	3,188.38
12,311 State	STATE	2,930.80
12,314 State	STATE	3,990.20
12,317 State	STATE	6,243.99
12,320 State	STATE	1,614.14
12,329 State	STATE	1,647.23
12,330 State	STATE	3,221.74
12,332 State	STATE	1,607.62
12,335 State	STATE	1,896.85
12,338 State	STATE	6,390.13
12,339 State	STATE	1,618.83
12,342 State	STATE	8,502.36
12,345 State	STATE	1,602.28
12,346 State	STATE	8,010.33
12,347 State	STATE	850.8994148
12,348 State	STATE	1,300.90
12,351 State	STATE	3,138.05
12,354 State	STATE	1,601.17
12,356 State	STATE	6,787.96
12,357 State	STATE	1,777.95
12,358 State	STATE	25,073.60
12,359 State	STATE	1,600.78
12,361 State	STATE	5,342.73
12,365 State	STATE	1,599.05
12,370 State	STATE	1,595.23
12,371 State	STATE	3,950.77
12,377 State	STATE	6,309.84
12,379 State	STATE	2,422.78
12,381 State	STATE	1,618.33
12,386 State	STATE	1,606.84
12,388 State	STATE	1,608.37
12,389 State	STATE	1,594.09
12,393 State	STATE	2,415.04
12,401 State	STATE	2,384.74
12,402 State	STATE	888.5568158
12,420 State	STATE	4,549.78
12,427 State	STATE	1,552.52
12,442 State	STATE	1,602.29
12,443 State	STATE	5,704.27
12,444 State	STATE	49,493.44
12,453 State	STATE	3,219.74
12,454 State	STATE	1,610.05
12,462 State	STATE	2,797.57
12,468 State	STATE	3,270.04
12,474 State	STATE	1,604.81
12,477 State	STATE	2,412.51

12,496 State	STATE	142.6636376
12,513 State	STATE	2,423.80
12,573 State	STATE	19,643.98
12,641 State	STATE	16,661.67
12,665 State	STATE	1,774.90
12,710 State	STATE	1,362.86
12,996 State	STATE	4,242.80
13,096 State	STATE	6,431.86
13,116 State	STATE	6,434.30
13,164 State	STATE	6,443.72
13,180 State	STATE	8,669.79
13,230 State	STATE	452.0050115
13,247 State	STATE	5,125.16
13,249 State	STATE	855.6661285
13,321 State	STATE	6,449.53
13,334 State	STATE	4,094.97
13,355 State	STATE	261.6005147
13,357 State	STATE	3,179.93
13,358 State	STATE	13,400.24
13,360 State	STATE	2,200.66
13,361 State	STATE	1,715.21
13,363 State	STATE	8,013.33
13,382 State	STATE	8,048.27
13,383 State	STATE	1,611.98
13,386 State	STATE	9,697.10
13,387 State	STATE	6,443.86
13,388 State	STATE	4,035.73
13,398 State	STATE	1,604.08
13,403 State	STATE	1,604.17
13,414 State	STATE	3,211.68
13,418 State	STATE	1,353.44
13,426 State	STATE	1,281.25
13,427 State	STATE	2,407.39
13,432 State	STATE	4,938.97
13,436 State	STATE	1,606.20
13,439 State	STATE	7,286.00
13,447 State	STATE	1,616.69
13,448 State	STATE	3,787.99
13,450 State	STATE	1,306.40
13,451 State	STATE	1,610.91
13,455 State	STATE	1,605.24
13,457 State	STATE	899.3203307
13,458 State	STATE	1,609.01
13,460 State	STATE	639.448208
13,461 State	STATE	2,276.23
13,462 State	STATE	2,397.48
13,463 State	STATE	1,613.60

13,465 State	STATE	1,612.99
13,466 State	STATE	11,782.64
13,468 State	STATE	1,604.33
13,469 State	STATE	1,582.69
13,472 State	STATE	6,439.98
13,473 State	STATE	1,783.52
13,474 State	STATE	1,602.09
13,480 State	STATE	6,409.32
13,481 State	STATE	3,213.28
13,483 State	STATE	5,624.98
13,486 State	STATE	1,540.36
13,489 State	STATE	2,352.51
13,492 State	STATE	2,400.78
13,498 State	STATE	8,006.54
13,500 State	STATE	1,585.31
13,502 State	STATE	1,597.74
13,503 State	STATE	1,599.61
13,504 State	STATE	1,580.81
13,505 State	STATE	4,851.50
13,511 State	STATE	1,438.20
13,513 State	STATE	394.0621995
13,515 State	STATE	6,436.29
13,517 State	STATE	1,601.89
13,518 State	STATE	1,271.20
13,520 State	STATE	3,118.78
13,522 State	STATE	1,603.52
13,524 State	STATE	1,603.94
13,529 State	STATE	1,603.40
13,532 State	STATE	6,374.01
13,533 State	STATE	1,602.29
13,536 State	STATE	1,603.60
13,540 State	STATE	1,593.90
13,543 State	STATE	1,610.81
13,557 State	STATE	1,600.62
13,558 State	STATE	1,597.23
13,561 State	STATE	1,591.76
13,562 State	STATE	1,466.80
13,566 State	STATE	9,434.27
13,567 State	STATE	1,602.40
13,570 State	STATE	1,604.05
13,574 State	STATE	7,934.85
13,575 State	STATE	1,605.94
13,580 State	STATE	1,597.36
13,581 State	STATE	1,591.55
13,582 State	STATE	6,413.39
13,583 State	STATE	1,609.11
13,585 State	STATE	1,597.22

13,586 State	STATE	1,610.01
13,587 State	STATE	1,614.21
13,590 State	STATE	2,415.98
13,598 State	STATE	1,233.87
13,601 State	STATE	6,267.28
13,602 State	STATE	1,589.84
13,603 State	STATE	1,627.81
13,606 State	STATE	6,446.84
13,608 State	STATE	2,414.46
13,614 State	STATE	1,608.48
13,615 State	STATE	1,608.22
13,616 State	STATE	1,607.97
13,617 State	STATE	1,608.37
13,618 State	STATE	2,415.58
13,620 State	STATE	1,607.85
13,627 State	STATE	1,894.53
13,631 State	STATE	5,311.81
13,635 State	STATE	1,606.96
13,637 State	STATE	2,144.09
13,638 State	STATE	2,380.13
13,639 State	STATE	6,423.79
13,648 State	STATE	3,001.77
13,653 State	STATE	1,609.56
13,664 State	STATE	6,422.07
13,666 State	STATE	1,121.01
13,668 State	STATE	2,746.58
13,672 State	STATE	7,265.71
13,675 State	STATE	6,437.29
13,688 State	STATE	6,422.91
13,691 State	STATE	2,532.02
13,692 State	STATE	6,482.49
13,704 State	STATE	4,803.35
13,705 State	STATE	3,894.74
13,707 State	STATE	6,419.39
13,713 State	STATE	2,411.28
13,717 State	STATE	1,040.75
13,719 State	STATE	6,461.50
13,720 State	STATE	6,431.00
13,725 State	STATE	6,423.52
13,726 State	STATE	1,605.02
13,728 State	STATE	3,429.92
13,737 State	STATE	6,561.11
13,745 State	STATE	6,440.94
13,749 State	STATE	6,433.16
13,761 State	STATE	6,416.98
13,767 State	STATE	6,444.87
13,773 State	STATE	6,465.22

13,776 State	STATE	1,610.10
13,778 State	STATE	1,612.61
13,790 State	STATE	4,828.04
13,793 State	STATE	6,428.92
13,798 State	STATE	6,442.81
13,807 State	STATE	2,456.69
13,808 State	STATE	4,014.05
13,810 State	STATE	1,612.42
13,811 State	STATE	1,608.67
13,822 State	STATE	6,444.41
13,826 State	STATE	5,646.46
13,836 State	STATE	1,613.43
13,840 State	STATE	3,745.21
13,863 State	STATE	7,283.55
13,877 State	STATE	5,019.69
13,886 State	STATE	14,476.36
13,910 State	STATE	6,459.42
13,914 State	STATE	6,445.58
13,932 State	STATE	6,430.43
13,958 State	STATE	5,497.06
13,970 State	STATE	5,790.16
13,980 State	STATE	6,375.59
13,982 State	STATE	6,357.27
13,987 State	STATE	4,775.93
14,016 State	STATE	5,648.20
14,022 State	STATE	6,417.53
14,035 State	STATE	4,821.96
14,044 State	STATE	10,869.88
14,058 State	STATE	5,588.06
14,061 State	STATE	3,181.91
14,076 State	STATE	2,603.51
14,079 State	STATE	820.4119318
14,098 State	STATE	20,617.38
14,101 State	STATE	6,277.52
14,242 State	STATE	264.4929587
14,264 State	STATE	6,417.64
15,016 USFS	USFS	1,067.83
15,027 USFS	USFS	746.5051878
15,028 USFS	USFS	22.50202645
15,067 USFS	USFS	1,665.74
15,070 USFS	USFS	182,201.95
15,092 USFS	USFS	1,608.41
15,093 USFS	USFS	739.4762111
15,094 USFS	USFS	1,608.19
15,095 USFS	USFS	2,417.84
15,098 USFS	USFS	1,609.13
15,114 USFS	USFS	7,375.13



15,141 USFS	USFS	3,829.11
15,142 USFS	USFS	893.859582
15,143 USFS	USFS	892.7334622
15,150 USFS	USFS	1,042.51
15,152 USFS	USFS	320.700221
15,161 USFS	USFS	164.5737617
15,164 USFS	USFS	3,118.31
15,165 USFS	USFS	48,686.79
15,175 USFS	USFS	116,982.77
15,185 USFS	USFS	4,856.72
15,262 USFS	USFS	681,561.93
15,319 USFS Not Analyzed	USFS Not Analyzed	1,616.22
15,323 USFS Not Analyzed	USFS Not Analyzed	9,513.73
15,335 USFS Not Analyzed	USFS Not Analyzed	6,110.37
1,139 BLM	BLM	1,607.42
1,157 BLM	BLM	668.6534405
1,208 BLM	BLM	1,607.51
1,329 BLM	BLM	656.7192871
1,364 BLM	BLM	1,380.53
1,368 BLM	BLM	238.8305188
1,372 BLM	BLM	125.9616449
1,373 BLM	BLM	196.3055758
1,375 BLM	BLM	1,963.44
1,378 BLM	BLM	1,656.35
1,379 BLM	BLM	504.953317
1,380 BLM	BLM	1,197.92
1,384 BLM	BLM	389.2538399
1,394 BLM	BLM	3,388.78
1,404 BLM	BLM	3,588.59
1,407 BLM	BLM	5,518.26
1,417 BLM	BLM	461.355756
1,418 BLM	BLM	3,533.61
1,421 BLM	BLM	573.5898035
1,423 BLM	BLM	43.45697052
1,425 BLM	BLM	1,367.63
1,454 BLM	BLM	9,476.85
1,461 BLM	BLM	1,607.84
1,502 BLM	BLM	887.2914865
1,512 BLM	BLM	1,425.67
1,513 BLM	BLM	54.6850703
1,514 BLM	BLM	262.8115679
1,516 BLM	BLM	8,844.78
1,520 BLM	BLM	1,865.68
1,525 BLM	BLM	1,608.80
1,531 BLM	BLM	4,440.36
1,532 BLM	BLM	1,416.12
1,534 BLM	BLM	1,229.51

1,535 BLM	BLM	11,306.42
1,537 BLM	BLM	9,637.25
1,547 BLM	BLM	1,161.45
1,549 BLM	BLM	363.3662427
1,552 BLM	BLM	264.418279
1,556 BLM	BLM	10,458.10
1,558 BLM	BLM	2,430.12
1,559 BLM	BLM	1,103.89
1,560 BLM	BLM	632.7514448
1,563 BLM	BLM	844.313401
1,577 BLM	BLM	3,190.60
1,585 BLM	BLM	199.2382255
1,587 BLM	BLM	4,177.26
1,597 BLM	BLM	2,080.11
1,601 BLM	BLM	2,250.47
1,603 BLM	BLM	230.400536
1,604 BLM	BLM	1,909.43
1,608 BLM	BLM	12,354.13
1,615 BLM	BLM	44.37236222
1,616 BLM	BLM	75.07561528
1,617 BLM	BLM	184.2333995
1,619 BLM	BLM	35,921.00
1,623 BLM	BLM	8,268.46
1,652 BLM	BLM	207.994879
1,664 BLM	BLM	5,597.17
1,672 BLM	BLM	608.1720323
1,703 BLM	BLM	13,647.16
1,766 BLM	BLM	2,229.30
1,830 BLM	BLM	4,491.60
1,838 BLM	BLM	11,527.97
1,843 BLM	BLM	13.08619199
1,867 BLM	BLM	152.3307522
1,906 BLM	BLM	9.12965822
3,362 BLM	BLM	1,873,479.08
4,976 Other Federal	DOE	72,851.03
5,559 Other Federal	NPS	0.337116091
6,846 Private	PRIVATE	1,604.17
6,849 Private	PRIVATE	5,608.34
6,879 Private	PRIVATE	1,491.73
6,883 Private	PRIVATE	3,009.95
6,896 Private	PRIVATE	605.8603573
6,908 Private	PRIVATE	4,823.24
6,916 Private	PRIVATE	64,254.49
6,917 Private	PRIVATE	4,013.55
6,918 Private	PRIVATE	4,026.04
6,921 Private	PRIVATE	49,118.81
6,933 Private	PRIVATE	4,920.68

6,953 Private	PRIVATE	4,015.63
6,954 Private	PRIVATE	5,838.84
6,959 Private	PRIVATE	1,611.24
6,965 Private	PRIVATE	2,335.28
6,977 Private	PRIVATE	23,103.91
6,978 Private	PRIVATE	4,018.79
6,981 Private	PRIVATE	4,831.57
6,982 Private	PRIVATE	4,032.17
6,987 Private	PRIVATE	3,224.20
6,989 Private	PRIVATE	1,605.90
6,992 Private	PRIVATE	11,625.95
6,995 Private	PRIVATE	5,518.37
6,997 Private	PRIVATE	4,027.56
6,998 Private	PRIVATE	13,698.97
7,000 Private	PRIVATE	1,603.37
7,001 Private	PRIVATE	1,615.48
7,003 Private	PRIVATE	2,416.24
7,010 Private	PRIVATE	4,010.37
7,012 Private	PRIVATE	10,462.11
7,015 Private	PRIVATE	4,004.90
7,017 Private	PRIVATE	4,958.04
7,018 Private	PRIVATE	1,615.11
7,020 Private	PRIVATE	4,809.83
7,022 Private	PRIVATE	1,615.00
7,023 Private	PRIVATE	1,612.80
7,030 Private	PRIVATE	9,663.02
7,033 Private	PRIVATE	22,594.67
7,035 Private	PRIVATE	4,345.37
7,039 Private	PRIVATE	7,263.47
7,047 Private	PRIVATE	1,612.14
7,049 Private	PRIVATE	4,817.93
7,050 Private	PRIVATE	4,831.73
7,051 Private	PRIVATE	3,604.92
7,075 Private	PRIVATE	4,830.68
7,076 Private	PRIVATE	4,831.38
7,083 Private	PRIVATE	2,409.77
7,084 Private	PRIVATE	1,604.04
7,086 Private	PRIVATE	6,558.34
7,087 Private	PRIVATE	12,889.33
7,088 Private	PRIVATE	23,312.78
7,089 Private	PRIVATE	3,186.40
7,092 Private	PRIVATE	19,945.68
7,093 Private	PRIVATE	4,845.45
7,094 Private	PRIVATE	5,609.41
7,098 Private	PRIVATE	1,591.54
7,099 Private	PRIVATE	12,058.81
7,100 Private	PRIVATE	17,541.37

7,105 Private	PRIVATE	1,601.46
7,124 Private	PRIVATE	18,380.62
7,132 Private	PRIVATE	5,706.51
7,136 Private	PRIVATE	4,009.96
7,145 Private	PRIVATE	27,985.96
7,152 Private	PRIVATE	2,860.63
7,153 Private	PRIVATE	28,026.88
7,176 Private	PRIVATE	41,161.24
7,179 Private	PRIVATE	4,009.14
7,181 Private	PRIVATE	18,092.64
7,182 Private	PRIVATE	16,988.02
7,193 Private	PRIVATE	3,999.78
7,207 Private	PRIVATE	23,391.69
7,365 Private	PRIVATE	15,136.03
7,455 Private	PRIVATE	113,031.53
7,793 Private	PRIVATE	227,713.74
11,574 State	STATE	7,564.06
11,621 State	STATE	6,434.74
11,653 State	STATE	6,434.89
11,665 State	STATE	2,992.13
11,672 State	STATE	6,441.16
11,688 State	STATE	6,433.14
11,695 State	STATE	6,434.42
11,697 State	STATE	6,439.17
11,704 State	STATE	6,446.20
11,714 State	STATE	810.4491446
11,716 State	STATE	5,842.95
11,726 State	STATE	7,244.35
11,730 State	STATE	6,436.75
11,732 State	STATE	3,220.13
11,735 State	STATE	6,434.74
11,738 State	STATE	6,436.39
11,740 State	STATE	6,434.79
11,746 State	STATE	5,643.66
11,751 State	STATE	1,612.02
11,755 State	STATE	6,441.95
11,756 State	STATE	6,440.90
11,763 State	STATE	2,419.23
11,768 State	STATE	6,446.69
11,775 State	STATE	7,225.95
11,782 State	STATE	8,832.51
11,783 State	STATE	6,542.80
11,805 State	STATE	6,437.84
11,810 State	STATE	6,443.61
11,816 State	STATE	6,208.18
11,820 State	STATE	6,449.70
11,822 State	STATE	6,439.83

11,833 State	STATE	6,449.93
11,843 State	STATE	6,434.51
11,844 State	STATE	6,381.63
11,845 State	STATE	6,427.64
11,846 State	STATE	6,464.94
11,858 State	STATE	6,400.86
11,859 State	STATE	6,432.19
11,861 State	STATE	4,805.67
11,863 State	STATE	1,591.41
11,865 State	STATE	8,134.28
11,867 State	STATE	7,252.74
11,869 State	STATE	1,603.99
11,870 State	STATE	6,465.54
11,871 State	STATE	108.6935206
11,872 State	STATE	1,603.48
11,876 State	STATE	1,599.45
11,879 State	STATE	1,595.28
11,881 State	STATE	7,950.99
11,882 State	STATE	6,413.10
11,883 State	STATE	6,418.98
11,884 State	STATE	1,610.74
11,886 State	STATE	2,402.04
11,887 State	STATE	6,467.36
11,889 State	STATE	1,602.25
11,893 State	STATE	4,795.88
11,896 State	STATE	3,387.14
11,898 State	STATE	6,407.69
11,904 State	STATE	1,601.62
11,909 State	STATE	3,215.69
11,916 State	STATE	3,233.08
11,920 State	STATE	6,401.46
11,921 State	STATE	6,403.25
11,930 State	STATE	2,418.27
11,932 State	STATE	1,618.18
11,933 State	STATE	3,162.35
11,936 State	STATE	1,248.30
11,941 State	STATE	1,753.35
11,942 State	STATE	6,422.51
11,948 State	STATE	3,241.71
11,949 State	STATE	428.7084296
11,964 State	STATE	3,660.39
11,977 State	STATE	3,188.19
12,000 State	STATE	3,726.35
12,020 State	STATE	8,409.65
864 BLM	BLM	789.1680742
873 BLM	BLM	740.0616841
876 BLM	BLM	851.4883065

878 BLM	BLM	492.922802
883 BLM	BLM	2,969.48
1,204 BLM	BLM	1,614.49
1,332 BLM	BLM	6,193.05
1,477 BLM	BLM	2,869.22
1,619 BLM	BLM	3,416.05
1,620 BLM	BLM	1,610.28
1,635 BLM	BLM	51,121.32
1,664 BLM	BLM	970.3772427
1,775 BLM	BLM	2,388.66
1,777 BLM	BLM	14,404.00
1,788 BLM	BLM	1,614.64
1,801 BLM	BLM	3,212.11
1,805 BLM	BLM	1,606.20
1,812 BLM	BLM	12,085.12
1,813 BLM	BLM	2,431.05
1,817 BLM	BLM	2,429.78
1,824 BLM	BLM	4,813.06
1,838 BLM	BLM	9,645.67
1,850 BLM	BLM	3,217.33
1,857 BLM	BLM	1,610.59
2,155 BLM	BLM	163.0678491
2,648 BLM	BLM	247,592.91
3,362 BLM	BLM	1,573,661.41
4,974 Other Federal	DOE	1,611.05
4,975 Other Federal	DOE	6,237.20
4,976 Other Federal	DOE	474,544.85
5,057 HSTRCWTR	HSTRCWTR	2,422.26
5,107 HSTRCWTR	HSTRCWTR	96.05840558
5,551 Other Federal	NPS	8,865.55
5,553 Other Federal	NPS	182.9091261
5,559 Other Federal	NPS	220.3455409
6,680 Private	PRIVATE	8,149.14
6,714 Private	PRIVATE	10,264.39
6,770 Private	PRIVATE	2,407.93
6,775 Private	PRIVATE	11,260.37
6,819 Private	PRIVATE	2,479.64
6,822 Private	PRIVATE	1,686.51
6,825 Private	PRIVATE	4,838.54
6,842 Private	PRIVATE	11,509.10
6,878 Private	PRIVATE	2,436.37
6,879 Private	PRIVATE	3,811.82
6,890 Private	PRIVATE	4,062.47
6,891 Private	PRIVATE	2,364.06
6,901 Private	PRIVATE	4,070.56
6,920 Private	PRIVATE	6,034.27
6,921 Private	PRIVATE	49,652.50

6,925 Private	PRIVATE	4,815.60
6,929 Private	PRIVATE	4,829.21
6,938 Private	PRIVATE	4,024.28
6,949 Private	PRIVATE	3,243.21
6,955 Private	PRIVATE	5,705.68
6,967 Private	PRIVATE	17,509.37
6,968 Private	PRIVATE	26,750.50
6,977 Private	PRIVATE	37,230.37
6,992 Private	PRIVATE	12,490.10
7,008 Private	PRIVATE	4,103.83
7,031 Private	PRIVATE	1,591.33
7,035 Private	PRIVATE	20,655.51
7,048 Private	PRIVATE	5,697.45
7,054 Private	PRIVATE	1,615.10
7,072 Private	PRIVATE	1,204.89
7,073 Private	PRIVATE	35,238.70
7,086 Private	PRIVATE	2,317.34
7,095 Private	PRIVATE	3,224.08
7,103 Private	PRIVATE	2,435.28
7,106 Private	PRIVATE	8,841.62
7,109 Private	PRIVATE	3,710.84
7,111 Private	PRIVATE	4,030.72
7,113 Private	PRIVATE	5,689.46
7,120 Private	PRIVATE	1,607.34
7,128 Private	PRIVATE	1,610.88
7,130 Private	PRIVATE	12,881.20
7,131 Private	PRIVATE	2,477.08
7,134 Private	PRIVATE	4,845.44
7,135 Private	PRIVATE	8,051.60
7,140 Private	PRIVATE	6,924.12
7,142 Private	PRIVATE	12,148.86
7,144 Private	PRIVATE	2,405.11
7,147 Private	PRIVATE	1,607.39
7,148 Private	PRIVATE	2,415.09
7,149 Private	PRIVATE	4,384.88
7,152 Private	PRIVATE	5,976.24
7,156 Private	PRIVATE	2,415.06
7,188 Private	PRIVATE	4,011.63
7,194 Private	PRIVATE	1,616.99
7,197 Private	PRIVATE	6,433.34
7,207 Private	PRIVATE	39,337.33
7,243 Private	PRIVATE	4,821.27
7,246 Private	PRIVATE	4,837.42
7,258 Private	PRIVATE	8,051.58
7,278 Private	PRIVATE	6,177.64
7,295 Private	PRIVATE	10,460.25
7,297 Private	PRIVATE	2,410.00

7,305 Private	PRIVATE	1,829.41
7,323 Private	PRIVATE	1,717.51
7,346 Private	PRIVATE	8,526.68
7,359 Private	PRIVATE	8,876.57
7,376 Private	PRIVATE	4,845.62
7,399 Private	PRIVATE	7,401.52
7,418 Private	PRIVATE	100,481.42
7,419 Private	PRIVATE	5,247.72
7,430 Private	PRIVATE	3,217.42
7,448 Private	PRIVATE	6,338.92
7,453 Private	PRIVATE	2,416.44
7,455 Private	PRIVATE	396,723.75
7,462 Private	PRIVATE	8,452.83
7,468 Private	PRIVATE	3,184.65
7,472 Private	PRIVATE	3,220.13
7,475 Private	PRIVATE	5,639.59
7,489 Private	PRIVATE	4,840.74
7,495 Private	PRIVATE	4,831.12
7,497 Private	PRIVATE	3,221.27
7,502 Private	PRIVATE	3,222.95
7,510 Private	PRIVATE	3,222.50
7,777 Private	PRIVATE	18,289.19
8,151 Private	PRIVATE	8,312.44
8,258 Private	PRIVATE	43,101.04
11,384 State	STATE	10,701.30
11,407 State	STATE	6,431.37
11,460 State	STATE	6,425.21
11,475 State	STATE	6,311.61
11,486 State	STATE	6,439.70
11,490 State	STATE	5,717.86
11,492 State	STATE	6,439.19
11,507 State	STATE	6,434.61
11,509 State	STATE	6,436.59
11,527 State	STATE	6,445.32
11,543 State	STATE	6,428.96
11,561 State	STATE	6,445.56
11,574 State	STATE	4,136.44
11,575 State	STATE	6,434.94
11,593 State	STATE	6,428.89
11,597 State	STATE	2,783.48
11,605 State	STATE	6,432.92
11,620 State	STATE	6,430.02
11,650 State	STATE	6,536.93
11,665 State	STATE	3,466.13
11,685 State	STATE	6,448.11
11,694 State	STATE	1,609.10
11,715 State	STATE	6,500.14



11,723 State	STATE	2,957.12
11,734 State	STATE	1,690.93
11,752 State	STATE	6,429.79
11,775 State	STATE	1,354.49
11,782 State	STATE	380.5626915
11,801 State	STATE	2,433.63
11,802 State	STATE	4,646.59
11,829 State	STATE	5,635.62
11,830 State	STATE	5,000.38
11,857 State	STATE	5,632.69
11,880 State	STATE	995.0775928
11,896 State	STATE	3,752.77
11,899 State	STATE	2,076.18
11,900 State	STATE	6,433.47
11,905 State	STATE	3,235.52
11,906 State	STATE	6,421.76
11,912 State	STATE	1,544.41
11,924 State	STATE	6,429.27
11,926 State	STATE	1.075148182
11,933 State	STATE	8,791.79
11,941 State	STATE	4,799.37
11,976 State	STATE	3,889.36
11,996 State	STATE	13,662.54
11,998 State	STATE	496.6053102
12,000 State	STATE	6,082.31
12,014 State	STATE	6,417.69
12,017 State	STATE	2,405.80
12,020 State	STATE	97,199.65
12,030 State	STATE	1,606.35
12,031 State	STATE	7,205.26
12,038 State	STATE	6,436.39
12,047 State	STATE	1,608.48
12,055 State	STATE	1,608.54
12,066 State	STATE	4,009.42
12,071 State	STATE	1,613.07
12,089 State	STATE	1,612.14
12,092 State	STATE	1,613.12
12,095 State	STATE	2,410.55
12,096 State	STATE	1,610.94
12,097 State	STATE	1,605.27
12,104 State	STATE	6,155.86
12,106 State	STATE	1,615.11
12,109 State	STATE	1,611.57
12,112 State	STATE	6,419.83
12,114 State	STATE	4,039.51
12,123 State	STATE	2,429.53
12,151 State	STATE	8,092.71

12,170 State	STATE	6,428.18
12,175 State	STATE	771.040676
12,201 State	STATE	6,459.06
12,213 State	STATE	742.9386446
12,247 State	STATE	6,683.90
12,248 State	STATE	6,403.14
12,284 State	STATE	1,587.87
12,286 State	STATE	6,447.04
12,288 State	STATE	6,433.94
12,309 State	STATE	3,026.56
12,334 State	STATE	6,443.93
12,382 State	STATE	9,652.79
15,007 USFS	USFS	14,998.93
15,008 USFS	USFS	11,340.17
15,010 USFS	USFS	3,572.84
15,011 USFS	USFS	5,446.55
762 BLM	BLM	3,586.72
766 BLM	BLM	6,388.01
794 BLM	BLM	3,472.65
800 BLM	BLM	17,809.74
843 BLM	BLM	8,480.09
849 BLM	BLM	4,847.18
906 BLM	BLM	2,011.47
929 BLM	BLM	2,342.42
974 BLM	BLM	2,233.32
976 BLM	BLM	1,549.30
978 BLM	BLM	1,608.36
989 BLM	BLM	858.0895885
999 BLM	BLM	1,395.97
1,048 BLM	BLM	2,530.60
1,060 BLM	BLM	13,384.66
1,331 BLM	BLM	669.2827767
1,337 BLM	BLM	210.3305067
1,338 BLM	BLM	15,592.82
1,496 BLM	BLM	8,959.29
1,541 BLM	BLM	588.7302343
1,740 BLM	BLM	11,306.63
1,746 BLM	BLM	1,603.82
1,777 BLM	BLM	8,735.93
1,790 BLM	BLM	5,471.92
3,362 BLM	BLM	1,810,835.28
4,635 Other Federal	BOR	784.9023311
4,679 Other Federal	BOR	2,186.82
4,700 Other Federal	BOR	1,619.59
4,976 Other Federal	DOE	175,261.49
5,005 HSTRCWTR	HSTRCWTR	5,026.76
5,075 HSTRCWTR	HSTRCWTR	22,260.48

5,553 Other Federal	NPS	271.9648767
6,464 Private	PRIVATE	3,694.09
6,470 Private	PRIVATE	6,472.88
6,534 Private	PRIVATE	6,439.91
6,544 Private	PRIVATE	1,209.70
6,546 Private	PRIVATE	8,063.53
6,572 Private	PRIVATE	17,824.49
6,594 Private	PRIVATE	6,437.72
6,673 Private	PRIVATE	12,920.73
6,681 Private	PRIVATE	113,034.11
6,683 Private	PRIVATE	9,666.36
6,694 Private	PRIVATE	46,355.91
6,700 Private	PRIVATE	6,429.58
6,717 Private	PRIVATE	39,446.22
6,727 Private	PRIVATE	2,119.73
6,730 Private	PRIVATE	1,770.99
6,740 Private	PRIVATE	4,971.71
6,748 Private	PRIVATE	6,455.23
6,754 Private	PRIVATE	5,636.97
6,756 Private	PRIVATE	2,030.42
6,768 Private	PRIVATE	6,434.19
6,842 Private	PRIVATE	193,072.50
6,851 Private	PRIVATE	1,309.16
6,862 Private	PRIVATE	1,608.22
6,892 Private	PRIVATE	3,209.24
6,898 Private	PRIVATE	1,615.73
6,920 Private	PRIVATE	14,956.76
6,921 Private	PRIVATE	230,741.40
6,941 Private	PRIVATE	70.3194849
6,952 Private	PRIVATE	50,022.59
6,961 Private	PRIVATE	10,365.71
6,968 Private	PRIVATE	53,388.80
6,971 Private	PRIVATE	2,420.03
6,977 Private	PRIVATE	45,008.22
6,990 Private	PRIVATE	27,467.78
7,002 Private	PRIVATE	2,431.92
7,005 Private	PRIVATE	7,243.81
7,019 Private	PRIVATE	5,591.30
7,048 Private	PRIVATE	339.0749449
7,080 Private	PRIVATE	1,507.77
7,081 Private	PRIVATE	8,845.52
7,103 Private	PRIVATE	7,069.63
7,109 Private	PRIVATE	20,184.93
7,131 Private	PRIVATE	28,921.45
7,143 Private	PRIVATE	5,616.53
7,185 Private	PRIVATE	4,022.02
7,206 Private	PRIVATE	8,336.44

7,219 Private	PRIVATE	3,217.08
7,227 Private	PRIVATE	7,265.28
7,244 Private	PRIVATE	4,811.27
7,254 Private	PRIVATE	17,555.39
7,278 Private	PRIVATE	6,079.48
7,283 Private	PRIVATE	8,349.76
7,288 Private	PRIVATE	4,004.67
7,294 Private	PRIVATE	6,411.48
7,299 Private	PRIVATE	1,532.12
7,305 Private	PRIVATE	5,039.26
7,316 Private	PRIVATE	5,317.00
7,320 Private	PRIVATE	3,884.73
7,418 Private	PRIVATE	47,139.73
7,455 Private	PRIVATE	244,123.13
7,462 Private	PRIVATE	1,579.53
11,311 State	STATE	3,856.65
11,321 State	STATE	6,432.28
11,342 State	STATE	6,439.36
11,373 State	STATE	6,427.76
11,389 State	STATE	6,451.68
11,390 State	STATE	6,433.08
11,397 State	STATE	6,434.25
11,410 State	STATE	6,429.29
11,435 State	STATE	6,438.68
11,448 State	STATE	6,442.85
11,464 State	STATE	6,383.84
11,475 State	STATE	3,331.01
11,480 State	STATE	6,435.82
11,490 State	STATE	2,498.34
11,497 State	STATE	6,452.01
11,508 State	STATE	6,444.53
11,535 State	STATE	1,727.51
11,542 State	STATE	6,440.70
11,544 State	STATE	6,437.98
11,576 State	STATE	74,111.14
11,591 State	STATE	6,438.76
11,592 State	STATE	6,432.24
11,594 State	STATE	6,440.64
11,601 State	STATE	6,479.96
11,602 State	STATE	6,433.93
11,612 State	STATE	2,989.82
11,618 State	STATE	6,439.32
11,632 State	STATE	3,672.94
11,633 State	STATE	6,433.45
11,634 State	STATE	6,449.71
11,654 State	STATE	6,439.97
11,667 State	STATE	6,525.60

11,675 State	STATE	1,608.45
11,681 State	STATE	6,421.07
11,684 State	STATE	6,430.37
11,701 State	STATE	6,419.83
11,716 State	STATE	4,159.54
11,742 State	STATE	2,278.64
11,765 State	STATE	6,412.24
11,766 State	STATE	1,604.22
11,769 State	STATE	1,609.23
11,773 State	STATE	1,611.25
11,776 State	STATE	6,468.23
11,787 State	STATE	1,611.69
11,799 State	STATE	1,611.16
11,801 State	STATE	6,615.25
11,816 State	STATE	3,151.65
11,828 State	STATE	1,612.10
11,830 State	STATE	4,665.60
11,841 State	STATE	3,727.79
11,857 State	STATE	5,055.76
11,868 State	STATE	6,712.38
11,877 State	STATE	7,295.42
11,880 State	STATE	3,875.96
11,902 State	STATE	6,437.60
11,922 State	STATE	1,606.42
11,926 State	STATE	1,039.00
11,927 State	STATE	1,604.35
11,929 State	STATE	1,613.37
11,937 State	STATE	1,517.42
11,944 State	STATE	2,445.66
11,947 State	STATE	6,439.45
11,953 State	STATE	1,611.21
11,956 State	STATE	1,589.17
11,962 State	STATE	1,606.33
11,972 State	STATE	1,606.53
11,976 State	STATE	5,871.69
11,981 State	STATE	2,407.50
11,996 State	STATE	5,138.82
12,003 State	STATE	14,522.68
12,020 State	STATE	4,321.15
12,031 State	STATE	32,401.38
12,045 State	STATE	7,188.27
12,049 State	STATE	2,404.00
12,074 State	STATE	6,439.01
12,077 State	STATE	1,600.93
12,079 State	STATE	3,929.66
12,087 State	STATE	1,610.69
12,104 State	STATE	4,070.61

12,105 State	STATE	1,616.77
12,152 State	STATE	6,077.28
12,154 State	STATE	1,523.06
12,159 State	STATE	143.7699247
15,007 USFS	USFS	10,017.55

Shape_Area	GIS_Acres
68.59138086	0.016949299
2,984.95	0.737597707
626,345.44	154.77333
32,940,065.16	8,139.67
13,424.36	3.317231283
1,045.64	0.258382719
45.87840492	0.011336801
4,114.46	1.016704788
3,539.35	0.874593075
1,657.27	0.40952047
175,564.53	43.38293996
137,798.60	34.0507753
44,684.38	11.04175023
150,895.73	37.28714803
72,561.40	17.93031217
162,992.03	40.2762072
11,788.70	2.91305001
530,155.17	131.0041957
32,450,304.14	8,018.64
83,388.28	20.60569188
2,338,617.87	577.8850598
3,293,128.81	813.7498506
649,320.80	160.4506635
2,451,815.76	605.8568689
79,518,452.15	19,649.44
145,079.58	35.8499454
806,749.98	199.3522619
1,135,611.94	280.6158219
151,709.59	37.48825531
325,642.93	80.46811959
7,915,033.82	1,955.85
660,413.72	163.1917849
1,791,457.64	442.6788245
324,295.54	80.13517315
25,403,537.65	6,277.35
445,084.60	109.9827987
646,865.28	159.8438927
969,258.86	239.5090812
2,629.38	0.649734259
323,744.13	79.9989167
6,489.18	1.603510827
1,617,069.77	399.5866427
99.30442891	0.024538659
70.85646685	0.017509014
177,960.83	43.9750786
1,401,293.93	346.2672702
6,641,270.79	1,641.09

329,915.33	81.52385309
972.3264762	0.240267105
331.2931262	0.081864314
650,863.93	160.83198
10,804,519.12	2,669.85
649,411.36	160.473042
542,736.65	134.1131474
116,680.57	28.83239602
19,575,315.79	4,837.17
31,713.73	7.836634521
647,507.16	160.0025038
649,311.02	160.4482469
1,622,479.28	400.9233604
9,293,954.88	2,296.59
5,512,954.25	1,362.28
729,635.05	180.2967481
486,167.29	120.134553
64,277,311.40	15,883.27
1,892,326.63	467.6040947
357,047.95	88.22847042
361,171.55	89.2474337
3,797,863.82	938.4725891
2,024,024.66	500.1473865
1,310,512.64	323.834726
324,034.16	80.0705856
186,561.97	46.10046775
1,648,547.48	407.3649537
160,774.81	39.72832053
161,676.48	39.95112799
8,014,752.62	1,980.49
86,103.10	21.27653977
323,615.27	79.96707566
1,798,639.73	444.4535557
9,433,040.55	2,330.96
6.753234144	0.00166876
10,706.24	2.645570275
508.4014567	0.125628736
1,302,340.19	321.8152684
55.67399143	0.013757343
79,699.70	19.694224
0.178700184	4.41578E-05
2,569.97	0.635052789
460,769.38	113.8585936
14,639.61	3.617525873
133,400.75	32.96404259
164,729.76	40.70560977
325.1747999	0.080352443



4,511.11	1.114719111
55,622.86	13.74470851
12,841.15	3.173116806
8,796.51	2.173665372
1,636,770.41	404.4547773
35,249,053.01	8,710.23
2,735,046.96	675.8448233
297,996.00	73.63641448
949.1126727	0.234530849
67,595.69	16.70325928
50,641.96	12.51390115
1,886,200.79	466.0903658
65,816,931.38	16,263.72
2,422,963.47	598.7273125
19,974.52	4.935812577
916,824.32	226.552223
163,666.68	40.44291658
3,456,436.25	854.103998
2,018,371.72	498.7505149
150,827.15	37.27020005
474.0334914	0.117136227
648,143.56	160.1597622
162,554.91	40.16819381
492,208.49	121.6273677
1,153,800.84	285.1103975
3,014.94	0.745007967
1,377,181.18	340.3088801
326,207.17	80.60754764
163,034.76	40.28676626
492,158.45	121.6150026
141,695.18	35.01364083
881,916.07	217.9262078
325,247.18	80.37032735
1,428,111.69	352.8940833
2,203,319.03	544.4519903
94,261,605.36	23,292.55
66,306.48	16.38468754
633,465.33	156.5326908
159,249.16	39.35132562
1,478,471.31	365.3382173
164,406.75	40.62579347
656,734.70	162.2826774
164,362.62	40.61488816
35,185,232.33	8,694.46
1,226,452.75	303.0630742
169,393.90	41.85814474
489,849.02	121.0443288

986,061.53	243.6611104
4,730,516.79	1,168.94
130,999.79	32.37075305
62,168.15	15.36208371
160,662.46	39.70055965
22,410.00	5.537630949
161,272.88	39.85139718
324,796.70	80.25901261
3,557,950.93	879.1888224
112,200.61	27.72537576
162,880.86	40.2487359
3,765.99	0.930597385
71,184.84	17.590158
2,549,917.73	630.0983925
44,821.38	11.07560388
512,986.92	126.761828
159,980.16	39.5319584
30,161.03	7.45295188
163,962.07	40.51591082
163,859.10	40.49046433
668,612.38	165.2177168
158,625.94	39.19732442
334.4615853	0.082647258
957,486.95	236.6001785
78,550.69	19.41029708
2,100,820.99	519.1241724
1,140,732.75	281.8812008
165,167.58	40.81379737
694,048.89	171.5032167
11,400.10	2.817026128
246,292.94	60.86031195
34,684.51	8.570730049
3,119,549.56	770.8574831
514,547.93	127.1475637
193,171.34	47.73367814
35,469.48	8.764699324
170.4581217	0.042121119
811,545.97	200.5373763
158,292.36	39.11489385
1,671.41	0.413013324
144,378.59	35.67672606
491,959.14	121.5657505
16,369.63	4.045023572
243,947.45	60.28072865
1,112,418.11	274.884501
546,815.18	135.1209726
1,120,984.59	277.0013259

1,090,803.03	269.5432986
329,579.96	81.44098082
91,720.70	22.66467782
1,801,339.57	445.1207013
7,033.45	1.738002876
36,478,972.04	9,014.15
17,774.01	4.392053628
120,063.12	29.66824223
1,513.83	0.374075816
4,056.77	1.002449691
62,047.40	15.33224675
83,569.04	20.6503598
45,088.62	11.14163962
840,555.69	207.7058348
164,119.87	40.55490218
43,469.22	10.74147916
95,247.12	23.53607582
9,688.31	2.394033731
8,396.68	2.074866011
5.774330015	0.001426868
161,591.97	39.93024434
2,928,439.41	723.633138
2,107,469.95	520.767166
17,476,415.30	4,318.52
17,215.12	4.253948169
71,143,267.06	17,579.88
256.3526287	0.063346114
6,317,671.55	1,561.13
162,292.16	40.10326611
2,013.02	0.497428745
33,721.77	8.332830624
625,824.06	154.6444942
61.3818276	0.01516778
551.139868	0.136189627
2,228.22	0.550605561
1,818.10	0.449262892
943.3233007	0.233100264
89.58182221	0.02213615
4,893,181.74	1,209.13
1.869787264	0.000462034
3,100.95	0.766260294
1,550.54	0.38314645
1,315,923.43	325.1717608
489,414.53	120.9369651
2,348,328.74	580.2846696
10,435,380.91	2,578.64
694,400.47	171.5900923

6,992,820.98	1,727.96
324,452.56	80.17397349
1,395,606.89	344.8619718
4,394,528.83	1,085.91
1,141,041.65	281.9575322
214,649.14	53.04095829
12,192.14	3.0127423
14,779,954.09	3,652.21
650,473.29	160.7354511
59.04093736	0.014589333
31,548.69	7.795851126
3,026.55	0.747875766
47,306.25	11.68963017
162,313.17	40.10845749
157,676.15	38.96262584
16,259,726.44	4,017.87
1,375,654.28	339.9315767
2,719,661.22	672.0429226
488,133.69	120.6204614
420,020.67	103.7893675
242,581.70	59.94324323
390,161.24	96.4109426
726,724.46	179.5775255
3,642,696.73	900.1299647
410,697.17	101.4854798
420,428.58	103.8901635
1,288,469.58	318.3877668
652,964.00	161.3509184
318,518.32	78.70759097
1,175,136.13	290.3824621
6,222.98	1.537732341
172.2118318	0.04255447
29,511.45	7.292437675
1,714,520.40	423.6672175
1.043247571	0.000257792
262,161.70	64.78156786
7.815143306	0.001931164
1,134,001.76	280.2179382
216,545.13	53.50946637
2,663,746.22	658.2260256
102,909.66	25.42953151
162,161.28	40.07092454
192,074.09	47.46254213
71,561.55	17.68324489
243,615.54	60.19871181
798,168.97	197.2318468
2,028,147.29	501.1661099

725,764.35	179.3402755
126,148.11	31.17187632
492,849.45	121.7857509
263,598.44	65.1365921
6,869,054.69	1,697.38
2,013,935.82	497.6543799
65,904.71	16.28540793
653,731.17	161.5404904
942,130.09	232.8054161
934.4222777	0.230900773
165,552.76	40.90897684
4,230,399.31	1,045.35
1,675,903.59	414.1247957
8,743,685.75	2,160.61
491,901.17	121.5514261
372,930.64	92.15316717
161,692.31	39.95503995
2,259,980.83	558.4534249
323,515.16	79.94233741
139.5923785	0.034494028
318,256.83	78.64297487
979,747.27	242.1008223
33,225.50	8.210199381
172.3418959	0.04258661
177.3010438	0.043812042
135,680,209.83	33,527.31
161,824.94	39.98781402
162,051.29	40.04374674
808,621.46	199.8147139
7,504,214.31	1,854.33
22,498.75	5.559561838
779.5828696	0.192639122
23,041,304.97	5,693.63
1,204.72	0.297692808
37,443.86	9.252579793
972,505.59	240.3113654
11,131.10	2.750553677
107,458.56	26.55358826
568.5335332	0.140487696
5,181,674.83	1,280.42
2,318.15	0.572826116
610,068.22	150.7511402
181.7771931	0.044918123
3,570,162.80	882.206441
659,388.48	162.9384416
6,161.24	1.52247438
2,026,921.60	500.8632348

1,314,335.29	324.7793225
631,215.11	155.9766514
347,823.45	85.94904577
329,023.18	81.30339722
422,953.19	104.5140098
326,036.70	80.56542231
635,519.88	157.0403817
14,091,242.71	3,482.02
3,653.80	0.902873924
1,187,269.54	293.3806924
572,590.44	141.4901797
105,725.34	26.12530088
1,432.47	0.353971758
72,841.38	17.99949613
1,292,609.18	319.4106843
489,022.37	120.8400595
1,321,466.11	326.5413869
11,214,929.69	2,771.27
23,745,764.69	5,867.71
650,965.87	160.8571688
323,607.47	79.96514617
970,487.16	239.8126011
181,488.26	44.84672629
2,003,832.46	495.1577856
142.5294381	0.035219791
161,757.67	39.97118958
2,424,386.29	599.0788993
25,858,095.71	6,389.67
659,974.06	163.0831409
8,624,504.52	2,131.16
21,964.42	5.427525367
163,260.37	40.34251634
322,374.71	79.6605254
322,418.21	79.67127359
1,629,182.52	402.5797682
50,989,556.02	12,599.79
652,801.81	161.3108396
1,938,299.75	478.9643003
160,503.02	39.66116109
9,684,590.35	2,393.11
651,335.69	160.9485532
1,909,959.55	471.9612841
2,453,758.67	606.3369726
0.53388185	0.000131925
30,910.80	7.638225361
3,288,055.28	812.4961552
159,375.69	39.38258981

2,519,861.18	622.6712593
941,835.11	232.7325238
177,806.27	43.93688516
178,119.60	44.01431062
217,247.13	53.68293446
2,101,031.68	519.1762336
3,017,500.11	745.640515
146,147.88	36.11392698
2,351,626.63	581.0995947
1,298,171.64	320.7851987
972,692.20	240.3574767
14,023,536.48	3,465.29
1,060,580.62	262.075179
1,939,783.61	479.330968
242,048.70	59.81153597
486,697.30	120.2655215
328,646.08	81.21021508
7,108.76	1.756612879
964,542.93	238.3437494
262,613.64	64.89324492
1,986,895.53	490.9725783
151,329.31	37.39428715
206,204.15	50.95415603
984,286.08	243.2223875
1,974,133.95	487.8191237
24,127,972.50	5,962.15
42,346.10	10.46395021
133,707.60	33.03986775
161,641.73	39.9425415
1,301,765.49	321.6732584
721,319.00	178.2418071
148,430.13	36.67788485
663,844.92	164.0396511
492,846.35	121.7849852
3,322,586.03	821.0288878
327,848.10	81.01302873
494,510.61	122.1962331
635,451.43	157.023469
3,280,855.93	810.7171564
161,436.61	39.89185527
2,678,401.87	661.8475166
487,737.38	120.5225314
4,710,761.43	1,164.05
161,751.34	39.96962704
1,113,299.89	275.1023937
2,148,786.61	530.9767357
484,670.84	119.7647728

337,463.97	83.38916271
645,740.55	159.5659638
1,159,229.89	286.4519436
2,157,622.25	533.1600699
3,598,981.92	889.327801
636,900.86	157.381631
1,985,579.12	490.6472848
1,287,304.57	318.0998861
165,074.00	40.79067339
489,974.29	121.0752849
7,898,605.64	1,951.79
971,753.52	240.125525
407,837.47	100.7788327
162,120.06	40.06073982
163,212.84	40.33077081
161,866.40	39.99805912
162,109.24	40.05806537
322,608.74	79.71835627
166,006.81	41.02117537
26,763.26	6.613346393
1,413,169.34	349.2017491
233,806.35	57.7748065
757,065.33	187.074916
2,788,675.49	689.096721
162,193.59	40.07890925
791,888.73	195.6799656
973,073.40	240.4516736
3,179.59	0.785692671
11.39013858	0.002814565
1,856.52	0.458755212
36,141.30	8.930710124
4,749.44	1.173610971
1,298,310.04	320.8193984
5,159.55	1.274952743
3,882.31	0.959339567
3,481.42	0.860276431
38,517.48	9.517876619
6,078.15	1.50194352
7,525,743.70	1,859.65
1,151,889.08	284.6379912
98,384.78	24.31140982
2,560,834.98	632.7961047
4,206.54	1.039458811
8,695.95	2.148814904
324,481.47	80.18111798
643,880.82	159.1064158
162,319.18	40.109944



6,795.39	1.679178442
151,604.63	37.46232018
68,687.07	16.9729435
83,052.60	20.52274463
413,562.55	102.1935324
844,745.07	208.7410539
155,436.59	38.40921682
173,212.67	42.80178216
1,948,506.30	481.4863937
2,928,973.32	723.7650703
707,820.17	174.9061722
325,652.64	80.47052047
649,474.00	160.4885203
323,787.76	80.00969798
1,457,404.05	360.1323835
323,564.31	79.95448151
419,983.36	103.7801476
161,829.51	39.988942
51,484,955.99	12,722.21
1,325,265.17	327.4801558
161,422.22	39.88829902
162,177.47	40.07492586
1,941,305.06	479.7069264
36,896,476.58	9,117.32
689,600.37	170.4039634
161,769.81	39.97418942
159,628.59	39.44508298
161,714.06	39.96041541
6,489,408.88	1,603.57
3,061.21	0.756440358
160,982.86	39.77973103
32,787.48	8.101963286
641,141.04	158.429401
6,341,311.65	1,566.97
2,359,120.02	582.9512534
7.281316437	0.001799252
32.93344637	0.008138032
95.27359949	0.023542619
18,523.87	4.57734819
7,840.53	1.937436951
28.64705566	0.007078842
309.8699291	0.076570527
455,535.13	112.565182
11,077.46	2.737300043
3,996.01	0.987434867
74,342.06	18.37032325
121,249.61	29.96143027

4.601069459	0.001136949
9,819.16	2.426367592
1,191.74	0.294486367
312,687.56	77.26677865
10,194.33	2.519073673
24,242.27	5.990395425
1,269.55	0.313712007
152,351.90	37.64697331
3,759.83	0.929073469
12,128.21	2.996944894
6,189.29	1.52940621
30,023.78	7.419036835
31,910.65	7.885294237
2,494.87	0.616496415
155,079.69	38.32102502
323,196.18	79.86351559
204,816.86	50.61134867
12,443.30	3.074807542
6,290.44	1.5544017
1,478.19	0.365269474
280,592.31	69.33586984
2,720.92	0.672354333
8,676.99	2.144130968
35,247,868.18	8,709.94
14,285.07	3.529916526
7,561.21	1.86841533
86,294.24	21.32377092
48,013,414.71	11,864.37
1,814.45	0.448360414
318,338.99	78.6632787
610.5769568	0.150876852
2,222.00	0.54906776
18,309,120.19	4,524.28
9,129.15	2.255862368
2,885.54	0.713031843
171,800.53	42.45283483
156,704.58	38.722544
177.0952943	0.0437612
597.2333624	0.147579578
17,141.85	4.235843349
156,266.23	38.61422584
106.9379554	0.026424944
3,698.28	0.913863932
705,289.18	174.2807512
22,419,753.89	5,540.04
2,646,119.03	653.8702519
44,746.27	11.05704336

1,279,905.85	316.271624
1,595,329.88	394.2145976
6,640.94	1.641013086
4,414.14	1.090757188
2,488.89	0.615018135
0.03107306	7.67832E-06
94,415.60	23.33060377
2,434,839.61	601.6619696
5,244.82	1.296023216
81,503.26	20.13989468
11,218.73	2.772207769
4,703.74	1.162318864
7,750.39	1.915162874
9,941.09	2.456497023
14.77129698	0.003650067
1,402.82	0.346644369
1,475.78	0.364673478
451.1063142	0.111470798
1.728691849	0.000427169
12,022.85	2.970911943
3,427.68	0.846997399
15,829.64	3.911589135
71,346.59	17.63012607
1,310,581.23	323.8516758
1,873.26	0.462892468
897.1182962	0.221682759
571,523.16	141.2264489
1,482,923.20	366.4383035
1,070.13	0.264434706
167,682.09	41.43514729
196,853.65	48.64359683
126,621.59	31.28887615
1,662.76	0.410876121
9,110,816.10	2,251.33
442,772.55	109.411481
153.3213665	0.037886535
5,166.27	1.276613126
40,732.17	10.06513874
359.9480024	0.088945088
454.0995071	0.112210432
5,867.04	1.44977745
27,832.48	6.877555151
5,057.87	1.249828005
4,312.88	1.065735044
3,425.93	0.846566584
68.25123558	0.016865248
10,708.93	2.646235392

12,259.70	3.029438268
7,972.67	1.9700892
16,583.56	4.097886394
5,072.71	1.25349367
2,733.23	0.67539654
276,690.99	68.37183357
2,690.44	0.664821397
301,011.24	74.38149608
6,310.59	1.559381204
7,182.27	1.774777383
3.403650532	0.00084106
306,352.18	75.70127123
677.7892306	0.167485366
490,653.56	121.243134
71,595.18	17.69155339
28,153.66	6.956920863
8,959.89	2.214036041
3,859.06	0.953593467
134,157.46	33.15103027
240,267.39	59.37136611
152,507.71	37.6854747
4,509.56	1.1143363
1,574.86	0.389155994
40,313.23	9.961617171
973,309.26	240.5099548
1,703.90	0.421043301
641,833.69	158.6005593
161,408.66	39.88494811
370,193.74	91.47686545
13,757.36	3.399516921
777,934.53	192.2318095
402,698.12	99.508872
885,840.49	218.8959521
166,283.73	41.08960363
320,094.02	79.0969543
287.3726856	0.071011337
158,696.12	39.2146645
154,991.59	38.29925582
63,097.67	15.59177361
149,933.11	37.04927809
9,084.61	2.24485533
152,403.08	37.65962108
163,687.33	40.4480197
158,930.33	39.27253999
676,661.41	167.2066761
7,892.51	1.950280559
1,773,873.35	438.3336512

1,727,206.33	426.8019792
120,357.05	29.74087361
46,927.57	11.59605507
561,274.27	138.6938931
1,692.93	0.418333082
16,828.32	4.158367712
14,782.52	3.652839683
36,826.56	9.100040588
267,787.77	66.17179901
408,896.70	101.040575
238,673.53	58.97751276
23,685.26	5.852756311
1,428,111.28	352.8939837
9,775.96	2.415691943
5,764.15	1.424351265
1,292,292.17	319.3323504
3,891,839.89	961.6945802
8,404.00	2.076672823
1,111,981.61	274.7766387
302,156.71	74.66454827
164,396.33	40.62321847
117,937.79	29.14306206
161,480.28	39.90264631
831,373.62	205.4368959
655,901.08	162.0766864
480,089.28	118.632644
2,387,594.49	589.9874482
128,006.59	31.63111677
13,622,206.84	3,366.12
90,034.77	22.24807618
6,248,740.54	1,544.10
834,832.24	206.2915402
49,714.05	12.28460897
380,126.72	93.93135777
647,231.83	159.9344675
205,148.30	50.69324972
70,683.30	17.46622479
161,092.88	39.80691709
163,673.58	40.4446232
127,777.53	31.57451475
1,069,408.40	264.2565706
196,454.96	48.54507679
83,542.02	20.64368199
490,949.79	121.3163347
160,387.06	39.63250611
53,818.37	13.29880787
217,061.78	53.63713382

7,859.72	1.942178098
57,846.15	14.29409428
981,634.91	242.5672689
28,906,846.25	7,143.04
84,864.37	20.97044312
323,369.31	79.9062974
654,209.77	161.6587537
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106,031.92	26.20105921
1,355,475.79	334.9453628
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987,125.61	243.9240513
253,388.99	62.61378368
165,036.34	40.78136841
6,555.57	1.619916653
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56,978.37	14.07966292
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441,946.30	109.2073098
76,348.11	18.86602923
8,534.94	2.109030504
329,866.90	81.51188657
163,497.24	40.40104684
37,544.74	9.277506953
854.8198362	0.211230582
44,964.15	11.11088406
42,559.40	10.51665556
35,350.80	8.735372575
22,835.79	5.642846957
80,184.52	19.8140265
94,054.56	23.24138736
155,088.76	38.32326629
17,808.57	4.400593885
425,086.31	105.0411136
51,349.29	12.68868658
141,182.91	34.88705697
369,425.96	91.28714246
719,055.13	177.6823927
14,839,393.04	3,666.89
593.4481817	0.146644239
114,569.97	28.31085594
10,309,961.34	2,547.65
4,551,676.56	1,124.74
319,249.83	78.88834994
162,167.62	40.07249229
2,680,900.99	662.4650609
21,560,751.95	5,327.78

284,426.04	70.28320443
2,736,495.17	676.2026818
492,916.47	121.8023128
316,890.51	78.3053492
342,804.68	84.70888161
41,674.98	10.29811253
4,116.09	1.017109185
169,346.65	41.84646832
164,729.84	40.70563018
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1,166.09	0.288147486
1.383929926	0.000341977
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5,591.60	1.381714968
84.72033057	0.02093485
134,391.53	33.20887091
49,632.10	12.26435926
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3.261796147	0.000806007
37,931.13	9.372987133
953.2111559	0.235543606
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18,985,987.78	4,691.54
157,557.78	38.93337419
50,999.82	12.60232896
53,686.49	13.26621942
13,275.99	3.280568523
34,296.96	8.474964103
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120.1959527	0.029701067
980.1660416	0.242204304
303,955.33	75.1089969
163,427.55	40.38382735
415,900.95	102.771363
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20,842.29	5.150242754
976,150.22	241.2119723
161,920.02	40.01130798
163,018.87	40.28284022
161,288.95	39.85536694
30,249,686.65	7,474.86
60,692.73	14.99750047
1,102,379.32	272.4038627
324,294.52	80.13492107
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51,581.80	12.74613998
136,169.13	33.64812405

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117,493.63	29.03330902
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54,384.74	13.43876238
92,508.36	22.85931264
323,547.86	79.95041688
7,548,533.04	1,865.28
28,732.33	7.099913479
688,076.63	170.0274378
117,147.85	28.94786321
73,281,315.02	18,108.21
3,955,812.30	977.5025075
805,378.01	199.0132397
333,807.74	82.48568995
124,558.79	30.77914639
162,282.41	40.10085764
125,971.12	31.12814272
578,124.65	142.8577122
147,957.15	36.5610087
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7,443,103.63	1,839.23
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16,853,012.24	4,164.47
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4,199,128.71	1,037.63
40,357,294.04	9,972.50
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273,643.77	67.61884716
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601,378.97	148.6039803



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656,042.09	162.1115304
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152,901.26	37.78272414
99,942.94	24.69643725
63,711.04	15.74333983
149,865.18	37.03249263
762,402.37	188.3937279
82,807.01	20.46205875
366,255.71	90.50375595
392,272.31	96.93259869
68,599.06	16.95119811
922,932.35	228.0615512
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184,739.21	45.65005224
1,686.67	0.416784914
323,418.05	79.9183414
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175,734.55	43.42495326
235,564.67	58.20929812
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91,755.21	22.67320677
189,400.52	46.80188824
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433,480.70	107.1154125
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47,262.86	11.67890595
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23,809.18	5.883375521
139,363.88	34.43756555
250,009.47	61.77868454
211.8919079	0.052359631
297.8901385	0.073610256
4,956,422.92	1,224.76
468,128.92	115.6771764
252,811.43	62.4710644
185,419.41	45.81813287
293,263.66	72.4670296

159,742.86	39.47332075
1,068,059.72	263.9233034
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63.50111849	0.015691468
494,580.62	122.2135331
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9,858,144.37	2,436.00
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12,648.10	3.125413739
643,746,754.18	159,073.29
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7,744,952.79	1,913.82
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1,141,752.93	282.1332937
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47,896,865.68	11,835.57
6,936,057.34	1,713.94
9,031.08	2.23162888
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101.8442132	0.025166253
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3,623.33	0.895344404
2,654.18	0.655862468
148.8428012	0.036779857
4,365.43	1.078720681
2,744.74	0.678239816
110.5709072	0.027322666
9,050.22	2.236358867
20,162.32	4.98221736
26.95361155	0.006660382
109.4886274	0.027055229
214.9600876	0.053117794
2,032,130.86	502.1504712
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299,037.39	73.89374944
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596,720.22	147.4527781

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607,865.27	150.2067783
17,373,360.19	4,293.05
638,825.50	157.8572181
1,243,934.32	307.3828659
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383,658.93	94.80418738
21,906.33	5.41317242
120,975.05	29.89358642
4,689,453.62	1,158.79
654,962.08	161.8446546
1,931,929.03	477.3900608
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16,615,188.30	4,105.70
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1,715.48	0.423904434
152.8634202	0.037773374
7,075,423.82	1,748.38
654,532.36	161.7384674
136,821.68	33.80937382
290,866.40	71.87465217
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508,351.36	125.6163564
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18,666.92	4.612696268
80,744.42	19.95237975
347.4798118	0.085864131
20,224.67	4.997625645
4.369204735	0.001079654
41.9742403	0.010372061
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79,460.08	19.63501323
39,387.88	9.732956244
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965,753.70	238.6429374
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62,104.04	15.3462436
643,232.11	158.9461152
79,984.96	19.76471338
83,405.97	20.61006359
55,035.66	13.59960697
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40,428.49	9.990096849
387,521.84	95.75873202
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2,278.49	0.563026725
832,743.51	205.7754017
55,103.11	13.61627418
543,726.36	134.3577104
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103.5573659	0.025589582
147,449.82	36.43564321
205.1816927	0.0507015
633,100.77	156.4426065
747.5020032	0.184711768
255.757673	0.063199097
398.9641158	0.09858618
398,138.75	98.38222682
297,373.68	73.48263743
83,553.75	20.6465808
244,140.34	60.32839298
74,974.74	18.52666264
5,405.51	1.335730206
241,676.85	59.71965076
160,977.66	39.77844607
68,193.56	16.85099643
640,321.35	158.2268522
167,176.40	41.3101889
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83,553.97	20.64663608
18,140.08	4.482512545
8,813.01	2.177742491
1,688,798.58	417.3112162

496.509484	0.122690165
48.85997545	0.012073563
653.1362584	0.161393484
216,840.24	53.58239018
6,387.98	1.578503178
1,680,340.60	415.2212055
155,021.77	38.30671294
83,482.32	20.62892936
159,095.82	39.31343433
1,913,865.47	472.9264573
217,062.49	53.6373096
844.2426428	0.2086169
292,568.62	72.29528109
22,262.89	5.501279573
134,400.38	33.21105641
151,217.21	37.36658592
83,564.84	20.64932061
130,921.04	32.35129386
3,144,174.28	776.942384
3,188,236.09	787.8302958
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2,554,899.21	631.3293444
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80,938.16	20.00025517
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1,133,839.49	280.1778398
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81,595.83	20.16276972
32,509.51	8.033274005
162,771.26	40.22165317
45,097,423.03	11,143.82
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195,822.00	48.38867002
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156,838,556.76	38,755.65
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7,108,770.25	1,756.62
170,704.08	42.18189671
503,130.97	124.3263714
203,352.05	50.24938565
43,042.84	10.63611715
79,652.94	19.6826709
192,571.98	47.58557167
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69,351.54	17.1371391
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287,317.13	70.99760888
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245,551.94	60.67720572
154,563.29	38.1934196
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519,150.98	128.2850002
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247,301.56	61.10954556
557,151.92	137.6752386
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56,082.40	13.85826271
193,718.60	47.86890954
648,287.20	160.1952564
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331,634.96	81.94878427
53,955.45	13.33268303
284,335.13	70.26073968
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74,755.75	18.47254854

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45,880.76	11.33738172
377,497.34	93.28162446
56,517.86	13.96586845
2,574,075.19	636.0678316
466,525.49	115.2809586
636,685.34	157.3283746
2,592,246.68	640.5581046
2,563,483.83	633.4506501
162,647.95	40.1911836
12,000,940.35	2,965.50
17,477.43	4.318767158
2,617,457.52	646.7878398
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2,573,511.37	635.928509
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2,578,268.34	637.1039806
1,292,947.84	319.4943687
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2,574,558.15	636.1871726
10,627.61	2.626138916
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384,782.39	95.08179906
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324,620.31	80.21542437
946,880.36	233.9792313
322,723.68	79.74675927
62,253.18	15.38309554
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52,586.32	12.99436257
71,342.71	17.62916726
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55,837.38	13.79771791
507,409.26	125.3835598
288,722.84	71.34496729
40,230.30	9.941124244
141,830.42	35.04706079
76,377.93	18.87339798
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129,544.96	32.01125626
229,380.67	56.68119836
83,575.62	20.65198511
165,093.27	40.7954361
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643,448.92	158.9996901
520,957.08	128.7312974
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142,982.54	35.33175631
645,310.49	159.4596939
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67,511.08	16.68235068
148,108.46	36.598398
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254,538.05	62.89772077
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29,577.36	7.308726035
78,282.23	19.34395969
54,192.69	13.39130646
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195,174.97	48.2287854
56,639.27	13.99586947
93,822.03	23.18392946
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47,992.59	11.85922829
69,808.81	17.2501323
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26,374.13	6.517189371

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188,290.28	46.52754267
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336,368.75	83.11852935
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325,465.62	80.42430607
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671,465.11	165.9226426
77,180.92	19.07181954
82,382.98	20.35727892
134,548.60	33.24768413
852,637.89	210.6914112
83,562.46	20.64873342
80,916.55	19.99491616
78,518.12	19.40225084
83,398.81	20.60829439
354,574.93	87.61737224
113,799.48	28.12046496
1,192,980.65	294.7919398
882,260.86	218.0114071
219,290.77	54.18792852
65,182.14	16.1068576
1,332,020.56	329.1494483
82,428.50	20.36852663
50,542.44	12.48930902
381,376.50	94.24018568
83,577.44	20.65243567
3,103,201.46	766.8177807

148,270.27	36.63838212
241,947.18	59.78644933
474,130.40	117.1601724
57,205.30	14.13573815
83,425.81	20.61496611
651,735.83	161.0474297
534,588.33	132.0996541
499,676.26	123.4726936
73,699.37	18.21151001
19,187.56	4.741349945
709,373.91	175.2901104
56,111.68	13.86549915
983,453.99	243.0167739
152,280.67	37.62937281
62,380.45	15.41454442
202,924.49	50.14373325
78,254.87	19.33719954
83,574.39	20.65168057
228,941.23	56.57260961
1,353,137.24	334.367493
441,275.29	109.0414996
2,464.29	0.608938543
2,456.65	0.607051481
305,151.13	75.40448689
231,802.32	57.27960144
1,302,569.07	321.8718276
82,815.99	20.46427694
6,278,772.69	1,551.52
81,795.60	20.21213401
49,060.20	12.12303972
83,523.24	20.63904261
2,267,120.88	560.2177687
198,191.14	48.97409775
3,428,468.35	847.1929804
23,299.47	5.757424073
639,213.69	157.9531416
248,955.47	61.51823571
2,598,074.48	641.9981867
167,147.02	41.30292772
1,317,694.45	325.6093895
161,533.13	39.9157065
83,513.52	20.63663938
129,540.97	32.01027194
42,225.39	10.43412047
6,573.34	1.624308818
291,510.44	72.03379774
65,671.78	16.22785016

12,671.98	3.131313421
674,394.29	166.6464584
1,447,846.28	357.7706072
38,392.42	9.486974124
20,214.09	4.995009835
83,523.43	20.63908857
81,969.82	20.2551831
960,843.90	237.429699
57,667.27	14.24989216
324,591.25	80.20824532
2,596,253.93	641.5483187
149,643.27	36.97765693
1,667,936.22	412.1560165
181,260.31	44.79039873
167,268.08	41.33284238
41,773.42	10.32243584
35,546.89	8.783827065
12,638,207.55	3,122.97
275,352.32	68.04103982
2,709,306.52	669.4842216
83,564.03	20.64912256
83,519.26	20.63805898
20,220.56	4.996609998
94,989.83	23.47249931
64,562.03	15.95362435
49,905.90	12.33201651
75,626.36	18.68768141
20,176.10	4.985622123
83,568.33	20.65018428
65,497.48	16.18477882
83,564.88	20.64933084
1,155,005.50	285.4080758
36,825.28	9.09972528
83,558.65	20.64779224
105,948.47	26.18043631
647,714.14	160.0536489
77,170.60	19.06926999
112,039.07	27.68545618
390,560.88	96.50969508
79,774.10	19.71260934
14,992.55	3.704740394
646,667.05	159.7949072
589,530.87	145.6762501
2,599,568.56	642.3673805
188,868,411.10	46,670.40
1,295,718.90	320.1791138
163,508.80	40.40390548

517,480.31	127.8721691
2,568,014.02	634.5700852
4,369,189.09	1,079.65
160,924.67	39.76535245
2,576,557.77	636.6812903
118,085.86	29.17965127
226,989.93	56.09043212
40,071.47	9.901874825
641,193.87	158.4424553
4,091,683.42	1,011.08
162,923.49	40.25927226
413,936.38	102.2859079
87,401.75	21.5974422
14,327.49	3.540400635
83,552.74	20.64633233
2,612,759.57	645.6269511
20,214.27	4.995055249
74,117.38	18.31480273
83,553.46	20.64650848
27,852.56	6.882516469
55,143.95	13.62636643
5,943.23	1.468603769
69,584.38	17.19467422
5,534.17	1.36752319
2,582,405.64	638.1263298
2,755,163.58	680.8157484
679,792.69	167.9804312
740,749.88	183.0432806
2,591,900.13	640.4724707
566,710.90	140.0373134
83,545.50	20.64454172
41,683.61	10.30024324
242,252.32	59.86185278
42,071.88	10.39618739
8,849.64	2.186792716
248,970.07	61.52184379
79,194.81	19.56946493
83,553.75	20.64658087
649,365.27	160.4616536
1,247,184.79	308.1860728
2,370,350.70	585.7264138
27,715.30	6.848600142
1,027,609.89	253.9279347
2,584,224.41	638.5757579
5.410322245	0.00133692
15,404.04	3.806420807
641,265.92	158.4602607

2,499,011.85	617.5192757
2,579,421.79	637.3890045
2,590,772.95	640.1939386
652,160.95	161.1524812
4,761,099.67	1,176.49
137.2217645	0.033908236
237,818.41	58.76620915
1,402,903.15	346.6649179
775,635.41	191.6636831
63,184.87	15.61332118
181,813.77	44.92715986
76,009.09	18.78225585
2,583,656.24	638.4353609
83,552.18	20.64619374
2,576,702.60	636.7170779
16,827.60	4.158190179
40,512.43	10.01083895
2,631,433.33	650.2413357
2,671,574.60	660.1604615
2,582,383.53	638.1208665
2,585,549.90	638.9032941
8,049.03	1.988957517
783,970.52	193.7233339
12,270.16	3.032023265
3,869,280.80	956.1201078
1,947,139.81	481.1487262
2,588,929.33	639.7383685
628,478.31	155.3003715
3,724,858.71	920.4326329
2,566,070.58	634.0898508
262,822.24	64.94478971
5,226,066.48	1,291.39
2,587,532.33	639.3931624
328.6903997	0.081221167
53,471.08	13.21299134
646,907.58	159.8543442
77,823.04	19.23049173
3,231,662.60	798.5612204
83,127.70	20.54130114
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198,424.99	49.03188277
83,564.87	20.64933012
2,590,619.53	640.1560269
2,479,174.04	612.6172467
6,199.39	1.531902555
225,619.38	55.75176266
162,470.33	40.14729189

73,794.63	18.23505092
76,635.49	18.93704241
2,547,436.89	629.4853655
2,424.49	0.599105483
0.851322958	0.000210366
1,270,502.06	313.9478971
16,533.15	4.085430946
247,667.59	61.19999467
2,586,689.99	639.1850166
20,218.72	4.996154208
83,574.98	20.65182686
340.1469017	0.08405213
4,424,171.02	1,093.24
318,489.59	78.70049253
412,494.11	101.9295143
1,521,597.76	375.9949943
2,599,497.61	642.349849
162,688.51	40.20120652
83,565.85	20.64957111
250,692.13	61.94737482
83,149.72	20.54674324
67,687.74	16.7260039
267,862.71	66.19031666
70,502.86	17.42163655
2,334.66	0.576907969
281,709.96	69.61204749
403,622.31	99.73724425
632,847.82	156.3801028
50,006.43	12.35685678
177,304.93	43.81300336
1,795,948.31	443.7884929
323,026.95	79.8216983
292,079.60	72.1744413
201,819.12	49.87059029
83,564.66	20.64927672
644,580.26	159.2792505
53,919,352.33	13,323.76
263,223.34	65.04390294
65,134.01	16.09496383
202,966.10	50.15401639
970,155.37	239.7306118
646,778.35	159.82241
70,771.52	17.48802228
83,564.64	20.64927222
99,216.77	24.51699828
665,768.87	164.5150703
59,999.60	14.82622432

386,205.28	95.43340427
144,754.81	35.76969203
83,565.68	20.64953027
59,163.39	14.61959116
160,793.96	39.73305239
305,022.45	75.37268913
2,992,746.93	739.5238706
83,509.73	20.6357045
644,380.79	159.2299611
113,294.29	27.99562944
590,327.96	145.8732164
186,779.55	46.15423218
2,618.57	0.647062217
550,253.07	135.9704937
9,830.62	2.429198044
329,044.87	81.30875903
648,039.55	160.1340608
324,932.60	80.29259366
245,660.27	60.70397568
896,303.75	221.4814791
2,613,397.08	645.7844822
625,216.52	154.4943678
634,803.81	156.8634368
649,209.30	160.4231112
20,408.48	5.043044909
2,985,804.13	737.8082696
1,456,186.73	359.8315786
1,019,830.66	252.0056451
27,218.27	6.725780365
83,722.66	20.68831986
246,080.11	60.80771832
621,021.07	153.4576495
3,438.29	0.849619165
223,653.00	55.26585921
1,327,811.20	328.1092927
131.4635832	0.032485359
5,859.90	1.448012786
103,228.68	25.50836131
469,150,965.75	115,929.73
2,737,200.01	676.376853
1,115,569.73	275.6632829
83,563.63	20.64902353
421,486.62	104.1516127
33,208.17	8.205917818
5,280,243.40	1,304.78
16,253,018.62	4,016.21
226,352.28	55.9328677



213,406.73	52.73395038
1,115,036.59	275.5315413
135.6516524	0.033520253
2,716,447.70	671.248844
643,422.96	158.9932772
1,296,595.75	320.3957872
394,781.42	97.55261323
2,749,179.62	679.3370785
7,787.52	1.924337377
1,327,224.13	327.9642254
5,249,836.45	1,297.26
964,867.20	238.4238769
668.48958	0.165187373
2,705,264.04	668.4853021
83,580.15	20.65310388
1,200,813.12	296.7273839
708,715.04	175.1272995
584,397.99	144.4078875
2,745.53	0.678434587
82,429.01	20.36865118
267,682.34	66.14574642
5,182,910.58	1,280.73
83,580.12	20.65309685
853,998.10	211.0275253
62,786.01	15.51476059
644,637.86	159.2934835
80,536.38	19.90097211
484,705.90	119.7734363
476,321.23	117.7015384
94.68857825	0.023398057
647,288.66	159.9485112
194,265.19	48.00397506
944.3317502	0.233349457
6.829224721	0.001687538
13.97496909	0.00345329
82.08622662	0.020283948
906.4326119	0.223984376
248.5080803	0.061407684
24.41461354	0.006032982
71.43362686	0.017651634
86.72863539	0.021431113
160.2741496	0.039604605
161,661.76	39.9474917
630,497.17	155.7992438
214,028.20	52.88752071
82,149.10	20.29948387
23,783.99	5.877151874

31,561.04	7.798903715
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83,446.79	20.62015067
7,455.37	1.842262914
76,724.16	18.95895359
318,843.50	78.78794377
562.1078799	0.138899882
649,565.85	160.5112161
2,647,976.14	654.3291536
167,126.68	41.297901
810,833.14	200.3612323
476,031.69	117.6299918
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1,755,861.19	433.882749
295,058.16	72.91046032
594,541.22	146.9143356
1,224,498.59	302.58019
2,648,468.18	654.4507403
588,277.99	145.3666574
348,979.31	86.23466582
73,530.88	18.16987662
107,476.17	26.55794075
646,381.19	159.7242707
364,309.42	90.02281865
161,925.90	40.01276138
160,103.60	39.56246205
931,140.84	230.0899131
64,120.84	15.84460551
2,606,836.41	644.1633061
481,036.04	118.8665953
425,276.55	105.0881229
1,623,610.51	401.2028946
134,164.91	33.15287039
72,601.47	17.94021303
68,322.33	16.8828158
69,581.79	17.19403403
76,627,574.48	18,935.09
83,561.15	20.64840892
643,020.59	158.893849
91,593.67	22.6332893
85,566.03	21.14382655
425.4995452	0.105143227
281,733.16	69.61777949
48,033.18	11.86925835
213,417.49	52.73660997
4,969.16	1.227907048
17,284.42	4.271073705

93,659.44	23.14375216
10,085.32	2.492138025
11,412.60	2.820115248
89,049.17	22.00452957
10,089.47	2.493161888
156,198.39	38.59746353
16,216.49	4.007182787
10,063.73	2.486801544
154,316.78	38.13250707
22,636.84	5.593684593
1,454,665.15	359.4555868
252,926.26	62.49943911
68,635.27	16.96014433
265,171.55	65.52531813
649,334.99	160.4541698
1,092,231.81	269.8963577
54,683.23	13.51252016
143,925.60	35.56479056
2,575,629.91	636.4520109
83,247.14	20.57081664
482,095.79	119.1284633
83,597.08	20.65728925
70,466.43	17.41263476
2,551,072.44	630.3837295
653,894.40	161.5808256
78,975.91	19.51537318
80,298.33	19.84214861
158,676.83	39.20989917
1,056,815.46	261.1447868
17,456.03	4.313479111
235,278.22	58.1385152
164,813.05	40.72619042
648,229.08	160.180893
136,673.22	33.77268778
2,016,975.70	498.405549
461,434.76	114.0230133
39,939.01	9.869144561
83,556.92	20.64736429
207,361.69	51.24018894
78,488.04	19.39481616
20,508.70	5.067809653
82,706.16	20.43713694
167,141.27	41.3015076
644,029.36	159.1431196
561,961.72	138.8637652
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312,314.02	77.17447547
81,386.33	20.11099984
11,691.89	2.889129815
83,556.83	20.64734124
70,568.00	17.43773135
948,987.95	234.5000286
249,833.84	61.73528564
178,880.16	44.20225049
322,566.82	79.70799725
1,052,624.14	260.1090899
22,304.66	5.511601558
79,485.32	19.64124952
405,079.32	100.0972799
298,289.13	73.70885008
149,606.50	36.96857109
83,569.03	20.65035808
151,681.17	37.48123245
83,378.03	20.60315888
100,645.50	24.8700437
94.62501533	0.023382351
41,372.84	10.2234513
51,718.71	12.7799708
10,910.22	2.695973263
83,567.55	20.6499911
894.5207687	0.221040896
264,125.56	65.26684707
503,979.43	124.5360281
210,649.83	52.05270714
433,491.94	107.1181902
4,066.43	1.004837485
60,302.65	14.90110974
326,257.28	80.61992923
166,491.17	41.1408641
162,456.13	40.14378373
20,212.15	4.994532004
83,556.68	20.64730496
83,652.80	20.6710573
79,657.90	19.68389658
111,364.93	27.51887434
67.97310363	0.01679652
83,260.34	20.57407761
59,592.74	14.72568566
285,381.20	70.51922937
151,414.87	37.41542818
366.2560318	0.090503836
65,868.50	16.27646112
66,056.94	16.32302444

82,532.65	20.39426259
19.81062556	0.004895312
145,077.69	35.84947765
8.952457803	0.002212201
231,428.00	57.18710372
583,172.80	144.1051361
286,443.83	70.781812
141,048.11	34.85374652
103,798.51	25.64917143
82,381.25	20.35685094
329,375.37	81.39042633
598,399.27	147.8676806
154,554.58	38.19126831
575,364.92	142.1757676
74,731.05	18.4664458
83,556.82	20.64734061
83,538.43	20.64279514
377,166.45	93.19985946
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83,475.82	20.62732437
593.6774407	0.14670089
58,023.20	14.33784551
832.898459	0.205813691
55,642.77	13.74962869
83,213.01	20.56238368
131,990.14	32.6154747
52,015.27	12.85325393
502,011.26	124.0496847
68,534.46	16.93523503
83,646.58	20.6695189
166,504.54	41.14416895
153,608.35	37.95744872
58,648.61	14.49238629
296,034.58	73.15173669
621,762.39	153.6408324
83,691.64	20.68065512
3,313,136.53	818.693865
83,605.59	20.65939134
113,355.70	28.01080365
63,536.83	15.70029341
289,804.55	71.61226299
151,322.64	37.39263926
2,047.19	0.505871489
339,199.29	83.81796911
153,683.31	37.97597382
3,614.16	0.893078673
67,534.90	16.68823832

2,895.53	0.715500185
6,678,791.30	1,650.37
83,236.67	20.56822863
3,156.93	0.780093985
8,661,603.14	2,140.33
456.9007541	0.112902635
1,812,762.07	447.9432639
52,148.02	12.88605587
82,315.75	20.34066444
336,500.69	83.15113252
82,379.55	20.35643086
5,339.34	1.31938046
164,736.28	40.70722056
81,238.59	20.07449355
96,569.09	23.86274112
334.2093104	0.082584919
77,281.18	19.09659442
646,836.36	159.8367443
213,764.56	52.82237248
634,951.32	156.8998873
83,350.30	20.59630751
905,779.76	223.8230533
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654,729.43	161.7871646
3,738,817.88	923.8820187
255,901.63	63.23467051
1,142,810.33	282.3945828
70,692.90	17.46859716
724,929.97	179.1340976
231,340.19	57.1654064
1,348,931.71	333.3282841
169,797.21	41.95780405
146,586.34	36.22227334
2,579,868.76	637.4994531
597,932.13	147.7522462
82,518.81	20.39084145
9,944.39	2.457311618
60,258.20	14.89012524
83,604.66	20.65916026
103,405.25	25.55199451
739,754.25	182.7972569
284,027.51	70.18472712
70,561.24	17.43606179
64,216.72	15.86829778
83,575.98	20.65207406
80,904.14	19.99184902
245,743.49	60.72453978

318.6661533	0.078744121
167,490.62	41.38783387
138,590.58	34.24647745
435,637.37	107.6483374
10,325,932.45	2,551.59
82,374.52	20.35518812
164,348.22	40.61133063
1.392183006	0.000344016
61,644,772.30	15,232.75
51,343.63	12.68728707
83,661.93	20.67331317
163,530.05	40.40915617
20,196.31	4.990616514
167,139.88	41.30116425
299,254.82	73.94747552
20,196.38	4.990633164
493.3480879	0.121908967
17.99042737	0.004445531
497.8994447	0.123033632
154,149.80	38.09124615
1,008.53	0.24921282
1,434.34	0.354434202
69,217.11	17.10391971
65,571.01	16.20294929
2,609,258.27	644.76176
18,121.58	4.477940548
256,392.17	63.3558839
275.6803209	0.068122091
4,448.79	1.099319062
148.0209326	0.036576769
412.2165854	0.101860937
14.2945878	0.00353227
838,224.61	207.1298116
627,368.74	155.0261917
660,432.73	163.1964808
83,351.67	20.59664719
225,171.34	55.64104962
22,477,821.89	5,554.39
83,478.49	20.62798473
141,884.01	35.06030361
82,034.23	20.27110092
335,591.98	82.92658539
106.1954444	0.026241466
168.4324235	0.041620558
432,236.13	106.8078728
20,224.99	4.997702812
2,726.13	0.673640741

3,265.63	0.806954764
1,000,588,095.65	247,250.70
81,963.74	20.25368088
83,569.31	20.65042561
1,068,396.73	264.0065806
74,954.18	18.52158074
1,036,447.93	256.1118605
73,044.96	18.0498019
166,812.81	41.22034269
164,363.77	40.61517277
165,334.70	40.85509361
313,188.30	77.39051317
324,651.97	80.22324939
83,546.36	20.64475562
126,859.93	31.34777108
70,109.64	17.32446881
167,121.10	41.29652203
83,569.73	20.65052978
83,570.47	20.65071389
310,498.53	76.72585838
1,342,924.48	331.8438655
63,129.12	15.59954492
166,950.79	41.25443754
1,283,791.19	317.2317129
58,009.90	14.33455797
151,349.22	37.39920781
167,124.21	41.29729135
83,561.05	20.64838591
82,772.28	20.45347623
83,567.35	20.64994231
122,984.15	30.39004517
736,384.96	181.9646859
333,100.62	82.31095625
630,981.20	155.9188505
340,452.91	84.12774701
563,662.42	139.2840163
313,226.00	77.39983064
243,347.86	60.13256693
83,572.48	20.65120871
2.60821887	0.000644505
83,506.58	20.63492553
83,572.43	20.65119784
68,847.86	17.01267615
72,800.31	17.98934754
219,058.91	54.13063574
2,105,101.37	520.1818764
166,967.82	41.25864617



210,176.31	51.93569808
59.72830588	0.014759186
166,871.13	41.2347552
77,367.24	19.1178618
5.86956242	0.0014504
11,969.67	2.957768805
577.8801573	0.142797297
47,087.76	11.63563986
5,299.41	1.309511798
103,575.11	25.59396806
149,458.49	36.93199817
652,535.71	161.2450857
2,029,715.10	501.5535234
1.355697915	0.000335
97,792.47	24.1650467
154,393.35	38.15142714
151,314.50	37.39062686
11.96859527	0.002957504
77,717.42	19.20439248
237,830.81	58.7692731
17.88399273	0.004419231
83,417.21	20.61284045
718,489.41	177.5426004
74,070.44	18.30320412
1,243,633.55	307.3085429
263.1994201	0.065037993
244.3578329	0.060382136
371,611.94	91.82731093
274,008.87	67.7090667
6.7689933	0.001672655
161.7562992	0.039970852
79,714.72	19.69793542
135.225238	0.033414884
314.8810969	0.077808814
132,051.92	32.63073939
105.0840485	0.025966834
40.88088759	0.010101887
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164,313.33	40.60270836
11,277.56	2.786746031
590,908.07	146.0165652
65,664.34	16.22601253
70,728.01	17.47727192
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520,806.34	128.69405

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158,169.38	39.08450467
222,529.26	54.98817809
217,265.85	53.68756052
285,827.48	70.62950729
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653,783.20	161.5533462
73,631.50	18.19474101
66,980.64	16.55127727
83,572.37	20.65118249
411,462.76	101.6746626
57,990.79	14.32983639
539,118.00	133.2189594
2,911,235.04	719.3818453
341,133.37	84.29589252
5,871.57	1.450897173
413,031.28	102.0622518
275,727.79	68.13382108
83,572.98	20.65133345
213,837.40	52.84037175
167,185.46	41.31242633
877,817.27	216.9133723
83,646.69	20.66954623
167,178.33	41.31066554
2,651.48	0.655193889
87,125.93	21.52928707
362,423.13	89.55670547
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314,311.27	77.66800612
19,100.69	4.719884493
19,872.29	4.9105501
260,821.34	64.45035702
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477.920002	0.118096604
21,716.27	5.366207863
76,348.59	18.86614731
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184,218.53	45.52139028
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2,393,632.18	591.4793917
678,831.81	167.742993
4,595,397.22	1,135.55
1,399.52	0.34582984
95.56632317	0.023614953

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9,112.99	2.251868983
77,303.68	19.10215522
119,999.56	29.65253652
108,934.72	26.91835542
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229,108.06	56.61383465
20,458.68	5.055448822
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83,528.23	20.6402757
147,977.68	36.56608196
1,497.91	0.370141336
69,954.98	17.28625152
2,462.55	0.60850958
3,226.97	0.797400653
1,288,653.41	318.4331917
1,121,934.59	277.2360757
528,723.42	130.650403
111,644.24	27.58789131
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399.1955671	0.098643373
4,343,785.04	1,073.37
91.64705441	0.02264648
0.17913316	4.42648E-05
943,971.56	233.2604515
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23,871.40	5.898751499
215,999.00	53.37451477
65,303.36	16.13681215
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791,273.24	195.5278758
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13,282.88	3.282270218
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992,555.26	245.2657471
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281,122.70	69.46693211
60,353.26	14.91361486
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498,173.49	123.1013513
84,972.21	20.99709008
95,706.23	23.64952352
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230,772.44	57.02511114
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476,663.87	117.7862078
62.74704304	0.015505132
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162,283.26	40.10106599
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153,350.00	37.8936106
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110,004.91	27.18280467
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69,568.56	17.190765
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139,911.81	34.57296114
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56,501.43	13.96180744
112,342.58	27.76045549
142,919.09	35.31607632
635,979.57	157.1539736
141,034.42	34.85036466
29,225.57	7.221796074
19,879.29	4.912278885
212,463.18	52.50079502
305,523.18	75.49642084
333,729.26	82.46629549
76,565.95	18.91985917
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7,384.25	1.824687243
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131,520.81	32.49950113
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673,434.97	166.4094054
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132,578.14	32.7607709
60,378.31	14.91980508
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648,901.85	160.3471392
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507,140.90	125.3172467
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233,159.02	57.61484907
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43,544.09	10.75997878
309,726.31	76.53503734
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262,400.47	64.84056939
21,764.63	5.378157414
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118,243.00	29.2184823
646,188.61	159.6766818
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257,394.79	63.60363695
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496,780.98	122.7572546
24,273,670.63	5,998.15
360,943.15	89.19099512
27,503.22	6.796194532
2,171,512.89	536.5925199
2,606,231.03	644.0137126
323,525.61	79.94491857
326,020.25	80.56135785
231,795.59	57.27793793
235,830.76	58.2750509
2,384,011.69	589.1021171
1,099,517.18	271.6966129
1,149,049.82	283.9363935
2,625,026.77	648.6582412
452,633.80	111.848248
163,549.70	40.41401198
662,720.15	163.7617162
663,191.11	163.8780913
656,637.64	162.2586945
55,704,713.46	13,764.93
2,683,089.75	663.005915
664,149.65	164.1149529
2,588,236.71	639.5672197
723,967.23	178.896198
163,851.91	40.48868995
4,638,544.87	1,146.21

2,597,657.69	641.8951934
2,642,075.19	652.8709973
2,546,492.85	629.2520875
5,465.76	1.350618525
3,320.45	0.820500452
649,975.32	160.6123992
1,304,501.94	322.3494503
2,584,176.83	638.5640009
8,671,804.68	2,142.85
2,624,442.24	648.513801
19,911.43	4.92022194
1,970,638.30	486.9553298
48,073.50	11.87922021
25,796,928.52	6,374.56
2,610,246.74	645.0060173
2,258,056.39	557.9778866
350,165.89	86.52787576
1,996,847.09	493.4316616
1,149,143.43	283.9595258
8,912,493.19	2,202.33
162,246.80	40.09205782
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17,396.44	4.298754998
77,902.78	19.25019545
1,783,554.16	440.7258309
2,034,121.70	502.6424182
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1,628,165.11	402.3283604
8,424.77	2.081806008
2,593,505.18	640.869086
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2,997,803.79	740.7734481
9,538.47	2.357006154
16,469.84	4.069785504
8,981.59	2.219398412
2,596,013.27	641.4888486
43,439.35	10.73409632
2,633,880.66	650.8460847
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2,612,371.68	645.5310998
1,782,595.83	440.4890217
2,551,913.85	630.591645
645,943.37	159.6160829
1,600,905.53	395.592372
2,575,554.79	636.4334485
1,821,130.22	450.0110782

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97,840.59	24.17693542
77,177.68	19.07102052
3,954,323.40	977.1345928
6,765,380.99	1,671.76
64,150.81	15.85201001
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9,514.88	2.351178459
326,574.67	80.69835752
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2,590,559.53	640.1412009
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46,243.24	11.42695292
15,338.98	3.790345638
2,600,322.99	642.553804
483,779.42	119.5444987
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483,806.06	119.5510811
341,981.31	84.50542171
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77,352.66	19.11425754
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38,636.27	9.547229075
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43,285.26	10.69602114
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42,438.10	10.48668317
162,076.63	40.05000732
654,544.78	161.7415363
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2,603,340.05	643.2993352
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333,531.10	82.41733065

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659,995.24	163.0883745
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331,908.29	82.01632434
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326,404.65	80.6563463
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114,009.06	28.17225127
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1,293,632.26	319.663492
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9,485,979.86	2,344.04
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93,583.43	23.12496879

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36,550.76	9.031888405
491,701.07	121.5019805
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1,771,234.96	437.6816895
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1,035,749.73	255.9393319
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19,909.87	4.919836055
121,003.93	29.90072232
1,302,423.44	321.8358411
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85,394.04	21.10132697
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665,649.39	164.4855467
168,674.42	41.68035756
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1,148,080.91	283.6969718
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246,582.54	60.93187349
19,853,754.24	4,905.97
329,085.28	81.3187428
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16,973.49	4.194241064
19,482.58	4.814249371
2,672,459.86	660.3792142
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1,310,887.51	323.9273592
2,495,030.17	616.5353813
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122,042.27	30.1573019
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2,520,466.58	622.820855
1,308,646.89	323.3736896
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2,610,589.32	645.0906702
2,609,040.68	644.7079916
2,670,485.58	659.8913588

617,331.11	152.5458403
122,790.41	30.34217048
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288,273.14	71.23384436
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167,959.72	41.50374961
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70,903.48	17.52063203
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611.2350301	0.151039465
973.8311535	0.240638919
78,241.22	19.33382549
374,828.89	92.62223616
1,385,057.89	342.2552574
34,479.94	8.520179681
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164,016.83	40.52944132
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165,192.66	40.81999645
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168,047.96	41.52555643
167,040.39	41.27657943
165,969.72	41.01201034
165,986.18	41.01607749
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0.700508669	0.000173099
162,048.97	40.04317135
5,202,704.26	1,285.62
1,135,601.19	280.6131641
2,239,812.33	553.46968
1,915,858.28	473.418892
1,299,107.26	321.0163945
1,989,626.58	491.6474342
1,294,133.85	319.7874387
3,822,582.13	944.5806159
179.1046164	0.044257715
161,933.23	40.01457151
2,586,562.44	639.1534977
1,642,947.77	405.9812353
821,930.58	203.10347
2,442,238.90	603.4903752
34,096.08	8.425323807
3,080.02	0.761088375
2,578,037.71	637.0469913
2,569,772.04	635.0045007
2,661,327.84	657.6284319
11,796,003.01	2,914.86
305,492.18	75.48876106
645,156.43	159.4216261

97,869,918.68	24,184.18
2,573,631.78	635.9582631
1.28088371	0.000316513
1,125,598.57	278.1414641
2,557,683.89	632.0174528
1,255,156.04	310.1558121
2,568,428.22	634.672434
0.453601937	0.000112087
2,594,791.93	641.187049
1,315,005.88	324.9450287
1,289,731.87	318.6996852
2,569,515.73	634.9411637
2,583,404.06	638.3730466
318,963.64	78.81763111
161,475.50	39.90146558
1,764,796.11	436.0906159
487,635.00	120.4972333
3,936,780.58	972.7996677
1,301,788.25	321.6788828
279,286.07	69.01309042
162,823.01	40.23444303
804,579.67	198.8159654
319,924.16	79.05498196
0.047599795	1.17622E-05
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1,913,920.48	472.9400501
1,943,440.86	480.2346962
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0.678719293	0.000167715
2,554,496.69	631.2298799
238,973.29	59.0515855
10,062.73	2.486555968
2,247,229.75	555.3025636
0.440507588	0.000108852
19,727.31	4.874724288
209,669.41	51.81043941
1,926,248.77	475.986437
5.570031362	0.001376385
1,915,735.08	473.3884483
2,586,963.95	639.2527125
2,562,471.47	633.2004904
160,705.13	39.71110179
1,279,648.76	316.2080952



1,297,980.52	320.7379706
2,535,024.77	626.4182635
947,561.16	234.1474609
632,741.04	156.3537149
304,165.96	75.16104621
11,689,605.99	2,888.56
277,933,030.21	68,678.75
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686.2403338	0.169573679
130,177.23	32.16749488
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0.034125291	8.43254E-06
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553.2592705	0.136713343
1,056.21	0.260995659
1,711,878,781.69	423,014.46
430,321,214.62	106,334.69
328,105.24	81.07657072
243,145.34	60.08252127
66,647.02	16.46883746
276.2677989	0.06826726
67,274,944.93	16,624.00
183,224.21	45.27568843
152,303.67	37.63505768
158,531.39	39.17395837
4.650071169	0.001149058
1,698,560.69	419.7234868
1,025.14	0.253317186
9,480.44	2.342668726
483.0307804	0.119359505
164.4839593	0.040644872
280,792.68	69.38538136
1,461.92	0.361248708
11,188.35	2.764701892
26.52857273	0.006555353
34,325.96	8.482129609
2,947.50	0.728343348
22,499.79	5.559820058
221.270691	0.054677179
2,312.13	0.571339686
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1,272.13	0.314350647
1,870.73	0.462266349
6,739.10	1.665266733
207.6334547	0.051307344

25,935.74	6.40886087
2,756.93	0.681253301
4,827.60	1.192925904
1,021.34	0.252379063
12,123.20	2.995707958
3,524.21	0.87085012
307,264.45	75.92669801
28,982.55	7.161742974
1,264,105.12	312.3671777
649,706,130.53	160,545.88
262,981.98	64.98426279
72,727,763.67	17,971.42
1,152.98	0.28490828
2,040.01	0.504097263
547.1836129	0.135212015
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4,105.44	1.014476324
1,732,474,680.70	428,103.82
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564.731085	0.13954809
462.1607666	0.114202413
873.8329566	0.215928826
30,966.51	7.651991282
720.972695	0.178156233
714.2115662	0.176485522
2,801.05	0.692155165
28,062.81	6.934471823
6,289,092.60	1,554.07
295,177.50	72.93994882
2,568,222.99	634.6217216
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1,926,957.59	476.1615904
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2,078,159.89	513.5244916
2,591,413.71	640.3522726
81,631.11	20.17148762
44,161,612.76	10,912.57
2,578,538.65	637.1707775
2,567,912.87	634.5450893
8,424,803.58	2,081.81
1,559,799.97	385.4349673
362,008.89	89.45434506
2,590,202.86	640.0530658
161,307.85	39.86003782
2,559,841.75	632.5506717

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635,478.01	157.030035
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2,593,662.99	640.9080818
4,444,096.73	1,098.16
2,577,790.38	636.9858763
2,601,450.07	642.8323112
1,926,953.25	476.1605168
2,578,391.15	637.1343299
2,594,187.30	641.0376412
2,582,263.31	638.0911615
2,558,107.47	632.1221225
2,616,950.13	646.6624594
2,597,997.22	641.9790943
2,528,563.41	624.8216262
2,605,887.34	643.9287846
242,866.85	60.01370547
25,767.24	6.367223103
320,975.95	79.31488486
934,676.33	230.9635523
2,592,906.22	640.7210795
647,663.48	160.0411319
1,122,781.41	277.4453295
309,860.78	76.56826679
2,680,984,639.59	662,485.73
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52,438,237.86	12,957.77
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5,244,710.27	1,296.00
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2,595,519.83	641.3669167
2,584,450.75	638.6316873
1,934,222.64	477.9568242
45,894.32	11.34073349
80,737.42	19.95065041
2,570,516.49	635.188459
102,504,240.54	25,329.35
1,855,516.72	458.5081674
10,337,848.52	2,554.54
0.453997223	0.000112185
2,586,470.60	639.1308032
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1,936,720.36	478.5740222
322,804.71	79.76678195
2,590,267.60	640.0690642
1,938,693.43	479.0615799

2,543,664.49	628.553185
1,937,339.30	478.7269677
288,213,174.63	71,219.03
1,377,730.12	340.444528
2,563,855.18	633.5424115
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2,988,056.56	738.3648549
27,997,136.78	6,918.24
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1,332,807.74	329.3439645
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2,550,129.45	630.1507116
2,598,245.69	642.0404928
16,299.15	4.027608775
5,814,923.79	1,436.90
2,739,367.38	676.9124223
41,360.31	10.22035506
2,599,678.38	642.3945177
21,460.94	5.303114263
2,599,557.98	642.3647654
2,706,626.31	668.8219278
399,312,612.35	98,672.30
2,754,330.07	680.6097822
5,250,277.02	1,297.37
653,330.43	161.4414658
2,693,070.00	665.4720899
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1,926,609.69	476.0756212
2,581,771.07	637.9695256
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20,137.52	4.97608909
121,555.54	30.03702905
466,513.44	115.2779825
970,317.67	239.770718
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19,981.33	4.937495094
260.7258442	0.064426759

660.7181242	0.163267004
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1,183.86	0.292538058
12,866.35	3.179343649
1,910.84	0.472179391
18.40915588	0.004549001
204.1805549	0.050454114
54,240.58	13.40313893
2,242,651.35	554.1712182
3,214.85	0.794405733
2,447,522.91	604.7960833
1,049.94	0.259445939
2,830.29	0.699380103
225.2380636	0.055657538
223.5160168	0.055232011
10.5570325	0.0026087
4,273.65	1.056040861
506.9203269	0.125262741
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1,631,024.02	403.0348117
87,384.99	21.59330124
449.3095959	0.111026819
2,049.38	0.506414037
1,418.34	0.350478655
85,386.10	21.09936433
2,516,335.49	621.8000404
649,782.44	160.5647383
470,940.12	116.3718389
881.2987006	0.217773652
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1,298,586.11	320.8876153
9,162.27	2.264046997
13,568.52	3.352855182
251,069.73	62.04068078
46,126.05	11.39799418
266,844.18	65.93863402
7,681.43	1.898123331
1,119.55	0.276646685
2,501,872.75	618.2262213
171.328273	0.042336138
1,659.78	0.410141399
1,927.94	0.476403895
5,546.44	1.370554837
697.6441393	0.172391621
0.218770246	5.40593E-05
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232,124.28	57.35915887

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31,206.31	7.711247451
2,548,029.51	629.6318042
4,871.77	1.203841286
268.9774067	0.066465765
807.5267139	0.199544197
42,280.21	10.44766765
2,661.00	0.657548266
16,757.54	4.14087886
2,143.27	0.529613807
495.5772424	0.122459804
582,298.10	143.8889931
1,686.70	0.416792329
110.62567	0.027336198
483.4302957	0.119458228
2,636.72	0.651547057
1,203.84	0.297476026
631.4526747	0.156035354
82,660.60	20.42587983
2,779.38	0.686800063
94,043.74	23.23871322
38,723.85	9.568870903
4,818.43	1.190660294
9,871.43	2.439282302
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9,232.67	2.281443149
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722,260,736.30	178,474.51
16,293.47	4.026204547
2,551.90	0.630587172
8,973.16	2.217314928
9,743.10	2.407571876
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16,687.70	4.123620974
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21,187.89	5.235641961
30,734.48	7.5946543
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2,405.22	0.59434212
489.2315606	0.120891751
100,666.84	24.87531788
671.3498826	0.165894169
4,100.46	1.013245813
1,890.72	0.467207194
2,811.13	0.694645065

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5,571.64	1.376781643
751.2081083	0.185627566
132,155.13	32.65624358
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6,884.28	1.701142626
21,724.36	5.368205067
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13,578.13	3.355229233
3,184.27	0.786849935
121,176.42	29.94334508
1,114.37	0.275365603
648,907,817.76	160,348.61
20,903.09	5.165266741
4,494.79	1.110687861
260.4372179	0.064355438
395.1402171	0.097641274
48.44614924	0.011971304
2,816.43	0.695955833
87,088.66	21.520076
15.33335509	0.003788955
663.8146744	0.164032178
322.7183547	0.079745442
960,392.17	237.3180734
937,892.42	231.7582639
84,620.27	20.91012334
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272,025.78	67.21903427
676.9453539	0.16727684
99,542.29	24.59743648
122,896.76	30.36844959
29,263.60	7.231193131
951.4166018	0.235100162
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2,385,557.15	589.4840094
139,512.73	34.47434657
857,532.56	211.9009105
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162,394.94	40.12866326
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649,031.11	160.3790794
252.6170375	0.062423029

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1,869.95	0.462075102
4,450.79	1.099813232
542.3125732	0.134008355
1,996,383,504.66	493,317.11
9,113.54	2.252005959
109,237.02	26.99305641
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36,207.44	8.947053951
255,909.23	63.23654772
1,250,126.76	308.9130509
2,307,848.50	570.2817828
1,007,726,445.15	249,014.63
1,439.47	0.355700542
1,766.27	0.436454007
4,301.29	1.0628727
9,514.47	2.351077395
2,210.78	0.546295799
28,059.17	6.933570758
13,518.79	3.340564648
23.7804498	0.005876277
77,671,640.96	19,193.08
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325,173.61	80.3521483
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647,786.64	160.0715646
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1.022765427	0.000252731
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16,093,738.59	3,976.85
161,835.69	39.99047097
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161,671.94	39.95000606
973,789.91	240.628728
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168,866.06	41.72771248
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335,889.87	83.00019478
323,366.47	79.90559405
120,997.76	29.8991985
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45,808.47	11.31952055
162,320.83	40.11034972
1,290,588.50	318.9113646
323,222.77	79.87008602
971,177.66	239.983225
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164,125.54	40.55630441
34,084.58	8.422482813
4,973,825.41	1,229.06
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44,150.95	10.90993805
161,607.89	39.93417889
197,027.94	48.68666337
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111,129.07	27.46059151
377,328.25	93.23984046
0.398870887	9.85631E-05
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367.507611	0.090813108
6,571.67	1.623893856
640.3242898	0.158227578
84.86712915	0.020971124
45.55767954	0.011257548
628.8783418	0.155399223
30,773.73	7.6043542
4,306.97	1.064274799
145.5319577	0.03596173
440.4919139	0.108847922
53,556.20	13.23402619
3,869.11	0.956078533

32.71193732	0.008083296
7,199.16	1.77895085
11,615.62	2.87028214
655.8496786	0.162063985
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890.711519	0.22009961
339,457.36	83.88174162
24,090.64	5.952925573
3,393,149.38	838.4654729
604,757.60	149.4388573
488,418.57	120.6908564
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19,529.23	4.825777536
181,410.94	44.82761932
159,331.66	39.37171054
1,660,742,819.26	410,378.49
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15,758.85	3.894097258
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102,950.60	25.43964774
145,012.79	35.83344042
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484,703.31	119.7727966
843,244.90	208.3703535
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162,850.02	40.24111706
263.8184828	0.065190967
4,718.15	1.16588138
8,916.44	2.203300112
125,733.81	31.06950156
16,234.98	4.011749874
161,411.20	39.88557727
162,700.48	40.20416441
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161,321.14	39.86332252
324,208.59	80.11368818
159,064.82	39.30577278
63,596.24	15.71497214
162,880.25	40.24858552
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15,139,261.89	3,740.99
18,870.97	4.663118286
48,026.45	11.86759486

16,630.06	4.10937697
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108,129.07	26.71927539
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590.7245483	0.145971215
49,254.90	12.17115166
10,604.15	2.620343671
16,493.65	4.075669787
27,063.90	6.687635113
5,343.85	1.32049419
26,961.41	6.662309935
151,663.13	37.47677679
96,319.20	23.80099193
10,471.65	2.587600076
126.4528467	0.031247179
3,835.10	0.947673307
55,268.84	13.65722728
362.7418606	0.089635466
16,004.37	3.954767079
328.4817523	0.081169609
57,033.87	14.09337628
40,757.83	10.0714787
21,985.86	5.43282442
19,003.77	4.695932608
29,104.99	7.191999679
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162,460.76	40.1449275
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161,943.36	40.01707453

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647,531.84	160.008602
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87,533.85	21.63008537
1,299,184.62	321.03551
1,927,125.11	476.2029855
425,165.58	105.0607029
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161,683.77	39.95293051
162,194.27	40.07907682
75,908.93	18.75750502
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44,937.99	11.10441819
1,226,697.02	303.1234362
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2,402,627.79	593.7022574
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328,646.32	81.2102745
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652,985.47	161.3562238
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2,704,029.50	668.1802409
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83,534.70	20.64187273
36,629.02	9.051229096
80,565.95	19.90828062
241,334.75	59.63511531
92,038.20	22.74313535
164,323.07	40.6051159
53,580.48	13.24002488

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315,030.89	77.84582922
4,208,687.97	1,039.99

6,118,082.37	1,511.81
21,835,037.88	5,395.56
668,774.46	165.2577685
373,278.73	92.23918226
610,500.67	150.8580006
156,788.62	38.74331086
645,946.37	159.6168239
162,041.63	40.0413599
84,591.51	20.90301847
38,136,721.70	9,423.79
485,810.99	120.0465098
161,923.21	40.01209657
487,633.26	120.4968022
83,408.13	20.61059857
4,283,181.81	1,058.40
1,136,031.23	280.7194304
322,506.99	79.69321255
948,136.36	234.2895963
160,595.11	39.68391518
3,002,385.00	741.9054917
163,176.12	40.32169826
1,288,079.95	318.2914878
162,697.23	40.20336115
815,074.37	201.409262
965,729.76	238.6370213
162,520.05	40.15957912
327,787.10	80.9979561
162,637.75	40.18866272
486,006.61	120.0948485
324,068.91	80.07917278
161,525.94	39.91393006
312,884.57	77.31546067
1,121,742.04	277.1884959
953,165.98	235.5324423
161,836.29	39.99061806
654,132.57	161.6396789
487,538.94	120.4734956
160,645.19	39.69629068
162,841.03	40.23889565
11,358,680.43	2,806.79
323,270.93	79.88198691
50,531,919.15	12,486.71
93,042.79	22.9913739
447,979.86	110.6982349
165,019.18	40.77712782
642,462.17	158.755859
962,042.48	237.7258739



172,161.05	42.54192084
310,218.60	76.65668454
18,126.06	4.479047739
167,655.14	41.42848664
1,586,110.60	391.9364641
2,447,165.92	604.7078676
162,746.19	40.21545993
1,619,743.73	400.247393
810,351.09	200.2421147
163,152.07	40.31575418
162,350.51	40.11768577
473,092.51	116.9037049
153,314.96	37.88495195
163,655.54	40.44016376
161,508.35	39.90958237
1,110,609.42	274.4375638
161,971.54	40.02403929
107,543,000.10	26,574.45
165,446.70	40.88277114
279,551.83	69.07876157
205,172.72	50.69928419
647,650.87	160.0380152
323,687.68	79.98496852
161,357.79	39.8723777
807,206.34	199.4650306
164,076.98	40.54430369
480,512.64	118.7372601
132,851.19	32.82824275
664,077.78	164.0971944
163,317.66	40.35667149
162,878.91	40.24825636
160,743.89	39.72068066
43,014,265.98	10,629.06
160,267.36	39.60292695
120,387.89	29.74849455
904.3589758	0.22347197
2,541.95	0.628129955
51,535,542.88	12,734.71
85,575.41	21.1461432
321,672.12	79.486911
161,752.17	39.96983259
8,377,704.14	2,070.18
14,490,150.53	3,580.59
283,243.84	69.99107666
654,959.32	161.8439735
2,742,432.82	677.6699089
810,722.08	200.3337884

135.208267	0.03341069
323,465.30	79.93001668
324,790.44	80.25746579
161,371.21	39.87569471
323,751.41	80.00071627
161,983.32	40.02694916
162,218.68	40.08510968
4,458,328.16	1,101.68
311,511.64	76.9762032
638,561.30	157.791933
1,242,877.47	307.121711
128,957.07	31.86598711
321,707.25	79.49559194
200.7276994	0.049600895
20,925,097.97	5,170.70
1,368.63	0.338196122
241,916.20	59.77879404
72,840.54	17.99928824
18,839.82	4.655421771
160,477.95	39.65496561
1,621,013.06	400.5610511
18,415,922.99	4,550.67
699,027.33	172.7334143
324,311.99	80.13923779
163,596.67	40.42561674
1,602,770.98	396.0533345
488,459.35	120.7009339
54,782.86	13.53714001
836,509.95	206.7061111
263.3935393	0.065085961
809,611.13	200.0592665
13,612,756.75	3,363.79
1,288,790.04	318.4669542
162,922.79	40.25909933
156,284.86	38.61882913
643,337.70	158.9722076
195,564,485.47	48,325.04
388,465.40	95.99188992
953,183.11	235.5366767
320,338.88	79.15746055
144,515.35	35.71052175
63,289.27	15.63911837
163,242.81	40.33817705
160,940.83	39.76934579
613.4379331	0.151583814
635,563.89	157.0512565
37,129.34	9.174859048

157,531.19	38.92680435
499,871.29	123.5208852
29,952.82	7.401503757
26,921.05	6.652337001
143,748.92	35.52113241
271,546.79	67.10067346
3,102,420.65	766.6248385
1,092,133.24	269.872
164,667.74	40.69028372
159,936.10	39.52107017
78,039.19	19.28390368
1,444,507.87	356.9456681
159,930.15	39.51960028
326,889.74	80.77621422
255,513.26	63.13870223
164,676.49	40.69244642
161,828.27	39.98863754
163,184.11	40.32367223
1,136,751.53	280.8974211
1,304,989.46	322.4699172
3,030,136.62	748.7630648
163,236.43	40.33660051
160,839.57	39.7443222
159,163.73	39.33021389
4,206,102.03	1,039.35
158,104.86	39.06856237
643,931.46	159.1189303
356,950.56	88.20440391
3,221,208.92	795.9780582
484,285.17	119.6694715
35,061.84	8.663968798
809,944.17	200.1415623
88,237.80	21.80403628
162,396.52	40.12905471
60,367,937.29	14,917.24
304,368.61	75.21112231
816,004.09	201.6390026
69,278.33	17.11904786
59,874.89	14.79540836
88,875.67	21.96165648
321,032.71	79.32890983
5,629,507.43	1,391.08
5,609,290.50	1,386.09
323,725.97	79.9944303
6,617,212.29	1,635.15
226,482.08	55.96494103
161,670.98	39.94976926

326,637.65	80.71392187
160,452.36	39.64864225
321,483.67	79.44034423
43,672.52	10.79171485
158,166.11	39.08369572
4,575,644.26	1,130.67
161,787.71	39.97861323
160,797.35	39.73389134
47,278.01	11.68265
16,935,200.82	4,184.78
2,294,860.98	567.0724967
164,693.28	40.69659698
161,323.80	39.86397912
140,708.84	34.76991147
2,086,902.97	515.6849538
657,264.29	162.4135428
161,370.04	39.87540497
198,042.08	48.93726339
162,112.43	40.05885319
1,475,568.67	364.6209589
498,084.94	123.0794699
4,060.27	1.003315796
58,187.21	14.37837153
165,702.65	40.946017
1,021.76	0.252483585
775,816.32	191.708388
485,973.91	120.0867696
5,236,182.02	1,293.89
10,750.29	2.656453906
1,322,007.80	326.6752411
21,287.60	5.260280872
15,359.01	3.795293504
2,911,204.21	719.3742265
648,735.16	160.3059492
163,347.44	40.36403199
158,798.79	39.24003586
166,223.27	41.07466422
48,387.20	11.95673794
162,098.09	40.05531099
168,200.08	41.5631451
165,046.32	40.78383495
101,063.58	24.97335506
324,080.53	80.08204283
56,365.31	13.92817125
160,643.80	39.69594662
161,147.82	39.8204943
1,631,213.88	403.0817281

132,729.84	32.7982583
322,346.15	79.65346878
276,719.43	68.37885957
16,777.71	4.145862407
83,864.60	20.72339437
48.18442801	0.011906631
12,011,713.84	2,968.16
13,093.30	3.235425211
162,211.95	40.08344621
161,919.73	40.01123632
581,126.17	143.5994029
806,866.47	199.3810473
69,988.45	17.29452274
6,108,760.30	1,509.51
50,389.05	12.45140654
41,185.62	10.17718905
169,983.73	42.00389476
14,600.05	3.607750585
16,085.78	3.974883824
26,774.47	6.616115787
161,932.49	40.01438977
127,147.62	31.41886223
776.3163187	0.19183194
1,985.08	0.490523375
13,843.45	3.420791959
163,316.00	40.35626322
4,575.79	1.130702401
163,184.57	40.32378583
354,561.77	87.6141208
474,766.69	117.3174047
161,232.16	39.84133418
21,427.61	5.294878306
5,913.55	1.461269289
20,424.72	5.047059395
982,555.17	242.7946698
88,930.73	21.97526206
69,371.61	17.14209807
38,599.16	9.538061325
5,602.51	1.384411592
2,373.24	0.58643945
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6,457.13	1.595592714
4,231.94	1.045735286
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2,978.11	0.735906193
352,221.97	87.03594513
85,861.73	21.21689556

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7,732.99	1.910862725
244,230.29	60.3506179
30,994.44	7.658892613
34,085.38	8.422681674
3,041.27	0.751515089
3,841.13	0.949162803
18,493.83	4.569924032
1,142,519.12	282.3226223
1,096.16	0.270866662
22.13229725	0.00546901
44,706.80	11.04729021
967.4820946	0.239070032
5,878.05	1.452497483
1,836.95	0.453921427
1,410.65	0.348580256
38.03120304	0.009397715
3,426.80	0.846779651
4,403.08	1.088025505
6,158.55	1.521810286
2,022.11	0.499673845
555,178.95	137.1877074
2,130.70	0.526507021
1,995.73	0.493156088
11,534.23	2.850171001
158,745.71	39.22692014
3,312,655.98	818.5751189
36,234.07	8.953632707
250,495.76	61.89884968
483,794.32	119.5481794
322,485.97	79.68801951
235,526.76	58.19993063
163,092.07	40.3009292
161,119.14	39.8134067
685,570.45	169.4081477
277,823.36	68.65164788
322,422.82	79.67241459
3,758,284.95	928.6924355
268,550.21	66.36020246
160,927.01	39.76592952
161,925.33	40.0126205
639,618.99	158.0532955
5,104.94	1.261458752
82,213.83	20.31548046
1,669,805.70	412.6179754

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645,653.09	159.5443534
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16,957,110.97	4,190.19
160,788.09	39.73160209
644,683.22	159.3046924
24,553.64	6.06733633
283,309.53	70.00730868
161,750.21	39.96934629
468,524.45	115.7749136
323,049.99	79.82739182
488,415.67	120.6901416
483,286.80	119.4227684
4,267.95	1.054633123
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2,101,100.41	519.1932195
162,990.46	40.27582032
235,654.41	58.23147204
649,533.66	160.503263
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160,155.22	39.57521671
382,566.88	94.53433517
323,122.79	79.84538007
47,830.81	11.81925177
60,780.35	15.0191505
109,365.32	27.02475904
486,142.48	120.1284231
324,966.41	80.30094949
1,451,620.28	358.7031843
160,889.82	39.75673956
322,379.22	79.66164059
177,544.82	43.87228135
40,022.51	9.889776841
322,012.11	79.5709244
321,693.91	79.4922965
179,791.37	44.42741507
285,578.04	70.56786954
1,288,779.21	318.4642795
874,202.24	216.020077
97,954.78	24.20515209
526,077.45	129.9965683
67,344.83	16.64126939
323,706.42	79.9895994
14,274.37	3.527273271
96,615.66	23.87425006
516,435.60	127.614016
324,219.57	80.11639941

69,321.32	17.12967086
964,031.17	238.2172895
15,171.00	3.748836525
213,640.43	52.79169925
213,030.26	52.64092317
1,313,670.79	324.6151206
488,714.04	120.7638701
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160,286.59	39.60767803
161,491.07	39.90531198
1,244,682.58	307.5677633
325,960.31	80.54654582
966,781.48	238.8969072
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160,509.77	39.66282762
21,514.33	5.316307778
18,249.22	4.509481304
366,669.90	90.60610599
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7,911.22	1.954903978
159,622.40	39.44355354
353,501.50	87.35212394
1,120,271.33	276.8250753
79,619.96	19.67452178
149,769.41	37.00882659
172,907.78	42.72644386
159,128.81	39.32158485
18,119.89	4.477523069
22,146.01	5.4723974
138,361.30	34.18982128
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3,482.97	0.860659979
7,059.01	1.744320066
161,575.11	39.92607992
30,932.93	7.643692773
57,531.21	14.21627055
7,740.02	1.912600762
155,785.03	38.49531868
9,070.84	2.241453158
6,392.11	1.579524218
4,084.22	1.009231706
3,336.07	0.824360854
110,081.68	27.20177443
11,960.85	2.955590184
9,841.67	2.431930367
43,277.31	10.69405702



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22,150.14	5.473418444
356.4798722	0.088088095
3,815.55	0.942844107
24,271.83	5.997698821
5,129.32	1.267482902
13,687.03	3.382139604
17,496.50	4.323479472
3,086.70	0.762740963
223,215.89	55.15784684
322,822.15	79.77109139
1,116.93	0.275998179
790.7306405	0.195393797
434.4187888	0.107347221
45,529.06	11.25047653
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4,745.99	1.172759888
6,450.29	1.593901687
3,017.59	0.745663511
162,823.49	40.23456037
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5,710.59	1.411118511
899.7993059	0.222345251
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1,608,962.69	397.583338
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164,897.32	40.74701519
170,412.96	42.10996049
474.2957778	0.117201039
59,872.32	14.79477183
160,828.31	39.74154095
23,759.16	5.871016141
328,306.43	81.12628581
336,396.26	83.12532715
225,898.43	55.82071762
98,520.39	24.34491941
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161,351.64	39.87085765
318.4601977	0.078693229
291,503.16	72.03199971
10,027,046.47	2,477.74
1,084.43	0.267967412
15,072.16	3.724410813
6,462,747.24	1,596.98
4,099,537.06	1,013.02

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811,504.10	200.52703
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3,241.08	0.800888277
422,274.65	104.3463395
16,318.00	4.032265448
1,158,001.73	286.1484586
2,137,641.85	528.2228038
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32,321.87	7.986907382
3,291.10	0.813247681
67,296.42	16.62930665
11,864.96	2.931894933
255,256.70	63.07530323
62,362.20	15.41003573
10,916.96	2.697640117
48,129.14	11.8929685
41,780.13	10.32409406
14,817.74	3.661542627
649,770.70	160.5618356
44,807.53	11.07218127
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6,049.49	1.494862615
19,884,565.40	4,913.58
24,747.56	6.115255527
191,586.91	47.34215716
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6,865.94	1.696610544
142,456.03	35.20165086
44,359.45	10.96145813
2,734.62	0.675739883
24,491.54	6.051990199
37,787,406.47	9,337.47
80,604.61	19.91783183
37,194.44	9.190947459
86,255.02	21.31407889
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34,482.07	8.520704036
7,051.76	1.742528938
9,829.22	2.428853848
147,936.26	36.55584685
12,900.57	3.187799754
35,994.66	8.894475153
1,625.87	0.401760834
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51,293.96	12.67501247

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41,185.54	10.17716804
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36,565.66	9.035572024
32,202.59	7.95743429
735,458.85	181.7358409
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79,975.83	19.76245817
27,187.24	6.718113522
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198,693.91	49.098333333
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14,537.61	3.592320884
161,541.31	39.91772687
7,391.26	1.826419369
140,630.07	34.75044619
46,226.25	11.42275543
33,000.39	8.154574389
30,424.53	7.518064262
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10,065.13	2.487148399
45,896.37	11.34124115
216,655.73	53.53679802
1,126,765.61	278.4298468
87,322.03	21.57774361
67,834.76	16.76233336
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5,665.08	1.399871203
105,770.08	26.13635614
5,309.12	1.311912042
14,816.19	3.661160954
165.9727392	0.041012757
4,238.20	1.047281193
5,153.51	1.273460066
583,610.71	144.2133467
195,247.38	48.24667773
41,665.24	10.29570547
1,459.92	0.360753729
624,750.69	154.3792571
2,244.18	0.554548844
75,907.97	18.75726778
3,714.24	0.917807621
160,969.78	39.77649897
10,904.74	2.694618719
8,898,038.46	2,198.75
16,985.47	4.197200729

315,272.82	77.90561166
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5,593.12	1.382091007
20,242.27	5.001974338
65,220.02	16.11621864
74,224.46	18.3412647
7,107.84	1.756386497
4,984.50	1.231695579
26,278.23	6.493491273
16,087.54	3.975317049
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49,189.87	12.15508124
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160,742.05	39.72022586
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29,415.03	7.268612234
1,202.62	0.297172806
243,098.22	60.07087779
3,662.35	0.90498682
6,414.27	1.584999464
12,421.32	3.069374956
14,488.26	3.580125887
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74,965.20	18.52430556
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213,029.85	52.64082309
102,098.48	25.22908264
13,691.52	3.383247178
5,674.39	1.402173076
2,479,810.36	612.7744851
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84,129.12	20.78875775
162,996.77	40.27737948
1,063,040.89	262.6831254
6,087.46	1.504244971
163,861.35	40.49102032
646,970.68	159.8699357
9,156.84	2.262704961
12,365.27	3.055524912
201,946.36	49.90203336
164,875.69	40.74167098
1,183.92	0.29255225
234,997.23	58.06907945
6,390.96	1.579240487

27,906.58	6.89586495
133,394.38	32.96246887
13,179.50	3.256725371
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26,050.90	6.437316773
27,876.43	6.888414873
33,502.00	8.278524849
21,047.78	5.20102008
28,768.00	7.108728812
31,993.05	7.905656023
242,042.27	59.80994727
4,967,695.21	1,227.54
109,047.36	26.94618836
11,458.24	2.831393671
2,069,753.92	511.4473318
646,942.94	159.8630814
7,724.28	1.908711027
331,047.85	81.80370596
196,308.47	48.50888015
20,368.81	5.033242809
364.4086252	0.090047332
12,972.47	3.205567198
7,872.71	1.945388346
111,197.26	27.47744145
8,108.56	2.003668162
7,083.40	1.750345879
322,198.04	79.6168694
323,125.60	79.84607552
161,082.65	39.80438905
1,561,598.47	385.879386
159,228.24	39.34615507
162,131.86	40.06365523
743.79016	0.183794551
2,550.58	0.630262818
491,093.68	121.3518907
23,274.56	5.751268061
4,185.40	1.034235663
185,167.89	45.75598298
14,028.25	3.466455562
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67,223.52	16.61129246
103,374.61	25.54442208
387,762.31	95.81815307
182,155.32	45.01155895
681,624.42	168.4330616

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131,715.52	32.54761362
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80,763.65	19.95713259
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146,607.50	36.22750276
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174,455.22	43.10882381
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30,313.09	7.490527331
216,261.31	53.43933269
323,787.86	80.00972332
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73,030.83	18.04631219
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209,211.39	51.69726045
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509,731.25	125.9573353
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50,689.75	12.52570948
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27,181.11	6.716598148
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6,233.61	1.5403586
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19,601.91	4.843737943
459,297.69	113.4949319
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522,051.71	129.0017876
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527,390.00	130.3209061
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139,319.45	34.42658604
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161,115.93	39.81261318
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81,715.16	20.19225664
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72,430,113.39	17,897.87
324,765.67	80.25134522



644,454.78	159.2482454
48,235.20	11.91917658
647,364.72	159.9673059
326,410.59	80.65781245
161,440.19	39.89274089
5,238,578.35	1,294.48
2,367,433.04	585.0054448
1,037,056.84	256.2623263
324,192.69	80.10975747
320,167.51	79.11511434
646,597.98	159.7778406
809,026.14	199.914713
649,692.76	160.5425767
325,172.50	80.35187398
571,233.41	141.1548494
5,532,497.51	1,367.11
4,357,657.92	1,076.80
2,221,383.45	548.9158045
9,845,137.96	2,432.79
323,007.11	79.81679421
7,312,344.03	1,806.92
3,238,839.60	800.3346953
94,039.45	23.23765404
645,347.05	159.4687297
1,892,109.79	467.5505118
2,610,618.47	645.0978733
1,895,941.44	468.4973333
20,107.30	4.968622437
320,057.71	79.08798136
1,296,989.92	320.4931895
2,603,600.14	643.3636067
1,142,713.45	282.3706434
910,443.69	224.9755353
159,770.55	39.48016354
1,931.35	0.477246488
643,865.81	159.1027057
1,790,470.37	442.434864
969,539.95	239.5785403
11,650.05	2.878790008
160,116.07	39.56554318
628,212.46	155.2346801
23,007.07	5.685171348
417,513.53	103.1698404
56,928.29	14.06728583
307,758.25	76.04871932
2,590,472.98	640.1198145
5,305,811.65	1,311.09

648,243.40	160.1844321
161,670.75	39.94971248
2,589,532.55	639.887428
7,444,187.61	1,839.50
478,367.78	118.2072537
81,819.58	20.21805927
643,324.03	158.9688299
23,005,912.31	5,684.88
46,140,574.27	11,401.58
3,582,416.56	885.2344102
13,210,251.69	3,264.32
83,547.40	20.64501321
2,017,437.61	498.5196897
57,620.19	14.23825829
653,689.00	161.530069
20,211.39	4.994343905
20,048.25	4.954031611
302,333.91	74.70833718
391,980.91	96.86059168
244,813.07	60.49462736
68,354.35	16.89072745
325,824.22	80.51291815
325,494.41	80.43142097
34,313.29	8.478998789
1,294,537.13	319.8870916
9,603,610.09	2,373.10
1,821,034.16	449.9873403
8,706.98	2.151542204
2,583,915.63	638.4994562
20,398.62	5.040608633
20,792.91	5.138039998
200,767.20	49.61065622
80,235.53	19.82663243
649,983.89	160.6145178
15,508,382.67	3,832.20
1,935.18	0.478193641
3,901.95	0.964192623
3,902.20	0.964255421
3,901.92	0.964185572
3,902.38	0.964299901
3,901.90	0.964180274
1,284,118.17	317.3125105
3,344.82	0.826523907
1,820.58	0.449875605
1,820.59	0.449877344
3,910.18	0.966226542
2,578,404.04	637.1375135

3,901.90	0.964181107
3,902.00	0.964206192
3,901.93	0.964186896
3,901.97	0.96419879
3,344.50	0.826443618
2,540.94	0.627878912
2,940.12	0.726518898
3,900.91	0.963936442
3,901.96	0.964195133
3,901.97	0.964197182
3,344.48	0.826439453
3,473.27	0.858262587
3,861.16	0.954114162
3,900.95	0.963945462
3,901.92	0.964184239
3,901.92	0.964186292
3,344.11	0.82634664
2,370.44	0.585747963
4,168.07	1.029952917
3,901.75	0.964142761
3,902.02	0.964211241
3,901.78	0.964151095
3,902.08	0.964225899
3,344.28	0.826390657
1,921.36	0.474778665
2,954.46	0.730062866
3,901.20	0.964006669
3,901.76	0.964145396
3,901.72	0.964137216
3,901.14	0.963992833
3,901.76	0.964146341
3,901.92	0.964184409
2,573.41	0.635903472
3,901.96	0.964195161
3,343.78	0.826266014
659.7530059	0.163028518
3,210.84	0.793416835
3,902.00	0.964204406
3,904.27	0.964767083
3,902.33	0.964286585
3,901.92	0.964185683
3,900.75	0.96389536
3,900.85	0.963922125
3,900.72	0.963889617
3,343.69	0.826243215
2,593,202.85	640.7943784
502,008.24	124.048938

6,535,443.70	1,614.94
3,883,547.18	959.6454072
6,657.12	1.645010163
2,586,629.98	639.1701889
80,433.32	19.87550685
1,285,099.97	317.5551185
6,467,798,717.68	1,598,227.87
2,616,955.24	646.6637227
115,830.31	28.62229173
62,413.13	15.42262097
4,065,126.84	1,004.51
15,284.87	3.776974121
3,539,928.30	874.7353319
3,079.85	0.761046359
4,850.20	1.19851105
3,274,239.45	809.0821878
4,022,987.49	994.1018574
2,580,350.41	637.6184731
285,326.23	70.50564676
11,422.68	2.822605772
315,988.52	78.08246343
51.65225855	0.012763551
533.341343	0.131791516
278.6723466	0.068861437
85,782.79	21.19738883
16,258.05	4.017451786
1,347,822.52	333.054199
19,298.52	4.768767752
133.0504887	0.032877492
508,666.05	125.6941193
3,445.00	0.851276906
3,477.87	0.859401482
3,449.75	0.852451944
3,478.11	0.859460583
3,482.46	0.8605337
3,475.03	0.858697432
3,480.71	0.860101775
3,438.30	0.849623573
3,481.89	0.860393427
3,797.87	0.938475079
3,490.32	0.862476294
3,475.28	0.858760509
3,481.07	0.860192341
3,824.51	0.945057569
4,168.85	1.030144112
2,312,520.51	571.4362633
265,563.17	65.62208963

238,837.63	59.01806415
2,585,644.95	638.9267823
90,412.70	22.34146513
761,676.11	188.2142661
3,908,723.83	965.8666924
7,537.05	1.862446143
411,417.96	101.6635913
118,979.02	29.40035705
554,250.03	136.9581648
182,543.32	45.10743614
2,014,292.02	497.7423969
5,110,893.52	1,262.93
88,376,716.23	21,838.36
540,814.70	133.6382234
3,471,337.60	857.786203
16,540,797.44	4,087.32
10,254,189.33	2,533.87
687,021.69	169.7667576
48,523,574.28	11,990.44
54.50950652	0.013469592
12,014,593.44	2,968.87
642,171.58	158.6840524
494,891.47	122.2903467
1,229,885.28	303.9112707
17,880,295.83	4,418.32
45,927.41	11.34890904
620,030.69	153.2129209
227,883.18	56.31116037
161,675.94	39.95099466
5,217,229.06	1,289.21
397,671.08	98.26666515
4,453,190,246.05	1,100,407.27
5,571,132.53	1,376.66
651,380.16	160.9595435
70.5035653	0.01742181
50,845,499.41	12,564.20
38,769,696.71	9,580.20
14,459,061.43	3,572.91
353,025.44	87.23448671
1,449,615.37	358.2077581
253,633.25	62.67414086
2,614,130.60	645.9657399
405,722.20	100.2561384
584,133.35	144.3424937
393,368.54	97.20348191
401,151.90	99.12679256
118,200,187.10	29,207.90

25,643,722.60	6,336.70
315,977.05	78.0796298
638,484.78	157.7730242
15,345.74	3.792014071
834.433775	0.206193076
142,811.43	35.28947338
11,962.58	2.956019094
468,380.20	115.7392689
122,867.07	30.36111419
2,864,365.95	707.800241
30,863.79	7.626608592
317,368.83	78.42354577
347,794.62	85.94192335
38,992.18	9.635176379
289,055.94	71.42727773
184,610.88	45.61834255
470,064.98	116.1555858
646,300.63	159.7043639
28,483.28	7.038370675
2,748,702.90	679.2192782
1,812,396.66	447.8529671
22,556.83	5.57391385
3,287,993.75	812.4809508
101,583.39	25.10180151
19,346.55	4.780635418
23,297.48	5.75693195
136,405.73	33.7065891
643,464.51	159.0035434
566.0442377	0.139872577
26.26755039	0.006490853
2.36445628	0.00058427
644,211.58	159.1881494
53.52067192	0.013225246
56.08055272	0.013857806
4,344,735.16	1,073.61
14,110.07	3.4866731
13,156.69	3.251088411
52,192,256.65	12,896.99
251.9711064	0.062263416
8,804.90	2.175739057
1,951,144,628.74	482,138.34
1,192,316,055.56	294,627.71
3,124,313.94	772.0347882
110.4066996	0.02728209
327,112.40	80.83123523
15,230.19	3.763461278
873,420.96	215.8270207

4,011.02	0.991144812
50,915.79	12.58156609
15,673.94	3.873116054
14,678.85	3.627222754
20,202.42	4.992125792
82,007.55	20.26450765
1,299,200.64	321.0394697
1,646,522.02	406.8644521
13,023.57	3.218193229
8,195.40	2.025127396
1,853,562.18	458.0251894
1,137,555.82	281.0961657
1,092,823.93	270.0426743
3,935.54	0.972491913
1,035,638.01	255.9117258
2,593,675.11	640.9110765
2,598,509.21	642.1056089
163,367.02	40.36887063
6,446.26	1.592905539
393.1005593	0.097137264
976,455.19	241.287331
9,593,092.10	2,370.50
1,298,000.84	320.7429925
161,878.47	40.00104201
2,628,589.18	649.5385316
2,563,906.51	633.5550956
95,032.23	23.48297505
34,134.67	8.434860294
649,450.87	160.4828043
16.14770351	0.003990184
1,614,070.53	398.8455146
648,477.61	160.2423061
0.267238274	6.6036E-05
2,106,070.96	520.4214688
87,250.90	21.56016629
2,550,382.80	630.213314
1,289,011.20	318.5216045
540,546.90	133.5720491
642,126.35	158.6728757
518,670.66	128.166311
116.7793044	0.028856795
1,061,196.48	262.2273611
954,932.67	235.9690014
6,480,111.93	1,601.27
323,727.62	79.994836
1,294,201.30	319.8041051
135,676.67	33.52643449

105,764.59	26.13499872
2,571,763.62	635.4966293
2,544,203.76	628.68644
191.1251195	0.047228046
9,387.21	2.319629226
313,385.78	77.4393126
1,141,484.32	282.0669189
2,548,683.83	629.7934912
2,263,771.17	559.390038
2,578,251.90	637.0999188
1,275,110.36	315.0866312
2,585,976.69	639.0087568
5,961,877.29	1,473.21
162,303.13	40.10597785
14,232,904.33	3,517.03
2,567,162.84	634.3597526
2,346,329.79	579.7907168
2,589,105.15	639.7818157
972,765.63	240.3756224
77,108.62	19.0539557
3,613,190.78	892.8388852
738,287.61	182.4348404
10,707.48	2.645875119
327,415.52	80.90613797
635,858.75	157.1241187
2,124,150.43	524.8890013
13,743.69	3.396138948
2,497,688.34	617.1922305
2,584,784.41	638.7141369
9,512,415.96	2,350.57
2,610,023.92	644.9509569
2,270,818.56	561.1314871
2,592,914.36	640.7230909
801,902.81	198.1544994
180,467.82	44.59457017
2,631,943.33	650.3673604
1,286,713.77	317.9538965
2,589,295.16	639.8287673
181,927,306.60	44,955.22
465.2508885	0.114965998
2,904.96	0.717832464
4,647.95	1.148532273
2,555.90	0.631575799
3,488.77	0.862093062
76,838.00	18.98708325
2,579,490.71	637.4060357
160,647.15	39.6967742



2,584,063.59	638.5360201
162,079.58	40.05073605
982,205.68	242.7083094
1,248,166.46	308.4286503
646,559.24	159.7682672
36,123.21	8.92624065
2,596,206.77	641.536665
652,566.06	161.2525864
2,568,694.97	634.7383509
2,261,317.90	558.7838225
485,748.69	120.0311151
970,806.90	239.8916082
2,596,209.67	641.5373808
19,947.62	4.929164413
752,792.16	186.0189929
6,913.39	1.708336558
37,266.53	9.208761338
2,344,462.36	579.3292661
9,424.15	2.328757915
2,233,794.74	551.9827004
974,758.27	240.8680135
929,689.12	229.731184
2,594,655.93	641.1534435
221,823.01	54.81366022
310,448.86	76.71358422
8,468.17	2.092530262
2,603,991.71	643.460366
1,942,389.65	479.974936
165,569.73	40.9131723
1,927,002.33	476.1726458
2,597,680.37	641.9007981
723,539.37	178.7904722
1,900,387.66	469.5960182
32,503.82	8.031869214
34,150.93	8.43887884
6,218,563.26	1,536.64
24,881.38	6.148323697
2,489,633.75	615.2018966
482,070.82	119.1222936
2,588,103.93	639.5344089
31,505,154.56	7,785.09
2,440,103.31	602.9626595
16,778.15	4.145972026
11,893.55	2.938961319
278,972.72	68.9356615
31,052.86	7.673329453
24,743.91	6.11435375

4,513,924.27	1,115.41
5,585.28	1.380153971
34,875.59	8.617945457
2,587,324.64	639.3418433
2,589,670.32	639.9214721
2,607,619.80	644.3568844
9,740.99	2.407052083
14,475.85	3.577060673
6,134.79	1.51593906
2,583,558.71	638.4112612
2,609,389.07	644.7940818
87,667.43	21.66309309
6,178.62	1.526770013
2,591,578.43	640.3929772
194,516.91	48.06617569
11,828.98	2.923004195
96,339.77	23.80607575
2,608,244.36	644.5112164
19,668.51	4.860193466
9,368,233.27	2,314.94
20,053.42	4.955307887
162,167.32	40.07241701
33,160.01	8.194016818
12,693,337.82	3,136.59
20,227.33	4.998281976
39,793.31	9.833140715
27,547.23	6.807069437
25,886.39	6.396665352
231,895.05	57.302515
11,866.70	2.932325884
5,023.14	1.241245746
2,586,188.83	639.0611774
30,549.59	7.548967925
2,623,113.69	648.1855087
472,194.93	116.6819092
2,568,827.51	634.7711011
2,387,217.19	589.8942137
117,189.19	28.95807916
161,306.47	39.8596973
142,209.99	35.14085475
2,190,309.86	541.2373541
2,603,453.94	643.3274795
5,343.31	1.320361675
163,548.45	40.4137014
138,894.75	34.3216401
14,861.47	3.672348834
2,590,943.92	640.2361862

161,628.08	39.93916776
15,432,195.44	3,813.38
3,889,435.99	961.1005638
52,040.61	12.85951433
8,193.00	2.024533933
323,047.10	79.82667621
102,256.92	25.26823519
254,073.93	62.78303617
40,647.47	10.04420765
233,079.68	57.59524328
240,686.46	59.47492024
2,595,384.96	641.3335915
654,861.02	161.8196828
133,241.66	32.92473162
2,581,380.09	637.8729129
1,139,511.35	281.5793871
500,375.14	123.6453896
2,525,046.28	623.9525253
2,582,213.66	638.0788905
162,102.96	40.05651311
648,873.20	160.3400589
321,589.41	79.46647497
2,583,974.18	638.5139245
18,312.31	4.525069596
18,763,555.14	4,636.58
239,918.00	59.28502804
10,540.04	2.604501149
2,257,309.16	557.7932419
9,022,136.11	2,229.42
131,113.61	32.3988778
161,159.89	39.82347675
161,055.93	39.7977881
804,253.79	198.7354391
7,692,262.28	1,900.80
2,604,014.60	643.4660207
12.5170076	0.00309302
485,690.30	120.0166865
2,414,365.47	596.6026994
2,592,626.68	640.6520045
32,446.90	8.01780432
135,237.69	33.41795979
2,386,320.04	589.6725232
1,407,705.12	347.85151
159,069.70	39.30697847
2,600,489.99	642.5950721
40,598.43	10.03208972
17,432.04	4.307551929

2,992.60	0.73948647
16,316.82	4.031973815
2,611,126.04	645.2232972
1,046.05	0.258485344
1,040.26	0.257054362
1,042.89	0.25770387
1,169.91	0.289090949
529,381.29	130.8129644
2,587,018.79	639.2662662
133,564.63	33.00453809
134,063.34	33.12777185
46,582.18	11.5107076
32,876.89	8.124056056
4,878.85	1.205590297
2,591,239.33	640.3091824
84,741,655.58	20,940.12
2,270,003.88	560.9301737
962,965.60	237.9539827
33,479.36	8.272929577
483,252.90	119.414393
10,468.61	2.58685096
6,528.66	1.613265871
10,706.15	2.645547596
2,586,967.27	639.253534
2,592,449.15	640.6081357
9,043.71	2.234750534
9,956.25	2.460241915
20,821.20	5.145030192
12,210.83	3.017362154
960,906.65	237.4452032
2,554,375.28	631.1998784
1,697,241.82	419.3975864
366,363.55	90.53040424
222,474.83	54.9747285
16,979.76	4.195790025
9,185.57	2.269804186
39,935.89	9.868373279
2,588,176.67	639.5523835
3,343,245.88	826.1340489
2,598,398.06	642.0781443
2,587,996.95	639.5079745
1,010.20	0.249625195
21,163.39	5.229588253
1,615,801.27	399.2731895
11,540,857.25	2,851.81
4,128.71	1.02022649
10,213.05	2.523699945

2,589,766.88	639.945334
2,594,750.80	641.1768857
1,781,366.99	440.1853691
161,846.94	39.99324995
486,802.42	120.2914987
2,587,089.45	639.2837244
2,591,169.70	640.2919769
2,617,030.16	646.6822348
162,328.24	40.11218107
2,586,792.23	639.2102811
2,587,297.70	639.3351856
161,353.69	39.87136475
77,907.21	19.25129053
492,525.41	121.70568
161,815.13	39.98538946
323,572.70	79.95655491
2,588,820.17	639.7113958
2,587,020.75	639.2667488
2,589,478.24	639.8740081
1,033.38	0.255353077
110,161.02	27.22138052
159.2224893	0.039344734
798.7125856	0.197366178
1,005.58	0.248484602
12,166,083.75	3,006.30
2,591,725.22	640.4292503
2,608,459.97	644.5644962
11,521,313.49	2,846.98
1,935,674.95	478.3156978
322,414.11	79.67026261
1,266,760.07	313.0232294
2,583,028.77	638.2803096
1,961,682.35	484.7422642
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96,661.11	23.88547951
2,605,484.92	643.8293444
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2,591,143.13	640.2854112
75,287.55	18.60395853
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2,580,344.46	637.6170025
1,290,975.25	319.0069308
2,574,068.78	636.0662473
2,406,201.88	594.5854334
2,582,751.49	638.211791

137,423.13	33.95799493
2,603,551.47	643.3515782
262,774.59	64.93301423
2,600,284.27	642.5442375
37,990.80	9.387731094
19,819.25	4.89744309
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1,433,731.86	354.2828578
2,598,163.12	642.0200886
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2,593,237.02	640.8028239
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38,271.15	9.457008137
170,410.99	42.10947327
37,066.38	9.159301779
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32,243.74	7.967601863
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161,191.10	39.83118896
22,393,462.19	5,533.55
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26,114.81	6.453110866
3,424,112.37	846.1165923
267,759.99	66.16493408
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16,557.32	4.091403184
229,781.39	56.78021714
24,159.25	5.969879589
165,382.61	40.86693277
651,601.49	161.0142342
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320,868.42	79.28831343
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16,003.62	3.954581831

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61,478.19	15.19159179
63,826.92	15.77197485
14,127.63	3.491012568
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20,230.19	4.998988166
54,707.92	13.51862127
31,038.78	7.669850003
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45,931.57	11.34993769
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33,971.22	8.394471145
282,432.54	69.79060107
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311,942.74	77.08272898

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324,971.19	80.30213005
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193,520,804.62	47,820.03
23,909.83	5.908248708
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222,423,480.28	54,962.04
210,489,780.83	52,013.16
125,080,592.91	30,908.09
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247,464,402.19	61,149.79
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80,831.56	19.97391332
100,514.64	24.83770785
1,420,901.14	351.1123176
113,662.15	28.08653013
665,885.11	164.5437953
436,088.42	107.7597943
187,554.96	46.34584054
38,703.93	9.563949002
59,195.06	14.62741667
526,647.08	130.1373282
326,630.88	80.71224802
191,432.10	47.30390313
165,015.43	40.77620126
972,451.07	240.2978938
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32,615.12	8.05937182
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21,803.64	5.387795954
83,212.47	20.56224801
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19,847.88	4.904517755
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161,986.48	40.02772972
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2,590,029.65	640.0102656
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163,195.63	40.32651802
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647,583.28	160.0213127
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353,461.05	87.34212881
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326,065.25	80.57247852
11,101.81	2.743317442
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1,067,214.50	263.714447
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52,743.70	13.03325269
24,102.92	5.955961859
1,522,281.81	376.1640271

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143,732.41	35.51705239
279,579.91	69.08570011
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31,228.09	7.7166283
159,423.18	39.39432524
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4,731,436.56	1,169.16
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646,523.79	159.7595068
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98,207.17	24.2675201
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323,988.13	80.05920938
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321,583.77	79.46507973
488,063.32	120.6030733
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25,347.31	6.263455747
81,336.32	20.09864168
1,820,567.68	449.8720719
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96,531.06	23.85334413
138,882.43	34.31859544

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1,454,167.34	359.3325747
27,633.40	6.828360951
162,206.85	40.08218519
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162,752.72	40.2170731
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17,156.62	4.239494041
975,051.29	240.9404208
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161,387.15	39.87963207
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816,715.61	201.8148231
134,520.91	33.24083959
417,325.95	103.1234877
14,988.86	3.703828305
10,232.25	2.528443081
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20,525.82	5.072040273
87,739.84	21.68098778
256,408.93	63.36002641
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21,974.83	5.430098519
21,191,756.14	5,236.60
39,592.86	9.783609583
1,615,126.98	399.1065682
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386,788.64	95.5775547
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579,027.52	143.0808158
25,360.41	6.266693517
63,938.02	15.79942864
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662,201.65	163.6335914
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44,268.23	10.93891806
108,404.55	26.7873487
64,004.26	15.81579708
506,836.85	125.2421139
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31,192.27	7.707778879
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27,303.42	6.746821619
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64,961.62	16.05236584
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5,865.86	1.449484915
33,089.27	8.176536441
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4,229,323.73	1,045.09
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19,288.79	4.766363417
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37,949.95	9.377637054
133,431.30	32.97159341
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65,377.04	16.15501892
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163,863.38	40.49152385
162,954.55	40.26694712
36,566.39	9.035752636
23,973.88	5.924073633
403,960.45	99.82079986
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226,620.41	55.9991229
326,708.41	80.7314065
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25,260.62	6.242035838
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163,419.54	40.3818486
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158,602.93	39.19163632
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157,199.24	38.8447771
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194,685.50	48.10783557
176,345.54	43.57593098
321,923.88	79.54912381
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46,255.95	11.43009416
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957,225.64	236.5356066
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647,217.48	159.9309218
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155,338.52	38.38498334
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159,752.92	39.47580704
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11,324.65	2.798383122
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262,322.68	64.82134488
195,366.43	48.27609679
1,120,309.15	276.8344197
7,657,186.36	1,892.13
16,488,296.64	4,074.35
287,415.26	71.02185823
286,494.47	70.79432456
78,027.11	19.28091924
56,882.87	14.05606223
74,472.25	18.40249442
80,000.73	19.7686118
807,723.67	199.5928666
273,722.81	67.63837875
127,997.74	31.62892929
316,939.77	78.31752175
163,560.63	40.41671112
740,984.97	183.1013733
321,654.37	79.48252518
562,298.69	138.947033
324,265.44	80.12773477
249,323.98	61.60929658
1,447,183.96	357.6069445
1,094,537.37	270.4660745
159,805.01	39.48867912
162,454.42	40.14336236
6,362.64	1.572243569
393.8011977	0.097310395

56.22119977	0.013892561
11,823,282.30	2,921.60
2,255,242.79	557.2826301
30.80242655	0.007611445
113.172584	0.027965555
146.5341302	0.036209372
161,780.37	39.97679924
2,096,174.25	517.9759373
695,640.11	171.8964152
18,472.84	4.564738718
325,456.13	80.42196193
8,795,594.26	2,173.44
574,205.74	141.8893284
157,504.69	38.92025618
161,830.97	39.98930286
1,140,429.08	281.8061624
161,056.72	39.79798148
827.6290023	0.20451158
322,516.83	79.69564498
163,609.56	40.4288019
1,295,770.55	320.1918758
1,281,669.12	316.7073379
130,778.93	32.31617802
2,679,543.76	662.1296827
129,708.67	32.05171141
96,446.89	23.83254477
651,232.32	160.9230116
301,626.92	74.533636
228,878.46	56.55710011
159,834.94	39.49607284
4,893,471.29	1,209.20
198.896099	0.049148296
320,285.79	79.14434207
256,513.79	63.38593722
159,578.19	39.43263004
325,973.14	80.54971708
959,073.38	236.9921944
10,332.79	2.553288566
12,289.32	3.036757904
646,511.27	159.7564152
159,694.38	39.46134139
1,168,297.28	288.6925461
324,555.31	80.1993638
1,123,259.14	277.5633787
50,360.00	12.44422787
144.0286216	0.035590247
160,462.99	39.65126878

159,824.91	39.49359571
12,440,464.85	3,074.11
160,156.31	39.57548541
3,055,026.00	754.913364
114.4814431	0.028288981
2,201,404.65	543.9789348
1,406,716.46	347.6072063
959,214.59	237.0270877
34,402.70	8.501092401
162,517.93	40.15905566
327,446.29	80.9137396
161,712.57	39.96004714
159,509.33	39.41561367
369,126.04	91.2130298
602,109.69	148.7845435
10,995,512.59	2,717.05
174,448,472.22	43,107.16
155,720.44	38.47935798
235,720.06	58.24769451
3,349,193.92	827.6038403
159,604.26	39.43907178
161,628.31	39.93922496
324,110.39	80.08942229
1,284,939.67	317.5155068
160,876.95	39.75356024
161,583.80	39.92822727
409,758.37	101.2534982
161,520.51	39.9125871
1,649,526.71	407.6069261
993,650.44	245.5363715
314,055.02	77.60468521
6,331.25	1.564486039
324,488.24	80.18278994
162,285.22	40.10155038
160,903.67	39.76016255
566.5930863	0.140008201
38,678.06	9.5575568
587.0030705	0.145051618
86,811.36	21.45155536
520.4310551	0.128601314
628,241.19	155.2417781
158,539.85	39.17605078
451,987.56	111.6885591
9,176,706.17	2,267.61
310,344.96	76.68791063
1,467,243.21	362.5636928
185,957.36	45.95106337

49,604.76	12.25760202
162,166.30	40.07216579
13,143.45	3.24781815
1,124,754.37	277.932858
13,635.67	3.369448634
1,909,471.05	471.8405724
9,515,495.16	2,351.33
320,724.08	79.25264608
254,273.70	62.83239846
33,705,751.78	8,328.87
17,106.45	4.227095271
58,124.54	14.3628877
317,182.68	78.37754758
1,783,099.31	440.6134358
1,454,957.39	359.5278003
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13,575.00	3.354455078
8,549,140.77	2,112.54
368,752.00	91.12060276
1,882,449.21	465.1633294
142,330.90	35.17073248
38.99288283	0.009635351
5,756.22	1.422393263
12,777,244.63	3,157.33
160,128.30	39.5685642
316,500.05	78.20886502
2,701.59	0.667577788
159,820.85	39.49259121
484,850.20	119.8090935
853,495.87	210.9034233
322,643.81	79.7270221
161,543.17	39.91818744
582,521.64	143.9442311
159,074.54	39.30817503
161,725.52	39.96324532
154,350.99	38.14095959
275,989.93	68.19859629
162,213.75	40.08389053
391,027.62	96.62502953
3,879,337.50	958.6051721
161,930.93	40.0140034
641,602.28	158.5433759
634,306.91	156.7406522
177.0543269	0.043751077
157,300.06	38.86969149
538,826.93	133.1470346
158,007.40	39.0444794

56,542,901.11	13,972.06
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471,173.27	116.4294507
82,113.78	20.29075626
537,409.26	132.7967195
154,014.80	38.05788528
3,187,521.82	787.6537954
479,211.51	118.4157438
319,609.32	78.97718379
485,246.72	119.9070755
9,025,647.63	2,230.29
229,994.59	56.83290087
47,655.15	11.77584399
161,399.94	39.88279404
160,267.17	39.60288093
640,600.05	158.2957202
158,824.20	39.24631381
2,907,665.62	718.4998213
161,652.08	39.94509816
3,280,025.11	810.5118549
638,601.65	157.8019038
161,067.79	39.80071815
107,363.86	26.53018872
40,283.15	9.954182147
653,651.90	161.5209012
175,403.53	43.34315621
90,372.17	22.33144931
41,387.42	10.22705431
1,620,060.48	400.3256625
161,574.66	39.9259682
28,521.12	7.04772115
323,494.64	79.93726626
66,881.69	16.52682553
122,660.66	30.31011039
275,794.99	68.15042568
161,181.84	39.82890041
325,214.06	80.36214519
98,319.44	24.29526345
45,232.96	11.1773074
478,255.66	118.1795473
33,951.05	8.389486387
44.03705722	0.010881794
30,399.65	7.511918264
287,219.36	70.97344864
348,335.52	86.07558251
280,244.11	69.24982677
142,526.77	35.21913152

87,641.97	21.65680203
23,116.59	5.712233263
188,319.42	46.53474215
883,281.84	218.2636951
143,052.25	35.34898139
1,899.60	0.469401702
3,701.06	0.914552936
71,542.16	17.67845383
145,435.23	35.93782786
271,048.19	66.97746748
85,155.13	21.04228972
1,285.52	0.317658133
144,747.02	35.76776768
38,101.57	9.415103105
49,857,152.74	12,319.97
425,978,749.70	105,261.64
145,112.83	35.85816167
106,843.16	26.40152101
36,599.93	9.044040495
490,894.17	121.3025903
163,139.79	40.31272125
20,778,340.57	5,134.44
2,964,115.71	732.4489429
78,250,599.43	19,336.14
874,919.72	216.1973702
334,337.21	82.61652452
96,361.38	23.81141554
30,068.09	7.429987686
27,769.60	6.862018706
161,881.15	40.00170389
163,269.87	40.34486261
161,605.63	39.93362039
326,849.69	80.76631793
20,614.97	5.094069579
322,976.27	79.8091742
29,479.62	7.284573022
1,292,772.70	319.4510911
3,731,197.56	921.9989966
29,848,326.30	7,375.68
161,977.53	40.0255205
1,620,275.72	400.3788493
813,991.91	201.1417816
65,477.00	16.17971875
342,883.88	84.72845312
46,198,604.09	11,415.92
643,988.75	159.1330862
47,037,545.70	11,623.23

1,126,548.74	278.3762565
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645,766.99	159.5724984
2,754,454.32	680.6404865
906,268.81	223.9439006
1,032.46	0.255126245
160,279.18	39.60584847
321,944.32	79.5541728
164,319.24	40.60416798
24,586.60	6.075480616
323,619.45	79.96810698
3,585.61	0.886024444
161,765.88	39.97321855
1,295,103.59	320.0270658
323,391.58	79.91179973
14,185.44	3.50529976
125,867.03	31.10241935
156,219.26	38.60261871
323,858.05	80.02706794
251,499.35	62.1468418
495.5174425	0.122445027
75,681.29	18.70125314
792,151.77	195.7449654
336,832.19	83.23304704
21,870.43	5.404300221
125,047.83	30.89999053
523,310.90	129.3129392
447.1448897	0.110491909
51,920.35	12.82979794
323,405.29	79.91518713
36,497,878.76	9,018.82
22,961.63	5.673941284
162.2502266	0.040092904
38.87885008	0.009607173
57,338.82	14.16873057
56.91561722	0.014064155
449,240.10	111.0096461
161,713.60	39.96030118
1,457,644.75	360.1918628
96,440.28	23.83091228
9,462,071.15	2,338.13
48,198.43	11.91009209
73,498.59	18.16189681
324,113.45	80.09017878
7,810,404.88	1,929.99
485,458.01	119.9592856
53,691.89	13.26755519

9,946.21	2.457761829
322,942.48	79.80082456
159,978.73	39.53160503
484,102.41	119.6243114
45,534.45	11.25180775
320,249.22	79.13530558
159,421.70	39.39396111
72,288.67	17.86291858
4,605,101.28	1,137.95
1,116,011.54	275.7724576
822,584.28	203.2650034
38,489,812.61	9,511.04
162,206.01	40.08197918
160,214.64	39.58990005
164,180.39	40.56985841
1,593,290.43	393.7106404
1,443.08	0.356593257
156,450.14	38.65967227
56,452.40	13.94969212
381,266.97	94.21311963
330,832.51	81.75049332
94,355.53	23.31575826
160,756.94	39.72390415
1,294,143.85	319.7899091
4,052,680.36	1,001.44
639,670.68	158.0660674
892,221.15	220.4726481
160,686.00	39.70637591
650,067.23	160.6351119
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830,419.07	205.201021
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21,809.39	5.389217951
645,667.19	159.5478368
561,215.95	138.679482
328,835.87	81.25711321
2,111,731.77	521.8202838
4,680,730.09	1,156.63
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7,402,061.63	1,829.09
161,518.14	39.91200055
925,366.96	228.6631565
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1,944,439.53	480.481472
82,314.80	20.34042949



213,130,831.89	52,665.78
157,625.25	38.95004787
46,256.36	11.43019461
982,372.28	242.7494764
30,184.41	7.458729965
32,345.23	7.992679527
1,170,814.01	289.3144433
665,303.46	164.4000662
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1,775,627.48	438.7671065
1,956,906.19	483.5620509
45,715,738.11	11,296.60
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162,557.42	40.16881313
2,431,441.66	600.8223199
14,638.95	3.617364474
116,486.86	28.78453028
20,264.62	5.007496701
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413,253.23	102.1170981
11,818,791.58	2,920.49
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147,314.09	36.4021048
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13,577.15	3.354987421
646,180.83	159.6747614
4,182,963.82	1,033.63
485,109.67	119.8732105
4,358,327.29	1,076.97
647,938.63	160.1091217
326,037.60	80.56564493
970,773.79	239.8834278
483,362.51	119.441477
648,925.17	160.3529011
326,253.17	80.61891399
58,325.57	14.41256284
42,559.09	10.51658092
1,133,764.88	280.1594036
325,287.87	80.38038295
324,233.14	80.1197544
970,492.81	239.8139972
486,714.85	120.2698575
47,828.58	11.81869831

485,519.58	119.9745
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282,586.67	69.82868749
1,124,060.51	277.7614021
14,607.43	3.609575554
33,809.79	8.354580956
160,061.12	39.55196528
649,750.42	160.5568244
321,087.74	79.3425079
161,227.81	39.84025951
161,508.06	39.90951026
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132,501.00	32.7417099
321,731.45	79.50157289
62,635.53	15.47757644
128,171.92	31.67197206
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160,660.96	39.70018772
476,119.56	117.6517043
3,767,606.32	930.9957965
1,317,037.71	325.4471055
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1,285,454.91	317.6428257
30,424.89	7.518154255
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198,628.69	49.08221737
484,148.89	119.6357968
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318,834.90	78.7858203
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120,387.31	29.74835146
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14,261,124.72	3,524.00
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5,030.71	1.243116407
163,770.99	40.46869199
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167,875.97	41.48305485
912,803.59	225.5586798
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256,075.13	63.27754367
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164,643.64	40.68432875
162,853.90	40.24207438
11,159.71	2.757623392
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6,618.44	1.635452149
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172,321.38	42.58154059
85,998.06	21.2505838
183,066.73	45.23677455
318,725.89	78.75888288
40,678.61	10.0519026
651,193.53	160.9134264
78,082.97	19.29472309
3,360,989.31	830.5185455
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339,882.80	83.98686973
10,818.77	2.673375726
77,414.80	19.12961403
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80,769.02	19.95846039
134,156.74	33.15085269
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15,411.93	3.808371098
7,816.74	1.9315577
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487,118.78	120.3696731
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78,894.37	19.49522272
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81,027.15	20.02224583

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40,536.67	10.01682977
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184,325.78	45.54789096
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179,818.43	44.43410106
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738,242.20	182.4236197
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12,713.26	3.141515231
387,632.18	95.78599794
523,468.96	129.3519973
458,202.59	113.2243257
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338,025.10	83.52782187
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740,695.66	183.0298833
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156,840.08	38.75602675

159,488.67	39.41050842
159,247.16	39.35082944
645,012.83	159.3861413
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17,455.74	4.313407226
16,292.90	4.02606264
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48,598.60	12.00897437
27,869.05	6.88659282
160,691.68	39.70777944
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4,199.96	1.037833638
283,913.35	70.15651623
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646,421.43	159.7342132
668,895.58	165.2876969
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1,832,057.30	452.7112168
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73,503.45	18.16309924
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81,319.88	20.09457881
624,876.30	154.4102976
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169,582.96	41.90486304
94,083.66	23.24857807
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154,872.25	38.26976676
758,372.62	187.3979547
54,712.29	13.51970064
120,617.66	29.80527285
47,904.10	11.83736083
102,931.16	25.43484297
99,779.67	24.65609376
176,348.66	43.57670372
1,964.26	0.485378553
687.415813	0.169864147
494.2992165	0.122143996
1,917,443.00	473.8104849
3,002,387.61	741.9061363
42,433.30	10.48549754
100,599.92	24.85878038

18,629.69	4.603496005
17,755.64	4.387514757
13,223.16	3.267514973
11,932.66	2.94862521
10,994.39	2.71677224
24,980.72	6.172870652
5,481.98	1.354626033
21,292.74	5.261551285
8,732.79	2.157920526
128,401.38	31.72867271
113,134.68	27.95618889
8,844.90	2.185622102
8,154.17	2.014938551
5,957.59	1.47215253
23,877.20	5.900184279
367,141.18	90.72256065
7,227.99	1.786074462
4,620.55	1.14176385
6,016.03	1.486593147
28,667.06	7.083785848
47,755.27	11.80058471
31,875.90	7.876706755
8,315.80	2.054879643
11,110.84	2.745548817
231,027.74	57.08819868
1,634.67	0.403934995
126,378.40	31.22878334
117.0308679	0.028918957
195,655.42	48.34750804
49,363.72	12.19804154
9,805,213.00	2,422.92
4,668,990.48	1,153.73
12,151.76	3.002764262
166,692.11	41.19051735
290.8047594	0.071859421
25,760,642.76	6,365.59
13,880,108.45	3,429.85
0.616036889	0.000152226
0.984002425	0.000243152
6,388,557.38	1,578.65
4,671.86	1.154440803
173,385.85	42.84457672
268,878.87	66.44141588
10,110,771.87	2,498.43
114,175.52	28.21338633
214,571.33	53.02173029
226,555.71	55.98313434

59,070.79	14.59670997
64,975.21	16.05572392
26,410.85	6.526262955
34,672.37	8.56772817
42,124.14	10.4091019
305,471.82	75.48373041
15,236,776.98	3,765.09
110,411.63	27.28330858
13,802.22	3.410601911
30,090.52	7.435529055
6,779.62	1.675280993
5,964,171.44	1,473.78
2,434.81	0.601653466
10,192,655.52	2,518.66
34.31926037	0.008480474
30,874.56	7.629269842
18,190.49	4.494967664
12,105,016.79	2,991.21
281,445.10	69.54659855
750,383.56	185.4238151
57,420.74	14.1889732
173,099.90	42.77391738
136,481.38	33.72528377
337,339.15	83.35832
29,371.60	7.257881063
11.12073018	0.002747992
1,983,387.35	490.1056874
35,476.15	8.766347275
166,412.40	41.12139926
3,117.85	0.770437333
6,009.55	1.484992269
9,508.17	2.34951895
33,728,459.21	8,334.48
567,891.57	140.3290624
7,941,145.35	1,962.30
13,202.52	3.262414259
239,711.63	59.23403416
620,837.66	153.4123257
16,035,170.74	3,962.38
1,742,636.97	430.6149729
495,847.45	122.526574
1,147,498.33	283.5530113
398,911.82	98.57325689
299,223.63	73.93976943
1,287,634.40	318.1813906
233,096.60	57.59942472
161,243.33	39.84409353

2,217,094.27	547.8559253
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79,434.85	19.62877827
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159,333.25	39.37210344
335,592.74	82.92677255
162,735.28	40.21276292
411,935.44	101.7914639
1,687,714.76	417.0433989
318,668.44	78.74468533
477,727.10	118.0489383
276,843.41	68.40949572
45,255,901.93	11,182.98
144,289,529.33	35,654.72
53,678.09	13.26414407
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37,258.31	9.206729823
5,200.93	1.285178823
1,482,949.26	366.4447426
972.433874	0.240293643
18.67779042	0.004615383
19,073.19	4.713087407
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15,991.84	3.951668552
18,941.86	4.680635592
771.8512511	0.190728598
5,664.10	1.399630008
1,216.92	0.300708111
3,637,939.75	898.9544903
11,137.78	2.752204857
75,065.95	18.54919901
18,937.67	4.679601149
8,367.15	2.067566937
40,182.09	9.929211771
24,173.22	5.973331808
24,989.02	6.174921568
61,738.89	15.25601277
35,629.43	8.804222673
54,390.75	13.44024674
44,756.17	11.05949026
6,345.32	1.567963798
16,442.89	4.06312652
122,023.83	30.15274589
997,199.71	246.4134148
17,640.97	4.359179826
14,893.94	3.680373713
12,747.37	3.149943937



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162,246.63	40.09201434
22,959.66	5.673456473
34,808.62	8.601397658
10,283.96	2.541222503
33,443.03	8.26395301
2,984.01	0.737364631
23.11246214	0.005711214
269.6248606	0.066625754
12,696.96	3.137487385
11,611.23	2.86919798
4,368.21	1.079407834
25,397.81	6.275934983
21,883.92	5.40763357
10,550.99	2.607206333
2,406.82	0.594738004
47,985.13	11.85738461
136,627.81	33.76146716
59,868.96	14.793943
17,103.30	4.226318653
47,746.63	11.79844927
11,449.70	2.829282683
38,090.18	9.412288848
22,431.36	5.542910791
21,921.19	5.416843372
104,099.68	25.72359217
53,840.98	13.3043956
18,409.68	4.549131769
182,922.58	45.2011532
78,646.33	19.4339305
43,329.71	10.70700385
39,797.78	9.834244423
91,558.75	22.62465969
8,566.29	2.116775994
1,439.90	0.355806228
4,435.02	1.095917745
11,897.03	2.939819084
17,632.13	4.35699479
5.743667881	0.001419291
31,140.24	7.694920383
101,164.53	24.99829928
177.7055214	0.043911991
12,308.09	3.041395301
113.5013493	0.028046794
74,025.45	18.29208583
936.6436447	0.231449685
1,415.61	0.349804817

137,999.48	34.10041456
417.7425903	0.103226442
802,849.98	198.3885512
10,421,447.35	2,575.20
6,699,173.92	1,655.40
163,071.46	40.2958361
7,836,140.41	1,936.35
174,481.36	43.11528226
1,320,221.03	326.2337212
889,615.98	219.8288967
648,740.93	160.3073744
614,231.81	151.7799858
648,778.39	160.3166326
2,862,528.48	707.3461918
7,625,547.92	1,884.31
32,558,033.62	8,045.27
298,983.81	73.88050816
2,154.78	0.532458428
324,654.26	80.22381388
2,419,837.33	597.9548274
238,838.50	59.01827834
649,491.24	160.4927813
32,031.68	7.915201348
3,908,673.81	965.8543326
5,175,863.05	1,278.98
1,303,972.45	322.2186086
1,294,925.34	319.9830196
3,244,488.48	801.7305631
321,347.06	79.40658747
504,330.28	124.6227264
162,725.40	40.21032309
313,167.82	77.38545368
161,055.51	39.79768438
161,291.72	39.85605306
161,299.39	39.85794789
161,299.12	39.85787986
455,174.67	112.4761112
232,100.29	57.35322973
157,334.41	38.87817835
82,421.52	20.36680222
320,389.30	79.16992031
33,742.46	8.337943087
648,314.59	160.2020231
378,842.16	93.61393571
2,346,128.51	579.7409816
2,210,859.25	546.3152182
161,614.90	39.93591041

83,561.20	20.64842172
2,093,960.39	517.428881
167,097.65	41.29072825
8,292.98	2.049240425
20,224.06	4.997473133
15,043,302.88	3,717.28
274,023,425.67	67,712.66
77,898.50	19.24913785
167,143.20	41.3019852
283,568.81	70.07137928
82,883.07	20.48085293
66,905.16	16.53262387
3,176,955.92	785.0429049
159,151.09	39.32709168
979,736.52	242.0981665
811,355.47	200.4903027
861,055.02	212.77133
83,557.89	20.64760359
76,788.37	18.97481932
636,613.92	157.3107257
637,922.60	157.6341084
2,799,824.28	691.8516459
1,290,356.90	318.854134
61,078.86	15.09291551
5,109,537.47	1,262.59
78,766.50	19.46362669
1,451,459.24	358.6633896
1,512,147.30	373.6597348
244,179.58	60.33808852
83,553.25	20.64645771
163,207.06	40.32934314
298,589.30	73.78302268
10,012,694.81	2,474.19
67,993.47	16.80155125
83,249.35	20.57136315
503,026.38	124.3005244
2,879,346.27	711.501959
83,552.61	20.64629926
83,553.00	20.64639556
88,714.63	21.92186279
1,946,772.65	481.0579993
384,028.31	94.89546265
1,227,502.16	303.3223901
7,100,964.01	1,754.69
420,909.23	104.0089368
4,534,963.06	1,120.61
141,861.20	35.05466699

221,363.10	54.70001365
12,871.50	3.180617148
654,097.92	161.6311171
299,384.69	73.97956718
43,439.42	10.73411359
20,153.11	4.979941023
4,045,486.35	999.6614466
62,502.92	15.4448067
392,422.42	96.96969206
480,962.10	118.8483235
3,195,706.22	789.6762042
457,323.41	113.0070747
2,548,328.31	629.7056401
256,470.56	63.37525635
122,220.69	30.20138977
162,162.83	40.07130889
7,428,364.92	1,835.59
20,222.32	4.997044568
582,581.77	143.9590894
958,344.56	236.8120976
432,534.14	106.8815146
144,845.30	35.79205269
158,390.34	39.1391066
331,771.60	81.98254901
250,661.19	61.93972879
124,314.93	30.7188871
1,910,970.96	472.2112087
2,592,830.84	640.7024527
634,859.69	156.877247
214,984.73	53.12388249
2,289,321.69	565.7037089
1,178,869.75	291.3050583
2,086.19	0.515509783
3,201,770.88	791.1748139
1,960,584.40	484.470957
12,456.87	3.078158662
588,569.14	145.4386012
73,234.58	18.0966588
651,613.87	161.017293
58,257.56	14.39575588
60,971.89	15.06648247
640,890.09	158.3673906
805,785.52	199.1139378
329,730.45	81.47816981
333,485.97	82.40617851
485,149.14	119.8829625
4,622.85	1.142331601

4,625.92	1.143090071
4,618.31	1.141210235
3,050.94	0.753903565
4,623.87	1.142582634
3,051.05	0.753930494
3,054.05	0.754673007
3,059.27	0.755963219
3,051.96	0.754154799
3,059.37	0.755987532
3,054.03	0.754667623
3,059.73	0.75607635
3,060.94	0.756375154
169,467.84	41.87641534
3,704,863.68	915.4917524
3,052.04	0.75417583
3,061.29	0.756462392
3,102.59	0.766667657
2,037.04	0.503362648
3,059.95	0.756131075
3,061.04	0.756400313
3,062.08	0.756656742
2,036.22	0.503159927
3,059.50	0.756018752
3,061.25	0.756451899
2,037.07	0.503370055
3,062.37	0.75672826
2,036.21	0.503159279
2,040.31	0.504170725
3,061.11	0.756416408
3,062.54	0.756769166
3,062.41	0.756737212
2,040.19	0.50414074
2,036.99	0.503351731
3,061.41	0.756491902
2,036.22	0.503159879
3,062.39	0.756732341
3,062.48	0.756754238
2,040.34	0.504179682
2,040.19	0.50414147
2,039.36	0.503936861
2,041.11	0.504368614
3,062.59	0.756782629
3,062.64	0.756794127
3,062.28	0.756706621
2,040.51	0.504221853
80,124.80	19.79927041
2,041.13	0.504374204

2,040.36	0.504184685
3,062.40	0.756736249
3,062.58	0.756780108
2,040.24	0.504153693
3,062.41	0.756737901
2,041.10	0.504366833
50,966.06	12.59398867
2,041.13	0.504373681
2,040.32	0.504174712
2,041.87	0.504557658
3,062.78	0.756829195
3,062.40	0.756735256
2,040.15	0.504131282
2,041.74	0.504524626
2,041.14	0.504375886
3,062.66	0.756799208
6,737.03	1.664755554
2,041.09	0.504365313
3,062.35	0.75672222
2,041.86	0.504553396
3,061.32	0.756468609
2,041.79	0.504538304
2,041.07	0.504359693
2,041.97	0.504581743
3,065.32	0.757458039
3,062.47	0.756751993
3,062.20	0.756685113
3,063.81	0.757083902
2,041.17	0.504383288
2,042.80	0.504787505
2,041.77	0.504533485
3,062.46	0.756749539
3,062.34	0.756720924
2,041.80	0.504538706
3,062.19	0.75668369
2,041.94	0.504575425
50,008.26	12.35731112
3,061.17	0.756431882
623,650.16	154.1073112
2,041.86	0.5045541
2,041.87	0.504558137
2,041.81	0.504542114
3,062.43	0.756744148
3,062.21	0.756689621
3,061.47	0.756505063
2,041.83	0.504546356
2,041.79	0.504538384

2,041.92	0.504570337
3,062.37	0.756728419
3,062.13	0.756669408
2,041.84	0.504549755
2,041.78	0.504534265
3,072.83	0.759312401
3,062.50	0.756760185
2,041.82	0.504543974
2,041.80	0.50454047
3,062.34	0.756720796
3,062.23	0.756692912
3,073.06	0.75937086
3,062.40	0.756734915
4,488.47	1.109125366
2,041.71	0.504517873
2,041.81	0.50454206
3,062.17	0.756678251
3,062.04	0.756646816
2,041.76	0.504528964
2,041.74	0.504524335
3,062.60	0.756785955
3,062.71	0.756812275
2,041.80	0.504539942
2,041.87	0.504557714
2,041.74	0.504525102
3,062.19	0.756684706
645,735.87	159.5648096
3,062.33	0.756718049
3,062.56	0.75677623
2,041.82	0.50454365
2,041.58	0.5044852
2,041.76	0.504530562
3,062.11	0.756663455
51,571.86	12.74368348
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2,041.67	0.504508232
2,041.66	0.504506057
3,062.70	0.756809205
3,062.64	0.75679387
2,041.65	0.504502988
2,041.88	0.504559277
2,041.63	0.504496632
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3,062.59	0.756782197
3,062.51	0.756763278
2,041.71	0.504517557
2,041.51	0.504467337

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2,041.73	0.50452267
2,041.61	0.50449379
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3,062.45	0.756746968
2,041.57	0.504481742
2,041.71	0.504517324
2,042.58	0.504732138
3,062.41	0.756737422
3,062.36	0.756725306
2,041.63	0.504497444
2,042.54	0.504722049
2,046.81	0.505778511
2,041.63	0.504497206
2,042.55	0.504726013
3,062.55	0.75677215
3,062.27	0.756703313
2,042.50	0.504711629
2,041.65	0.504503275
3,062.40	0.756735093
3,062.14	0.756670448
2,041.60	0.50449053
2,042.47	0.504706276
2,042.39	0.504686376
3,062.28	0.756705546
3,062.24	0.756694936
2,042.51	0.504715606
3,062.19	0.756683493
3,062.13	0.756668915
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3,063.84	0.757090865
3,062.13	0.756669769
3,063.77	0.757074177
3,063.83	0.757089616
3,063.73	0.757065153
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647,080.03	159.8969586
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161,469.78	39.90005155



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167,096.89	41.29054117
636,902.36	157.3820007
263,360.93	65.07790361
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94,953,172.00	23,463.44
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638,567.65	157.7935021
577,034.57	142.5883485
5,269.85	1.302208551
3,438,968.51	849.7876264
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324,206.07	80.11306345
133,026.59	32.87158522
307,100,579.39	75,886.21
1,342.06	0.331630891
119,663,179.02	29,569.42
40,416.27	9.987078216
684,148.57	169.0567934
1.0677478	0.000263846
4,657,960.22	1,151.01
4,458,336.40	1,101.68
3,264,798.76	806.7493434
970,553.10	239.8288944
105,949.45	26.18067912
815,049.55	201.4031298
408,477.33	100.9369458
358,544.85	88.59836267
167,095.02	41.29007748
2,457,417.67	607.2411296
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34,532.13	8.533076238
4,657,090.51	1,150.79
19,526.72	4.825157563
83,550.92	20.64588218
83,210.14	20.56167277
349,038.07	86.24918541
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356,289.58	88.04107246
79,685.59	19.69073812
82,943.47	20.4957787
435,257.37	107.554439
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67,810.85	16.75642661
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70,553.08	17.43404548
4,732.26	1.169366542
418,396.90	103.3881254
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167,139.32	41.30102563
108,841.65	26.89535721
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69,550.60	17.18632697
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1,324,231.30	327.2246798
1,033,458.80	255.3732318
158,154.28	39.08077401
203,425.91	50.26763831
83,574.14	20.65162051
221,158.21	54.64938401
127,985.86	31.62599536
127,704.88	31.55656195
430,051.27	106.2679823
117,798.58	29.10866257
159,438.77	39.39817753
3,416.22	0.844166902
14,771.75	3.650179444
647,008.95	159.8793933
435,741.25	107.6740076
16.62730356	0.004108696
9,415,240.97	2,326.56
285.8539725	0.070636055
63,837.18	15.77451051
13,278.80	3.281264099
823,896.79	203.5893316
292,299.90	72.22887831
593,020.96	146.5386704
266.7605504	0.065917968
152,062.72	37.5755161
131,898.13	32.59273844
12,961.76	3.202921684
24.34011285	0.006014573
13,505.33	3.337239282
3.462E-05	8.55479E-09
7,640.59	1.888031662
2,544,442.57	628.7454514

46,095.17	11.39036338
20,190.50	4.989181218
8,828.55	2.181581843
10,564.28	2.610490447
10,525.21	2.600836081
3,837.63	0.948297916
322,890.58	79.78800094
37,644.67	9.302201492
6,015.17	1.486381682
124,926.14	30.86992108
162,070.45	40.04848046
7,143.64	1.765231258
93,705.50	23.15513275
338,941.58	83.75428826
80,236.97	19.8269868
318,248.13	78.64082534
608,544.21	150.3745496
1,054,853.15	260.6598903
1,468,429.43	362.856815
164,877.81	40.74219445
55,250.07	13.65258853
86,366.82	21.34170642
38,364.62	9.480103904
83,318.14	20.58836116
216,774.55	53.56615812
345.820151	0.08545402
19,941.37	4.927618869
475,972.97	117.6154814
53,960.63	13.33396218
27,772.67	6.862777316
1,611,700.16	398.2597826
76,069.77	18.79724909
41,147.83	10.16785086
83,554.49	20.64676527
536,025.27	132.45473
636,142.27	157.1941788
16,961.58	4.191296944
1,137,134.07	280.9919487
151,610.68	37.46381395
44,656.56	11.03487692
42,665.33	10.54283256
5,176,915.72	1,279.24
104.8271726	0.025903358
490,010.37	121.084199
83,970.30	20.7495141
165,496.31	40.89502847
11.23442167	0.002776086

100,503.10	24.83485715
231,976.01	57.32252045
88,927.67	21.97450582
41,752.57	10.31728444
34,810.46	8.601853067
186,609.10	46.11211298
54,465.44	13.45870343
17,505.01	4.325581429
55,321.64	13.67027549
2,747,073.41	678.816622
590,497.37	145.9150784
1,353,167,495.75	334,374.97
652,105.96	161.1388909
162,449.87	40.14223598
973,111.85	240.4611755
346,345.66	85.58387533
14,025.42	3.465757001
20,170.02	4.984120928
1,237.33	0.305751565
270,020.38	66.72348834
1,071,135.72	264.6834005
1,603,489.22	396.2308149
2,108.46	0.521011991
3,060.87	0.756356633
604,035.40	149.2603981
3,804,965.44	940.2274378
4,842,840.71	1,196.69
1,408,142.79	347.9596604
2,258,358.45	558.0525253
1,900,946.06	469.7340016
83,698.81	20.68242619
650,595.01	160.7655271
55,360.27	13.67981942
334,563.37	82.67240799
6,474,256.16	1,599.82
20,244.92	5.002628567
160,824.53	39.74060621
406,912.82	100.5503488
1,902,018.12	469.9989138
80,532.09	19.89991232
295,116.51	72.92487717
271,930.26	67.19543055
767,711.74	189.7057026
10,462.21	2.58526756
851,629.47	210.4422244
1,310,682.34	323.8766605
1,566,528.54	387.0976333

2,585,870.81	638.9825927
432,677.83	106.9170192
182,749.61	45.15841263
83,559.30	20.64795373
21,783.85	5.382905827
63,745.81	15.75193364
148,663.42	36.73553113
158,615.80	39.19481897
1,531.85	0.378528453
131,808.94	32.57069946
1,097.95	0.271309065
643,124.10	158.9194261
88,098.03	21.76949816
3,657,026.55	903.6709403
83,559.34	20.64796202
130,105,990.03	32,149.89
70,317.55	17.37584613
251,780.57	62.21633319
727,985.58	179.8891549
38,027.61	9.396827395
822,260.49	203.184992
487,394.77	120.4378718
2,318,236.19	572.8486391
276.8951122	0.068422272
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244,122.26	60.32392468
4,500,810.26	1,112.17
1,729.29	0.427316713
3,393,960.97	838.6660213
198,625.07	49.08132388
325,858.78	80.52145723
262,329.57	64.82304905
326,283.27	80.62635155
1,816,901.07	448.9660311
407,497.99	100.6949453
524,806.83	129.6825921
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166,704.83	41.19366162
220,373.93	54.45558302
460,174.65	113.7116328
161,661.99	39.94754656
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704,814.92	174.1635593
5,427.09	1.341064111
83,572.05	20.65110288
161,342.05	39.86848964
428,766.59	105.9505316

15,389,492.62	3,802.83
223,466.78	55.21984405
508,607.23	125.6795842
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705,180.50	174.2538956
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80,918.62	19.995427
186,151.66	45.9990774
17,268.34	4.267099645
17,839.76	4.40830186
17,592.44	4.347187819
15,407.28	3.80722086
11,407.25	2.818792791
6,913.23	1.708297377
2,746.17	0.678593892
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80,682.97	19.93719597
302,227,070.44	74,681.94
16,207.78	4.0050303
16,220.96	4.008286633
16,204.97	4.004335423
16,244.19	4.014026135
16,229.01	4.010276232
16,204.53	4.004225957
16,197.68	4.002532989
17,548.08	4.336225862
15,861.31	3.919415597
9,259.92	2.288175213
16,220.38	4.008143061
16,228.04	4.010036792
16,220.42	4.008152485
16,222.93	4.008773023
608,482.47	150.3592939
16,225.30	4.009359288
16,225.41	4.00938614
16,225.31	4.009360741
16,221.66	4.008458471
16,221.12	4.008326846
16,230.45	4.010632493
16,220.55	4.008185159
16,230.49	4.010641738
16,227.85	4.009988397
16,276.39	4.021984791
16,220.31	4.008126699
16,226.39	4.009628004
16,206.72	4.004766902

16,234.30	4.011582236
10,755.93	2.65784782
16,219.47	4.007919211
16,227.69	4.009949031
16,227.76	4.00996643
13,639.89	3.370490234
13,732.83	3.393457295
12,400.93	3.064337145
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10,762.02	2.659352215
24,340.72	6.014722216
24,672.61	6.096733748
24,328.61	6.011730968
24,343.07	6.015304809
12,811.35	3.165752968
24,341.88	6.015010777
24,262.53	5.995401984
15,613.96	3.858293876
24,318.67	6.009273434
24,327.56	6.011470722
16,933.00	4.184234995
10,330.43	2.552704455
153,490.40	37.92830484
603,917.98	149.2313822
12,455.35	3.07778344
13,029.16	3.219576373
12,524.17	3.094791031
13,703.21	3.386137076
19,682.61	4.863679729
14,862.73	3.672659549
2,385.58	0.589488523
15,855.50	3.917979519
722,123.31	178.4405556
4,653.80	1.149978267
12,607.11	3.115285136
536,816.44	132.6502306
21,210,181.89	5,241.15
469,149.19	115.9292893
491,005.84	121.3301843
1,298,711.82	320.9186801
1,705,374.17	421.4071344
159,757.56	39.47695275
136,635.21	33.76329669
2,165,557.61	535.1209399
311,297.50	76.92328686
99,482.59	24.58268292
629,491.66	155.5507778

21,804.21	5.387937386
646,419.99	159.7338575
218,371.73	53.96083059
83,029.95	20.51714864
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81,180.86	20.06022616
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83,374.10	20.6021889
1,269,378.55	313.6702715
582,387.15	143.9109991
1,912,558.75	472.6035592
641,785.53	158.5886574
97,467.78	24.08481408
508,068.58	125.5464814
89,155.79	22.03087519
18,683.75	4.616855994
27,078.82	6.691321823
887,573,330.56	219,324.15
83,378.22	20.60320735
316,433.29	78.19236929
805,086.67	198.941248
39,135.39	9.670565806
452,963.70	111.9297675
641,578.38	158.537471
115.4179194	0.028520389
1,716,892.88	424.2534697
558,957.08	138.1213034
636,691.93	157.3300031
206,285.76	50.9743206
91,738.21	22.6690057
111,190.62	27.47580146
4.404057604	0.001088266
254,711.91	62.94068315
40,591.27	10.03032176
83,697.80	20.68217753
65,770.87	16.252337
233,782.07	57.76880846
83,303.55	20.58475665
2,582,921.27	638.2537469
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12,709.53	3.140594388
38,435,489.73	9,497.62
573,786.62	141.7857606
41.78034126	0.010324147
11.55035874	0.002854156
29.50543084	0.007290951
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1,171,200.65	289.4099829
972,063.39	240.2020936
26.43614297	0.006532513
24,177.71	5.974441292
588,616.09	145.4502043
1,278,167.88	315.8421624
19,528.45	4.825585948
576,554.76	142.4697829
154,364.61	38.14432641
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1,842,662.97	455.3319356
2,170,303.77	536.293741
532,444.66	131.569941
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4.402112879	0.001087786
248,215.47	61.33537963
42,797.97	10.57560835
11.53507029	0.002850378
1,294,165.41	319.7952377
42,125.80	10.40951067
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644,550.65	159.2719338
323,341.49	79.89942175
398,224.73	98.403474
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145.4840538	0.035949893
335,000.83	82.78050722
646,154.38	159.6682252
294,827.84	72.85354512
135,997.54	33.60572306
1,585,259.85	391.726239
581,901.12	143.790897
106,176.40	26.23675937
250,556.93	61.91396477
591,967.98	146.278474
283,287.84	70.0019506
409,840.74	101.2738515
377,964.41	93.39704067
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83,544.42	20.6442756
417,805.65	103.242025
83,144.88	20.54554844
0.148997216	3.6818E-05
625,400.10	154.5397306
1,237,222.04	305.7242246

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578,074.68	142.8453644
2,549,072.89	629.8896284
601,876.67	148.726963
1,580.88	0.390644365
3,907.74	0.965623998
1,038.67	0.256659849
80,674.65	19.93514008
75,188.20	18.57940875
160,470.05	39.65301338
181,295.27	44.79903792
304,415.02	75.22258951
638,049.62	157.6654935
414,695.22	102.4734198
338,248.06	83.58291503
467,056.70	115.4122232
638,518.25	157.7812951
617,612.20	152.6152984
463,864.52	114.6234187
640,215.29	158.2006443
326,696.82	80.7285415
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632,038.36	156.1800793
397,598.41	98.24870605
575,132.48	142.1183314
639,280.04	157.9695374
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335,165.79	82.82126985
684,482.12	169.1392157
116,522.04	28.79322197
637,459.59	157.5196959
2,706,802.32	668.8654192
183,292.69	45.29261089
174,391.58	43.09309827
145,614.57	35.98214348
2,814,722.46	695.533066
337,902.81	83.49760365
517,934.98	127.9845211
72,021.57	17.79691793
547,659.02	135.3294905
3,869,836.12	956.2573314
341,167.97	84.30444018
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18,187.62	4.49425839

722,221.92	178.4649242
648,737.16	160.3064438
405,757.69	100.2649085
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56,711.02	14.01359761
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5,766.82	1.42501259
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2,163.18	0.534534594
2,302.08	0.568855513
1,808,345.23	446.8518367
5,178,142.28	1,279.55
11,462.34	2.832405959
6,895.37	1.703884259
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642,057.28	158.6558101
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158,738.99	39.22525854
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1,298.69	0.320912373
48,420,275.27	11,964.91
238,499.10	58.93441016
268,209.37	66.2759781
1,237,738.38	305.8518157
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140,713.78	34.77113157
304,201.00	75.16970325
546,644.23	135.0787302
128,520.54	31.75811786
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60,520.43	14.95492297
1,233,802.61	304.8792645
301,977.57	74.62028346
393,588.40	97.257812
877,499.49	216.8348453
1,190,345.16	294.1406942
4,576,944.52	1,130.99
240,905.62	59.52907474
640,646.61	158.3072249
10,221,301.79	2,525.74
645,892.96	159.6036254
644,525.32	159.2656741

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177,506.42	43.86279204
10,677.57	2.638485615
1,935,391.07	478.2455475
643,531.18	159.020018
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1,191,116.58	294.3313166
57,645.19	14.24443725
80,587.68	19.91364877
1,908,313.83	471.5546177
122,241.08	30.20642876
2,580,115.14	637.5603363
370,820.19	91.63166468
647,183.95	159.9226359
1,183,335.37	292.4085374
74,759.53	18.47348103
1,240,808.90	306.6105555
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71,356.93	17.63268118
316.8847133	0.078303918
2,445.25	0.604235255
64.80072325	0.016012607
1,044,664.32	258.142176
100,493.76	24.83254814
157,726.43	38.97504949
20,800.71	5.139968422
10,794.75	2.667441039
57.78634672	0.014279317
144,305.92	35.65876891
269.8735414	0.066687204
218,868.94	54.08369233
784,183.07	193.7758566
54,333.94	13.42620947
21,208.54	5.240744193
68,074,924.16	16,821.68
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83,558.73	20.64781174
399,073.02	98.61309148
645,667.63	159.5479448
160,448.71	39.64773997
196,917.82	48.65945341
186,471.10	46.0780114
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63,230.93	15.62470381

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245,992.02	60.78595149
327,351.75	80.89037882
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124,501.19	30.764914
640,722.21	158.3259065
35,129.66	8.680728092
46,027.36	11.37360715
1,175,838.52	290.5560249
112,981.40	27.91831312
559,003.74	138.1328326
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141,297.53	34.91537888
231,098.78	57.10575202
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52,771.93	13.04022854
804,343.72	198.757663
353,794.97	87.42464096
152,118.39	37.58927337
643,571.71	159.0300341
9,106.37	2.250232717
37,482.41	9.26210502
549,525.34	135.7906698
646,966.39	159.8688778
214,141.26	52.91545733
369,077.15	91.20094877
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729,864.09	180.3533447
61,276.93	15.14185879
644,247.70	159.1970732
57,852.53	14.29567225
536,203.68	132.498816
49,323.68	12.18814591
243,563.71	60.18590251
343,140.89	84.79196057
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96,807.32	23.92161067
322,799.87	79.76558608
74,682.33	18.45440553
222,732.57	55.03841588
1,440,301.58	355.9062711
421,017.24	104.0356254
82,530.80	20.39380443
618,351.19	152.7979057
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653,208.57	161.411352
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70,206.67	17.34844709
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71,162.37	17.58460535
79,126.33	19.55254286
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414,926.60	102.5305949
765,901.70	189.2584306
4,165,787.97	1,029.39
69,888.55	17.26983636
201,950.22	49.90298616
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161,685.51	39.95335857
353,719.27	87.40593429
295,075.81	72.9148211
145,917,218.34	36,056.93
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520,878.72	128.7119353
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595,455.74	147.1403166
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488,390.45	120.6839083
36,426.62	9.001214319
314,259.20	77.65514039
484,525.05	119.7287482
565,805.87	139.813675
792,960.74	195.944865
120,283.50	29.72270056
652,518.42	161.2408136

0.187017854	4.62131E-05
646,194.34	159.6781
679,349.15	167.8708303
2,679,918.65	662.2223214
642,178.40	158.685738
650,057.23	160.6326407
620,291.33	153.277325
160,073.98	39.5551416
230,461.78	56.94834607
1,946,708.56	481.0421612
206,912.99	51.12931315
585,093.60	144.5797767
1,920,154.41	474.4804873
20,276.14	5.010342668
2,112,078.71	521.9060148
7,732.23	1.910674939
277,188.19	68.49469274
74,942.77	18.51876281
45,053.97	11.1330794
966,117.29	238.7327811
967,709.49	239.1262228
81,686.44	20.18515998
52,900.98	13.072118
119,396.27	29.50346001
165,927.90	41.0016765
766,151.22	189.3200902
2,712,062.40	670.1652144
1,298,098.43	320.767107
1,653,982.37	408.7079447
2,822,112.45	697.3591738
321,607.47	79.47093612
5,901,431.08	1,458.28
625,619.22	154.5938751
332,095.37	82.06255215
468,334.62	115.7280048
181,075.63	44.74476381
356,411.61	88.07122685
1,306,471.65	322.8361759
15,031.25	3.714303518
570,443.43	140.9596421
7,757,018.25	1,916.80
2,581,704.67	637.9531179
83,200.33	20.55925016
233,836.28	57.7822027
513,599.36	126.9131663
17,884.44	4.419342208
377,941.50	93.39137894

232,100.86	57.35337146
181,014.06	44.72954935
83,567.02	20.64986144
712,956.02	176.1752684
36,784,095.73	9,089.55
19,190.99	4.74219614
337,077.85	83.29375084
569,360.54	140.6920546
2,718,308.93	671.7087648
51,489.66	12.7233716
847,581.35	209.4419129
3,245,015.19	801.8607164
1,368,611.06	338.1911587
198,123.76	48.95744831
305,871.10	75.58239495
411,856.16	101.7718738
21,275,033.99	5,257.18
20,146.72	4.978364038
4,153,649.10	1,026.39
247,278.73	61.10390537
310,140.20	76.63731338
25,175.38	6.220971878
161,908.82	40.00854002
633,976.14	156.6589155
383,411.53	94.74305149
402,270.14	99.40311626
301,674.35	74.54535527
339,618.53	83.92156661
248,096.43	61.30596221
1,560,739.83	385.6672111
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2,422,619.93	598.6424225
1,236,199.08	305.4714451
655,602.13	162.0028138
80,952.08	20.00369424
1,240,236.60	306.4691389
644,060.93	159.1509224
252,811.01	62.47096207
380,779.30	94.09261464
324,018.61	80.06674226
647,702.84	160.0508585
167,905.56	41.49036689
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646,422.14	159.7343886
101,058.77	24.97216633
673,775.63	166.4935834
320,478.15	79.19187488



247,612.23	61.18631426
2,367,975.68	585.1395335
80,721.13	19.94662645
3,379,883.45	835.1873891
87,463.65	21.61273938
648,161.99	160.1643146
1,171,248.41	289.4217843
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646,473.55	159.7470927
1,217,066.29	300.7436297
550,567.81	136.0482683
167,117.00	41.29551004
417,560.03	103.1813312
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228,543.18	56.47425068
41,178,222.49	10,175.36
9,404,546.03	2,323.91
142,677.75	35.25644023
27,292.01	6.744002341
188,462.64	46.57013145
177,309.42	43.81411112
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290,268.08	71.72680538
19,418.44	4.798402133
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686,652.48	169.6755218
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320,903.97	79.29709723
1,293,509.14	319.6330698
56,849.46	14.04780638
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643,423.62	158.9934396
155.214093	0.038354238
412,142.17	101.8425492
212,849.24	52.59619246
34,442.14	8.510838389
465,706.57	115.0785996
162,013.15	40.03432144
704,183.58	174.0075527
83,017.52	20.51407668
996,282.23	246.1867001
648,178.98	160.1685132
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2,449,827.02	605.3654395
20,211.91	4.994472279
225,609.45	55.74930924

5,969,301.08	1,475.05
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668,575.90	165.2087024
202,569.73	50.05607019
83,565.18	20.64940674
1,912,201.92	472.5153852
95,088.20	23.49680484
110,428.09	27.28737566
250,676.48	61.94350759
1,470.61	0.36339609
169,889.39	41.9805835
649,339.36	160.4552509
78,931.23	19.50433149
250,881.66	61.99420791
418,790.66	103.4854246
141,196.83	34.890497
659,109.19	162.8694272
164,958.46	40.76212334
249,308.28	61.60541655
315,141,563.90	77,873.18
877.8782084	0.21692843
647,815.07	160.0785902
167,127.79	41.2981756
6,806.94	1.682032345
5,666.34	1.400182121
3,480.33	0.86000905
4,350.74	1.075091263
5,002.89	1.236240435
1,387.18	0.342780796
1,015.10	0.250837758
5,669.27	1.400907602
161,749.88	39.96926489
2,245.78	0.554945241
11,537.11	2.850881254
2,485.84	0.614265123
2,491.70	0.615712252
2,482.04	0.613324612
1,107.45	0.27365705
10,347.14	2.556834642
2,319.76	0.573226133
1,041.72	0.257415768
3,358.39	0.829876098
5,025.29	1.241776281
1,331.74	0.329080998
1,357,059.22	335.3366351
35,316.28	8.726841613
213,431.45	52.74005952

669,319.97	165.3925677
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22,675,839.37	5,603.32
2,418,267.10	597.5668151
54,018.91	13.34836246
7,485.45	1.849695792
167,781.38	41.45968083
80,424.64	19.87336126
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1,398.80	0.345650844
978.4028146	0.241768601
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1,378.26	0.340575046
3,441.39	0.850385589
73,693,317.38	18,210.02
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1,152.43	0.284772818
1,137.95	0.281192504
13,419.00	3.315907756
2,724.67	0.673281428
1,142.95	0.282427953
7,213.59	1.782516194
1,661.20	0.410491371
8,121.60	2.006891221
2,822.77	0.697522483
83,567.81	20.6500549
2,952.86	0.729667205
2,781.13	0.687231162
10,613.71	2.622706066
1,791.32	0.442645102
2,928.06	0.723540179
1,397.53	0.345336507
778,133,819.12	192,281.05
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3,077.16	0.760383023
1,534.01	0.379060966
3,041.48	0.751565163
1,532.31	0.378642426
1,532.30	0.378640254
1,360.16	0.336102016
17,317.12	4.279152543
1,287.11	0.318052315
148,724.36	36.75058901
1,604.68	0.396524591
5,792.97	1.431475163

442,912.71	109.4461139
29,861.11	7.378840903
17,478.95	4.319142768
152,253.81	37.62273487
783,369.74	193.5748779
9,804.89	2.422841928
2,354.18	0.581729546
1,934,402.93	478.0013742
70,979.40	17.53939236
807,463.66	199.5286147
297,672.82	73.5565558
1,791,312,566.32	442,642.98
667,340.28	164.9033733
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400,474.43	98.95938589
193,829.89	47.89640976
365,670.08	90.35904459
56.11387873	0.013866041
1,616,303.07	399.3971878
429.2020142	0.106058127
444,002.46	109.7153966
304,552.99	75.25668318
68,891.31	17.02341286
81,708.31	20.19056396
519,148.01	128.2842669
14,082.80	3.479935275
590.7365843	0.145974189
643,970.91	159.1286778
1,889.75	0.466966208
83,568.83	20.6503087
4,225,744.43	1,044.20
2,331,806.43	576.2019164
43,490.54	10.74674543
486,092.27	120.1160153
81,156.34	20.05416936
128,841.29	31.83737577
972,293.98	240.2590754
201,415.72	49.77090787
32,754,229.63	8,093.75
1,184,887.60	292.7921013
82,933.30	20.49326446
188,812.51	46.65658634
287,350.57	71.00587159
4,690,133.57	1,158.96
386,008.46	95.38476839
250,387.19	61.87202204
2,584,753.98	638.7066173

1,940,392.19	479.4813533
71,424.83	17.64945961
455,803.31	112.6314513
98,403.89	24.31613023
59,180.16	14.6237371
18,975.36	4.688913194
255,035.50	63.02064474
14,457.76	3.572590426
37,569.14	9.283536045
117,886.39	29.13036099
304,714.35	75.29655622
4,271,952.94	1,055.62
160,814.61	39.73815634
16,705.10	4.127919907
284,178.90	70.22213609
177,146.11	43.7737562
974,289.20	240.7521052
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562,635.59	139.0302812
76,084.31	18.80084158
880,756.60	217.6396959
322,615.60	79.7200506
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615,818.34	152.1720246
646,049.00	159.642185
409,417.53	101.1692742
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17,220.56	4.255291859
5,028,410.83	1,242.55
2,486,394.74	614.4015213
84,352.46	20.84394755
2,523.32	0.623525583
486,027.13	120.0999191
645,701.32	159.55627
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621,612.06	153.6036853
807,813.62	199.615093
32,442,147.66	8,016.63
131,824.89	32.57464023
106,875.58	26.40953118
1,134,396.26	280.3154209
91,327.16	22.56743298
27,679.35	6.839715941
9,931.24	2.454063309
647,071.47	159.8948428

53,898.25	13.31854758
607,591.86	150.1392178
340,283.18	84.08580597
244,818.84	60.49605271
14,982.15	3.70216927
36,171.87	8.938264301
306,612.72	75.76565413
9,549,135.57	2,359.64
282,228.78	69.74025018
206,899.78	51.12604834
6,448,602.31	1,593.48
227,920.78	56.32045178
102.2588722	0.025268718
13,535,943.73	3,344.80
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39,555.80	9.774451686
86,784.83	21.44499851
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797.019857	0.196947896
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1,169,048.32	288.8781318
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128,272.47	31.69681812
214,267.69	52.94669926
344,646.77	85.16407177
628,968.19	155.4214241
621,979.67	153.6945232
90,771.45	22.4301144
917.6275671	0.22675071
24,787.79	6.125196412
58,898.70	14.55418546
68,310.40	16.87986827
643,138.78	158.9230544
303,467.43	74.98843531
95,533.52	23.60684615
294,661.83	72.81252483
35,236.40	8.707104126
165,788.81	40.96730799
7,925,916.64	1,958.54
518,668.04	128.165665
646,048.39	159.6420344
79,604.60	19.67072614
81,805.45	20.21456583
162,821.50	40.23406985
413,877.08	102.2712549
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74,227.31	18.34196818

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313,811.50	77.54451054
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40,396,724.72	9,982.25
408,797.17	101.0159797
3,253,923.13	804.0619158
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61,585.22	15.21803993
401,348.53	99.17538064
19,060.35	4.709915048
3,913,272.07	966.9905868
71,285.92	17.61513359
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127,599.64	31.53055858
169,189.24	41.80757159
222,243.17	54.91748282
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130,152.36	32.16134865
1,628,815.68	402.4891209
82,001.58	20.26303093
74,543.22	18.42003165
389,554.64	96.26104765
897,486.86	221.7738327
2,606,664.38	644.1207953
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9.879723823	0.002441333
397,853.37	98.31170831
2,756.50	0.68114509
7,810,135.11	1,929.93
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0.066699265	1.64817E-05
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46,615.30	11.5188906
1,313,846.95	324.6586528
648,732.98	160.3054113
652,412.69	161.2146869
1,302.58	0.321873944
1,036.03	0.256009606
7,753.06	1.915821685
2,599,209.60	642.2786793
362,433.58	89.55928847
2,592,670.80	640.6629061
152,938.85	37.79201266
2,718,825.35	671.8363754
16,671,957.38	4,119.73

2,592,597.25	640.6447325
6,725,008.58	1,661.79
2,590,863.98	640.2164315
206,262.30	50.96852316
2,591,331.68	640.3320038
461,671.47	114.0815046
509,237.90	125.8354267
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916,016.08	226.3525024
407,872.19	100.7874132
40,736.93	10.06631505
317,375.58	78.42521419
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477,542.68	118.0033651
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70,143.11	17.33273971



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154,649.72	38.21477795
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160,377.14	39.6300547
320,689.97	79.24421741
971.4966233	0.240062044
159,914.91	39.5158354
574,015.16	141.8422357
164,070.02	40.54258446
8,459.73	2.090444869
718,517.63	177.5495739
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23,609.26	5.833974357
323,805.36	80.01404718
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28,590.45	7.06485348
2,599,359.36	642.3156856
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8,143.37	2.012271625
47,798.27	11.81120974
79,519.34	19.64965669
42,614.58	10.53029087
9,453,014.12	2,335.89
159,658.63	39.45250599
21,346,060.51	5,274.73
6,586.38	1.627530776
15,023.85	3.71247419
1,876,383.30	463.6644112
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2,043.76	0.505023525
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284.7654101	0.070367065
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302.9196596	0.074853078
499.425809	0.123410805
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2,597,844.32	641.9413121

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287,804.73	71.11809679
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21,689.67	5.359633199
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9,259.86	2.288161325
475,572.49	117.5165225
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189,697.67	46.87531448
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2,459,899.12	607.8543096
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655,131.67	161.8865604
773,763.05	191.201014
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161,575.31	39.92612813
45,945.48	11.35337647
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101,548.24	25.0931168
647,048.55	159.8891777
161,176.08	39.82747777
1,302,426.35	321.8365592
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171,112.30	42.2827697
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162,887.17	40.25029553
325,430.33	80.4155865
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74,627.62	18.4408867
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12,689,534.00	3,135.65
170,823.65	42.21144367
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168.288687	0.04158504
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162,224.17	40.08646623
4,445,125.02	1,098.41
162,588.84	40.17657783
161,769.46	39.97410334
72,024.38	17.79761081
162,102.47	40.0563924
25,291.96	6.249779716
2,052,668.12	507.225338
2,576,071.90	636.5612289
27,436,439.36	6,779.69
324,165.11	80.10294223
32,710.73	8.082997708
815,018.35	201.3954191
161,132.00	39.81658515
152,760.77	37.74800909
5,064,694.39	1,251.51
160,371.67	39.62870279
88,111.54	21.77283615
1,391.69	0.343893162
793,904.34	196.1780343
7,022.84	1.73538271
44,682.70	11.04133596
1,787,427.99	441.6830753
2,873.72	0.710111161
49,548.41	12.2436779
1,456.41	0.359886694
2,545,933.13	629.1137783
4,561.86	1.127260898
37,350.01	9.229387699
118,220.87	29.21301408
165,241.59	40.83208552
227,054.31	56.10634239
5,689.75	1.405967003
2,091,550.16	516.833299
2,524,105.14	623.7199628
306,753.49	75.80043912

300.2828549	0.074201509
1,724.89	0.42622842
5,132.56	1.268283805
22,726.87	5.615932308
611,048.74	150.9934309
62,100.08	15.34526483
2,540,989.58	627.8921984
5,509,628.97	1,361.46
12,680,163.58	3,133.34
7,282.27	1.799487408
150,032.72	37.07389277
328,772.15	81.2413672
21,738.67	5.371742181
2,259,745.89	558.3953712
7,164.94	1.770494774
1,289,314.65	318.5965882
21,694.71	5.360879341
7,241.04	1.789299735
24,708.74	6.105662223
5,775,351.72	1,427.12
21,443.26	5.298744133
263,010.17	64.99122849
28,636.12	7.076140214
24,553.05	6.067189665
2,831.68	0.699722672
647,091.56	159.8998064
2,649,209.39	654.6338961
2,568,991.91	634.8117271
172,194.69	42.55023396
8,959.91	2.214042647
1,246.54	0.308026568
34,775.03	8.593096811
186,162.81	46.00183232
2,659,211.18	657.1053931
5,766,339.16	1,424.89
1,722,751.18	425.701088
31,360.88	7.74944289
1,546,059.12	382.0395293
72,912.97	18.01718821
887,051.38	219.1951685
1,659,090.21	409.9701202
43,315.74	10.70355362
1,870,850.27	462.2971702
96,501.17	23.84595752
526,218.49	130.0314198
6,477.48	1.600620149
163,863.73	40.49160849

953,714.28	235.6679299
33,423.04	8.259011845
4,837,189.31	1,195.30
5,134.61	1.268789607
22,497.90	5.559352553
164,619.57	40.67838138
2,620,820.10	647.6187506
7,403.94	1.829553922
10,481.81	2.590110947
120,747.43	29.83733854
326,308.27	80.63252923
2,035.41	0.502959609
23,958,872.95	5,920.37
321,053.95	79.33415862
267,285.87	66.04777593
8,182.16	2.021855985
2,550,946.55	630.3526194
11,049,751.18	2,730.45
37,612.43	9.294234764
1,940,842.73	479.5926821
3,614,695.17	893.2106287
18,304.54	4.523149541
575,806.81	142.2849626
7,249.48	1.791385372
3,396.04	0.839178809
566.9163559	0.140088082
2,267.04	0.560197053
3,398.63	0.839819301
575.020194	0.142090584
20,369.29	5.033362227
3,395.15	0.838959776
510.5333701	0.126155543
1,699.47	0.41994818
3,395.48	0.839040383
3,395.68	0.839090769
2,831.69	0.699726297
1,132.95	0.279959247
2,273.97	0.561911248
3,288.78	0.812675704
3,398.71	0.839839896
1,603,057.41	396.1241139
3,398.61	0.8398141
7,241.74	1.789472804
20,494.63	5.064332316
3,397.46	0.839530935
3,398.74	0.839846652
3,401.09	0.840426429

5,320.33	1.314681128
1,886.84	0.466249113
1,979.83	0.489225619
2,415.30	0.596833227
17,680.22	4.368876869
1,699.48	0.419951397
12,733.43	3.146500278
4,826.30	1.192603669
2,266.22	0.55999577
1,699.29	0.419904115
1,687.25	0.416927423
757.4818607	0.187177844
71,188.29	17.59101027
199,343.37	49.25881874
19,492.92	4.816804539
14,448.70	3.570350502
743,521.60	183.7281896
2,594,573.19	641.1329986
9,750.15	2.409313939
8,198.73	2.025950764
184,219.25	45.52156781
153,131.36	37.83958316
2,591,622.84	640.4039495
318,977.93	78.82116422
1,455,063.13	359.5539288
150,776.01	37.25756466
797,760.80	197.1309858
2,732,843.95	675.3004459
2,589,463.00	639.8702423
143.5722066	0.035477465
2,586,469.44	639.1305177
1,277,707.64	315.7284332
1,811,435.96	447.6155743
1,576.71	0.389613513
383,277.69	94.70998041
345,416.83	85.35435742
157.2800036	0.038864735
182.0864695	0.044994546
197.7493905	0.048864939
167.6936909	0.041438013
183.8436032	0.045428744
4,225.07	1.044038086
9,055.37	2.237631338
575.5395084	0.14221891
7,118.44	1.759005322
1,303,830.03	322.1834179
3,286.12	0.81201804

69,422.64	17.15470717
60,528.39	14.9568905
5,882,368.35	1,453.56
306,596.51	75.76164868
193.2925221	0.047763622
6,470.75	1.598956499
2,446.69	0.604589254
71,587.55	17.68966858
173,801.86	42.94737448
9,909,198.22	2,448.62
2,581,116.53	637.8077856
8,209.46	2.028602937
2,312,143.03	571.3429865
65,274.56	16.12969473
196,718.09	48.61009928
720,392.33	178.012822
2,565,149.94	633.8623544
371.0874861	0.091697715
20,410.90	5.043643529
3,685.06	0.910597973
7,286.88	1.800627017
2,591,991.25	640.4949866
84,185.41	20.80266718
18,805.40	4.646916114
3,827.25	0.945732891
1,327.35	0.327995556
3,075.01	0.759850837
21,289.09	5.260648576
1,421.77	0.351327676
2,624,019.99	648.4094601
486,519.46	120.2215763
40,581.88	10.02800034
24,470.11	6.046695584
94,043,757.90	23,238.72
128,991.71	31.87454614
814,393.21	201.2409444
2,575,414.81	636.3988584
43,232.14	10.682895
163,062.47	40.29361485
424,546.55	104.9077366
129,886.50	32.09565323
244,114.95	60.3221174
64,377.05	15.90791482
2,118,558.38	523.5071778
189,172.43	46.7455254
161,648.68	39.94425863
2,585,449.53	638.8784915

161,640.28	39.94218362
2,711.39	0.669999899
161,411.42	39.88562977
29,160.81	7.205793517
12,376.10	3.058199872
7,888.67	1.949333532
2,599,119.87	642.2565062
197,353.73	48.7671697
325,650.48	80.46998558
326,061.21	80.57147952
91,102.21	22.51184703
1,938,811.35	479.0907187
2,577,788.32	636.9853672
2,001.08	0.494476791
814,415.23	201.2463868
38,860.57	9.60265605
1,735,073.49	428.7459964
2,490.77	0.615483245
492,681.72	121.7443041
8,208.62	2.02839295
2,498.40	0.617368421
328,810.32	81.25080016
14,523,151.89	3,588.75
1,281,656.51	316.7042198
6,155.91	1.521158787
134,432.96	33.21910701
6,840.37	1.69029209
5,374.52	1.328073972
3,647.22	0.901248348
8,384.47	2.071847473
15,250.49	3.76847695
2,567,449.19	634.4305116
3,374,052.08	833.7464266
89,407.84	22.09315962
159,549.54	39.42554991
1,066,756.35	263.6012356
7,064.50	1.745676557
146,943.04	36.31041563
159,964.23	39.52802311
37,653,403.61	9,304.36
642,478.72	158.7599484
154,441.05	38.16321507
2,588,739.30	639.6914131
159,326.75	39.37049807
3,882,629.00	959.418519
766,122.28	189.3129393
1,727,057.22	426.765134



2,581,877.86	637.9959145
160,889.68	39.75670626
159,644.32	39.44897041
791,770.58	195.6507708
5,562,828.49	1,374.60
160,462.17	39.65106546
192.2418113	0.047503986
159,928.50	39.51919324
161,738.13	39.96636326
1,154,599.31	285.3077033
2,568,287.34	634.6376224
28,647,431.20	7,078.93
2,272,694.54	561.5950511
2,269,133.70	560.7151488
161,154.05	39.82203418
750,679.31	185.496897
273,299.78	67.53384565
1,938,813.79	479.0913201
1,297,327.11	320.5765094
3,348,203.17	827.3590208
194.6594151	0.048101389
1,024.44	0.253144628
768.4544159	0.189889222
1,961.37	0.484665791
158,970.62	39.28249654
2,593,980.58	640.986561
2,104,406.89	520.0102681
161,100.41	39.80877804
161,835.87	39.99051329
54,242.92	13.40371744
157,273.66	38.86316701
11,612.30	2.869460691
5,318.20	1.314154915
162,766.00	40.22035384
316,888.59	78.30487703
68,338.35	16.88677304
821,317.48	202.9519701
2,109,901.98	521.3681346
162,954.43	40.26691578
606.0791439	0.149765418
2,551,499.12	630.4891622
351,237.93	86.79278167
2,893.64	0.71503407
147,818.12	36.52665201
217,823.95	53.82547013
774,778.13	191.4518446
5,909.17	1.46018834

327,050.73	80.81599643
31,658.73	7.823042456
48,823.97	12.06466468
157,203.53	38.84583832
132,005.87	32.61936127
314,662.27	77.75473928
2,623,695.74	648.3293366
643,518.58	159.0169031
85,079.48	21.02359794
160,528.04	39.66734203
36,451.64	9.007396846
143,162.03	35.37610817
157,278.20	38.86428997
626,992.47	154.9332136
156,711.76	38.72431982
639,029.68	157.9076734
7,146.14	1.765849326
157,380.43	38.88955042
158,632.78	39.19901477
2,430,254.16	600.5288811
160,610.37	39.68768744
646,642.27	159.788784
121,174.76	29.94293578
264.3759928	0.065328731
7,447.75	1.840379316
4,826.78	1.192723929
337.8649293	0.083488242
643.7189831	0.159066425
7,335.02	1.812521814
14,383.25	3.554178418
8,314.55	2.054570892
159,594.50	39.4366605
5,168.90	1.277263227
328,114.87	81.07895064
70.97490091	0.01753828
2,403.99	0.594039474
159,245.17	39.35033872
3,554.72	0.878390048
87.52367325	0.021627571
12,091.66	2.98791336
1,278.68	0.315967495
223.549679	0.055240329
3,193.32	0.789086009
2,834,824.44	700.5003741
985.3345879	0.243481479
333.74614	0.082470467
392.6914404	0.097036168

2,584.58	0.638663342
4,832,451.13	1,194.12
478,171.96	118.1588649
2,042.31	0.504666846
211.6477166	0.05229929
162.1005201	0.040055911
1,269,271.35	313.6437807
970,519.19	239.8205136
157,678.73	38.9632634
2,835.57	0.700685277
962,614.64	237.8672567
826.6355145	0.204266084
135.7487633	0.03354425
17,707.07	4.375511971
1,340,676.41	331.2883568
161,843.15	39.99231211
159,282.72	39.35961617
3,957.25	0.97785871
153,877.20	38.02388323
2,585,744.49	638.9513781
149,400.29	36.91761582
1,228.82	0.303648896
4,687.13	1.158214348
2,042.58	0.504732184
1,510.75	0.373314883
66.24916904	0.016370526
55.30232433	0.013665502
54.46472183	0.013458526
6,054.79	1.496171111
154,169.98	38.09623241
210.4016174	0.051991372
216.5128886	0.0535015
156,162.81	38.58867158
237.5642036	0.058703393
146.8971585	0.036299078
1,945.91	0.480844562
20,693,035.32	5,113.36
1,118,519.48	276.3921829
2,591,875.40	640.4663583
155,673.71	38.46781065
1,887.57	0.46642968
2,757.99	0.681513462
156,122.73	38.57876579
638,247.22	157.7143224
311.8035529	0.077048336
319,795.45	79.0231763
2,554,401.68	631.2064026

157,246.57	38.85647367
5,829.02	1.440381927
6,011.81	1.485549457
2,440.06	0.602952474
160,864.87	39.75057415
15,812.40	3.907329898
2,393.98	0.591566403
160,340.10	39.62090081
2,862,438.12	707.3238644
160,035.16	39.54555018
159,081.34	39.30985501
2,570,782.36	635.2541562
160,222.35	39.59180468
159,190.58	39.33684783
13,855.19	3.423692411
546,170.18	134.9615909
160,035.94	39.54574251
2,258,961.31	558.201495
564,748.12	139.5522996
4,007,535.55	990.2836018
323,244.21	79.87538335
162,220.06	40.08544955
189.573824	0.046844712
761.9957794	0.188293258
158,331.86	39.12465494
6,170.33	1.524722531
295,545.38	73.0308534
158,851.21	39.25298862
158,760.70	39.23062379
2,838.36	0.701372828
160,017.10	39.54108713
3,547,776.06	876.6745576
1,117,751.01	276.2022908
491,813.12	121.5296697
1,617,997.51	399.8158913
784.4305461	0.193837009
144.3675906	0.035674009
642,971.92	158.8818209
2,489,150.00	615.0823609
10,244.67	2.531514128
1,300.55	0.321373711
2,567,509.33	634.4453722
1,274,435.82	314.9199487
1,407,651.57	347.8382777
2,268,287.02	560.5059295
77,442.76	19.13652328
42,627.62	10.53351433

16,123,719.31	3,984.26
6,452,262.40	1,594.39
2,048,773.87	506.2630479
8,441.82	2.086019462
2,596,384.84	641.5806657
162,390.00	40.12744397
26,815.72	6.62630841
32,705.52	8.081710174
4,417,287.85	1,091.54
5,762.68	1.423990143
254,129.25	62.79670635
3,368,559.38	832.3891512
478,237.54	118.1750692
162,717.99	40.20849033
589.7767227	0.145737002
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47,769.91	11.80420116
20,783.20	5.135640524
160,978.46	39.77864312
6,162.71	1.522838295
3,690,365.24	911.9091104
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3,619.87	0.89448962
646,992.93	159.8754357
4,298.66	1.062222534
720.6176248	0.178068493
7,516.40	1.857343149
1,049.17	0.259256404
7,174.01	1.772735746
139,007.44	34.34948559
57,496.59	14.20771615
1,414,656.05	349.5691241
5,375.24	1.328250913
150,316.88	37.14410882
30,944.94	7.646662052
13,445.49	3.32245336
10,732,609.40	2,652.09
367,982.49	90.93045446
435,998.51	107.7375787
484,784.53	119.7928659
419,937.37	103.7687845
162,374.71	40.12366383
156,979.48	38.79047552
322,468.84	79.68378569
161,542.47	39.91801311
162,347.02	40.11682312
662,602.67	163.7326848

150,405.18	37.16592869
128,094.32	31.65279645
2,089,507.93	516.3286553
159,694.03	39.4612531
875,839.22	216.4245857
103,271.77	25.51901119
25,891,062.32	6,397.82
357,209.17	88.26830918
16,659.49	4.116650554
2,756,973.20	681.2629142
477,069.26	117.8863811
160,944.59	39.7702753
318,332.46	78.66166414
34,321.77	8.481094394
319,182.73	78.87177001
156,452.56	38.66027031
20,174.23	4.985161667
14,655.76	3.621517752
2,316.35	0.572382067
2,516,237.02	621.7757078
1,950.43	0.481962301
2,698.91	0.666915747
145.9927043	0.036075583
4,895.57	1.209722704
1,499.38	0.370504565
106,989.30	26.43763223
5,515.99	1.363031995
4,487.55	1.10889838
4,640.01	1.146570765
176.2942314	0.043563253
3,149.61	0.778286242
2,482,640.23	613.473762
488.0922641	0.120610225
15,695.69	3.878489175
91,717,581.96	22,663.91
321,261.34	79.3854056
141.9347413	0.035072838
8,727.74	2.15667256
141.622964	0.034995797
142.6795377	0.035256882
159,056.95	39.303829
2,606,884.24	644.1751253
160,535.10	39.66908608
2,581,701.18	637.9522558
160,476.72	39.65466129
28,603.43	7.068060574
2,419,094.80	597.7713442

52,492.27	12.97112153
73,571.56	18.17992909
1,023.85	0.252998506
2,062.79	0.509726436
2,891,945.79	714.6153675
1,444,511.52	356.9465706
482,074.26	119.1231448
82,310.99	20.33948752
312.6843515	0.077265986
349.4736849	0.086356828
299.8317363	0.074090036
5,659.56	1.398507817
1,801,316.52	445.1150047
1,950.48	0.481974207
159,661.63	39.45324822
1,203,421.95	297.3720412
1,248.26	0.308451632
322,275.88	79.6361036
162,748.77	40.21609696
10,001,807.27	2,471.50
322,198.65	79.61702014
162,616.17	40.18333156
1,696,713.59	419.2670586
647,856.78	160.088896
16,951.38	4.188777081
964,029.83	238.2169582
26,083.05	6.445262031
7,985.80	1.973334155
648,624.87	160.2786962
160,855.72	39.7483133
321,628.62	79.47616283
9,578.72	2.366954089
37,254.66	9.205828177
16,110.60	3.981015867
5,673.80	1.402026588
5,175,345.94	1,278.86
1,212,609.96	299.6424477
159,934.20	39.52060254
259.8785424	0.064217386
44,474.33	10.98984628
268.4709156	0.066340608
107.8710479	0.026655516
41,231.45	10.1885142
17,989.03	4.445185769
1,906,889.58	471.202678
195.5772856	0.0483282
2,586,112.95	639.0424281

4,376.33	1.081413596
18,286.59	4.518714972
321,473.78	79.4378999
2,583,247.92	638.3344625
2,147,891.14	530.7554605
7,918.27	1.956646459
41,458.97	10.24473483
592,511.10	146.4126809
1,516,928.20	374.8411224
34,344.86	8.486800083
3,902.38	0.964298896
67,781.24	16.74910856
2,574,425.99	636.154517
8,183.24	2.022121676
966,914.22	238.9297079
161,481.32	39.90290357
8.423174909	0.002081412
1,660,870.50	410.4100394
269,987.43	66.71534617
7,548,813.54	1,865.35
114,735.46	28.35174954
650,846.48	160.8276676
599,061.57	148.0313387
61.7399746	0.01525628
806,693.91	199.3384073
2,425,641.54	599.3890778
77,872.65	19.24274993
26,930.24	6.654607588
56,553,598.93	13,974.70
2,547,483.91	629.4969835
1,994,410.52	492.8295732
648,366.98	160.2149697
322,297.72	79.64150218
269,113.90	66.49949189
4,936.70	1.219885885
19,714.65	4.871595546
409,636.36	101.2233494
9,716.79	2.401070653
2,587,517.53	639.3895066
161,480.69	39.90274653
2,589,208.60	639.8073783
584,640.88	144.467907
46,089.21	11.38889135
241,922.86	59.78044127
2,273,449.91	561.7817079
2,593,531.41	640.8755696
2,607,667.89	644.3687684



121,729.17	30.07993275
161,208.42	39.83546747
31,987.61	7.904311078
322,214.77	79.62100462
813,287.16	200.9676347
805,992.27	199.1650269
2,597,227.28	641.7888382
162,609.87	40.18177401
6,122.33	1.51286124
162,477.27	40.14900888
8,362,517.32	2,066.42
22,200.79	5.485934372
32,020.41	7.912416309
162,579.09	40.17416746
37,038.74	9.15247215
8,100,991.12	2,001.80
19,325.78	4.775503126
563,021.79	139.1257132
161,443.35	39.89352
686.6120917	0.169665543
538,331.40	133.024585
326,328.51	80.63753117
131,187.56	32.41715087
1,404,241.02	346.9955122
334,418.83	82.63669261
486,473.73	120.2102759
4,856,943.26	1,200.18
324,489.32	80.18305808
1,624,175.52	401.3425114
2,398,415.59	592.6613989
28,628.80	7.074330537
2,594,201.08	641.0410464
1,782,308.67	440.4180628
650,895.14	160.8396918
2,585,477.81	638.8854805
3,614,994.91	893.2846972
27,934.14	6.902676941
320,492.55	79.19543422
325,986.92	80.55312139
4,054.25	1.001826363
10,192.96	2.518736254
2,567,318.16	634.3981325
2,906,924.79	718.3167585
1,165.06	0.287893771
3,719.22	0.919039491
3,702.17	0.914824941
2,568,736.79	634.7486833

16,554.02	4.090587401
19,669.63	4.860470338
10,042.35	2.481519161
2,278,603.77	563.0552536
29,019.38	7.170844814
17,063,853.70	4,216.57
1,292,621.66	319.4137688
1,622,381.08	400.8990968
4,890.17	1.208386318
161,813.92	39.98509156
743.2977309	0.183672869
161,776.94	39.97595349
326,325.42	80.63676832
1,529,455.28	377.9366315
2,574,500.28	636.1728732
49,179.37	12.15248816
31,674.48	7.826934697
4,883.39	1.206712711
258,422.89	63.85768741
2,592,935.23	640.7282484
659,112.73	162.8703027
2,051,271.12	506.8801314
113,318,607.61	28,001.64
970,303.25	239.7671551
3,042.30	0.751769502
2,591,450.04	640.3612511
52,340.03	12.93350321
59.76354938	0.014767895
15,067.31	3.723214191
109,302,454.18	27,009.22
4,582,027.41	1,132.24
1,222.73	0.302143794
55,431.55	13.69743499
2,594,753.71	641.1776059
1,477.25	0.36503627
434,578.61	107.386712
161,679.24	39.95181124
8,817.89	2.178947233
46,695.76	11.53877476
647,681.89	160.0456816
2,591,058.57	640.2645157
95,749.85	23.66030358
3,078,996.70	760.8366538
6,762.60	1.671073987
335,900.35	83.00278336
45,398.11	11.21811674
163,165.28	40.31901935

431,744.47	106.6863829
17,386.23	4.296230923
25,620.44	6.330948581
46,385.65	11.46214343
113,274,077.27	27,990.63
3,252,641.82	803.7452979
31,617,163.15	7,812.77
12,386,497.46	3,060.77
487,088.46	120.3621808
2,557,883.99	632.066898
163,293.80	40.35077754
1,872,976.24	462.8225091
16,289.30	4.025174196
40,232.25	9.941604315
564.61185	0.139518627
446.221441	0.110263719
1,713.47	0.423408223
1,044.25	0.258039027
863.9207165	0.213479458
1,362.79	0.336752943
97,424.90	24.07421684
40,376.96	9.977363612
138,442.03	34.2097715
21.92100136	0.005416797
37,394.10	9.240283183
163,649.11	40.43857464
42,436.30	10.48623886
43,155.93	10.66406247
46,980.02	11.60901599
80.09474878	0.019791843
5,723.98	1.414425512
4,481.97	1.10751976
0.893022549	0.000220671
30,284.35	7.483425021
1,426.69	0.352543217
1,268.22	0.313385106
26,985.71	6.668313557
218,990.04	54.11361651
2,106.21	0.52045705
1,296.12	0.320278526
7,191.08	1.776955585
5,237,077.95	1,294.11
6,810.23	1.682843456
2,179.88	0.538658878
2,045.47	0.505447848
7,449.44	1.840797697
1,297.98	0.32073807

413,476.39	102.1722406
237,255.63	58.62714304
809,661.04	200.0716013
5,778.38	1.42786974
24,282.84	6.000421331
7,741.82	1.913044376
316,641.55	78.24383202
39,815.88	9.838719
16,298,376.51	4,027.42
142,050.03	35.10132733
164,269.90	40.59197657
7,109.45	1.756782682
411,640.75	101.7186447
5,939.60	1.467706567
1,296,493.74	320.370581
102,433,855.75	25,311.96
1,587.63	0.392311619
395,451.87	97.71828584
20,969.50	5.181675341
159,095.16	39.31326916
371.2143738	0.091729069
6,685.00	1.651898971
3,942.29	0.974160959
73,099.53	18.06328634
6,583,415.19	1,626.80
167,188.52	41.31318357
1,463.65	0.361676245
623.0515488	0.153959391
7,959.93	1.966942239
48,799.63	12.05865167
240,721.39	59.48355189
159,967.29	39.52877736
160,518.07	39.66487776
79,566.94	19.66141797
58,711.18	14.5078478
317,989.84	78.5770011
159,408.70	39.39074856
2,325.80	0.574718233
10,730.30	2.651514439
273,490.30	67.58092552
38,755.41	9.576670912
325,666.35	80.47390842
121,143.86	29.93529975
486,040.87	120.1033134
1,091.20	0.269640955
116,768.17	28.85404419
2,752,744.65	680.2180173

75,727.89	18.71276868
382,121.08	94.42417542
74,601.63	18.43446499
61,585.35	15.21807214
80.70975171	0.019943814
0.341484338	8.43826E-05
244,606,849.47	60,443.67
116,748.11	28.84908718
258,137.08	63.78706257
1,244,467.12	307.5145213
4,938.03	1.22021421
461.8753064	0.114131874
19,332.61	4.777192747
8,147.68	2.013335648
81,031.34	20.0232809
805,871.28	199.1351293
611,948.20	151.215694
161,187.15	39.83021114
203,053.22	50.17554378
290,797.25	71.85756578
644,886.53	159.3549331
359,612.30	88.86213457
77,836.51	19.23382146
2,170.83	0.536424752
8,284.88	2.047238422
70,746.93	17.48194723
83,469.14	20.62567348
83,557.78	20.64757788
369.3305785	0.091263573
9.167754857	0.002265402
3,482,387.89	860.5167892
0.273434867	6.75672E-05
1,017,071.95	251.323952
323,191.32	79.86231474
105,154.87	25.98433442
352,841.07	87.18892763
15,377.70	3.799911912
82,147.99	20.29921053
46,404.46	11.46679156
555,391.87	137.2403203
1,220,064,357.70	301,484.47
274.4463028	0.067817158
970,399.87	239.7910309
20,055.59	4.95584419
68,540.20	16.93665131
3,694,704,294.85	912,981.31
543,093,562.02	134,201.34

2.24271024	0.000554186
3.528536177	0.00087192
1,336,616.17	330.2850483
6,721.36	1.660883043
2,296,554,191.88	567,490.90
19,788,959.45	4,889.96
5,078.09	1.254823764
2,834.28	0.700365652
1,863.17	0.460398808
5,320.52	1.314730331
26.24274378	0.006484723
0.117654567	2.90731E-05
1,597.77	0.394818617
10,190.00	2.5180038
86,655.51	21.41304286
59,237.22	14.63783667
8,219.20	2.031009122
2,018,683.35	498.8275193
50,728,928.59	12,535.39
14,479.87	3.578054422
9,824.45	2.427674364
66,106.00	16.3351473
13,684.12	3.381420093
7,159.75	1.769212086
27,813.08	6.872762297
13,789.97	3.40757481
5,395.51	1.333259447
6,380.10	1.576558203
60,861.44	15.03918841
366.2945228	0.090513348
260.9093224	0.064472098
74,003.22	18.28659494
2,786.25	0.688496535
530.189316	0.131012633
25,640,833,731.92	6,335,988.00
163,364.54	40.36825662
52,849.68	13.05944145
109,175.59	26.97787676
661,816.23	163.538353
7,464.87	1.844609813
1,240.83	0.306615114
18,647.43	4.607880052
73,766.15	18.2280131
195,373.11	48.27774782
290,395,665.67	71,758.33
1,042,693.73	257.6552331
162,644.06	40.19022276

323,959.17	80.05205466
161,740.71	39.96699869
388,422.06	95.9811822
3,630,414,850.13	897,095.05
1,533,725,640.57	378,991.86
22,022.87	5.441970189
324,832.54	80.26786893
9,469.56	2.33997839
3,440.54	0.850175244
1.981774633	0.000489707
1,756,864.49	434.1306704
1,443.31	0.35665058
29.05479355	0.007179596
2,338.99	0.577977787
1,757,124.33	434.1948772
2,399.14	0.592839991
1,705.17	0.421357686
36,443.34	9.005344568
244,606.17	60.4435012
649,453.68	160.4834997
2,052.38	0.507154291
14,073,301.93	3,477.59
104.4501729	0.0258102
578.3756043	0.142919724
958,470.66	236.8432583
183,167.82	45.26175344
481,084.63	118.8786007
56,210.98	13.89003473
322,182.66	79.61307008
5,259.59	1.299673585
85,210.95	21.05608446
582.6294376	0.143970869
73,296.63	18.11199291
155,669.80	38.46684599
15,081.53	3.726728405
1,377,827.39	340.4685636
759,477.74	187.6710355
161,317.87	39.86251428
131,161.14	32.41062369
161,677.18	39.95130131
357.8340714	0.088422725
323,655.14	79.97692782
3,112,895.92	769.2133348
871,572.13	215.3701636
3,394,803.00	838.8740913
33,217.97	8.208338793
968,958.37	239.4348284

162,148.19	40.06769109
238,546.09	58.9460226
2,272,105.62	561.4495257
16,125.26	3.984639273
975,584.90	241.0722796
1,836.98	0.453927492
162,385.45	40.12631778
129,491.74	31.99810608
117,004.16	28.91235824
6,253,034.65	1,545.16
490.9724323	0.12132193
44,077.07	10.89168068
19,115.13	4.723452562
94,059.52	23.24261393
5,614.54	1.387383398
5,540.87	1.369177679
104,722.45	25.87748014
1,481.36	0.366051927
2,007.85	0.496149891
131,013.60	32.37416585
1,785,173.02	441.1258594
13,246.99	3.27340337
1,313.25	0.324510743
25,149.17	6.21449577
2,545.87	0.629098353
313,896.32	77.56547015
34,974.68	8.642432205
33,754.05	8.340806262
45,349.37	11.20607379
1,009,687.74	249.4992749
162,910.01	40.25593983
150,788.46	37.26063922
1,295,644.00	320.1606054
419,853.46	103.7480495
197,149.50	48.71670149
36,151.86	8.933318947
121,928,507.69	30,129.19
161,861.59	39.99686998
334,246.90	82.5942085
4,607.80	1.138612873
21,238.56	5.248163299
50,914.94	12.5813548
1,105.28	0.273120186
162,008.70	40.03322065
804,452.00	198.7844191
161,872.26	39.99950733
482,170.59	119.1469464



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26,645.61	6.584274802
158,907.23	39.26683241
510,637.78	126.1813431
73,575.87	18.18099384
161,594.14	39.93078245
94,706.27	23.40242871
4,009.60	0.990792871
161,986.18	40.02765703
482,088.29	119.1266116
485,176.82	119.889804
970,841.96	239.9002722
485,264.44	119.9114549
162,158.64	40.07027236
169,451.00	41.87225425
313,154.51	77.38216442
1,131,788.93	279.6711363
647,475.85	159.9947665
810,767.55	200.3450259
161,913.70	40.00974728
162,337.92	40.11457468
1,546,829.31	382.2298468
485,365.56	119.9364415
264,614.82	65.38774627
5,189,579.24	1,282.37
323,708.92	79.99021638
161,881.69	40.00183784
161,107.15	39.81044441
526,333.72	130.0598955
488,319.32	120.6663316
1,377,652.41	340.4253243
52,731.97	13.0303532
61,237.53	15.1321232
9,893.88	2.444831306
1,613,100.69	398.6058619
1,296,552.45	320.3850887
80,755.29	19.95506724
323,550.54	79.9510784
715,259.21	176.744401
162,073.34	40.04919479
161,764.27	39.97282238
109,413.34	27.03662611
809,720.52	200.0862973
74,829.67	18.49081343
321,927.75	79.5500786
327,277.48	80.8720276
323,044.50	79.82603386

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164,166.14	40.56633587
2,114,863.34	522.5941129
973,766.20	240.6228672
501,844.20	124.0084032
67,962.36	16.79386482
161,877.73	40.00085731
161,127.69	39.81551989
485,905.40	120.0698392
481,993.38	119.103159
32,335.27	7.99021986
161,968.44	40.02327376
21,638.65	5.34702712
280,906.70	69.41355711
20,549.16	5.077807141
482,521.30	119.2336091
162,051.38	40.04376819
59,266.72	14.6451261
131,967.02	32.60976157
326,792.39	80.7521584
152,281.26	37.62951857
41,751.67	10.31706183
100,123.25	24.74099401
234,184.01	57.86813008
29,034.70	7.17463172
1,012,352.23	250.1576832
150,740.47	37.2487805
263,757.33	65.17585512
361,550.29	89.34102182
873,166.29	215.7640904
66,553.71	16.44578048
4,997.00	1.234785554
118,786.27	29.35272678
4,724,260.28	1,167.39
49,477.77	12.22622274
1,181,386.00	291.9268385
108,315.77	26.76540934
9,696.50	2.396056866
1,656,527.12	409.3367667
323,391.15	79.9116936
812,550.71	200.7856522
26,674.24	6.591347182
328,481.80	81.16962058
164,114.11	40.55347929
3,586,148.77	886.1566597
164,708.06	40.70024838
154,280.22	38.12347182

1,104.19	0.272850341
651,530.16	160.9966098
176,385.94	43.58591391
279,056.92	68.95646695
60,448.44	14.93713584
163,641.40	40.43667034
162,482.48	40.15029606
16,639.07	4.11160425
158,102.69	39.06802657
240,858.62	59.51746014
561,344.81	138.7113236
7,783.62	1.923375214
486,797.10	120.2901835
16,367.76	4.044561914
11,654.46	2.879879217
102,581.82	25.34852089
1,088.74	0.269033317
224,073.92	55.36987215
3,830,722.53	946.5921527
40,286.66	9.955051078
161,409.22	39.88508774
324,768.61	80.25207014
138.2616881	0.034165207
164,281.15	40.59475531
77,940.62	19.25954585
16,462.06	4.067862768
1,093.79	0.270281107
6,694.63	1.654280049
11,931.60	2.948363037
345.3902643	0.085347793
1,569.94	0.38794017
1,359.08	0.335836892
1,180.00	0.291583564
21,168.14	5.23076143
1,601.69	0.395786525
107,413.39	26.54242679
3,529.64	0.872192271
6,374.45	1.575161506
8,278.97	2.045777482
7,869.88	1.944689254
163,015.09	40.28190716
3,014.13	0.744808002
41,976.60	10.37264262
2,010.47	0.496797332
10,678.73	2.638772214
7,958.68	1.966632473
4,645.01	1.147807884

9,647.96	2.384063941
6,961.22	1.720155128
36,324.53	8.975986665
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2,582.60	0.638173246
946.9881018	0.234005856
9,713.41	2.400234938
4,448.81	1.099323999
1,722.46	0.42562897
1,666.60	0.411824888
44,698.56	11.04525534
130.9926822	0.032368997
4,486.86	1.108726794
17,312.30	4.277963311
16,362.78	4.043330297
287,306.15	70.9948959
2,697,641.12	666.6016381
487,267.04	120.4063067
45,134.11	11.15288102
820,931.48	202.8565859
160,467.57	39.65239894
1,975,328.95	488.1144127
662,872.61	163.799389
459.1048266	0.113447273
4,271.32	1.055465441
1,584.18	0.391458668
1,981,704.78	489.6899165
5,767.70	1.425229285
987.0557045	0.243906776
7,882,628.26	1,947.84
6,402.15	1.582005785
324,171.92	80.10462709
32,904.75	8.130941853
29,536.45	7.298615499
843.6644704	0.208474031
2,345.71	0.579638086
21,989.91	5.433825794
473,400.86	116.9799001
194,126.15	47.96961739
20,011.74	4.945008518
15,723.51	3.885365038
1,178.62	0.291244515
2,437,951.40	602.4309116
4,599,144.58	1,136.47
1,751,288.80	432.7528863
14,149.17	3.496336191
4,854,536.21	1,199.58

643,851.75	159.0992316
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88,395.57	21.84302157
23,293.88	5.756042413
252,458.42	62.38383416
13,999.58	3.459372554
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22,432.70	5.543241744
265,831.88	65.68848732
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649,999.88	160.6184677
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42,860.27	10.59100314
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3,900.36 0.963799455  
3,900.46 0.963823639  
3,900.50 0.963833435  
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3,900.42 0.963815963



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1,300.74	0.321419872
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3,902.40	0.964305142
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3,902.49	0.964325136
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1,505.48	0.372012218
3,902.31	0.96428281
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46,534.42	11.49890548
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64,401.23	15.913891
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316,696.29	78.25735642
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38,007.14	9.391768429
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21,655.05	5.351079842
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80,163.33	19.80878907
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212,321,361.85	52,465.75
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95,094.41	23.49834147
13,019,188.31	3,217.11
3,235,902.82	799.6090003
483,088.66	119.3738072
15,993,886.41	3,952.18
60,026.27	14.83281447
159,371,940.90	39,381.66
323,474.70	79.93233961
115.6107202	0.028568031
5,743.97	1.419366441
9,603.95	2.373187512
4,269,782.52	1,055.09
323,844.15	80.0236324
0.003466014	8.56471E-07
0.00345806	8.54505E-07
626,725.47	154.8672352
1,381,279.60	341.3216229
343,160.67	84.79684723
5,746,645.93	1,420.03
212.2509402	0.05244835
1,295,215.22	320.0546521
821,167.29	202.9148555
6,251,911.79	1,544.88

3,874,736.40	957.4682169
407,016.40	100.5759434
333,873.61	82.50196605
161,526.66	39.91410746
161,960.21	40.02123883
622,965.02	153.9380097
39,900,159.36	9,859.54
1,137,786.97	281.1532821
4,827,016.68	1,192.78
1,940,800.74	479.5823071
1,768,701.27	437.0556029
1,298,891.77	320.9631465
161,621.93	39.93764782
1,734,917.10	428.7073524
646,575.99	159.7724078
161,899.66	40.00627609
142,374.96	35.18161933
15,826,508.16	3,910.82
13,163,433.85	3,252.76
13,896,299.30	3,433.85
644,585.71	159.2805966
2,590,797.61	640.2000316
3,107,944.69	767.9898572
251,486,193.58	62,143.59
48,047,396.04	11,872.77
5,696,197.71	1,407.56
4,870,496.99	1,203.53
485,585.08	119.9906855
324,098.64	80.08651855
323,298.56	79.88881305
2,584,186.01	638.5662693
1,949,507.60	481.7338189
161,820.21	39.9866453
161,808.67	39.98379192
161,723.26	39.96268878
5,037,335.85	1,244.75
4,179,503.60	1,032.78
1,062,920.63	262.6534079
161,966.35	40.02275603
323,500.60	79.93873868
323,483.32	79.93446969
5,090,693.43	1,257.94
18,865.65	4.661803401
648,961.78	160.3619472
607,278.01	150.0616644
2,238,711.72	553.1977126
2,980,875.68	736.5904214

647,731.72	160.0579946
159,102.66	39.31512261
161,263.49	39.84907533
508,804.69	125.7283779
161,908.41	40.0084397
161,865.68	39.99788173
23,346,042.75	5,768.93
323,593.77	79.96176196
807,233.64	199.4717758
31,879,914.05	7,877.70
162,633.64	40.18764735
1,304,017.55	322.2297534
485,384.42	119.9411011
323,371.27	79.9067801
5,178,894.31	1,279.73
2,066,366.42	510.610263
1,569.53	0.387839158
7,429.78	1.835938294
3,426,450.38	846.6943288
6,797.02	1.679581297
1,054.40	0.260547347
9,240,681.46	2,283.42
3,607,564.32	891.4485576
15,708.80	3.88172971
33,214.62	8.207510208
1,863.92	0.460585427
212,319.02	52.46517199
61,253.89	15.13616608
1,559,800.18	385.4350191
653,895.54	161.5811078
331,760.62	81.97983522
8,402,327.35	2,076.26
589,191.78	145.5924588
2,287,999.16	565.3769055
53,415.53	13.19926514
651,716.15	161.0425686
45,282.65	11.18958551
29,109,311.93	7,193.07
5,170,942.96	1,277.77
2,733,098.18	675.3632687
3,925,296.42	969.9618683
2,604,207.77	643.5137534
164,197.42	40.57406505
163,066.03	40.29449383
192,328,615.47	47,525.44
2,589,463.32	639.8703216
644,273.43	159.2034325

2,535,705.32	626.5864302
1,446,650.77	357.4751904
10,999,346.14	2,718.00
667,643.89	164.9783969
5,145,828.38	1,271.56
789,810.67	195.1664664
9,821,785.88	2,427.02
658,117.56	162.6243899
2,635,588.43	651.268084
653,365.76	161.450195
163,458.57	40.3914917
2,591,738.43	640.4325123
656,740.09	162.2840107
465,874,449.98	115,120.08
162,013.76	40.0344718
36.04672779	0.00890734
1.248927371	0.000308617
17.9766736	0.004442133
317.5407356	0.078466025
62,041.92	15.33089168
33,867.07	8.36873544
162,797.24	40.22807465
393,651.02	97.27328462
163,459.64	40.39175632
208,638.85	51.55578297
162,848.80	40.24081565
61,587.28	15.21854722
339,399.75	83.86750527
2,514,248.81	621.2844112
83,155.97	20.54828702
161,972.58	40.02429535
137,559.80	33.99176753
559,002.47	138.132519
1,832,511.97	452.8235702
69,637.29	17.2077493
2,427,880.17	599.9422562
1,297,099.66	320.5203065
634,701.48	156.8381514
1,308,419.79	323.3175713
328,965.46	81.28913495
83,504.94	20.63452057
397,659.15	98.26371497
321,887.08	79.54003061
7,875,119.96	1,945.98
1,782,075.99	440.360568
123,040.32	30.40392601
4,457.07	1.10136706

10,213.58	2.523830173
365,148.69	90.23020732
267,710.92	66.1528086
20,122.00	4.97225515
483,471.26	119.4683505
67,793.85	16.75222588
372,795.41	92.11975242
143,753.42	35.52224372
132,313,534.49	32,695.39
388,138,395.72	95,911.09
3,366,635.57	831.9137668
124,134.43	30.6742856
148,783.20	36.76513008
68,331.04	16.88496685
19,154.65	4.733217695
114.9717687	0.028410143
1,163,730.78	287.564139
491,728.23	121.5086928
16,112,534.65	3,981.49
162,616.68	40.18345561
1,451,714.71	358.7265182
2,430,585.14	600.610668
2,599,486.04	642.3469903
4,533.50	1.120253001
2,608,049.93	644.463172
2,590,460.85	640.1168175
2,602,316.13	643.0463195
5,176,574.39	1,279.16
11,099,816.66	2,742.82
2,577,595.29	636.9376682
2,621,712.71	647.8393189
14,750,060.60	3,644.82
4,573,990.78	1,130.26
19,420,417.59	4,798.89
2,917,274.89	720.8743237
11,692,582.13	2,889.30
6,523,174.53	1,611.91
2,587,080.82	639.2815939
36,143,438.05	8,931.24
2,618,614.12	647.0736408
31,497,694.90	7,783.25
2,639,951.10	652.3461236
1,286,032.51	317.7855531
323,407.08	79.91562962
6,274,161.73	1,550.38
27,363,374.87	6,761.64
31,898,012.66	7,882.17



2,589,844.52	639.9645191
1,718,005.86	424.5284936
2,586,101.53	639.0396042
323,196.13	79.86350309
323,304.70	79.89033164
2,586,625.61	639.1691069
3,069,416.64	758.46937
26,371.59	6.51656262
3,070,986.12	758.8571975
2,582,418.43	638.1294923
51,886,662.08	12,821.47
714,576.79	176.5757696
25,852,517.66	6,388.30
5,175,129.32	1,278.80
1,258,263.53	310.9236899
2,594,552.72	641.1279388
2,586,417.84	639.1177676
2,100,629.60	519.0768777
12,687,021.05	3,135.03
645,953.93	159.6186921
497,278.38	122.8801635
2,584,700.21	638.6933324
513,229.06	126.8216629
2,617,495.09	646.7971235
13,562,428.44	3,351.35
163,425.93	40.38342687
505,333.25	124.8705646
163,543.35	40.41244234
4,283,002.44	1,058.35
491,468.55	121.4445227
650,404.17	160.7183713
165,101.32	40.7974243
1,980,568.59	489.4091581
489,965.28	121.0730586
73,877.56	18.25554303
162,917.48	40.25778527
334,523.94	82.66266516
163,556.09	40.41558994
491,000.34	121.3288269
2,586,492.22	639.1361472
2,077,913.79	513.4636788
5,247,775.07	1,296.75
10,638,535.07	2,628.84
1,895,495.48	468.3871331
416,412.42	102.8977508
163,495.00	40.40049527
1,631,519.73	403.1573065

2,632,336.83	650.4645957
2,616,640.28	646.5858938
22,073,231.94	5,454.41
164,717.51	40.70258235
8,204,625.68	2,027.41
318,917.93	78.80633612
6,137,970.69	1,516.73
2,100,405.36	519.0214668
2,609,664.05	644.8620301
168,072.73	41.53167576
2,638,319.84	651.9430315
2,633,014.54	650.6320622
1,160,433.39	286.7493358
1,977,415.43	488.629995
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19,180,716.77	4,739.66
19,481.69	4.814031255
2,779,805.18	686.90482
131,146.20	32.4069307
2,587,513.56	639.388525
247,978,019.29	61,276.70
1,596,166.09	394.4212293
2,583,436.71	638.3811143
160,672.01	39.70291766
323,194.62	79.86312883
1,059,376.08	261.7775297
649,319.48	160.4503388
2,577,495.20	636.9129346
7,309,442.31	1,806.20
4,583,135.21	1,132.52
2,646,147.96	653.8774002
11,856.87	2.929895789
155,303.21	38.37625954
670,294.89	165.633474
1,299,670.26	321.1555158
2,577,323.90	636.8706045
84,730.93	20.93746933
2,589,494.44	639.8780124
1,199,240.26	296.3387223
642,305.93	158.7172527
39,896,609.52	9,858.67
1,609,275.68	397.6606798
2,704,335.73	668.2559127
2,587,591.21	639.407714
1,109,690.47	274.2104872
3,075,800.72	760.0469109
775,910.71	191.7317111

490,553.34	121.2183709
2,623,432.40	648.2642644
1,963,291.15	485.1398096
2,580,866.97	637.746118
14,387,295.00	3,555.18
6,451,935.29	1,594.31
2,910,525.51	719.2065161
2,279,874.64	563.3692916
2,743,620.28	677.963336
972,735.13	240.3680843
162,837.37	40.23799152
162,559.99	40.16944865
2,653,354.38	655.6581471
1,437,352.57	355.1775545
2,588,624.83	639.6631253
168,980.29	41.75593883
161,509.02	39.90974858
1,955,225.08	483.14664
2,589,345.82	639.8412873
2,602,297.14	643.041628
2,592,255.86	640.5603742
2,102,573.33	519.5571849
2,275,193.48	562.2125539
156,956,293.36	38,784.74
445,197,929.61	110,010.80
17,609.06	4.35129379
32,649,981.87	8,067.99
24,623,255.03	6,084.54
2.059362613	0.00050888
119,347.55	29.49142279
79,701.66	19.6947103
163,891.10	40.49837321
328,913.02	81.27617723
843,915.30	208.5360129
245,594.38	60.68769416
128,560.46	31.76798215
323,969.32	80.05456306
161,682.38	39.95258585
10,590,832.32	2,617.05
694,536.78	171.6237753
159,751.53	39.47546389
6,089,395.41	1,504.72
2,253,173.07	556.77119
130,630.43	32.27948104
1,153,084.59	284.9334072
148,175.06	36.6148539
325,445.83	80.41941529

568,101.85	140.3810238
162,529.52	40.16191941
323,830.62	80.02028845
10,548.11	2.606493711
1,154,015.56	285.1634558
1,649.92	0.407704211
29,125,056.64	7,196.96
13,937,238.73	3,443.97
164,480.94	40.64412567
162,466.36	40.14631209
496,165.24	122.6051002
1,988,720.84	491.4236215
320,716.48	79.25076724
13,330,236.59	3,293.97
543,215.72	134.2315282
161,633.79	39.94057872
17,571,543.91	4,342.02
733,728.52	181.3082658
101,856.18	25.16921053
143.0796905	0.035355761
3,026,147.05	747.777222
568,089.09	140.3778724
6,432,439.38	1,589.49
161,964.84	40.02238304
186,615.51	46.11369627
485,709.31	120.0213842
4.957794217	0.001225098
497,439.86	122.9200671
74,295,851.11	18,358.90
50,090,902.21	12,377.73
283,881.17	70.14856459
256,757.02	63.44604237
159,340.86	39.37398354
323,020.94	79.82021153
968,540.56	239.3315853
161,044.29	39.79491114
21,732,228.39	5,370.15
29,612,390.02	7,317.38
7,483,881.08	1,849.31
160,178.26	39.58091009
322,242.90	79.62795505
2,112,600.30	522.0349034
938,357.49	231.8731854
42,869,053.73	10,593.17
418,387.02	103.385685
24,944.67	6.16396314
458,308.44	113.2504816

1,331,270.48	328.9641009
1,003,840.61	248.0544159
1,156,960.54	285.8911765
41,455.19	10.24380057
161,097.62	39.80808966
111,423.42	27.53332777
164,256.30	40.58861485
3,682,720.74	910.0201131
2,586,181.32	639.059321
39,787.42	9.83168445
14,613.57	3.611091814
6,940.55	1.715047727
946.03216	0.233769638
163,957.00	40.51465609
29,266.37	7.231878294
163,576.14	40.42054437
2,128,317.98	525.9188251
42,418.43	10.48182181
1,816,349.19	448.8296606
481,139.87	118.892252
1,330,423.43	328.7547903
30,832.15	7.618791073
2,587,712.47	639.437677
1,064,251.42	262.9822538
333,449.58	82.39718517
82,863.52	20.4760213
459.6182081	0.113574133
11,836.27	2.924805344
2,776,568.51	686.1050216
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325.3381135	0.080392799
0.295501245	7.30199E-05
2,125,684.76	525.2681447
377,178.22	93.20276852
245,906.89	60.76491544
45,575,373.47	11,261.92
167,082.70	41.28703433
570,108.28	140.8768231
163,244.98	40.33871417
160,269.49	39.60345388
329,478.45	81.41589695
3,726,747.82	920.8994422
328,052.70	81.06358668
164,433.31	40.63235662
41,621.40	10.28487267
3,077,928.53	760.5727047
42,601.55	10.52707136

58,749.94	14.51742712
5,839,854.25	1,443.06
268,958.16	66.46100845
82,554.76	20.39972614
171,342.71	42.3397055
339,051.47	83.78144351
163,813.67	40.47923852
2,563,899.72	633.5534174
166,543.08	41.15369012
7,447,946.77	1,840.43
183,388.19	45.31620753
3,194,877.44	789.4714078
1,900,241.01	469.5597796
1,498,770.20	370.3541812
2,510,945.06	620.468036
4,282,942.80	1,058.34
1,135,284.86	280.5349982
652,220.78	161.1672651
163,079.34	40.29778133
323,873.14	80.03079462
2,369,511.24	585.5189798
1,598,187.34	394.9206912
7,910,943.06	1,954.84
2,856,212.09	705.785378
55,880,875.30	13,808.47
659,484.88	162.9622628
6,190,814.28	1,529.78
5,497,350.93	1,358.42
163,300.75	40.35249347
1,417,044.14	350.1592324
1,627,016.48	402.0445289
21,644,142.40	5,348.38
648,128.54	160.1560509
10,102,810.04	2,496.46
9,788.95	2.418901745
12,196.96	3.013934108
906.4847603	0.223997262
7,541.22	1.863475499
2,451,769.58	605.8454573
20,384.57	5.037137572
2,126,846.17	525.555134
1,528,550.22	377.712985
37,396.08	9.240773168
640,881.26	158.3652083
83,960.97	20.74720725
569,164.43	140.6435943
1,675,723.26	414.0802354

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35,389.37	8.744902785
162,770.26	40.22140695
162,041.76	40.0413906
7,630,090.88	1,885.44
161,284.30	39.85421869
5.086331414	0.00125686
8,499,932.47	2,100.38
460,887.00	113.8876569
277,361.92	68.5376228
59,711.55	14.75504529
146,246.77	36.13836358
28,037.81	6.92829259
91,311.81	22.56364072
10,400.51	2.570022911
1,634.56	0.40390855
435,398.21	107.58924
295,060.53	72.91104598
56,883.34	14.05618054
49,445.85	12.21833578
349,570.46	86.38074071
13,725,575.61	3,391.66
630,883.30	155.8946589
84,139.37	20.79129115
9,315,543.96	2,301.92
59,338.25	14.66280113
179,675.07	44.39867675
21,893,788.77	5,410.07
2,384,849.97	589.309261
18,727,196.44	4,627.59
489,848.80	121.0442754
161,624.07	39.93817644
328,850.24	81.26066481
3,611,843.28	892.5059123
661,099.81	163.3613208
1,178,140.35	291.1248214
761,366.45	188.1377459
326,569.59	80.69710363
647,213.43	159.9299226
50,977.22	12.59674662
163,132.59	40.310941
1,359,748.37	336.0011406
7,769.75	1.919945806
1,374.14	0.339556527
2,498.46	0.617382642

228,917.37	56.56671516
5,257,065.70	1,299.05
1,207,720.08	298.4341316
636,031.40	157.1667817
29,040,008.06	7,175.94
2,588,635.84	639.6658455
299,028.68	73.89159529
650,242.33	160.678378
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2,897,961.05	716.10177
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458,665.35	113.3386772
75,884.46	18.75145883
70,170.43	17.33949153
408,597.09	100.9665404
10,535,117.98	2,603.28
3,003,563.19	742.196628
1,863,099.62	460.3819418
235,895.66	58.29108711
821,327.48	202.9544409
986.7039853	0.243819865
3,412,554.15	843.2604939
614.1520088	0.151760266
40.61318003	0.010035735
1,461.29	0.361091491
666.4102523	0.16467356
931,453.51	230.1671748
731,131.04	180.6664143
133,496.11	32.9876077
11,877,067.14	2,934.89
2,337,820.84	577.6881093
162,960.77	40.26848437
70,964.34	17.5356713
222,112.49	54.88519216
1,163.70	0.287555785
20,724.90	5.121234683
1,722,834.84	425.7217613
161,836.16	39.99058528
182,225,146.16	45,028.81
1,318,153.27	325.7227676
162,172.39	40.07367114
856.3340543	0.211604753
161,336.90	39.86721656
2,600,834.59	642.6802235
6,052,526.11	1,495.61
2,236,812.99	552.7285263
156,816.94	38.75030972



1,646,944.88	406.9689439
6,867,111.84	1,696.90
1,992,832.14	492.4395457
5,878,115.19	1,452.51
162,653.72	40.19260885
163,128.45	40.30991802
7,118,058.63	1,758.91
1,455,532.61	359.6699398
644,950.54	159.3707488
2,952,984.80	729.6984356
27,894.25	6.89281938
89,018.23	21.99688455
20,313.59	5.019596923
2,664,382.31	658.3832068
374,741.36	92.60060617
1,168,501.95	288.7431212
2,810,982.12	694.6088102
881,749.28	217.8849928
1,446,117.17	357.3433343
160,001.35	39.53719571
34.50667309	0.008526785
381.0705236	0.094164577
1,135.28	0.280533421
836.8418549	0.206788126
41,241.66	10.19103705
94,308.21	23.3040668
1,453,789.45	359.2391963
656,596.92	162.2486315
2,542,367.57	628.2327081
164,119.18	40.5547331
4,699.25	1.161208771
14,154,561.99	3,497.67
161,416.23	39.88681815
161,358.70	39.87260257
2,162,813.11	534.4427587
240,248.38	59.36666791
642,145.34	158.6775692
1,558,810.81	385.1905398
4,733,061.74	1,169.57
4,018.48	0.99298807
4,251,669.23	1,050.61
647,058.22	159.8915688
645,060.67	159.3979629
569,844.79	140.8117144
8.571844734	0.002118149
71,754,647.81	17,730.96
4,129,117.47	1,020.33

4,391,595.73	1,085.19
161,582.72	39.9279603
2,520.82	0.622906991
351,910.25	86.95891642
3,073,384.94	759.4499592
522,806.47	129.1882932
322,859.80	79.78039508
485,332.77	119.9283397
14,232,313.82	3,516.88
729,387.27	180.2355187
227.7305764	0.056273451
437,584.82	108.1295651
171,869.98	42.46999617
3,081,720.41	761.5096974
646,214.77	159.6831469
161,623.23	39.93797106
25,597.68	6.325324218
2,592,244.44	640.5575504
813,580.87	201.0402115
1,379,574.50	340.9002829
581,976.82	143.8096048
3,077,336.36	760.4263751
598,121.10	147.7989421
23,308.39	5.759629789
4,154,104.14	1,026.50
104,050,599.87	25,711.46
82,596.79	20.41011215
186,033.70	45.96992862
81,846.24	20.22464662
171,427.86	42.36074716
738,782.10	182.557033
6,876.57	1.699238441
659,952.17	163.0777321
43,093.77	10.64870215
468,907.37	115.8695342
233,192.80	57.62319688
161,419.45	39.88761522
320,471.20	79.190158
662,811.95	163.7843996
87,833.26	21.70407196
67,226,542.06	16,612.04
160,478.96	39.65521485
30,990.81	7.657996837
161,670.15	39.94956419
994.5766409	0.24576524
1,285,251.07	317.592455
2,554,042.16	631.1175632

914,395.26	225.9519885
1,939,585.35	479.2819787
508.4150041	0.125632084
20,575,875.72	5,084.41
2,237,684.68	552.9439263
52,008.95	12.85169181
733,097.68	181.1523831
637,361.98	157.4955747
1,160,160.26	286.6818428
0.060097149	1.48503E-05
3,605.89	0.891035383
60,325.29	14.90670318
910,207.68	224.917216
323,857.58	80.02695161
166,714.59	41.19607167
160,153.75	39.574853
70,825.97	17.50147725
2,584,030.75	638.5279044
61,439.70	15.18208125
205.4039626	0.050756425
83,484.04	20.62935607
507,988.19	125.5266146
44.84943268	0.011082536
83,563.21	20.64891956
83,563.60	20.64901491
142,535.24	35.22122532
235,760.15	58.25760298
33,249.88	8.216223924
82,394.90	20.36022366
567,037.98	140.1181366
83,564.01	20.6491171
81,207.62	20.06683925
186,322.03	46.04117595
40,664.20	10.04834243
40,651.81	10.04528145
1,949.70	0.48178212
304,692.34	75.29111594
1,960,362.42	484.4161047
606,327.07	149.8266816
136,639.81	33.76443289
76,310.53	18.85674174
272,091.59	67.23529646
77,468.71	19.14293476
74,968.51	18.52512164
67,605.68	16.70572848
68,717.55	16.98047717
20,107.59	4.968694902

79,400.97	19.62040705
2,223,002.53	549.3158871
1,288,683.05	318.4405161
4,569,234.12	1,129.08
131,327.61	32.45175946
1,228.52	0.303573349
610.2444721	0.150794693
67,643.31	16.71502508
84,419.75	20.86057451
9,886.68	2.443051504
361,245.10	89.26560923
72,336.58	17.87475754
100,768.03	24.90032336
20,141.83	4.977155655
210,463.34	52.00662504
323,925.45	80.04372182
167,403.31	41.36625813
81,942.14	20.24834343
54,051.11	13.35631991
277,144.94	68.48400682
14,608.06	3.609729005
83,570.62	20.65075097
133,135.82	32.89857824
60,185.35	14.87212447
107,174.65	26.48343358
0.835841119	0.000206541
387,397.78	95.72807704
5,285,510.23	1,306.08
168,128.19	41.54538157
314,112.73	77.61894589
3,005.31	0.742629059
13,190.57	3.259461967
20,156.13	4.980688747
24,607.59	6.080667155
3,127,383.09	772.7931912
654,026.08	161.6133651
75,143.85	18.56844895
37,838.14	9.350007602
69,188.85	17.09693807
167,061.92	41.28189916
646,786.56	159.8244402
165,570.29	40.91330879
72,631.19	17.94755876
80,380.09	19.86235239
653,461.93	161.4739592
65,652.36	16.22305256
2,557,279.29	631.917474

311,158.77	76.88900626
202,886.68	50.13438929
162,124.02	40.06171782
75,533.08	18.66463049
2,523,873.44	623.6627088
324,589.54	80.20782302
1,658,702.43	409.8742967
374,920.50	92.64487215
2,743,027.96	677.8169712
479,345.03	118.4487364
84,717.30	20.93410049
155,891.04	38.52151591
83,562.71	20.64879574
931,595.54	230.2022714
1,302,076.77	321.7501769
2,564,802.24	633.7764363
193,842.50	47.89952377
163,665.92	40.44273022
4,594.46	1.135315162
444,383.19	109.8094787
125,541.95	31.02209035
8,868.32	2.19140864
1,321,068.76	326.4431994
54,863.38	13.55703727
53,053.26	13.10974497
162,496.30	40.15370961
148,032.23	36.57956037
321,749.39	79.50600494
22,936.32	5.667687634
223,012.84	55.10767273
81,329.71	20.09700856
375,763.48	92.85317734
80,188.13	19.81491831
111,476.46	27.54643429
69,621.64	17.20388081
83,748.33	20.69466257
14,094.65	3.482864736
207,173.00	51.1935635
85,163.35	21.04432216
333,157.45	82.32499788
83,562.86	20.64883169
124,322.70	30.72080938
83,563.49	20.64898831
90,724.14	22.41842414
76,713,560.74	18,956.33
331,826.44	81.99609953
628,708.67	155.3572954

316,078.92	78.10480131
1,298,217.25	320.7964683
366,260.04	90.50482723
190,061.71	46.96527247
1,586,991.95	392.1542513
934,293.74	230.8690103
2,604,543.06	643.5966058
165,757.17	40.95948961
83,565.44	20.64946926
79,634.40	19.67808958
246,903.66	61.01122405
162,552.82	40.16767739
121,456.55	30.01256703
127,048.45	31.39435517
161,040.62	39.79400327
258,755.39	63.93985038
29,404,132.25	7,265.92
1,209,390.28	298.8468476
2,654,627.71	655.9727922
480,513.60	118.7374965
383,380.69	94.73543066
391,542.78	96.75232767
821,318.99	202.9523432
1,938,693.14	479.0615069
2,841,149.35	702.0632933
876,781,096.07	216,657.33
5,600,000.86	1,383.79
2,660,309,419.95	657,376.77
24,890,433.45	6,150.56
15,230,241.31	3,763.47
647,845.29	160.0860585
486,159.62	120.1326583
2,125,613.91	525.2506372
2,603,178.65	643.2594543
323,938.77	80.04701341
18,307.81	4.523958686
26,005,023.80	6,425.98
1,618,538.89	399.9496706
111,028.31	27.43569202
85,555.42	21.14120459
1,104,810.75	273.0046813
439,771.81	108.6699812
8,183,077.71	2,022.08
183,184.06	45.26576581
154,174.32	38.09730382
118,354.14	29.24594511
300,116.36	74.16036715

2,310,395.07	570.9110561
611,299.76	151.0554593
93,940.57	23.21322062
375,377.59	92.7578238
4,914,294.50	1,214.35
3,060,121.91	756.1725931
2,628,550.83	649.5290561
30,271.58	7.480269245
1,892,359.86	467.6123043
998,255.59	246.6743277
99,948.47	24.69780481
799,891.34	197.6574559
1,056,964.00	261.1814922
410,948.36	101.5475519
23,255.30	5.746509757
505,529.27	124.9190042
1,012,015.15	250.0743893
1,401,871.50	346.4099925
320,142.33	79.10889296
66,699.79	16.4818775
27,574,309.58	6,813.76
2,591,243.02	640.310094
324,439.03	80.17063068
40,907,505.53	10,108.46
3,778,364.36	933.6541654
182,743.84	45.15698713
7,925.44	1.958419809
42,455,886.53	10,491.08
1,968,254.33	486.3662377
653,660.09	161.5229254
404,512.00	99.95709141
167,187.09	41.31282869
1,425,938.46	352.3570662
323,824.05	80.01866531
504,357.58	124.6294732
5,540,155.41	1,369.00
2,502,513.18	618.384473
167,326.09	41.34717802
2,605,167.07	643.7508037
323,679.99	79.98306772
160,031.13	39.54455328
19,253.72	4.757698561
1,334,912.64	329.8640967
30,422.06	7.517454179
329,046.24	81.30909688
164,219.73	40.57958001
72,058,075.72	17,805.94

3,844,536.57	950.0056745
1,215,286.86	300.3039237
2,572,185.65	635.6009175
1,103,242.70	272.6172087
1,274,465.54	314.9272932
8,825.76	2.180893123
1,085,182.43	268.1544194
2,641,707.95	652.7802501
1,475,947.80	364.7146444
660,861.22	163.3023646
18,380,862.71	4,542.01
162,365.59	40.12141146
436,258.91	107.8019243
1,240.77	0.306599758
951,228.53	235.053689
350,039.13	86.49655158
2,582,461.80	638.1402082
177,265.33	43.8032161
165,958.41	41.00921699
3,329,044.02	822.6246932
161,815.60	39.98550496
274,108.64	67.73372027
2,588,527.08	639.6389727
6,524,947.38	1,612.35
162,049.32	40.04325907
7,065.10	1.745823416
38,554.57	9.527041068
1,016,797.07	251.2560291
2,647,423.08	654.1924905
2,444,778.21	604.1178517
2,580,961.45	637.7694633
94,200.32	23.27740587
2,449,283.43	605.2311167
2,582,743.59	638.2098393
173,152.41	42.78689348
383.3128497	0.094718668
1,213.34	0.299822979
1,604.85	0.396568301
357.3027103	0.088291423
225.5777486	0.055741476
6,113.58	1.510698841
467.3327036	0.115480426
67,850.59	16.76624533
1,694.10	0.418621757
218.6435356	0.054027994
1,093.89	0.270306043
2,240.77	0.553705467



2,586.41	0.639115892
9,801.22	2.421933698
383.6001896	0.094789671
402.0597087	0.099351118
1,344.56	0.332247617
2,151.10	0.531548908
1,201.87	0.296987644
1,976.24	0.488339487
11,707.05	2.892875887
407.3107472	0.100648678
829.1791534	0.204894631
30,630.61	7.568988079
11,855.35	2.929520824
2,601,263.63	642.7862409
1,827,528.96	451.59224
383,433.45	94.74846925
27,767.52	6.861503852
2,594,039.52	641.0011244
1,274,629.18	314.9677287
2,914,909.32	720.28978
2,151,502.79	531.6479184
11,706,986.62	2,892.86
2,161,604.43	534.1440883
2,654,673.82	655.9841871
2,594,488.79	641.1121413
11,853.02	2.928945775
392,964.54	97.10365194
1,298,360.40	320.8318415
2,459,853.59	607.8430603
2,631,961.81	650.371926
2,219,265.07	548.3923405
446,228.55	110.2654752
2,610,324.32	645.025186
496,658.76	122.7270533
303,761.86	75.06119116
2,193,085.68	541.9232729
3,067,547.84	758.007579
2,595,238.53	641.2974076
1,711,647.47	422.9573009
1,379,113.89	340.7864633
199,839.15	49.38132911
144,929.99	35.81298101
1,008,378.13	249.1756618
15,516,621.88	3,834.24
2,593,821.53	640.9472582
2,271,367.25	561.2670719
8,653,065.23	2,138.22

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2,097,819.28	518.3824337
69,186.54	17.09636748
163,474.29	40.39537795
123,513.34	30.52081019
1,314,017.75	324.700858
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2,582,214.42	638.0790798
868,220.13	214.5418668
2,572,554.11	635.6919648
5,796,876.80	1,432.44
972,909.99	240.4112935
110,792.05	27.37731189
1,461,001.51	361.0213345
110,654.22	27.34325316
2,585,693.89	638.9388761
969,035.60	239.4539113
2,593,070.73	640.7617328
1,273,091.51	314.5877622
2,577,766.36	636.97994
206,030.41	50.91122423
2,107,082.91	520.6715253
1,212,371.04	299.5834082
617,706.58	152.6386195
1,299,471.37	321.106369
2,883,811.45	712.6053272
1,649,609.57	407.6274024
340,861.10	84.22861157
2,601,083.33	642.741689
2,558,943.30	632.3286603
1,136,097.15	280.7357191
671,458.23	165.9209424
2,650,997.28	655.0756951
172,987.09	42.74604183
2,564,451.21	633.689694
2,577,553.98	636.927459
13,997,477.05	3,458.85
1,300,481.17	321.3558951
2,505,041.25	619.0091747
2,636,986.93	651.613661
720,201.96	177.9657795
1,537,980.47	380.0432503
2,489,318.68	615.124043
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6,373,816.96	1,575.00
162,252.01	40.09334387

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16,697.53	4.126049361
1,298,670.25	320.9084083
540,422.31	133.5412614
949,019.09	234.5077237
2,522,046.72	623.2113168
2,950,253.14	729.0234269
1,956.47	0.483453073
646,073.32	159.6481938
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12,928,857.98	3,194.79
1,915,501.04	473.3306152
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2,596,683.06	641.6543572
1,299,708.11	321.1648684
2,484,729.42	613.99001
2,625,639.11	648.8095547
903,661.31	223.2995734
2,578,121.31	637.0676486
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314,694.08	77.7625997
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659,953.53	163.0780699
108,214.36	26.74035013
649,664.89	160.5356898
488,355.58	120.6752922
162,143.73	40.06658767
2,179,240.32	538.5020117
62,675.56	15.48746876
163,217.17	40.33184027
162,235.29	40.08921199
2,603,230.90	643.2723649
664,369.27	164.1692228
33.51639794	0.008282082
1,472,891.70	363.959466
664,486.48	164.1981848
2,614,624.33	646.0877427
1,300,196.04	321.285439
1,316,544.66	325.3252694
1,317,511.99	325.564302
161,495.61	39.90643428
984,561.82	243.2905232
2,616,770.97	646.618189
2,069,402.12	511.3604
36,854,529.17	9,106.95
3,130,951.31	773.6749166

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650,884.02	160.8369436
161,951.00	40.01896398
648,352.62	160.2114223
375,873.77	92.88043051
3,242,141.80	801.1506871
1,182.53	0.292209319
723,525.54	178.7870544
2,384,973.82	589.3398656
995,703.36	246.0436587
1,304,550.60	322.3614746
7,330.18	1.811327273
320,985.13	79.31715223
2,363,570.63	584.0510223
2,584,736.59	638.7023206
2,566,850.69	634.2826182
2,600,619.27	642.6270166
84,855.95	20.96836227
326,909.90	80.78119479
2,082,550.74	514.6094961
77,838.32	19.23426674
206.5193311	0.051032038
30,924.59	7.641632319
12,569.15	3.105903949
947.8210304	0.234211677
125,937,065.54	31,119.73
545,521,222.45	134,801.23
2,596,722.29	641.6640532
7,812.85	1.930597831
14,812.46	3.660239425
378,837.32	93.61274108
247,324.97	61.11533039
55.07368095	0.013609003
58.9704725	0.014571921
669,377.19	165.4067068
49,429,979.56	12,214.41
1,755.83	0.433874137
8,693,936.23	2,148.32
182,542,248.99	45,107.17
32,627,800.71	8,062.51
247,900.10	61.25744896
2,014,056.78	497.684268
533,985.64	131.9507263
441,781.20	109.1665114
2,062,447.64	509.6419106
331.3897634	0.081888194
323,461.62	79.92910704

162,618.54	40.18391656
812,180.29	200.6941192
326,453.51	80.66841933
848,641.35	209.7038444
493,183.72	121.8683513
2,136,302.44	527.8918297
139,510.18	34.47371583
487,110.48	120.367621
414,706.71	102.4762597
162,477.60	40.14908876
273,125.06	67.49067155
816,762.82	201.8264891
326,547.55	80.69165603
327,060.48	80.81840567
655,541.77	161.9878992
163,507.69	40.40363084
320,325.24	79.15409018
326,525.92	80.68631196
1,783,293.62	440.6614513
164,127.58	40.55680782
2,270,441.73	561.0383697
161,612.07	39.93521219
320,930.53	79.30366223
99.44355088	0.024573037
64,957.19	16.05127057
159,529.27	39.42054056
666.8650214	0.164785936
341,858.83	84.47515617
414,977.55	102.5431865
739.8908428	0.182831009
45,010.94	11.12244609
351,526.38	86.86405905
38,502.97	9.514290032
187,767.61	46.39838749
935,133.85	231.0766072
283,138.83	69.96512738
322,898.27	79.78990038
162,058.04	40.04541356
1,131,018.46	279.4807474
200,131.06	49.45346198
4,627,321.48	1,143.44
487,298.57	120.4140979
162,625.49	40.18563486
163,838.74	40.48543313
161,302.06	39.85860604
5,519,278.55	1,363.84
327,388.74	80.89951845

2,937,840.89	725.9562936
160,223.81	39.59216682
108,090.16	26.70966076
150,425.08	37.17084725
161,860.51	39.9966038
485,343.19	119.9309134
646,395.27	159.7277508
157,359.85	38.88446561
323,216.43	79.86851855
6,403,066,689.99	1,582,232.24
170,250.34	42.06977612
587,919,433.79	145,278.06
4,044.60	0.999443545
20,228.47	4.998564396
20,226.83	4.998158303
4,044.14	0.999329668
203.6463434	0.050322107
485,560.74	119.9846713
164,428.05	40.63105603
324,561.62	80.20092398
162,086.56	40.05246186
162,748.96	40.21614325
650,045.04	160.6296276
1,806,592.56	446.4187443
323,466.09	79.93021273
3,235,140.93	799.4207331
1,943,138.32	480.1599357
814,923.31	201.3719365
1,375,557.15	339.9075733
648,955.55	160.3604076
648,898.32	160.346267
3,146,814.27	777.5947414
1,274,161.12	314.8520696
1,297,103.13	320.5211631
2,588,186.40	639.5547872
830,884.56	205.3160454
46,111,444.86	11,394.39
43,961.39	10.8630968
323,876.08	80.03152236
972,203.08	240.236613
648,102.54	160.1496254
2,126,314.67	525.4237989
651,066.15	160.8819502
1,533,544.98	378.9472177
4,143,950.87	1,023.99
326,778.38	80.74869581
726,805.99	179.5976703

486,969.27	120.332728
649,698.18	160.5439159
2,592,225.61	640.5528986
162,756.31	40.21795916
1,132,429.32	279.8293788
163,721.99	40.45658468
6,028,474.92	1,489.67
1,976,064.86	488.296261
808,996.97	199.9075048
161,790.40	39.97927915
326,486.59	80.67659281
1,293,723.39	319.686013
167,911.74	41.49189402
656,936.58	162.3325643
1,313,197.59	324.4981909
645,540.48	159.5165263
1,296,342.62	320.3332384
161,844.46	39.99263723
648,349.82	160.2107294
656,271.25	162.1681579
149,417.67	36.92191148
2,106,404.40	520.503862
168,280.99	41.58313805
3,297,893.70	814.9272812
656,686.58	162.2707888
40,249.72	9.945921586
490,913.02	121.3072501
161,806.03	39.98314017
2,105,478.27	520.2750114
3,330,399.32	822.9595943
2,605,192.95	643.7571969
655,563.97	161.9933843
2,635,105.99	651.1488721
1,304,105.67	322.25153
1,309,407.42	323.5616191
2,617,616.52	646.8271293
161,070.94	39.80149582
971,649.23	240.0997529
969,036.74	239.454194
647,491.89	159.9987294
324,200.61	80.11171653
166,388.82	41.11557393
328,278.13	81.11929345
76,206,352.46	18,831.00
3,452,801.36	853.2057974
1,622,059.82	400.8197101
7,454,667.10	1,842.09

162,365.12	40.12129602
163,797.54	40.47525389
9,309,031.84	2,300.31
1,295,654.65	320.163237
665,071.33	164.3427055
1,790,948.26	442.5529541
162,497.38	40.1539762
2,585,987.92	639.0115325
970,947.52	239.9263572
1,300,228.07	321.2933543
167,770.62	41.45702425
646,482.34	159.749265
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647,358.52	159.9657747
646,655.03	159.7919388
9,165.03	2.264727233
161,739.91	39.96680142
161,947.20	40.01802351
2,589,920.04	639.9831796
1,291,624.55	319.167377
649,612.42	160.5227251
1,287,431.66	318.1312906
4,127,660.69	1,019.97
161,741.39	39.96716769
324,307.84	80.138213
5,831,469.83	1,440.99
161,906.23	40.00790002
326,014.02	80.5598187
969,412.71	239.5470965
971,413.86	240.0415917
161,589.32	39.92959117
2,592,011.35	640.4999546
161,887.74	40.0033312
162,195.58	40.07939969
162,958.32	40.2678779
323,679.73	79.98300358
161,655.08	39.94584071
647,947.97	160.1114296
486,652.63	120.2544828
4,674,173.04	1,155.01
161,643.54	39.94298761
1,721,884.01	425.4868048
2,590,453.94	640.1151083
2,429,594.62	600.365906
811,493.13	200.5243199
162,531.95	40.1625196
162,007.52	40.03292903



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2,596,855.98	641.6970874
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1,905,472.08	470.8524043
486,181.51	120.138067
6,616,761.78	1,635.04
162,059.09	40.04567221
645,517.05	159.510738
161,849.86	39.99397074
321,754.54	79.50727799
161,938.09	40.01577448
163,069.82	40.2954298
161,867.39	39.9983021
5,565,367.50	1,375.23
162,076.51	40.0499777
654,987.37	161.8509027
161,761.70	39.97218724
7,152,657.41	1,767.46
5,378,329.02	1,329.01
485,488.36	119.9667861
1,138,734.28	281.3873688
1,294,225.39	319.8100582
161,676.53	39.95113975
2,133,555.95	527.2131566
162,793.97	40.22726708
2,594,017.29	640.9956327
325,653.03	80.47061699
2,428,418.92	600.075384
10,380,229.52	2,565.01
126,939.44	31.36741963
2,568,810.15	634.7668114
161,548.81	39.91957935
63,106.44	15.59394036
321,134.98	79.35418208
4,099,038.38	1,012.89
4,092,223.10	1,011.21
7,178,215.27	1,773.78
200,128.38	49.45279936
68,473.19	16.92009394
6,635,075.77	1,639.56
15,027,942.42	3,713.49
161,765.26	39.97306621
6,849,481.41	1,692.54
2,679,242.32	662.055196
127,945.43	31.61600363
160,566.65	39.67688207

647,847.96	160.086718
161,822.19	39.98713406
112.1407758	0.027710589
115,785.16	28.61113627
3,122,317.85	771.5415433
9,007.52	2.225807752
8,096,703.22	2,000.74
40,178.77	9.928391274
9,274,546.20	2,291.79
2,582,383.33	638.1208186
548,829.55	135.618735
647,325.63	159.9576479
804,270.13	198.7394779
635,037.17	156.9211015
1,133,531.48	280.1017291
640,538.13	158.2804186
1,014,207.28	250.6160775
4,538,768.47	1,121.55
66,349,723.00	16,395.37
1,992,044.51	492.2449191
658,356.86	162.6835236
647,556.74	160.0147554
3,792,757.90	937.2108879
11,490,673.99	2,839.41
2,588,210.86	639.5608323
2,627,556.47	649.2833441
661,273.96	163.4043545
5,204,849.29	1,286.15
643,879.03	159.1059733
2,479,126.76	612.605564
1,304,488.25	322.3460675
6,546,698.68	1,617.72
37,922,325.75	9,370.81
158,748.09	39.22750851
161,083.39	39.80457314
161,717.95	39.96137478
643,116.82	158.9176276
7,995.71	1.975782358
19,318,871.24	4,773.80
80,412.82	19.87044124
15,252.33	3.768933448
1,974,183.24	487.8313025
338,906.81	83.74569718
1,315,071.54	324.9612544
5,172,252.21	1,278.09
322,297.06	79.64133805
723,922.79	178.8852174

10,095,758.57	2,494.72
2,603,479.83	643.3338763
20,862,612.32	5,155.26
655,558.89	161.9921302
3,071,060.53	758.875583
145,549.99	35.96618666
1,578.52	0.390061139
6,137,558.41	1,516.62
16,868,650.97	4,168.33
8,282,926.89	2,046.76
700,506.30	173.0988775
2,287,696.11	565.3020198
5,285,606.74	1,306.10
2,593,250.14	640.8060657
3,002,087.78	741.8320457
440,162.91	108.7666237
2,596,029.74	641.4929189
1,042,671.89	257.649834
1,295,070.92	320.0189946
2,595,649.43	641.3989417
2,432,767.63	601.149974
2,587,875.07	639.4778556
2,432,857.02	601.1720625
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2,595,390.00	641.3348366
2,621,029.87	647.670587
2,593,881.17	640.961997
2,267,763.24	560.3765008
5,811,860.99	1,436.14
557,524.14	137.7672159
2,603,580.61	643.3587793
2,593,908.13	640.9686578
2,588,575.37	639.6509048
2,594,911.49	641.2165948
649,093.71	160.3945483
2,612,594.24	645.5860953
2,592,153.23	640.5350121
2,589,887.13	639.9750477
2,601,472.77	642.8379216
2,283,887.86	564.3609802
2,593,203.48	640.7945351
2,584,739.76	638.7031038
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2,593,633.65	640.9008336
816,191.41	201.6852897
164,103.91	40.5509601

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2,590,705.93	640.1773761
2,589,439.37	639.8644043
980,261.35	242.2278555
2,587,399.06	639.3602306
1,820,311.19	449.8086899
2,584,165.22	638.5611314
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2,429,116.39	600.2477324
652,615.55	161.2648142
2,591,283.30	640.3200475
2,593,563.17	640.8834159
2,590,377.79	640.0962928
2,602,912.90	643.1937846
2,587,890.41	639.4816476
2,622,895.73	648.1316501
2,589,275.29	639.8238574
2,590,701.16	640.1761973
2,587,457.12	639.374579
2,588,237.30	639.5673662
2,591,920.33	640.477461
2,583,706.38	638.4477508
2,587,653.30	639.4230546
97,721,993.19	24,147.63
2,270,768.34	561.1190762
161,363.85	39.87387462
2,593,772.61	640.9351696
2,436,904.16	602.1721324
161,541.08	39.91767115
323,111.30	79.84254182
161,559.83	39.92230397
2,595,443.80	641.3481297
20,115,319.34	4,970.60
807,283.26	199.4840389
2,600,184.97	642.5197
2,262,929.18	559.1819794
2,589,216.57	639.8093479
6,474,357.28	1,599.85
2,586,543.34	639.1487791
2,590,039.70	640.0127469
1,298,546.41	320.8778062
2,589,066.57	639.7722814
164,044.44	40.53626496
2,577,668.68	636.9558026
2,584,113.29	638.5483011
161,656.12	39.94609626

392,828.63	97.07006893
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16,072,240.48	3,971.54
298,735.94	73.81925957
2,589,802.98	639.9542545
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2,591,747.54	640.4347651
2,597,998.88	641.9795034
2,589,770.92	639.9463317
2,591,728.04	640.4299465
2,592,158.63	640.5363475
2,588,902.72	639.7317945
2,585,812.34	638.9681456
2,594,832.17	641.1969922
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2,587,075.82	639.2803563
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2,589,516.92	639.8835664
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162,546.27	40.16605819
2,593,535.04	640.8764653
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161,077.90	39.80321688
2,586,462.26	639.1287426
1,301,685.14	321.6534019
325,894.32	80.53024076
2,595,587.88	641.3837342
2,586,367.18	639.1052478
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2,591,366.13	640.3405164
2,577,599.98	636.9388265
1,664,803.65	411.3819401
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163,845.14	40.48701598
165,685.79	40.9418495
1,007,377.99	248.9285231
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2,590,677.06	640.1702438

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436,927.02	107.967018
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151,586.46	37.45783109
89,489.07	22.11323114
2,103,702.94	519.8363181
5,088,820.35	1,257.47
4,372.95	1.080578425
95,804.20	23.67373431
485,187.59	119.8924647
2,587,147.89	639.2981652
2,267,935.58	560.4190864
15,223,347.07	3,761.77
161,621.12	39.93744874
2,514,538.17	621.3559128
2,043,908.28	505.060736
1,292,904.46	319.4836486
972,114.82	240.2148024
4,534,776.04	1,120.57
2,600,619.29	642.6270216
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2,099,762.24	518.8625503
2,594,558.50	641.129369
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84,350.87	20.84355368
1,132,957.05	279.9597835
557,073.84	137.6559444
484,984.68	119.8423251
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2,591,813.33	640.4510221
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164,657.88	40.6878473
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25,286,935.70	6,248.54
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2,446,079.57	604.4394255

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1,961.56	0.484713084
9,687,356.91	2,393.80
331,757.90	81.97916195
323,956.96	80.05150921
1,465,919.14	362.2365074
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495,544.26	122.4516529
325,893.49	80.53003506
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161,674.37	39.95060781
889,223.90	219.7320117
482,388.38	119.2007639
164,057.56	40.5395057
524.005929	0.129484685
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2,592,433.64	640.6043035
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161,833.21	39.98985742
161,667.01	39.94878889
328,304.79	81.12588076
1,131,894.11	279.6971251
161,811.91	39.98459415
485,958.32	120.0829157
161,917.78	40.01075476
161,910.78	40.00902501
970,714.78	239.8688454
144,779.79	35.77586448
1,864,245,659.35	460,665.13
159,069.79	39.30700236
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161,025.74	39.79032744
629,902.16	155.6522134
322,115.91	79.59657579
154,090.75	38.07665339
38,095.90	9.413701769
146,502.82	36.20163504
161,095.48	39.80755894
97,385.02	24.0643635
371,366.11	91.76656485
20,225.93	4.997935038
4,044.40	0.999392966
107,072.22	26.45812199
34.18924812	0.008448347
57,738.45	14.26748217

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11,606,704.48	2,868.08
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520,438.45	128.6031414
2,588,271.05	639.5757052
161,819.26	39.98640926
266,007.61	65.73191317
646,475.17	159.7474931
623,012.99	153.9498631
2,590,664.27	640.1670831
22,800,272.21	5,634.07
102,523.22	25.33403958
2,260.32	0.558536946
2,592,513.11	640.6239422
2,597,816.94	641.9345451
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279,834.52	69.14861517
7,917.32	1.956412291
31,875,062.86	7,876.50
21,221.08	5.243842892
81,217.61	20.06930783
58.0330637	0.014340282
105,929.08	26.17564564
55,179,588.11	13,635.17
83,505.40	20.63463393
56,546.81	13.97301993
525,393.07	129.8274548
355,609.84	87.87310601
252,269.72	62.33720543
4,900,808.44	1,211.02
81,719.37	20.19329532
2,766,967.35	683.732523
649,308.63	160.4476563
309,451.18	76.46705086
597,981.66	147.764485
13,620,872.28	3,365.79
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647,760.62	160.0651349
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1,264,575.37	312.483378
5,898,673.24	1,457.59
323,784.39	80.0088649
5,042,805.09	1,246.10



323,274.39	79.88284228
2,586,771.60	639.2051822
163,188.22	40.32468666
3,882,186.46	959.3091662
17,771,383.72	4,391.40
646,462.92	159.7444652
583,252.32	144.1247874
4,389,533.56	1,084.68
1,299,368.45	321.0809376
496,283.12	122.6342285
648,527.57	160.2546535
3,647,996.95	901.4396778
3,380,427.34	835.3217865
649,198.77	160.42051
23,154,649.56	5,721.64
65,080.04	16.08162776
812,909.87	200.8744024
162,371.58	40.12289042
96,507,985.26	23,847.64
2,587,762.75	639.4501024
2,424,361.00	599.07265
3,939,733.73	973.5294067
1,385,572.37	342.3823902
162,361.95	40.1205104
161,926.82	40.01298758
2,591,551.89	640.386418
696,959.82	172.2225212
643,986.94	159.1326389
620,424.32	153.3101879
2,221,497.63	548.9440181
1,266,393.64	312.9326825
1,574,039.11	388.9535355
161,353.26	39.8712578
161,565.59	39.92372596
161,517.92	39.91194838
789,816.35	195.16787
161,649.11	39.94436617
109,022.32	26.94000222
3,190,315.84	788.3442129
646,371.39	159.7218498
323,665.86	79.97957577
240,701.98	59.47875534
809,094.33	199.9315638
10,521,313.93	2,599.87
2,596,561.89	641.6244154
2,160,859.69	533.9600575
65,282.89	16.13175253

2,592,630.29	640.6528976
15,652.25	3.867755037
258,382.72	63.84776042
52,572.42	12.9909276
185,298.86	45.78834628
2,588,628.54	639.6640435
2,566,485.52	634.1923824
162,657.13	40.19345226
162,866.64	40.24522336
11,196.01	2.76659378
162,873.47	40.24691207
2,134,906.85	527.5469721
792,437.77	195.8156372
2,579,496.77	637.4075322
328,802.18	81.24878738
4,842,379.99	1,196.58
1,136,436.99	280.8196959
144,150.43	35.62034623
2,579,795.62	637.4813812
161,259.51	39.84809249
2,557,438.27	631.956759
2,588,057.70	639.5229862
2,588,318.51	639.5874316
2,605,061.58	643.7247358
2,509,693.18	620.1586899
2,427,160.93	599.7645267
2,584,349.19	638.6065931
2,563,160.52	633.3707592
2,595,701.23	641.4117433
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20,775,921.07	5,133.84
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2,597,336.95	641.8159378
49,219.25	12.16234141
1,874,162.14	463.1155494
2,587,901.02	639.4842683
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1,293,194.63	319.5553518
161,996.51	40.03020944
2,598,965.97	642.2184782

323,376.26	79.90801465
2,597,788.77	641.9275857
2,583,419.91	638.3769624
647,810.14	160.0773713
19,371,331.47	4,786.76
2,593,553.66	640.881066
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2,587,309.16	639.3380175
2,587,108.19	639.2883552
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2,585,340.62	638.8515792
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2,581,296.17	637.852175
2,587,743.16	639.44526
2,573,429.23	635.908211
2,588,911.43	639.7339465
2,582,006.85	638.0277873
2,591,613.34	640.4016029
2,588,477.18	639.6266407
96,877.55	23.93896411
2,580,771.22	637.7224562
15,276,291.65	3,774.85
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656,726.87	162.2807436
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2,264,785.29	559.6406337
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485,589.47	119.9917705
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161,479.03	39.90233649
444,162.70	109.754993
969,803.09	239.6435627
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321,778.62	79.51322983
324,124.32	80.09286402
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324,543.44	80.1964297
177,584.33	43.88204348
2,274,067.63	561.9343485
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1,732.72	0.428164003
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1,152,047,358.67	284,677.10
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1,294,788.40	319.9491817
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162,402.60	40.13055674
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8,576,034.88	2,119.18
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647,724.25	160.056147
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153,504.04	37.93167516
2,294,817.17	567.0616718
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313,936.85	77.57548532
31,020,674.43	7,665.38
39,635,382.98	9,794.12
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4,478.44	1.106647007
22,946.41	5.670181819
97,925.04	24.19780523
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8,574,725.42	2,118.86
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56,315.70	13.91591295
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4,416,155.66	1,091.26
186,623.76	46.11573552
249,745.29	61.71340506
2,586,879.80	639.2319208
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2,592,194.07	640.545105
1,583,738.69	391.350352
2,592,407.34	640.5978044
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2,593,146.68	640.7804984
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318,995.99	78.82562529
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161,164.23	39.82454785
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20,766.68	5.131557408
24,926.92	6.159577003
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162,416.48	40.13398522
162,276.69	40.09944314
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323,808.43	80.01480456
1,192,542.50	294.683669
324,870.25	80.27718677

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161,102.85	39.80938069
165,893.11	40.99308001
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487,573.69	120.4820815
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5.991059684	0.001480423
1,460,820.49	360.976605
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27,672,129.44	6,837.93
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544,150.69	134.462564
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2,593,716.10	640.921207

2,589,244.51	639.8162531
2,256,707.43	557.6445492
2,598,549.97	642.1156821
2,590,762.66	640.1913946
2,588,122.01	639.5388765
104.5071646	0.025824283
2,588,923.98	639.7370468
2,597,499.38	641.8560751
2,589,222.20	639.8107399
2,590,686.77	640.1726417
2,595,120.83	641.2683219
2,594,539.87	641.124765
2,607,037.42	644.2129756
916.7936821	0.226544653
2,231,828.14	551.4967435
1,054,388.86	260.5451604
2,588,201.63	639.55855
640,241.63	158.2071513
459,708.62	113.5964744
2,593,642.02	640.902901
1,396,751.72	345.1448658
38,333,631.60	9,472.45
247,524,837.94	61,164.72
161,923.52	40.01217436
237,679,252.82	58,731.82
323,623.51	79.96911194
8,993,119.44	2,222.25
483,548.93	119.4875428
652,687.52	161.2825994
322,271.58	79.63504089
158,478.06	39.16078078
471,897.19	116.6083352
644,004.85	159.1370653
294,532.30	72.78051644
322,922.48	79.79588285
605,227.94	149.5550806
7,467,516.95	1,845.26
1,589,301.72	392.7250069
2,040,059.55	504.1096931
17,768.99	4.390812253
1,291,064.14	319.028896
1,301,278.26	321.5528615
2,588,317.21	639.587111
314,951.82	77.82628866
84,905.23	20.9805395
323,681.54	79.98345074
989,989.64	244.6317676

1,360,430.39	336.1696716
2,608,387.68	644.5466315
2,385,318.19	589.4249622
164,043.74	40.53609132
1,942,684.62	480.0478244
1,314,840.42	324.9041447
6,153.60	1.520588062
162,381.89	40.12543844
1,829,301.94	452.030354
132,394.79	32.71546556
807,239.68	199.4732697
324,446.77	80.1725433
1,291,927.11	319.2421417
161,419.17	39.88754606
36,814,785.97	9,097.13
8,537,237.00	2,109.60
161,343.56	39.86886236
1,853,054.21	457.8996686
2,410,809.61	595.7240276
323,218.05	79.86891975
64,735,551.97	15,996.50
3,407,789.46	842.0831138
442,786.36	109.4148913
1,293,414.18	319.6096039
1,453,461.39	359.1581311
161,694.91	39.95568206
2,184,294.78	539.7509945
2,058,007.52	508.5447336
2,676,466.59	661.3692988
162,916.84	40.25762755
8,839,970.93	2,184.40
3,563,755.90	880.6232606
1,444,757.63	357.007386
869,088.15	214.7563587
1,268,640.50	313.4878942
161,848.33	39.99359276
97,324.15	24.0493215
323,836.20	80.02166697
162,384.77	40.12615013
185,281.16	45.78397134
165,358.80	40.8610501
150,313.17	37.1431932
23,541.00	5.817106908
119,222.33	29.46047865
368,281.79	91.00441196
2,686,854.58	663.9362272
20,751.93	5.12791357

161,301.90	39.8585667
210,107.17	51.9186136
1,132,070.62	279.740743
161,317.05	39.86231215
1,932,601.49	477.5562276
161,753.53	39.97016835
366,036.58	90.44960915
161,379.32	39.87769791
162,616.80	40.18348549
162,094.00	40.05430062
321,770.29	79.51117022
327,647.39	80.96343248
326,670.82	80.72211681
34,849.91	8.611601314
922,216.51	227.8846635
1,003,317.84	247.9252382
482,218.96	119.1589009
319,202.78	78.87672473
2,440,218.76	602.9911871
162,084.21	40.05188049
658,743.14	162.7789738
162,079.46	40.05070689
1,597,605.55	394.776928
484,474.55	119.7162688
323,639.13	79.97297026
1,124,121.53	277.7764794
683,982.33	169.0157134
647,705.36	160.0514811
162,085.76	40.05226325
488,565.40	120.7271389
263,603,756.57	65,137.91
238,778,687.49	59,003.50
1,129,052.96	278.9950628
7,787,421.29	1,924.31
2,346.40	0.579809094
5,563,591.48	1,374.79
233,231.76	57.63282222
22,569,416.27	5,577.02
13,491,149.06	3,333.74
10,927,252.72	2,700.18
3,283,033.04	811.2551307
1,021,908.34	252.5190508
16,531,568.71	4,085.04
160,751.20	39.72248679
39,191,782.32	9,684.50
324,436,256.51	80,169.94
58,182,368.04	14,377.18

84,844,448.49	20,965.52
653,940.94	161.5923248
1,539,061,941.63	380,310.49
646,049.84	159.6423923
486,157.16	120.132051
1,667,334.86	412.0074166
3,066,636.29	757.7823309
435,756.66	107.6778162
1,459,228.36	360.5831817
81,694.98	20.18726804
2,586,774.60	639.2059253
161,620.13	39.93720317
1,189,658.30	293.9709676
6,340,920.71	1,566.88
1,291,312.22	319.0901985
7,128.57	1.761508168
5,168,650.60	1,277.20
1,370,247.91	338.5956335
21,299,753.68	5,263.28
150,332,045.73	37,147.86
2,368,304.53	585.2207953
1,285,765.66	317.7196146
8,938,552.39	2,208.76
721,081.11	178.1830238
239,863.57	59.27157967
1,271,918.79	314.2979782
0.456306872	0.000112756
6,919,933.57	1,709.95
317,179.71	78.37681255
1,272,774.90	314.5095281
345,439.98	85.36007705
323,430.19	79.9213414
848,938.24	209.7772073
5,543,227.77	1,369.76
648,232.16	160.181655
1,256,639.69	310.5224304
2,451,853.83	605.8662754
1,295,597.92	320.1492175
3,189,456.35	788.1318281
3,884,910.71	959.9823423
1,730,158.51	427.5314796
1,618,581.64	399.9602329
1,456,000.28	359.7855058
2,510,717.93	620.4119116
4,083.97	1.00917214
1,256,718.32	310.5418596
216,631.11	53.53071244



198,343.51	49.01174832
72.24469044	0.017852052
1,740,453.49	430.0754224
25,065,391.64	6,193.79
28,960,961.45	7,156.41
6,517.66	1.610548998
161,073.83	39.80220979
305,520.89	75.49585635
19,013,964.38	4,698.45
24,948,720.01	6,164.96
60,834,031.88	15,032.42
13,939,268.31	3,444.47
4,044.60	0.99944165
45,040,283.42	11,129.70
20,225.84	4.997913108
4,044.23	0.99935193
279,114.15	68.97060964
2,396,031.66	592.0723171
1,300,214.00	321.2898773
1,951,332.39	482.1847344
1,847.01	0.456406435
19,228.45	4.751453629
1,289,837.93	318.7258928
4,494,611.34	1,110.64
15,424.03	3.811361582
697,173.61	172.2753497
647,127.02	159.9085701
58,930.58	14.56206283
1,291,969.14	319.2525261
322,679.67	79.73588185
45,750.48	11.30519058
160,737.86	39.71918965
4,991.16	1.233341571
1,322,295.74	326.7463939
161,805.79	39.9830806
1,237,355.14	305.757114
484,656.22	119.7611605
12,980,098.08	3,207.45
8,400,157.13	2,075.72
5,212,949.31	1,288.15
78,638.79	19.43206941
323,574.07	79.95689445
1,284,355.97	317.3712727
969,123.04	239.4755196
485,051.16	119.8587528
6,529,353.02	1,613.44
3,671,430.05	907.2301228

335,535.67	82.91266939
61.45087977	0.015184843
35,871.93	8.864147403
4,211,709.12	1,040.74
167,222.18	41.32149944
959,792.29	237.1698409
931,412.70	230.1570906
351,868.52	86.94860555
849,093.32	209.8155294
1,293,044.01	319.5181325
345,852.65	85.46205121
217,044.70	53.63291393
323,421.39	79.91916645
896,202.86	221.4565489
4,885,969.26	1,207.35
1,099,788.34	271.7636165
1,776,328.20	438.9402584
891,663.92	220.3349529
447,495.61	110.5785727
10,146,535.91	2,507.26
1,614,707.44	399.0028982
1,803,187.98	445.5774535
472,805.67	116.8328252
25,085.95	6.198872553
110,696.52	27.35370506
223,133.34	55.13744862
148,627.47	36.72664652
322,324.78	79.6481872
356,538.42	88.10256131
1,295,525.95	320.131433
1,271,211.28	314.1231491
3,970,070.75	981.0258471
12,940,090.56	3,197.57
2,604,817.91	643.6645228
3,877,407.11	958.128162
633,525.25	156.5474977
9,297,985.20	2,297.58
2,448,656.85	605.0762851
33,159,744.44	8,193.95
2,245.37	0.554842745
1,296,016.94	320.2527607
81,031.14	20.02323114
1,292,458.82	319.3735291
3,097,297.39	765.358853
163,499.24	40.40154148
1,295,035.89	320.0103382
163,369.09	40.36938095

26,765,353.54	6,613.86
2,589,732.06	639.9367296
216,684.98	53.5440247
1,290,943.85	318.9991734
1,779,169.66	439.6423966
278,510,507.27	68,821.45
350,900,431.30	86,709.38
1,706,575.11	421.7038932
1,440,668.01	355.9968181
1,307,740.28	323.1496599
1,127,794.32	278.6840458
1,608,524.66	397.4750992
5,190,139.06	1,282.51
2,587,473.01	639.3785059
15,578.60	3.849556763
162,902.38	40.25405369
163,288.24	40.34940356
162,801.51	40.22912844
160,855.90	39.74835814
1,304,620.22	322.3786779
489,080.18	120.8543449
2,519,839.54	622.6659104
327,791.50	80.99904484
650,759.61	160.8062016
2,590,365.55	640.0932665
2,436,445.39	602.0587684
329,315.07	81.37552684
1,946,780.00	481.0598138
494,446.25	122.1803292
2,263,800.15	559.3971987
2,568,205.76	634.6174632
2,545,054.00	628.8965394
317,312.58	78.40964496
11,978,978.72	2,960.07
152,067.24	37.57663352
1,010,427.42	249.682053
326,579.94	80.69965986
2,530,509.13	625.3024242
2,586,922.50	639.2424716
2,255,334.56	557.3053072
7,833,675.40	1,935.74
2,585,134.91	638.8007472
161,436.61	39.8918558
522,850.46	129.1991627
161,367.49	39.8747762
321,098.62	79.34519616
520,004.28	128.495855

321,135.25	79.3542473
2,569,328.76	634.8949637
876,068.59	216.4812621
2,597,025.07	641.7388715
2,590,082.83	640.0234058
2,985.88	0.737827418
6,338.86	1.566367003
4,859,124.06	1,200.72
2,571,381.02	635.4020871
99,578.08	24.60627875
2,597,264.32	641.7979914
2,589,057.53	639.7700477
24,224.18	5.985925982
2,512,575.29	620.8708758
1,642,307.92	405.8231259
2,531,780.73	625.6166433
2,580,484.56	637.651621
2,590,175.87	640.0463954
8,862.96	2.190084287
2,533,808.51	626.1177173
2,592,263.53	640.5622679
2,572,184.36	635.6005979
2,591,953.79	640.4857306
2,569,704.25	634.9877496
2,534,963.90	626.4032223
2,588,635.48	639.6657588
2,596,723.65	641.6643887
2,470,667.82	610.5153131
2,594,209.55	641.0431413
2,576,232.84	636.6009987
2,592,519.51	640.6255219
437.6028437	0.108134018
2,590,674.98	640.1697295
2,590,825.55	640.2069362
3,159.49	0.780727687
2,594,857.04	641.2031387
2,595,421.96	641.3427336
2,590,775.31	640.1945219
2,591,280.18	640.3192765
359,037.85	88.72018537
2,588,996.44	639.7549532
2,588,766.62	639.6981642
2,596,646.84	641.6454083
2,594,459.96	641.1050185
2,609,461.30	644.8119306
2,590,564.33	640.1423881
2,592,474.91	640.6145026

2,590,717.13	640.1801446
2,592,567.94	640.6374896
2,619,162.18	647.2090704
2,589,928.69	639.985316
2,586,597.94	639.1622695
2,605,632.85	643.8658981
3,405.07	0.841410547
2,588,793.66	639.7048441
2,589,071.32	639.7734558
2,595,229.24	641.2951122
2,585,314.73	638.8451833
2,596,079.60	641.5052411
2,585,891.80	638.9877785
2,588,270.50	639.5755695
2,590,770.69	640.1933799
2,513,901.75	621.1986502
1.784310546	0.000440913
2,595,626.90	641.3933761
1,889,605.27	466.931632
479,893.53	118.5842734
5,018.95	1.240210656
42.38674239	0.010473992
5,520.22	1.364075889
621.7634018	0.153641083
1,151.52	0.284547916
1,510,048.31	373.1410647
3,634.07	0.897997624
1,203.43	0.29737476
161,197.67	39.83281123
5,136.42	1.269237758
13,182.26	3.257406265
27,697.12	6.844108543
752,570.68	185.9642658
5,134.05	1.268651147
6,873.51	1.698480826
203,065.03	50.17846285
26,554.96	6.561872888
13,210.07	3.264278738
164,054.19	40.53867393
648,922.84	160.3523265
157,580.45	38.93897639
1,279.06	0.31606148
161,764.63	39.97291003
659,922.25	163.0703401
476,770.29	117.8125055
163,078.50	40.29757401
32,168.23	7.948942484

497,949.08	123.0458977
161,050.47	39.79643841
653,540.09	161.4932724
160,311.72	39.61388792
160,547.41	39.67212883
162,132.12	40.0637191
161,798.99	39.98140165
1,165,748.03	288.0626109
162,289.16	40.10252361
161,686.66	39.95364493
297,332.01	73.4723399
484,983.20	119.841959
323,411.91	79.91682428
631.7879505	0.156118203
3,571,129.66	882.4453564
50,488,488.34	12,475.98
15,418,962.19	3,810.11
520,870,067.49	128,709.80
2,802,349.20	692.4755671
162,781.68	40.22422865
1,634.68	0.403939221
702,292.95	173.5403667
162,709.41	40.20637059
2,970,604.67	734.0524008
1,297,485.57	320.6156669
125,017.13	30.89240524
24,086.16	5.951819174
859,047.12	212.2751665
222,235.79	54.91566015
385,224.51	95.19105039
3,867.79	0.955750905
186.2180682	0.046015487
41.58011415	0.01027467
4,022,464.42	993.9726043
908,647.95	224.5317971
2,393,245.77	591.3839081
2,894,940.49	715.3553752
190,073.32	46.96814087
647,734.75	160.0587428
1,221,900.49	301.938186
6,819,519.38	1,685.14
1,609,985.78	397.8361512
133,640.57	33.02330283
843,324.30	208.3899718
106,420.42	26.29705889
962,309.31	237.7918088
6,336,393.24	1,565.76

161,091.24	39.80651324
327,724.48	80.98248386
163,039.68	40.28798284
93,183.44	23.02612881
1,579,735.74	390.3612029
646,236.27	159.6884589
964,067.71	238.2263202
160,939.34	39.76897634
161,999.60	40.0309727
11,373,187.86	2,810.38
1,184,156.15	292.6113572
162,282.85	40.10096528
113,413.09	28.02498585
163,712.89	40.45433492
318,216.93	78.63311475
3,721,014.02	919.4825895
1,742,222.36	430.5125218
160,906.39	39.76083421
160,300.42	39.61109532
160,124.31	39.56757846
2,771.99	0.684973234
19,057,237.46	4,709.15
211,987,239.88	52,383.19
8,510.09	2.102888719
1,250.85	0.309092185
144,867.46	35.7975282
40,160.56	9.923891362
2,726,792.22	673.805031
158,511.63	39.16907738
468,134.44	115.6785385
2,046,768.63	505.7675431
2,132.24	0.526886988
76,021.56	18.78533708
328,759.73	81.23829882
14,390,665.79	3,556.01
108,598,696.88	26,835.32
1,940,220.69	479.4389739
340,970,598.08	84,255.67
209,290.98	51.71692671
4,351,972.80	1,075.40
320,591.58	79.21990555
5,550,469.73	1,371.55
190,440.24	47.05880864
633,747.43	156.6023999
323,914.77	80.04108365
164,873.84	40.741212
239,717.82	59.23556428

349,490.37	86.3609522
656,526.05	162.2311191
3,965,059.53	979.7875473
8,871,945.30	2,192.31
213,834.69	52.83970332
10,484,273.09	2,590.72
7,300,482.52	1,803.99
82,806,025.73	20,461.81
1,135,282.27	280.5343582
160,215.95	39.59022331
395.2714531	0.097673703
105,997,679.34	26,192.60
5,965,184.51	1,474.03
9,605.86	2.373659913
1,607,998.23	397.3450162
156,811.84	38.74905055
12,860,305.83	3,177.85
16,470.29	4.069898241
1,461,092.83	361.0439014
2,435,055.06	601.715209
126,808.65	31.33509893
647,499.83	160.000693
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7,517,703.45	1,857.66
1,296,064.53	320.2645197
265,922.66	65.7109202
1,615,323.21	399.1550582
485,066.68	119.862586
1,155,109.93	285.4338801
123,756.93	30.58100456
161,618.12	39.93670761
99,920.59	24.6909158
3,871,236.53	956.6033801
7,131,450.51	1,762.22
323,644.13	79.97420542
56,449.12	13.94888039
162,010.51	40.03366886
324,102.31	80.08742582
1,132,445.41	279.8333557
104,927.27	25.92809298
162,331.83	40.11306821
28,047.35	6.930649998
160,897.26	39.75857778
47,515.52	11.74133946
323,732.60	79.99606807
96,145.76	23.75813388



7,779,715.82	1,922.41
2,828,144.53	698.8497326
1,707,208.38	421.8603787
109,875.91	27.15092897
160,148.75	39.57361675
3,000.34	0.741399001
160,956.27	39.77316104
262,687.44	64.91148104
160,737.15	39.71901434
160,879.33	39.75414836
161,430.06	39.89023614
557,142.56	137.6729243
162,794.20	40.22732307
321,926.41	79.54974951
321,938.96	79.55284964
482,133.19	119.137707
321,560.56	79.45934516
1,295,199.22	320.0506978
161,404.47	39.88391424
161,306.99	39.85982484
161,723.66	39.96278766
968,311.63	239.2750152
162,779.28	40.22363615
161,530.72	39.91511004
161,988.15	40.02814402
161,723.66	39.96278714
1,294,756.64	319.9413339
806,386.16	199.2623607
646,781.52	159.8231945
19,309,493.53	4,771.48
4,217,007.47	1,042.05
161,045.79	39.79528145
161,310.29	39.86063999
324,230.64	80.11913716
666,317.00	164.6505154
161,626.60	39.93880191
161,770.90	39.97446024
4,195,181.03	1,036.65
322,152.05	79.60550545
1,929,028.06	476.6732142
650,038.64	160.6280473
163,116.74	40.30702444
2,284,489.10	564.5095501
1,887,545.32	466.422606
162,275.06	40.09904147
652,418.18	161.2160437
324,595.45	80.20928279

162,245.67	40.09177805
650,262.45	160.6833514
649,408.16	160.4722512
161,919.89	40.0112756
161,695.29	39.95577693
475,924,790.10	117,603.58
323,556.88	79.95264611
37,368.66	9.233996909
1,858,622.20	459.2755476
666,499.71	164.6956644
64.10982725	0.015841883
147.3890231	0.036420621
681.6915373	0.168449647
17,813.78	4.401880932
139.2942772	0.034420366
34,985.72	8.645159775
154,099.76	38.07887923
40,913.26	10.10988753
244,371.62	60.38554165
210,390.80	51.98869932
1,451,714.23	358.7263977
200,093.76	49.44424483
241,768.44	59.74228195
108,998.27	26.93405841
323,802.41	80.01331707
433,283.05	107.0665725
1,790,818.51	442.5208918
646,265.36	159.6956491
37,201.02	9.192573461
1,292,613.22	319.4116825
5,651,297.44	1,396.47
1,288,765.62	318.4609194
23,506,993.10	5,808.70
2,059,967.79	509.0291266
7,204.66	1.780310149
6,596,901.80	1,630.13
650,969.37	160.8580356
143,449.31	35.44709643
2,238,306.72	553.0976361
1,776,853.81	439.0701376
533,796.00	131.9038634
56.49701851	0.013960717
1,949,802.58	481.8067112
652,125.74	161.1437789
1,330,417.29	328.7532717
648,822.12	160.3274386
475,178.61	117.4191927

93,895.53	23.20209093
7,314,337.63	1,807.41
0.764192653	0.000188836
329,536.80	81.43031588
94,876.89	23.44459004
565,441.34	139.7235968
82,443.18	20.37215234
10,463,793.05	2,585.66
1,216,277.81	300.5487919
633,409.81	156.5189716
457,093.29	112.9502122
253,503.96	62.6421935
553,940.83	136.8817591
958,930.65	236.9569249
620,552.49	153.3418605
346,590,125.03	85,644.29
11,893,794.65	2,939.02
2,600,047.75	642.4857909
25.22468837	0.006233156
228,644.18	56.49920699
163,349.44	40.36452504
1,948,898.40	481.5832815
1,305,039.56	322.4822973
652,741.30	161.2958869
1,288,867.34	318.4860562
5,254,358.98	1,298.38
1,300,931.76	321.4672377
1,736,141.73	429.0099651
644,441.73	159.2450187
653,018.69	161.3644333
996,502.37	246.2410979
1,288,681.27	318.4400777
1,444,682.05	356.98871
98,642.09	24.37499119
5,916,710.42	1,462.05
1,870,247.51	462.1482239
1,535,916.32	379.5331885
1,335,395.51	329.9834168
1,602,352.67	395.9499688
1,303,280.41	322.0476033
160,842.70	39.74509581
20,495,309.65	5,064.50
1,936,557.96	478.5338932
4,783,809.52	1,182.11
144,413.04	35.68523945
27,064.14	6.687694862
159,560.29	39.42820709

32,551.28	8.043595515
3,434,411.33	848.6615206
323,538.18	79.9480259
110,963.34	27.41963818
170,312.02	42.08501673
161,072.32	39.80183736
281,384.79	69.531695
50,411.88	12.45704619
300,558.22	74.26955257
161,476.47	39.90170566
137,847.77	34.06292491
131,255.68	32.43398548
22,692,241.77	5,607.38
824,513.53	203.7417302
491,129.14	121.3606538
4,900,407.89	1,210.92
1,286,038.35	317.7869963
7,268,406.46	1,796.06
2,585,954.46	639.0032645
4,548,524.39	1,123.96
338,632.94	83.67802075
24,765,517.42	6,119.69
1,625,610.07	401.6969967
1,273,898.02	314.787055
2,552,190.89	630.660104
44,848,439.28	11,082.29
809,198.95	199.9574153
1,295,623.18	320.1554606
3,229,615.12	798.0552768
323,624.81	79.9694329
3,018,684.70	745.9332341
1,298,270.25	320.8095642
2,750,446.88	679.6502255
495,220,236.71	122,371.59
421,344.76	104.1165568
162,245.71	40.09178826
531,043.26	131.2236469
161,787.37	39.97853098
571,757.11	141.2842586
145,626.18	35.98501263
321,933.77	79.55156789
647,130.20	159.9093544
6,972,181.19	1,722.86
162,334.02	40.11360971
1,287,041.63	318.0349131
315,889.01	78.05787347
972,191.84	240.2338346

5,474,819.36	1,352.86
161,173.99	39.8269607
16,615,176.24	4,105.70
645,253.06	159.4455044
1,921,352.48	474.7765376
5,773,988.01	1,426.78
1,292,334.20	319.3427346
482,933,861.09	119,335.56
972,815.41	240.3879222
487,173.55	120.3832061
589,142,195.88	145,580.21
161,645.05	39.94336232
2,583,914.06	638.499069
649,514.48	160.4985241
322,857.87	79.77991673
460,206.56	113.7195183
159,926.22	39.51862953
2,744,789.70	678.2523062
482,753.42	119.2909673
2,600,208.78	642.5255819
2,103,952.68	519.8980299
2,611,008.72	645.1943062
2,618,627.51	647.0769506
2,585,871.00	638.9826388
2,608,428.36	644.556686
2,597,425.38	641.8377883
9,211,259.10	2,276.15
896,658.58	221.569161
2,037,892.13	503.5741132
2,616,764.89	646.6166865
1,665,751.36	411.6161248
2,592,473.96	640.6142658
2,492,922.36	616.0145314
2,600,394.67	642.5715181
2,585,321.45	638.846844
2,645,300.66	653.6680292
2,541,757.47	628.0819497
2,605,722.37	643.88802
1,613,160.12	398.6205478
2,566,998.69	634.3191895
2,582,026.96	638.0327564
1,303,278.77	322.047198
6,457,648.74	1,595.72
40,866.64	10.09836547
2,586,991.99	639.2596437
2,572,907.21	635.7792165
2,599,717.00	642.4040614

2,580,522.27	637.6609402
1,922,602.07	475.0853173
274.0906672	0.067729279
2,585,447.55	638.8780021
7,167.41	1.771104738
2,539,237.93	627.4593561
2,596,364.62	641.5756704
5,658.93	1.398352599
2,441,490.39	603.3054142
566,127.76	139.8932166
4,155,904.35	1,026.95
2,598,100.13	642.0045242
147,642.23	36.48319018
2,602,156.14	643.0067859
1,768,135.84	436.9158801
8,795,067.00	2,173.31
1,528,808.74	377.7768665
2,590,382.60	640.0974797
1,163,335.55	287.4664738
2,585,959.87	639.0046011
2,590,046.12	640.0143356
70,084.03	17.31814149
2,588,216.56	639.5622406
2,589,095.59	639.7794527
162,653.40	40.19253105
2,588,598.49	639.6566184
161,472.22	39.9006543
335,319.91	82.85935412
2,598,299.73	642.053845
142,063,583.64	35,104.68
320,847.10	79.28304491
970,208.03	239.7436248
401,508.35	99.21487359
53.96055474	0.013333943
974,393.44	240.777863
323,070.77	79.83252568
1,947,112.97	481.1420942
161,850.91	39.99423002
98,624.84	24.37072973
1,937,801.24	478.8411156
160,752.56	39.72282379
603,138.71	149.0388212
289,826.12	71.61759424
161,777.65	39.97612802
648,749.68	160.3095367
58,334,663.63	14,414.81
643,129.96	158.9208736

2,592,699.98	640.6701174
21,067,501.02	5,205.89
9,517,078.99	2,351.72
485,883.59	120.0644498
161,743.09	39.96758721
161,988.33	40.02818903
161,838.03	39.99104808
161,929.11	40.01355472
2,057.52	0.508423963
3,902,150.21	964.2423172
804,888.91	198.89238
161,003.01	39.784711
321,951.21	79.55587616
321,977.17	79.56229236
482,805.14	119.3037492
481,917.89	119.084503
83.12719254	0.020541177
16,981,675.66	4,196.26
159,916.98	39.51634599
6,580,651.83	1,626.11
322,007.33	79.56974449
6,647,161.81	1,642.55
804,622.63	198.8265809
182,772,268.25	45,164.01
2,734,907.08	675.810257
320,612.30	79.22502426
10,696.76	2.643227332
482,785.69	119.2989433
482,611.31	119.2558525
964,623.91	238.3637584
2,582,954.91	638.2620581
1,456,854.86	359.9966757
971,245.66	240.0000286
648,089.28	160.1463492
1,956,486.32	483.4582987
78,312,360.71	19,351.41
161,648.92	39.94431713
1,808,611.11	446.9175382
648,639.30	160.2822625
7,985,197.92	1,973.19
109,188.81	26.98114269
151,899.65	37.53522208
1,570,593.17	388.1020241
218,703.79	54.04288303
360,451.84	89.06958932
87,384.99	21.59330249
260,178.50	64.29150862

160,294.88	39.60972681
198,491,829.31	49,048.40
32,093,985.93	7,930.60
87,588,757.13	21,643.65
339,738,972.54	83,951.33
408,441.10	100.9279948
4,508,009.33	1,113.95
184,204,029.87	45,517.81
127,914.06	31.60825363
49,197.60	12.15699053
2,551.00	0.630365516
143,717.02	35.51325015
1,671,388.26	413.0090333
12,356.77	3.053425479
10,118.28	2.500281482
34,111.35	8.429098011
22,705.48	5.610645709
295,765.85	73.08533261
1,558,151.93	385.0277268
120,921.00	29.88022906
162,241.82	40.09082682
323,575.99	79.95736953
160,373.30	39.62910639
161,876.39	40.00052632
28,154,104.60	6,957.03
657,853.55	162.5591528
3,975,605.36	982.3934799
323,777.87	80.007255
4,420,857.22	1,092.42
489,889.93	121.0544373
491,917.91	121.5555621
161,513.27	39.9107994
26,248,967.67	6,486.26
808,320.83	199.7404281
588,316.95	145.3762854
142,328.97	35.17025434
322,530.85	79.69910965
473,209.71	116.9326657
640,567.39	158.2876491
162,307.82	40.10713501
189,097.31	46.72696351
1,738,969.43	429.7087044
162,058.59	40.04554889
159,944.35	39.52311021
484,335.70	119.6819579
162,755.63	40.2177915
60,327,137.16	14,907.16



162,105.40	40.05711735
165,609.67	40.92304028
2,053,151.13	507.344692
660,212.28	163.1420082
16,110,248.16	3,980.93
161,610.71	39.93487506
9,009,281.46	2,226.24
161,984.52	40.02724783
485,766.87	120.0356078
2,221,327.79	548.90205
332,568.95	82.17957773
42,728.18	10.55836346
1,605,490.37	396.7253112
133.7410239	0.033048127
6,610.17	1.633408083
6,302,573.50	1,557.40
326,939.88	80.78860411
146,297.31	36.15085382
160,963.55	39.77496045
5,713.75	1.411899228
159,362.45	39.37931979
162,141.18	40.0659586
90,552.90	22.37610918
6,735,861.24	1,664.47
92,171.82	22.77615347
1,178.32	0.291169516
176,970.86	43.73045142
67,855.83	16.76754052
1,300.89	0.321456644
489,014.99	120.8382357
490,318.76	121.1604043
162,573.81	40.17286337
487,404.44	120.440261
303.9538007	0.07510862
4,338,228.88	1,072.00
4,070,611.13	1,005.87
330,289.11	81.61621623
653,599.13	161.5078623
160,987.13	39.78078728
973,115.28	240.4620222
161,814.11	39.98513666
15,085,440.69	3,727.69
5,035,631.51	1,244.33
321,480.42	79.4395414
323,247.57	79.87621487
641,129.40	158.4265254
159,289.85	39.36137942

1,604,772.25	396.5478588
1,276,449.26	315.4174805
161,111.15	39.81143137
2,484,220.94	613.864362
633,550.29	156.5536851
1,563,517.16	386.3535042
7,719,141.12	1,907.44
86,167.69	21.29249962
322,802.92	79.76633977
7,037,166.74	1,738.92
1,798.50	0.444418969
481,480.06	118.9763142
162,094.26	40.05436367
162,040.61	40.04110638
1,050,271.06	259.5276303
115,715,658.14	28,593.96
4,122,797.00	1,018.77
292,149.03	72.1915969
164,196.60	40.57386346
602,164.82	148.7981665
32,512,888.73	8,034.11
202,797,216.22	50,112.28
171.2460756	0.042315827
31,799,933.17	7,857.93
140,794.49	34.79107633
160,166.08	39.57790057
333,663.59	82.45006931
122,319,905.91	30,225.91
39,489.88	9.758162028
159,549.09	39.42543912
160,641.39	39.69535161
160,729.39	39.71709659
310,420.96	76.70668889
162,098.06	40.05530376
3,923,853.78	969.6053842
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133,735.09	33.0466611
162,223.50	40.08630003
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162,156.58	40.06976344
162,026.32	40.03757541
323,793.94	80.01122433
660,606.96	163.2395353
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161,690.73	39.95465072
808,467.57	199.7766873
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160,817.84	39.73895354
160,473.95	39.65397612
160,164.55	39.57752168
161,964.79	40.02237039
648,831.05	160.3296434
161,171.80	39.82641907
162,226.38	40.08701122
324,570.43	80.2030992
160,200.63	39.58643877
161,841.39	39.99187897
160,182.73	39.58201551
160,529.75	39.66776543
322,347.04	79.65368737
164,049.00	40.53739126
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160,962.43	39.77468284
160,991.30	39.78181657
163,358.66	40.36680377
161,229.19	39.84059959
162,631.99	40.18724034
162,791.03	40.22654023
162,800.83	40.22896225
163,912.29	40.50360946
824,042.76	203.6253998
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493,361.46	121.9122707
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5,605,283.64	1,385.10
162,775.44	40.22268665
160,959.24	39.77389439
162,248.57	40.09249405
317,810.00	78.53256066
176,011.93	43.49349547
1,451,183.06	358.5951432
163,890.99	40.49834576
162,223.94	40.08640935
161,399.18	39.88260696
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814,946.66	201.3777054
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162,079.23	40.05065051
160,636.24	39.69407842
293,258.63	72.46578596
2,755,433.10	680.8823479
175,478.18	43.36160311
487,965.41	120.5788797
161,715.15	39.96068298
161,299.97	39.85809053
175,394.54	43.34093482
176,058.61	43.50503094
163,266.91	40.34413251
161,582.71	39.92795634
173,361.47	42.83855216
161,189.95	39.83090428
161,363.13	39.87369763
163,595.20	40.42525551
161,212.22	39.83640698
161,171.12	39.82625041
161,109.12	39.81093042
161,885.37	40.00274593
323,953.93	80.05076022
163,485.48	40.39814133
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322,675.49	79.73484913
163,913.64	40.50394158
161,101.62	39.80907712
161,175.35	39.82729689
161,999.13	40.03085748
161,211.95	39.83634032
161,180.64	39.8286027
161,485.18	39.90385652
161,260.77	39.84840469
161,117.71	39.81305438
163,838.51	40.48537759
160,964.11	39.77509721
161,302.16	39.8586317
648,879.97	160.3417336
162,845.35	40.23996151
161,679.11	39.95177697
161,097.20	39.80798458
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322,878.31	79.78496919
163,315.33	40.3560965
160,789.99	39.73207081
320,372.55	79.16578025
323,928.38	80.04444529
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166,786.80	41.21391542
162,678.09	40.19863228
484,230.43	119.6559449
179,782.04	44.42511068
163,045.93	40.28952632
145,240.63	35.88974212
160,705.34	39.71115492
161,519.10	39.91223984
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162,451.29	40.14258835
323,472.01	79.93167447
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161,527.26	39.91425461
161,468.91	39.89983602
323,566.65	79.9550613
161,581.44	39.92764387
161,420.93	39.88797975
161,944.60	40.01738192
162,563.72	40.17036905
161,803.49	39.98251376
323,743.56	79.99877598
161,450.27	39.89523103
161,444.72	39.893859
161,167.77	39.82542244
161,746.29	39.9683788
143,358.80	35.4247314
161,868.33	39.99853492
161,267.21	39.84999559
160,488.65	39.65761026
161,890.22	40.00394494
161,548.87	39.91959566
162,583.09	40.17515641
160,905.45	39.76060207
322,314.90	79.64574721
161,939.15	40.01603639
161,238.65	39.84293801
160,794.75	39.7332487
162,135.76	40.06461958
324,451.09	80.17361134
162,200.53	40.08062363
161,081.28	39.80405226
162,302.76	40.10588655
161,576.42	39.92640249
161,349.25	39.87026841
160,523.63	39.66625258

161,218.39	39.83793073
161,968.21	40.02321613
161,597.42	39.93159264
161,105.44	39.81002049
160,205.69	39.58768859
303,358.94	74.96162766
485,562.68	119.9851521
162,587.91	40.17634695
162,135.06	40.06444566
161,123.21	39.81441268
159,907.05	39.51389262
162,174.37	40.07415989
3,067,389.07	757.9683454
641,861.66	158.6074696
322,965.38	79.80648226
161,522.55	39.91309153
161,612.03	39.9352012
160,129.64	39.56889699
162,180.05	40.0755636
162,806.03	40.23024493
160,890.65	39.75694521
161,411.18	39.8855707
161,154.25	39.82208251
160,184.75	39.58251488
162,202.27	40.08105409
162,019.80	40.03596335
160,388.26	39.63280122
322,457.29	79.68093073
161,576.97	39.9265394
160,240.66	39.5963296
323,320.12	79.89414248
162,387.12	40.12673176
161,058.78	39.79849073
160,457.78	39.64998012
161,721.69	39.96230049
1,451,102.87	358.5753271
161,516.40	39.91157187
465,403.88	115.0038032
161,981.07	40.02639439
160,950.96	39.77184897
983,151.91	242.9421269
322,628.50	79.72323832
323,420.34	79.91890753
160,518.49	39.66498368
161,760.04	39.97177617
161,955.02	40.01995773
157,782.20	38.98883077

161,444.22	39.89373438
144,474.40	35.70040285
161,248.26	39.84531218
160,736.42	39.71883509
160,991.28	39.78181197
161,735.42	39.96569325
1,131,726.40	279.6556832
160,668.28	39.70199761
161,708.69	39.95908837
322,813.73	79.76900944
160,660.96	39.70018829
161,656.01	39.94607076
161,938.16	40.01579071
160,924.35	39.76527293
161,740.91	39.96705014
161,985.32	40.02744336
322,093.53	79.59104461
161,468.88	39.89982885
160,863.94	39.75034475
162,131.96	40.06367926
161,300.26	39.8581629
653,295.17	161.4327526
161,212.68	39.83652101
320,741.67	79.25699385
160,857.20	39.74868036
161,488.28	39.90462239
162,569.96	40.17191088
162,061.00	40.04614433
161,060.36	39.79888127
322,562.35	79.70689293
161,042.33	39.79442624
162,065.26	40.04719871
162,634.27	40.18780408
162,099.88	40.05575147
161,788.96	39.97892291
161,089.43	39.80606498
161,949.79	40.01866456
484,063.84	119.6147805
1,869,876.65	462.0565837
160,835.75	39.74338019
162,144.62	40.06680738
161,015.72	39.78785058
322,658.68	79.73069575
324,088.76	80.08407585
162,941.40	40.26369667
163,262.73	40.34309826
164,427.05	40.63080898

162,867.40	40.24541103
295,072,545.54	72,914.01
160,746.54	39.7213356
163,542.16	40.41214801
161,701.97	39.95742594
160,498.85	39.6601292
162,092.61	40.05395626
161,527.79	39.91438517
161,440.42	39.89279617
324,076.93	80.08115245
324,233.71	80.11989496
3,255,542.24	804.4620068
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324,146.04	80.0982304
320,697.10	79.24598036
648,296.35	160.1975167
323,672.13	79.98112393
160,938.83	39.76885177
162,143.39	40.06650544
323,386.50	79.91054489
160,963.13	39.77485578
160,964.73	39.77525186
323,322.04	79.89461489
160,659.31	39.69978055
162,016.53	40.03515679
160,973.86	39.77750674
162,041.61	40.04135383
162,374.28	40.12355957
323,986.38	80.05877878
159,850.42	39.49989832
165,416.90	40.87540497
161,726.27	39.96343176
17,169,157.46	4,242.59
161,755.37	39.97062131
490,607.89	121.23185
1,286,657.06	317.939883
161,948.49	40.01834224
162,138.30	40.06524644
162,729.64	40.21137085
477,479.50	117.9877543
646,689.26	159.8003964
324,968.40	80.30144049
161,564.18	39.92337783
87,318.54	21.5768822
161,311.06	39.86082986
162,107.22	40.05756727
1,301,492.99	321.6059219



162,274.03	40.09878527
161,609.05	39.93446491
160,063.93	39.55265933
190,673,085.64	47,116.35
162,575.43	40.17326446
324,186.91	80.1083303
4,182,822.13	1,033.60
162,118.54	40.06036463
121,353.20	29.98702995
161,997.37	40.03042128
2,213,120.53	546.8739938
161,817.29	39.98592333
163,621.76	40.43181851
7,124,582.24	1,760.52
162,426.60	40.13648579
2,915,188.11	720.3586698
162,066.26	40.0474442
162,200.67	40.08065835
19,617,761.43	4,847.65
162,187.86	40.07749353
158,606.36	39.19248546
162,198.31	40.08007437
162,157.37	40.06995805
21,556,571.70	5,326.74
2,415,799.24	596.9569935
161,142.26	39.81911907
161,374.80	39.8765804
140,315.82	34.67279309
14,182,114.37	3,504.48
161,259.21	39.8480178
161,346.57	39.8696047
161,586.42	39.92887513
161,681.87	39.95245982
161,547.81	39.91933361
161,431.18	39.89051368
484,925.54	119.8277097
321,458.02	79.43400763
164,880.55	40.7428722
161,614.30	39.93576281
295,378.32	72.98957199
162,171.21	40.07337925
162,144.13	40.06668775
161,517.52	39.91184753
1,796,253.80	443.8639805
161,523.53	39.91333409
161,696.30	39.95602616
378,189.66	93.45270117

159,568.91	39.4303365
1,461,378.77	361.1145573
162,087.37	40.05266209
160,927.87	39.76614208
1,297,427.75	320.6013802
161,308.33	39.86015737
161,782.70	39.97737505
495,199.29	122.3664088
651,843.10	161.0739389
162,809.53	40.23111159
161,909.97	40.0088245
161,820.51	39.9867184
206,048.22	50.91562278
162,860.80	40.24378023
491,129.93	121.3608496
164,367.45	40.61608083
652,004.12	161.1137275
164,867.86	40.73973659
97,292.11	24.04140311
328,724.04	81.22947869
164,773.13	40.71632826
164,185.27	40.57106494
162,386.21	40.12650527
165,271.59	40.83949877
162,300.77	40.10539349
161,363.54	39.87380015
6,695,022.74	1,654.38
161,174.50	39.82708629
161,300.95	39.85833225
1,137,108.02	280.9855102
161,970.19	40.0237067
161,586.86	39.92898194
165,765.74	40.96160708
162,091.39	40.05365528
2,424,616.99	599.1359054
157,480.56	38.91429355
2,955,278.05	730.2651094
22,380.33	5.530299363
161,719.41	39.96173582
648,081.83	160.1445069
649,852.59	160.5820727
1,894,648.20	468.1777665
647,779.92	160.069905
1,358,601.15	335.7176559
328,449.70	81.16168794
167,051.33	41.27928182
174,031.30	43.00407018

158,764.54	39.2315717
736,201.69	181.9193995
38,728.32	9.569976259
81,380.32	20.10951535
6,193,530.81	1,530.45
162,170.33	40.07316004
161,236.66	39.84244579
161,796.91	39.98088677
160,534.51	39.66894022
161,038.49	39.79347826
22,758,072.62	5,623.64
605,393.21	149.5959201
494,150.25	122.1071852
2,260,178.10	558.5021725
12,348,922.68	3,051.49
3,688,349.44	911.4109962
334,956.81	82.76962973
747,090.04	184.6099681
682,926.78	168.7548818
42,056,905.33	10,392.49
316,305.46	78.16078088
3,584,581.22	885.7693095
16.5154232	0.00408105
362,060.88	89.46719268
15,155,088.96	3,744.90
3,075,150,241.16	759,886.17
25,406,337.52	6,278.04
486,948.22	120.3275259
79,020.25	19.52632813
79,113.87	19.54946374
3,291,935.66	813.4550172
475,879.41	117.5923639
282,900,294.74	69,906.19
0.212383403	5.24811E-05
109,694,882.57	27,106.20
1,816,261.73	448.8080476
161,765.33	39.97308454
1,321,552.91	326.5628353
432,574.63	106.8915181
165,932.02	41.00269576
160,410.74	39.6383568
164,251.72	40.58748388
1,286,143.90	317.8130784
161,832.11	39.98958439
152,526.91	37.69022087
11,721.82	2.89652536
12,737,498.98	3,147.50

1,288,620.44	318.4250443
160,819.56	39.7393799
297,926.20	73.61916848
250,725.61	61.95564791
79,020.52	19.52639618
322,751.42	79.75361266
160,313.07	39.61422121
160,606.74	39.68678873
91,057.28	22.50074327
1,114.96	0.275511551
3.038303386	0.000750781
4,901,997.52	1,211.31
322,904.61	79.79146691
639,816.26	158.1020407
92,153.98	22.77174335
639,546.69	158.0354292
1,123,432.46	277.6062071
162,614.32	40.18287468
75,706.15	18.70739683
20,225.98	4.997948752
359,097.41	88.7349033
73,299.56	18.1127167
12,589,377.27	3,110.90
2,052,791.75	507.2558883
260,082.43	64.2677681
21,562.05	5.328099282
649,679.35	160.5392642
161,212.64	39.83651073
20,585.43	5.086770799
642,457.07	158.7545997
37,934.39	9.373792365
562,532.36	139.0047742
2,598,951.48	642.2148957
237.6179841	0.058716683
120.9756108	0.029893724
649,785.51	160.5654964
20,194.06	4.990060348
323,920,138.37	80,042.41
719,662.15	177.8323902
650,068.12	160.6353315
1,368,618.40	338.1929707
28,345,784.42	7,004.40
3,261,349.00	805.8968877
645,267.54	159.4490811
1,250,021.60	308.8870637
1,284,158.89	317.3225729
1,297,846.22	320.7047842

648,441.07	160.2332785
2,567,099.22	634.344033
1,297,232.63	320.5531628
645,315.62	159.4609625
2,557,804.68	632.0473017
659,428.81	162.9484065
1,335,526.97	330.015901
16,112.90	3.981585473
1,960,401.70	484.4258103
4,552,650.94	1,124.98
577,760.89	142.7678262
196,377.55	48.52595063
643,115.93	158.9174068
161,781.54	39.97708877
2,607,386.98	644.2993544
487,171.51	120.3827012
6,489,732.75	1,603.65
3,897,589.66	963.1153809
809,488.88	200.0290585
837,812.33	207.0279364
1,050,007.50	259.4625041
322,872.04	79.78341754
161,570.91	39.92504086
4,614,366.68	1,140.23
2,499,361.64	617.6057105
6,345,039.54	1,567.89
19,923.49	4.923202156
1,300,502.59	321.3611886
3,334,929.51	824.0790288
1,297,277.76	320.5643169
14,423,941.35	3,564.23
660,332.31	163.1716675
1,291,643.16	319.171976
1,296,980.29	320.4908101
1,295,390.04	320.0978498
1,138,732.55	281.3869407
2,573,633.17	635.9586073
1,279,341.29	316.1321181
647,951.42	160.1122825
161,489.02	39.90480637
4,650,753.45	1,149.23
1,206,528.88	298.1397787
23,208,003.79	5,734.82
1,119,079.75	276.5306295
2,593,774.16	640.9355529
288,875.39	71.3826624
2,592,515.21	640.6244587

808,245.85	199.7218988
1,288,412.99	318.3737836
6,494,097.21	1,604.73
62,413.09	15.42261004
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162,438.45	40.13941397
1,298,142.42	320.7779768
10,075,142.17	2,489.62
620,634.74	153.3621832
161,527.20	39.91424138
3,877,821.81	958.2306374
332,920.62	82.26647597
2,583,971.46	638.5132538
648,337.19	160.2076097
23,953,303.62	5,918.99
2,598,534.21	642.1117868
159,674.90	39.45652786
2,958,364.43	731.0277713
160,784.03	39.73059822
647,408.81	159.9782016
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159,998.84	39.53657464
319,561.05	78.96525436
3,467,007.77	856.7162779
1,944,618.06	480.5255883
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123,443.64	30.5035878
1,314,071.10	324.7140393
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730,372.05	180.4788648
11,154,173.36	2,756.26
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2,604,128.09	643.4940642
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2,124,012.40	524.8548937
1,302,325.25	321.8115787
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8,794,332.46	2,173.13
823,002.68	203.3683917
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646,031.74	159.63792
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1,290,356.17	318.8539539

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5,981,893.61	1,478.16
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18,024,527.02	4,453.96
3,712,555.93	917.3925484
27,499.48	6.795270251
585,717.53	144.7339545
162,092.64	40.05396459
161,904.71	40.00752477
161,205.53	39.83475381
483,488.97	119.4727261
31,925,918.02	7,889.07
2,737,716.70	676.5045302
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311,094.93	76.87323131
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322,554.29	79.70490088
161,210.55	39.83599568
2,437,577.73	602.338575
9,703,273.30	2,397.73
75,662.07	18.69650451
2,587,346.75	639.3473056
215,560.77	53.26622569
5,370,599.65	1,327.10
2,795,576.66	690.8020362
12,286,434.95	3,036.04
11,314,508.83	2,795.88
5,506,945.85	1,360.80
1,304,415.99	322.3282116
2,509,168.00	620.0289167
552.9567451	0.136638587
289,847.26	71.62281878
20,078.94	4.961615198
1,091,689.76	269.7624144
5,379,987.93	1,329.42
15,997,963.05	3,953.18
695,427.97	171.8439941
651,499.76	160.9890958
6,297,291.20	1,556.09
1,432,931.06	354.084977
20,644.80	5.101440206
633,171.71	156.4601376
551,879.30	136.3723449

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95.04426315	0.023485949
23,606,415.67	5,833.27
82,529,194.93	20,393.41
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485,513.30	119.972949
332,324.40	82.11914694
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38,262.85	9.454957256
488,162.97	120.627698
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73,773.52	18.22983273
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325,568.43	80.44971163
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162,568.20	40.17147731
1,290,754.39	318.9523568
156,890.71	38.76853815
162,320.60	40.11029325
161,081.57	39.80412273
162,572.22	40.1724701
160,578.73	39.67986941
486,398.66	120.1917261



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2,612,435.92	645.5469751
164,642.62	40.6840778
161,442.67	39.89335246
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600,929.76	148.4929787
322,186.41	79.61399564
269,125.21	66.50228765
319,444.06	78.93634651
157,176.24	38.83909576
159,928.62	39.51922271
164,093.02	40.54826879
161,855.29	39.99531434
1,590,894.09	393.1184906
157,337.70	38.87899292
801,961.18	198.1689234
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163,287.67	40.34926226
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650,811.75	160.8190847
154,784.24	38.24801817
320,929.17	79.30332424
162,152.78	40.06882575
162,612.19	40.18234602
324,809.37	80.26214418
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161,427.58	39.88962304
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793,685.66	196.1239986
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279,246.29	69.00326191
165,577.60	40.91511558
321,830.41	79.52602549
160,703.87	39.71079134
161,194.21	39.83195797
1,588,395.13	392.5009836
78,960.51	19.51156632
959,853.49	237.1849623
271,721.49	67.143843
4,199,425.88	1,037.70
158,976.72	39.28400275

162,389.22	40.12725046
162,872.49	40.24666837
159,895.22	39.51097046
160,553.96	39.67374784
160,269.99	39.60357732
163,552.09	40.41460251
159,279.94	39.3589301
319,745.00	79.01070905
162,469.39	40.14705995
319,761.09	79.01468686
595,057.45	147.0418984
1,945,407.83	480.7207433
2,617,020.68	646.6798946
156,587.19	38.69353664
162,656.34	40.19325702
105,520.39	26.07465702
1,904,948.39	470.7229984
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1,431,842.91	353.8160876
654,160.90	161.6466785
159,147.02	39.3260846
2,137,188.83	528.1108601
1,112,253.69	274.8438718
18,365.57	4.538232119
206,535.30	51.03598528
1,316,340.36	325.2747872
224,202.49	55.40164122
162,280.93	40.1004911
503,834.75	124.5002779
488,212.83	120.6400167
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1,286,078.06	317.7968107
105,598.53	26.09396582
2,597,459.09	641.8461198
1,763,226.41	435.7027347
3,479,113.61	859.7076953
161,331.36	39.86584813
7,011.15	1.732492521
2,582,788.67	638.2209807
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159,086.01	39.3110098
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161,269.35	39.85052446
687,212.30	169.8138587

961,378.70	237.5618494
161,381.14	39.87814859
285,266.09	70.49078652
145,914.47	36.05624973
1,387,174.08	342.7781801
162,838.48	40.23826441
160,238.71	39.5958468
808,767.25	199.850741
2,586,422.45	639.1189054
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937,372.10	231.6296897
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162,150.89	40.06835811
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161,895.77	40.00531478
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161,543.06	39.91815989
161,477.35	39.90192236
321,499.47	79.4442496
160,937.55	39.7685355
160,527.00	39.6670847
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159,219.62	39.34402616
162,598.78	40.1790344
162,444.61	40.14093674
161,051.64	39.79672666
161,107.64	39.81056459
161,656.33	39.9461503
176,124.40	43.52128714
163,705.57	40.45252622
161,929.36	40.01361721
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1,295,851.88	320.2119739
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484,324.28	119.6791372
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187,144.07	46.24430624
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161,458.75	39.89732614
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649,882.59	160.589486
322,518.76	79.69612047
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161,154.71	39.82219714
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161,439.57	39.89258649
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161,251.74	39.84617357
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162,777.71	40.2232482
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483,070.50	119.36932
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161,804.17	39.98268021
486,834.72	120.2994787
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144,131.39	35.61564167
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160,667.12	39.70171025
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6,717,663.58	1,659.97
162,374.60	40.1236375
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649,440.42	160.4802239
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162,091.20	40.05360818
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162,652.65	40.19234488
162,256.78	40.0945239
163,045.85	40.28950802
162,131.78	40.06363584
162,162.92	40.07132951
162,129.23	40.0630044
162,456.10	40.14377747
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162,117.18	40.06002762
116,393.54	28.76147002
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45,816.14	11.32141449
162,193.98	40.07900618
161,193.92	39.83188531
161,299.96	39.8580881
161,632.61	39.94028889
161,320.46	39.86315441
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161,522.76	39.91314353
164,398.49	40.62375151
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96,944.00	23.95538411
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131,935.05	32.60186034
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119,793.22	29.60155021
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76,912,719.30	19,005.55
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9,684,229.56	2,393.03
498,210.58	123.1105145
485,313.90	119.9236771
4,573,327.96	1,130.09
334,936.09	82.76450993
1,784,643.25	440.9949505
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161,255.12	39.84700812
654,238.31	161.6658063
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2,593,163.19	640.7845794
849,852.77	210.0031922
1,793,673.26	443.2263163
2,587,703.55	639.4354733
2,594,764.68	641.180317
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2,587,435.40	639.3692118
160,665.76	39.70137344
2,579,376.42	637.3777933
2,587,905.90	639.4854755
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2,577,720.10	636.9685097
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2,590,222.24	640.0578549
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2,580,924.23	637.7602673
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2,593,070.67	640.7617183
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213,471,194.31	52,749.88
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301,071,735.98	74,396.45
63,598,783.07	15,715.60
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117,409.86	29.01260898
323,902.73	80.03810849
13,841.78	3.420378327
396,139.99	97.88832405
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218,462.86	53.98334767
487,697.74	120.5127357
161,814.80	39.98530702
616,127.45	152.2484096
14,763.01	3.648018287
285,243.99	70.48532524
164,352.41	40.6123641
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160,714.90	39.71351766

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387,061.58	95.64499977
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804,390.39	198.769193
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157,689.15	38.96583844
643,436.98	158.9967404
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484,129.17	119.6309236
487,566.04	120.4801921
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930,944.88	230.0414894
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323,185.12	79.86078178
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154,129.54	38.08623869
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6,580,570.92	1,626.09
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177,466,946.45	43,853.04
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377,100.08	93.18346015
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554,446.30	137.0066637
163,407.81	40.3789503
32,389,269.09	8,003.56
1,518,398.55	375.2044526
161,963.03	40.02193571
1,972,064.43	487.3077338
1,746,944.74	431.6794466
161,903.43	40.00721003
194,944.16	48.17175015
160,132.21	39.56953069
162,888.91	40.25072588
692,567.27	171.1371006
1,863,955.82	460.5935142
1,774,747.07	438.549552
813,693.53	201.068049
159,092.32	39.31256778
57,515.88	14.21248447
161,518.89	39.91218603
3,339,902.77	825.3079475
159,093.10	39.31276041
1,981,625.07	489.6702187
646,908.62	159.8546022
160,350.86	39.62355938
161,503.83	39.90846455
1,295,195.66	320.0498179
1,927,523.97	476.3015458
159,458.99	39.40317458
40,238.23	9.943082361
1,190,640.02	294.2135569
272,217,644.99	67,266.45
53,768.99	13.28660568
1,294,170.52	319.7965
640,885.99	158.3663778
39,555,378.53	9,774.35
315,129.68	77.87023969
92,658,801.96	22,896.49
1,867,305.80	461.4213122
161,936.30	40.01533242
48,797,211.55	12,058.05
318,471.84	78.69610513
162,229.62	40.08781102
1,320,360.84	326.2682689
6,243.92	1.542905903

648,046.22	160.1357091
2,743,950.02	678.0448176
657,958.06	162.5849762
59,343.06	14.66398858
21,275,650.39	5,257.33
592,570.45	146.4273481
503,079.58	124.3136709
489,308.28	120.9107091
14,773.62	3.65064183
1,295,148.68	320.0382084
1,595,629.75	394.2886972
161,329.91	39.86548887
2,931,829.51	724.4708484
2,493,574.29	616.1756265
54,291.65	13.41575994
135,975,196.20	33,600.20
162,778.93	40.22355082
1,473,013.76	363.989627
5,510,629.18	1,361.71
485,835.54	120.0525755
2,573,187.65	635.8485168
7,074,412.38	1,748.13
26,643.19	6.583674623
4,988,365.70	1,232.65
162,984.86	40.27443683
162,967.11	40.27005069
162,399.13	40.12969868
11,945,104.39	2,951.70
649,264.98	160.4368697
20,203.76	4.992458417
161,561.92	39.92282065
160,731.87	39.71771017
63,358,843.89	15,656.31
1,772,773.00	438.0617479
19,690,245.36	4,865.57
4,950,819.19	1,223.37
4,461.21	1.102388209
1,589,289.74	392.722047
138,703.85	34.27446739
299.2398025	0.073943766
48,688,845.61	12,031.28
646,540.51	159.7636405
16,302.70	4.028484192
2,008,254.70	496.2505433
888,880.26	219.6470966
253,649,054.66	62,678.05
1,295,289.69	320.0730522

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521,443.01	128.8513736
2,581,152.40	637.8166476
661,748.39	163.5215879
1,319,534.41	326.0640549
3,242,552.95	801.2522833
651,093.44	160.8886925
648,819.86	160.3268789
3,055,927.09	755.1360298
355,175.48	87.76577141
3,896,542.69	962.8566684
2,593,809.30	640.9442376
2,476,573.25	611.9745779
479,145.09	118.3993306
308,997.62	76.3549744
0.599972961	0.000148257
270,076.36	66.73732274
5,943.16	1.468586802
2,258,639.24	558.1219117
287,446.60	71.02960136
330,575.81	81.68706057
157,687.70	38.9654781
784,154.26	193.7687386
160,587.40	39.68201157
39,469.56	9.753141016
298,631.71	73.79350283
325,478.71	80.42754035
2,086.62	0.515616096
649,260.41	160.4357425
7,490,790.50	1,851.01
1,946,350.54	480.9536917
41,258,762.42	10,195.26
11,367,795.81	2,809.04
581,222.93	143.623315
665,624.98	164.4795143
13,087,073.70	3,233.89
115,128.49	28.44886927
49,265.31	12.17372301
43,964.44	10.86384981
135,695.08	33.53098339
10,233.61	2.528779516
50.32472245	0.01243551
16,427.21	4.059252266
1,452,628.46	358.9523091
144,228.25	35.63957791
69,948,099.75	17,284.55
348,912.80	86.21822975



5,819,784.85	1,438.10
396,932.04	98.08404244
644,159.33	159.1752358
58,395,800.96	14,429.92
3,073,223.65	759.4101028
90,134.95	22.27283034
324,291.61	80.1342014
649,347.47	160.4572546
831,665.45	205.5090094
1,710.24	0.42261013
205,165.47	50.69749212
92,099.66	22.75832167
306,139.14	75.64862954
975,832.14	241.1333722
190,320.17	47.02913788
6,853,794.67	1,693.61
1,422,818.46	351.5860977
212.9925977	0.052631617
696,135.57	172.0188451
162,771.35	40.22167636
2,175,397.16	537.5523458
160,371.75	39.6287228
675,071.22	166.8137318
742,680.71	183.5203994
1,536,338.53	379.6375184
114,820.29	28.37271071
320,913.71	79.29950497
36,880.76	9.113435075
1,085,374.15	268.2017933
1,617,564.39	399.708865
153,503.93	37.93164781
689,804.93	170.4545096
54,734,075.18	13,525.08
4,867,366.60	1,202.75
6,835.02	1.688969731
99,034.11	24.47186169
163,210.85	40.33027966
490,697.88	121.2540876
331,290.75	81.86372599
322,802.72	79.76628884
2,639,664.86	652.275391
1,768,439.57	436.9909337
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158,040.86	39.05274588
81,582.00	20.15935226
1,204,265.37	297.5804542
158,759.16	39.23024329

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159,514.09	39.41678949
319,275.39	78.89466596
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346,131.71	85.53100724
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2,215,208.08	547.3898372
60,519.34	14.95465457
138,876.22	34.31706227
159,397.40	39.38795426
800,469.57	197.8003375
161,286.05	39.85465122
159,577.56	39.43247476
380,852.47	94.11069578
162,038.16	40.04050143
2,737,163.20	676.3677565
161,968.94	40.02339712
157,115.08	38.8239818
486,735.11	120.2748662
964,469.24	238.3255399
161,881.53	40.00179844
162,859.26	40.24339987
161,822.90	39.98730944
27,695.41	6.843685262
321,895.01	79.54198987
37,243.46	9.203058586
161,732.49	39.96496804
160,236.00	39.59517692
160,404.35	39.63677878
121,878.40	30.1168094
157,825.53	38.99953694
1,433,324.68	354.182242
8,334.78	2.059568582
160,376.04	39.62978147
159,320.60	39.36897783
1,479,025.17	365.4750794
1,121,755.05	277.1917093
324,921.68	80.28989485
2,594,895.38	641.2126115
158,191.10	39.08987131
315,163.78	77.87866551
166,085.55	41.04063208
160,556.10	39.67427695
315,372.55	77.93025352

2,596,191.92	641.5329953
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321,841.39	79.52873893
720,708.11	178.0908529
1,119,295.92	276.584045
652,387.67	161.2085048
2,540,234.44	627.705601
162,019.35	40.03585266
1,868,601.04	461.7413736
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2,595,026.42	641.2449936
964,715.38	238.3863616
230,125.13	56.865158
1,465,001.02	362.009636
160,356.34	39.62491503
323,234.09	79.87288402
137,361.22	33.94269569
476,651.89	117.7832482
7,271,727.28	1,796.88
2,377,317.37	587.4479151
739,595.63	182.7580608
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644,072.53	159.1537871
162,078.94	40.05057888
1,106,213.11	273.3512134
484,513.10	119.7257934
121,332.76	29.98197774
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485,530.53	119.9772062
2,591,044.85	640.2611269
161,904.08	40.00737022
469,737.55	116.0746773
1,564,723.48	386.6515924
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2,592,254.85	640.5601224
4,642,283.82	1,147.13
88,078.48	21.76466676
1,617,809.51	399.7694365
2,583,488.75	638.3939723
164,168.61	40.56694758
632,885.83	156.3894938
108,194.83	26.73552548
2,534,767.14	626.3546021
2,603,859.91	643.4277961
12,901,824.93	3,188.11
54,770.54	13.53409401
2,410,039.54	595.53374

2,579,625.52	637.4393492
2,589,431.21	639.8623864
3,971,407.65	981.3562027
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474,341.26	117.2122784
11,240.28	2.777533664
13,278,415.00	3,281.17
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698.3378142	0.172563032
161,408.59	39.88493031
16,341.20	4.03799839
1,987.30	0.491072417
2,676,532.77	661.3856502
2,572,292.83	635.6274006
3,063,598.01	757.0315552
2,275,329.60	562.2461879
322,042.28	79.57838088
2,343,059.60	578.9826372
2,613,446.28	645.7966392
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2,594,458.62	641.104686
4,403,884.53	1,088.22
2,352,637.83	581.3494694
50.44772381	0.012465904
67,728.82	16.73615665
1,103,287.97	272.6283936
4,607,161.35	1,138.45
806,340.80	199.2511522
3,236,841.43	799.8409354
639,460.06	158.0140218
160,485.19	39.65675362
27,981,884.81	6,914.47
278,462.48	68.80957774
161,938.90	40.01597333
163,143.99	40.31375749
161,433.05	39.89097544
1,954,855.04	483.0551998
161,215.53	39.83722393
162,076.89	40.05007281
161,562.76	39.92302763
162,150.37	40.06822921
2,885,198.29	712.9480241
179.9146256	0.044457872
161,728.37	39.96395166
324,468.23	80.17784469
648,817.20	160.3262213

2,623,392.67	648.2544477
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162,546.88	40.16620798
161,369.56	39.87528587
162,671.55	40.19701446
162,778.03	40.22332782
162,601.87	40.17979628
1,659,457.98	410.0609977
162,528.65	40.1617037
9,433,406.80	2,331.05
326,180.22	80.60088674
200,688.93	49.59131522
1,943,218.71	480.1798004
2,606,902.17	644.1795561
654,848.73	161.8166449
2,537,880.83	627.1240106
2,608,847.84	644.6603405
324,778.11	80.25441817
737,652.82	182.2779803
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13,314,769.65	3,290.15
2,592,847.95	640.7066823
702,805.31	173.6669744
2,605,786.85	643.9039541
2,595,135.79	641.2720187
2,389,865.34	590.548586
3,062,831.94	756.8422545
281,993.68	69.68215486
2,383,568.30	588.9925541
2,873,142.38	709.9689445
30,842,962.22	7,621.46
1,474,940.51	364.4657385
53,221,924.20	13,151.42
159,170.36	39.33185134
2,574,702.05	636.2227322
4,348,264.48	1,074.48
315,868.76	78.05286992
1,363,160.44	336.8442795
327,768.78	80.99342844
646,786.43	159.8244074
322,013.41	79.57124751
3,448,149.18	852.0562184
830,355.45	205.1852996
17,565,675.55	4,340.57
1,692,783.42	418.2958927
319,689.22	78.99692565
550,328.30	135.9890853

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651,939.91	161.0978604
785,490.26	194.0988701
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1,824,056.94	450.7342872
2,595,938.14	641.4702844
2,573,363.47	635.8919612
3,084.33	0.762154988
2,592,989.92	640.7417625
62.11089131	0.015347935
2,592,803.05	640.6955875
2,485,644.60	614.2161564
58.52864568	0.014462743
2,585,346.57	638.8530512
759,352.39	187.6400617
245.595904	0.06068807
4,630.01	1.144101262
80.49149829	0.019889882
1,686,697.14	416.7919394
142.562913	0.035228063
1,826,067.69	451.231153
596,763.35	147.4634357
2,605,449.97	643.8207083
2,546,438.57	629.2386738
2,577,450.59	636.9019101
2,622,707.19	648.0850601
638,407.37	157.7538962
2,609,506.63	644.8231314
1,807,232.13	446.5767856
2,597,553.17	641.8693658
2,599,868.33	642.4414549
2,576,907.67	636.7677521
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1,934,394.52	477.9992956
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708,077.85	174.9698476
1,747,387.20	431.7887803
223.181841	0.055149434
4,333.80	1.070905878
2,626,892.33	649.1192307
2,042,245.27	504.6497962
2,047,497.88	505.9477437
2,575,852.02	636.5068969
1,935,890.88	478.3690535
160,806.12	39.73605645
161,445.96	39.89416525

2,187,543.89	540.5538683
108,855.83	26.8988611
2,005,556.88	495.5838981
1,339,216.72	330.9276587
2,317,162.36	572.5832895
10,436,327.63	2,578.87
2,559,960.79	632.5800878
960,719.07	237.3988512
1,912,142.71	472.5007534
1,393,564.61	344.3573142
465,936.53	115.1354251
1,282,195.65	316.8374444
388,711.39	96.05267701
977,841.70	241.6299468
8,844,501.08	2,185.52
981,077.29	242.429479
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159,483.47	39.40922318
146,481.35	36.19632913
161,675.90	39.95098389
7,149,734.45	1,766.74
92,996.51	22.97993805
2,362,391.98	583.7597719
162,259.10	40.09509741
4,083,202.35	1,008.98
1,284,801.76	317.4814291
14,551,879.91	3,595.85
88,458.12	21.85847725
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326,621.70	80.70997873
10,367.95	2.561976867
4,813.88	1.189536591
5,129.49	1.267523387
247,740,929.83	61,218.12
57,052,578.33	14,098.00
108,145,454.52	26,723.32
441,498,611.19	109,096.68
1,482,059.52	366.2248819
162,061.01	40.04614744
475,033.50	117.3833339
804,268.29	198.7390222
160,569.22	39.67751946
3,472,791.99	858.1455887
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720,038.58	177.9254081
209,563.85	51.78435598
161,705.54	39.9583093

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325,987.95	80.55337698
326,736.01	80.73822652
323,310.71	79.89181556
13,907.08	3.43651536
135.6331596	0.033515684
327,242.81	80.86346062
62.72167456	0.015498863
645,309.70	159.4594991
713.2530659	0.176248671
2,596,881.36	641.7033592
6,635.37	1.639634723
68,177.48	16.84702241
2,511.35	0.620567964
1,179.87	0.291552122
1,274,039.26	314.8219577
11,109.67	2.74525985
1,297,886.47	320.7147303
14,422,006.47	3,563.76
329,497.56	81.42061908
41,222,752.11	10,186.36
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32,068,895.22	7,924.40
337,080.11	83.2943088
476,087.58	117.6438041
1,471,408.57	363.592976
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322,315.53	79.64590217
13,214.59	3.26539617
10,162,291.94	2,511.16
16,467.27	4.069150813
320,904.54	79.29723771
322,000.36	79.56802209
1,802,066.68	445.3003754
323,478.78	79.93334819
161,806.52	39.98326063
35,853.68	8.859637056
4,579,123.54	1,131.53
3,236.07	0.799651144
5,148,359.28	1,272.19
6,493,959.40	1,604.69
796,308.56	196.7721314
161,624.42	39.93826377



483,037.83	119.3612472
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4,055,275.65	1,002.08
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651,909.97	161.0904628
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449,980.43	111.1925848
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478,070.37	118.1337601
149,892,262.44	37,039.18
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1,287,845.84	318.233638
138,908.02	34.32491919
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196,163.30	48.47300649
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8,318,236.55	2,055.48
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558.6946263	0.138056449
203,832.34	50.36806813
16,982.54	4.196477475
156,686.30	38.71802787
161,181.09	39.82871415
161,208.97	39.83560388
322,626.50	79.7227437
405,877.83	100.2945956
5,562,847.21	1,374.61
167,054.59	41.2800879
486,764.74	120.2821856
190,769.36	47.14013471
191,904.91	47.42073677
161,862.50	39.99709399
71,664.29	17.70863221
160,217,643.02	39,590.64
161,529.09	39.9147073
104,655.12	25.86084245
162,556.10	40.1684883
649,459.81	160.4850148
48,270.28	11.92784645
113,436.14	28.0306798
486,111.06	120.120659
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54,805.86	13.54282187
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161,593.26	39.93056322
161,442.61	39.89333789
159,934.82	39.52075356
646,084.15	159.6508713
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155,012.76	38.30448615
161,843.42	39.99237944
481,123.29	118.8881537
16,904.51	4.177194241
646,583.69	159.7743094
4,653,822.28	1,149.98
489,064.99	120.8505902
161,185.64	39.82983936
161,526.56	39.91408191
645,102.30	159.4082504
155,110.14	38.32854912
645,952.73	159.6183962
319,697.90	78.9990717
1,446,714.26	357.4908796
553,558.43	136.7872663
647,230.76	159.9342033
1,703,467.88	420.9360795
42,191.59	10.42576903
322,736.20	79.74985156
322,696.83	79.74012269
321,735.54	79.50258438
4,404,725.29	1,088.43
321,658.85	79.48363187
160,958.85	39.7737985
3,986,613.33	985.1136068
10,302,356.04	2,545.77
3,372,402.36	833.3387707
976,199.87	241.2242409
348,207.42	86.04392745
133,213.49	32.91777085
3,864,220.07	954.8695742
161,888.52	40.00352351
130,121.78	32.15379157
962,721.59	237.893685
484,893.62	119.819823
2,832,050.73	699.8149763
324,567.03	80.20225971

643,499.03	159.0120724
156,061.78	38.56370654
1,767,015.37	436.6390061
1,290,573.68	318.9077021
6,433,112.73	1,589.66
647,979.38	160.1191911
161,607.87	39.93417325
320,050.96	79.086314
157,467.86	38.91115516
161,929.00	40.01352653
1,457,491.71	360.1540455
323,528.29	79.94558063
162,073.27	40.04917803
323,097.03	79.8390157
320,050.30	79.0861524
323,306.80	79.89085085
1,323,056.37	326.9343479
316,432.10	78.1920755
161,922.91	40.01202315
161,516.26	39.91153619
647,253.31	159.9397756
161,256.42	39.84732898
161,666.39	39.94863392
647,754.14	160.0635341
319,733.70	79.00791701
61,446,147.83	15,183.67
2,741,730.27	677.4963048
17,149.02	4.237615484
807,738.81	199.596608
488,980.16	120.8296287
161,857.61	39.99588602
159,179.43	39.33409366
157,458.09	38.90874175
566,514,925.69	139,988.89
160,843.56	39.74530876
7,762,750.18	1,918.22
161,707.87	39.95888402
321,363.59	79.41067262
321,874,402.22	79,536.90
322,773.06	79.75896124
5,267.52	1.301631956
160,143.81	39.57239671
1,284,074.55	317.3017309
1,363.06	0.336818311
324,098.05	80.08637326
660,269.73	163.1562025
647,020.44	159.8822335

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324,467.88	80.17775974
161,579.18	39.92708465
7,627,420.81	1,884.78
161,418.54	39.88738978
162,566.29	40.17100603
162,320.81	40.11034595
162,593.02	40.17761051
162,305.83	40.10664336
623,888.74	154.166264
325,231.48	80.3664478
161,392.36	39.88092043
1,297,947.98	320.7299317
10,713,384.71	2,647.34
161,431.58	39.89061316
162,411.53	40.13276249
159,451.13	39.40123124
161,502.05	39.90802559
161,956.76	40.02038708
810,069.82	200.1726108
1,282,334.94	316.8718647
1,781,121.75	440.1247706
484,102.52	119.6243389
162,568.19	40.17147421
162,532.80	40.16273072
161,360.71	39.87310006
1,784,725.31	441.0152295
485,502.96	119.9703939
432,248.81	106.8110079
146,621.59	36.23098369
481,410.89	118.9592213
161,750.82	39.9694977
322,615.04	79.71991308
489,323.77	120.9145366
161,778.14	39.97624881
163,137.12	40.31205944
648,303.66	160.1993225
821,668.27	203.0386504
4,461,490.79	1,102.46
483,317.38	119.4303261
17,325,778.73	4,281.29
161,713.77	39.96034395
67,607,419.78	16,706.16
162,774.21	40.22238248
34,747,545.72	8,586.31
46,417,741.34	11,470.07
1,542,259.38	381.1005917

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128,869.63	31.84437938
1,458,111.51	360.3072
1,301,470.79	321.6004366
1,594,731.29	394.0666849
3,260,476.24	805.6812241
1,444,700.52	356.9932724
488,789.71	120.7825668
131,136.47	32.40452772
633,651.10	156.5785976
489,568.10	120.9749117
174,912.48	43.2218146
127,140,790.50	31,417.17
488,732.21	120.7683593
161,834.37	39.99014272
271,792.23	67.16132288
48,120,909.11	11,890.94
1,779,105.81	439.6266189
6,904,779.85	1,706.21
331,609.26	81.94243335
159,126.52	39.32101961
162,205.34	40.08181232
823,621.58	203.521325
166,315.72	41.09751009
157,740.04	38.97841363
163,473.04	40.39506783
260,019.44	64.25220356
404,052.21	99.84347591
160,086.80	39.55830985
801,465.79	198.0465101
164,982.46	40.76805275
162,472.31	40.14778265
638,437.38	157.7613129
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5,449,850.48	1,346.69
1,485,525.26	367.0812858
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486,376.62	120.1862814
17,498,160.05	4,323.89
323,147.12	79.85139223
323,068.42	79.83194579
1,843,673.69	455.5816912
21,177,153.75	5,232.99
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769,194.65	190.0721363
85,550,261.57	21,139.93

35,343,573.21	8,733.59
12,058.03	2.979604801
2,215,428.46	547.4442954
321,842.27	79.52895648
1,641,421.75	405.6041478
644,000.23	159.1359225
41,459,675.89	10,244.91
833,139.37	205.8732209
194,739.18	48.12109955
7,146,849.50	1,766.02
26,777.34	6.616823585
4,356.98	1.07663386
73,960.74	18.27609785
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2,545,316.52	628.9614099
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56,787.56	14.03251233
808,705.59	199.8355039
82,327.61	20.34359498
60,527.82	14.95674934
301,244.01	74.43901721
582,025.38	143.8216027
469,797.68	116.0895361
95,714.87	23.65165878
20,220.32	4.996549399
24,980,926.18	6,172.92
323,573.26	79.95669309
60,662.28	14.98997531
128,949.03	31.86399998
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17,093.89	4.223991882
1,294,330.49	319.8360292
1,337.39	0.330476663
162,967.44	40.27013096
587,574.68	145.1928658
195,499.89	48.30907591
82,723.97	20.44153743
16,553.81	4.090535789
646,521.60	159.7589663
620,036.15	153.2142692
4,429,370.58	1,094.52
10,658,082.96	2,633.67
638,191.13	157.7004626

16,933,140.71	4,184.27
174,853,696.73	43,207.29
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159,861.54	39.50264719
243,613.80	60.19828182
1,440,392.04	355.9286242
160,032.70	39.5449406
646,563.32	159.7692767
33,200.47	8.204013767
29,983.36	7.409050694
76,840,144.18	18,987.61
20,179.10	4.986364729
2,289,923.94	565.8525298
812,111.23	200.6770551
10,794,823.16	2,667.46
2,114,142.75	522.41605
17,078,581.12	4,220.21
795,616.35	196.6010819
579,425.99	143.1792809
647,144.93	159.9129938
3,354,147.88	828.8279902
59,467,144.54	14,694.65
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1,034,530.04	255.6379397
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5,829,991.56	1,440.62
17,933,100.36	4,431.37
79,608.65	19.67172701
654,269.53	161.6735228
3,465,515.21	856.3474577
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1,889,640.14	466.9402486
216,348.24	53.46081358
850,839.93	210.2471247
160,113.14	39.56481817
213,714.58	52.81002199
1,073,258.34	265.2079121
2,310,844.96	571.022226
161,161.68	39.82391879
784,382.10	193.8250375
12,637,777.74	3,122.86
614,845.45	151.9316193
625,368.31	154.5318742
648,176.74	160.1679606

274,564.33	67.84632315
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161,608.14	39.93424035
561,483.27	138.7455378
162,369.14	40.12228777
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682,743.66	168.7096336
42,695.12	10.55019308
321,934.35	79.55170938
1,289,976.14	318.7600469
2,371,422.62	585.9912923
1,907,067.00	471.2465178
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646,674.24	159.7966847
644,464.96	159.2507592
163,107.17	40.3046604
161,043.05	39.79460541
650,238.24	160.6773676
652,057.52	161.1269222
159,672.32	39.45588991
619,847.52	153.1676579
4,102,241.38	1,013.69
952.9173661	0.235471009
485,573.90	119.9879228
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63,547.46	15.70291984
320,335.48	79.15662213
1,236,213.22	305.4749394
654,026.69	161.6135147
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155,905.43	38.52507169
636,581.72	157.3027687
3,566,865.59	881.3916816
161,319.88	39.86300997
160,471.37	39.65333797
161,804.65	39.98279986
161,229.48	39.84067137
677,356.09	167.3783352
324,708.90	80.23731741
60,346,574.30	14,911.96
5,947,198.23	1,469.58
42,595.58	10.52559748
28,437,922.70	7,027.16
1,782,429.49	440.4479179
548,136.42	135.4474588



972,200.50	240.2359764
161,332.47	39.86612108
1,289,785.85	318.713024
1,612,644.10	398.4930364
161,917.32	40.01064176
436,824.19	107.9416078
1,292,386.18	319.3555802
6,796,568.03	1,679.47
637,596.11	157.5534296
159,907.56	39.51401946
649,538.43	160.5044408
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60,375,830.75	14,919.19
158,292.61	39.11495611
653,398.73	161.4583418
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162,036.49	40.04008748
161,603.67	39.93313596
1,309,228.13	323.5173158
1,496,104.91	369.6955755
301,909.54	74.6034715
1,111,801.96	274.7322476
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384,672.99	95.05476532
334,376.62	82.62626285
308,956.31	76.34476591
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308,781.86	76.30165892
147,731.17	36.50516799
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649,921.95	160.5992111
26,458,049.34	6,537.93
162,056.13	40.04494088
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161,865.76	39.9979015
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252,119.86	62.30017522
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160,010.64	39.53949031
1,297,671.56	320.6616259
367,240.06	90.74699434

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975,399.56	241.0264794
201,431.22	49.77473782
317,986.42	78.57615659
486,716.10	120.270168
1,777,589.78	439.2519997
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810,326.69	200.2360871
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933,782.73	230.7427366
427,289.59	105.5855577
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135,611.78	33.51040018
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330,779.08	81.73729016
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22,362.05	5.525783348
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47,455.69	11.72655683
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123,973.42	30.63449842
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137,426.36	33.95879213
183,474.73	45.33759413
320,733.89	79.25506926
147,424.47	36.42937935
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388,300.19	95.95106568
668,015.39	165.0701985
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483,510.31	119.4779997
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92,269.00	22.80016725
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160,449.01	39.64781262
160,704.90	39.71104499
158,769.55	39.23281052
162,164.42	40.07170145
160,113.73	39.56496329
159,432.83	39.39671047
158,352.40	39.12973109
28,449.43	7.030006635
3,189,820.05	788.2217014
160,463.84	39.65147733
160,807.82	39.73647882
2,803,191.34	692.6836659
161,187.77	39.83036587
159,470.48	39.40601342
158,311.59	39.11964535
2,570,621.45	635.2143938
161,824.91	39.98780548
159,440.28	39.39855038

162,007.43	40.03290794
162,851.92	40.24158513
324,716.82	80.23927286
85,971.24	21.24395546
2,463,138.40	608.6547536
157,949.00	39.03004736
165,565.81	40.9122021
2,105,678.78	520.324557
323,213.36	79.86776029
161,695.14	39.95573947
161,643.94	39.94308657
161,593.28	39.93056838
161,673.91	39.95049291
323,126.32	79.84625304
161,570.46	39.92492904
99,341.93	24.547926
782,593.26	193.3830053
161,392.05	39.88084463
226,852.35	56.05643648
318,635.33	78.736505
2,579,050.26	637.2971978
579,136.98	143.1078641
161,915.20	40.01011837
1,933,113.35	477.6827127
77,969.56	19.26669713
236,091.16	58.33939532
2,762,566.37	682.6450161
2,589,755.84	639.9426051
2,577,663.05	636.9544115
173,372.85	42.84136532
2,626,310.75	648.9755192
437,602.34	108.1338936
675,311.91	166.8732077
2,575,504.42	636.4210033
324,011.29	80.06493411
62,236.02	15.37885482
2,611,667.50	645.3570938
2,100,148.54	518.9580066
2,578,704.87	637.2118503
160,999.42	39.78382266
398,349.70	98.43435523
2,405,352.00	594.375424
2,592,282.59	640.5669787
2,586,591.85	639.1607664
1,929,637.42	476.8237896
2,595,943.14	641.4715188
2,612,410.09	645.5405917

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162,530.37	40.16212903
1,291,613.03	319.164531
2,583,034.43	638.2817088
2,594,318.01	641.0699426
202,929.17	50.14488917
807,104.37	199.4398322
162,490.46	40.1522683
161,736.47	39.96595248
2,595,638.23	641.3961749
1,140,074.14	281.718454
162,688.41	40.20118268
423,285.90	104.5962228
2,781,366.82	687.2907103
769,413.37	190.1261833
5,804,562.81	1,434.34
1,956,714.82	483.5147628
2,434,092.72	601.4774113
2,584,376.01	638.613219
1,914,155.97	472.9982401
1,775,209.27	438.6637645
2,555,650.20	631.5149165
1,609,208.20	397.6440064
1,276,060.23	315.3213489
1,792,288.63	442.8841651
2,573,945.44	636.0357706
1,291,567.32	319.1532358
3,798,038.64	938.515787
1,328,836.79	328.3627222
373,178.93	92.21452094
305,218.24	75.42107036
28,135.22	6.952365343
8,950,413.86	2,211.70
2,072,792.38	512.1981519
2,220.76	0.548761061
2,572,930.31	635.7849256
47,809.49	11.81398202
16,459.73	4.067286783
10.04507283	0.002482192
63,165.20	15.60846095
210,612,196.93	52,043.41
161,683.94	39.95297171
22,753.19	5.622435485
161,639.14	39.94190153
323,742.77	79.99857951
161,827.66	39.98848598
1,971,386.03	487.1400961



479,739.98	118.5463312
32,240.82	7.966881113
48,930.81	12.09106703
38,212.74	9.442572535
4,472.45	1.105165977
1,593.39	0.393735716
98,647.69	24.37637469
9,149,111.37	2,260.79
73,882,056.29	18,256.65
14,300.94	3.533838797
311,939,678.12	77,081.97
7,264.13	1.795004799
42,938.86	10.6104222
28,135.39	6.952406115
161,484.41	39.90366676
13,051.20	3.225021152
161,500.81	39.90771894
21,639.26	5.347177763
50,986.02	12.59892015
2,061.63	0.509440768
898.3017689	0.221975201
1,162.62	0.287288766
53,532.51	13.22817247
171,390.69	42.3515617
7,040.13	1.739655224
47,381.49	11.70822194
7,435.80	1.837426369
235,678.45	58.23741236
797,299.94	197.0171061
737,406.16	182.2170306
7,373.64	1.822064932
251,096.72	62.04735019
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37.47429176	0.009260099
85,656.78	21.16625057
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25,299.85	6.251729444
51,146.02	12.63845614
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2,336.31	0.577314418
4,037,389.02	997.6605538
108,069.80	26.70462874
161,760.94	39.972
811,627.31	200.5574757
89,779.62	22.18502716
42,127.28	10.40987674

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40,141.27	9.919124099
8,342.86	2.061566205
2,306.48	0.569942386
5,006,517.26	1,237.14
328,375.16	81.14326798
19,454.35	4.807273424
11,859.00	2.930422228
32,768.12	8.097179475
480,314.34	118.6882582
1,747.19	0.43173984
655,325.47	161.9344505
206,108.04	50.93040673
290,004.94	71.66178178
2,300.39	0.568438772
54,349.90	13.43015253
1,108,868.87	274.0074657
41.38865619	0.01022736
329.09672	0.081321571
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18,853,306.78	4,658.75
721,421.75	178.2671969
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956,809.68	236.43282
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236,768.70	58.50682069
527,688.51	130.3946712
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1.249700436	0.000308808
10.3802143	0.002565007
1.083919131	0.000267842
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152,907,481.04	37,784.26
0.0002514	6.21223E-08
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1,128,585.48	278.8795448
42,912.04	10.60379626
409,527.27	101.1963916
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1,287,259.70	318.0887995
29,614,357.50	7,317.87
807,781.27	199.6070999
808,069.59	199.6783446
348,007.81	85.99460339
1,331,369.85	328.9886554

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306,647.85	75.77433469
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649,614.63	160.5232706
161,166.30	39.82506061
5,251,858.26	1,297.76
1,089,147.75	269.1342705
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2,916,452.69	720.6711543
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163,107.94	40.30484926
323,013.46	79.8183647
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804,984.23	198.9159347
163,009.31	40.28047773
162,569.01	40.17167842
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7,390,360.64	1,826.20
566,474.32	139.9788531
2,122,523.43	524.486962
162,428.41	40.13693423
1,292,774.81	319.4516123
1,290,423.82	318.87067
521,923.50	128.9701067
1,137,790.52	281.1541601
1,291,206.35	319.0640365
323,333.62	79.89747856
160,815.54	39.73838613
2,287,901.74	565.3528312
2,596,016.62	641.4896761
5,652,482.67	1,396.76
634,601.59	156.8134691
7,930,443.53	1,959.66
978,475.52	241.7865666
1,283,911.73	317.2614975
158,297.50	39.11616422
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5,076,252.87	1,254.37

160,265.17	39.60238602
7,667,716.29	1,894.73
873,529.50	215.8538392
644,406.29	159.2362629
22,742,550.75	5,619.81
250,469.35	61.89232461
14,112,540.71	3,487.28
22,116,384.37	5,465.08
641,873.90	158.610494
7,381,524.29	1,824.01
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637,643.01	157.5650181
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2,572,229.52	635.6117562
23,406,731.14	5,783.93
82,493,013.29	20,384.47
2,160,979.73	533.9897199
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2,592,986.26	640.7408582
2,586,749.18	639.1996423
2,587,493.26	639.3835098
2,591,383.25	640.344746
2,597,025.94	641.7390844
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2,076,891.39	513.2110387
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2,588,620.71	639.662107
2,587,846.62	639.4708272
1,297,563.59	320.6349465
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2,592,768.89	640.6871444
323,918.37	80.04197159
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2,591,913.12	640.4756804

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2,587,630.81	639.4174972
2,540,738.80	627.8302314
2,582,031.67	638.0339205
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806,957.58	199.4035614
158,263.08	39.10765993
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2,628,319.33	649.4718503
197.7096746	0.048855125
160,691.28	39.70767933
159,881.50	39.50757811
159,043.06	39.30039525
1,890,716.61	467.2062489
2,409,474.07	595.3940092
2,575,945.09	636.5298944
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320,400.88	79.17278159
2,618,101.70	646.9470187
160,435.86	39.64456549
958,943.40	236.960075
525,386.67	129.8258727
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483,147.90	119.3884472
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2,559,757.69	632.5299007
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96,731.67	23.9029164
462,818.49	114.3649396
41,225.74	10.18710204
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383,934.79	94.87235303
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401,690.65	99.259921
481,832.13	119.0633116
395,043.44	97.6173611
938,954.79	232.0207818
16,930.10	4.183517629
23,515.21	5.810734195
27,980.54	6.914141091

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142,542.98	35.22313665
163,183.79	40.32359381
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279,429.22	69.04846277
31,883.13	7.87849366
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483,577.23	119.494536
161,239.25	39.84308739
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965,017.33	238.4609762
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336,378,183.60	83,120.86
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19,543.46	4.8292946
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323,222.02	79.86990091
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37,767.92	9.332657194
973,224.72	240.4890666
425,265.72	105.0854481
328,732.26	81.23150974
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659,119.72	162.8720304
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660,841.90	163.2975909
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644,965.58	159.3744658
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8,368,629.92	2,067.93
8,567,121.99	2,116.98
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1,299,431.26	321.0964575
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599.624642	0.148170476
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323,606.73	79.96496478
645,023.18	159.3886978
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10,505,276.53	2,595.91
1,291,302.67	319.0878387
1,137,543.01	281.0929993
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1,322,993.43	326.9187961
5,664,196.78	1,399.65
323,615.76	79.96719551

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47,669.14	11.77930201
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323,404.75	79.91505341
257,410,765.48	63,607.59
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41,808,298.61	10,331.06
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2,266,551.30	560.0770243
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1,314,254.55	324.7593721
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506,624.81	125.1897175
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243,252.13	60.10890929
292,688.27	72.32484669
290,174.90	71.70377885
139,983.94	34.59078549
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29,759.90	7.35383134
119,968.17	29.64478109
306,548.72	75.74983874
4,233,289.79	1,046.07
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3,323.81	0.821330782
3,909,813.57	966.1359726
160,757.37	39.7240108
2,573,095.80	635.8258198
1,262,596.07	311.9942842
2,539,938,690.93	627,632.52
38,468.52	9.505779185
39,728.80	9.817201321
163,922.97	40.5062486
415,891,877.15	102,769.12
638,940.79	157.8857078
698,597.17	172.6271199

1,982.63	0.489918071
33,772.18	8.345288149
319,272.65	78.89398889
2,591,897.21	640.4717485
81,017.31	20.01981396
2,924,687.14	722.7059309
8,107,697.55	2,003.46
2,592,291.46	640.5691708
5,198,404.34	1,284.55
10,101,059.95	2,496.03
2,600,530.19	642.6050048
1,987,222.13	491.0532817
2,583,553.99	638.4100939
5,747,103.63	1,420.14
207,209.03	51.20246608
67,390.32	16.65251044
968,013.83	239.2014268
2,584,246.27	638.581161
1,942,760.46	480.0665641
38,296.77	9.463338223
2,587,462.29	639.3758571
20,717,521.89	5,119.41
109,281.97	27.00416207
161,642.31	39.94268387
485,773.29	120.0371937
163,158.21	40.31727181
5,534,096.63	1,367.51
44,536,833.77	11,005.29
26.72476238	0.006603833
24,643,744.11	6,089.60
1,516,998.14	374.8584032
48,252,088.20	11,923.35
322,249.90	79.62968357
9,146,632.80	2,260.18
14,827,684.78	3,664.00
327,592.55	80.94988128
1,292,280.99	319.3295865
1,275,179.61	315.1037445
3,612.25	0.892606954
141,563.16	34.98101913
3,227,758.93	797.5966027
1,175,507.51	290.4742314
1,967,444.91	486.166224
995,961.92	246.1075505
1,290,993.66	319.0114819
648,606.71	160.2742084
1,540,852.96	380.7530576

646,843.88	159.8386047
1,462,367.11	361.3587823
1,130,173.68	279.2719972
7,018,062.14	1,734.20
1,264,986.90	312.5850692
1,159,123.45	286.425643
645,426.82	159.4884412
1,438,825.84	355.5416083
132,626.66	32.77276219
713,935.28	176.4172488
808,030.37	199.668654
500,456.56	123.6655086
18,864,066.77	4,661.41
111,830,384.11	27,633.89
151,238.07	37.37174136
563,885.17	139.3390595
2,585,816.04	638.969058
2,591,508.33	640.3756537
2,583,086.97	638.2946915
2,600,488.01	642.5945812
2,585,510.01	638.893437
2,587,361.94	639.3510599
2,584,926.92	638.749352
2,590,065.00	640.0189987
2,596,729.47	641.6658265
2,539,489.21	627.5214509
100,699.05	24.8832774
2,588,530.23	639.6397505
12,550.10	3.101196065
2,602,270.62	643.0350753
2,597,530.27	641.8637088
49,191.56	12.1555
2,594,311.72	641.0683878
2,590,387.48	640.0986859
41,037,085.73	10,140.48
2,591,014.22	640.2535564
2,586,167.65	639.0559445
2,592,545.30	640.6318957
2,619,008.79	647.1711652
2,587,135.73	639.2951612
378,963.57	93.64393837
2,591,479.42	640.3685116
237,405.44	58.66416167
2,586,754.53	639.2009642
2,599,725.73	642.4062191
2,592,000.51	640.4972757
2,328,477.45	575.3793095

26,153.02	6.462553137
2,578,378.66	637.1312413
2,584,245.94	638.5810785
2,575,518.91	636.4245834
505,598.46	124.9360997
292,379.25	72.24848698
2,571,338.64	635.3916156
160,840.84	39.74463759
161,843.49	39.99239669
162,250.29	40.0929196
2,616,528.41	646.5582517
162,339.88	40.115059
162,232.98	40.0886422
2,268,015.75	560.4388977
195,112.98	48.21346636
162,422.74	40.13553272
1,135,178.04	280.5086023
15,318.91	3.78538417
803,265.76	198.4912909
1,344,398.44	332.2080898
2,842,104.59	702.2993394
567,158.94	140.148025
2,589,718.58	639.9333988
161,264.49	39.84932406
58,904.67	14.55565972
160,850.07	39.74691886
162,654.62	40.19283312
143,394.14	35.43346283
321,894.60	79.54188689
2,429,829.71	600.4239965
162,247.07	40.09212362
157,836.52	39.00225383
161,264.54	39.84933554
161,306.18	39.85962586
2,249,058.73	555.7545145
322,782.93	79.76139942
470,264.66	116.204927
5,290,872.37	1,307.40
1,039,474.58	256.8597631
16,113,126.89	3,981.64
2,703,695.08	668.0976053
319,682.67	78.99530812
2,591,232.86	640.3075851
160,167.68	39.57829487
893,345.63	220.7505137
162,132.16	40.06372823
909,676.08	224.7858557

163,356.10	40.36617137
2,312,448.80	571.4185434
150,995.34	37.3117604
407.9901058	0.100816551
3,150,220.24	778.4363738

## Air quality and climate change

Air resources include air quality, air quality related values (AQRV's), and climate change. As part of planning and decision making process, BLM considers and analyzes the potential effects of BLM and BLM authorized activities on air resources.

The US Environmental protection agency (EPA) has the primary responsibility for regulating air quality, including seven criteria air pollutants subject to National Ambient Air Quality standards (NAAQS). Pollutants regulated under NAAQS include carbon monoxide (CO), lead, nitrogen dioxide (NO<sub>2</sub>), ozone, particulate matter with a diameter less than or equal to 10 microns (PM<sub>10</sub>), particulate matter with a diameter less than or equal to 2.5 microns (PM 2.5), and sulfur dioxide (SO<sub>2</sub>). Two additional pollutants, nitrogen oxides (NO<sub>x</sub>) and volatile organic compounds (VOCs), are regulated because they form ozone in the atmosphere. Air quality is determined by pollutant emissions and emission characteristics, atmospheric chemistry, dispersion meteorology, and terrain. AQRVs include effects on soil and water, such as sulfur and nitrogen deposition and lake acidification, and aesthetic effects, such as visibility.

In addition to EPA federal regulations, air quality is also regulated by the Idaho Department of Environmental Quality (IDEQ), Air Quality Division. This agency develops state-specific regulations and issues air quality permits to emission sources.

Climate is the composite of generally prevailing weather conditions of a particular region through the year, averaged over a series of years. Climate change includes both historic and predicted climate shifts that are beyond normal weather variations.

## Indicators

### Air Quality

- Identification of and trends for air quality nonattainment and maintenance areas for NAAQS with emphasis placed on particulate matter, based on information and data on the IDEQ and EPA websites.
- Identification of mandatory Class I areas within 66 miles (100 kilometers) of the planning area and any known visibility trends based on data from the Interagency Monitoring of Protected Visual Environments (IMPROVE) website.

### Climate Change

- Long term annual and seasonal temperature averages and trends within the planning area based on data from **WestMap**
- Long term annual and seasonal precipitation trends within the planning area based on data from WestMap
- Climate change projects from the Pacific Northwest (Oregon, Washington, Idaho, and Montana)
- Greenhouse gas sources and trends for the United States and Oregon

## Existing Conditions

Conditions of the planning area

Air Quality

Human Health. EPA classifies area of the US according to whether they meet the NAAQS. Areas that violate air quality standards are designated as nonattainment areas for the relevant criteria air pollutants. Areas that comply with air quality standards are designated as attainment areas for the relevant criteria air pollutants. Areas that have been reclassified from nonattainment to attainment are considered maintenance areas. The majority of the planning area is in attainment for all of the NAAQS. **Add Areas of non attainment**

The Air Quality Index (AQI) is an EPA health index that normalizes the various air pollutants in order to report one health level. The AQI is reported on a scale of 0 to 300, with 0-50 indicating good air quality; 51-100 indicating moderate air quality; 101-150 indicating air quality unhealthy for sensitive groups; 151-200 indicating unhealthy air quality; and 201-300 indicating very unhealthy air quality. IDEQ publishes annual data summaries of Idaho’s air quality that describe the AQI for all areas where air quality is monitored. The AQI is computed using the 24-hour average for PM 2.5 and the eight hour average for ozone. Table \_\_\_ describes the AQI for key cities within the planning area for the last three years.

Table 1. AQI Index Values in Planning Area 2009-2011

Monitoring location	Total days in period	# Days rated Good	% Days rated Good	# Days Rated Moderate	# Days Rated Unhealthy for Sensitive Groups	# Days Rated Unhealthy	# Days Rated Very unhealthy

Visibility and Regional Haze. There are **no** mandatory Class I areas on BLM administered lands in the planning area; all designated wilderness areas on BLM administered lands **are** Class II. Mandatory Class I areas within the planning area or within approximately 66 miles (100 kilometers) of the planning area include the following: **(list and location in relation to the project area)**

Deciview is an index used to estimate visibility, an important air quality related value in mandatory Class I area and a measure of regional haze. Table \_\_\_ shows the average deciviews for four IMPROVE sites in or near the planning area. As shown in this table, visibility is best on \_\_\_ and worst on \_\_\_.



Table 2. Average deciviews at monitoring sites during bthe best air quality days, median days, and worst days.

Monitoring Location	Best Days	Median Days	Worst Days

### Climate Change

Climate change is defined by the Intergovernmental Panel on Climate Change (IPCC) as ‘a change in the state of the climate that can be identified (e.g. using statistical tests) by changes in the mean and/or the variability of its properties, and persist for an extended period, typically decades or longer. It refers to any change in climate over time whether due to natural variability or as a result of human activity’ (IpCC 2007). Climate change is generally described on a global, national, or regional scale (state of multi state), while greenhouse gas emissions in the US are generally reported on a national or statewide scale.

Climate change is manifested in several ways, of which the most commonly analyzed are precipitation, temperature, and snowpack. Temperature and precipitation data for the planning area were retrieved from WestMap, a climate analysis and tracking tool that uses hydrologic basins as the mapping unit.

The primary hydrologic basins in the planning area include the following:

- List and details of climate data by hydrologic basin

### Greenhouse Gas Emissions

There are six greenhouse gases tracked by the IPCC, carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydroflourocarbons (HFCs), perflourocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>) (State Department 2010). HFCs, PFCs, and SF<sub>6</sub> are also known as high global warming potential (HGWP) due to their warming effectiveness (140 to 23,900 times CO<sub>2</sub> depending on the compound) and their essential permanence in the atmosphere (3,000+ years) (State Department 2010, EPA 2012). CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O have both natural and human generated sources, while HGWP gases are strictly human generated from various industrial processes. Greenhouse gas emissions are tracked as carbon dioxide equivalents (CO<sub>2</sub>e) with one gram of CO<sub>2</sub> molecule counting as one and other molecules some multiple. Emissions are usually reported in teragrams (Tg) or million metric tonnes (mmt), which are equivalent measures (EPA 2012).

In the US, EPA tracks and reports greenhouse gas emissions; the Department of State also reports emissions. In Idaho, who tracks and reports greenhouse gases?

Greenhouse gas emissions in the United States and in Idaho are similar in terms of percentages and in the main sources of the different gases. Idaho’s greenhouse gases have remained about 1 percent of the US emissions from 1990-2010. Carbon dioxide is the primary greenhouse gas, comprising 83 to 85 percent of total emissions in the US and in Idaho, with fossil fuel combustion for energy the primary sources of CO<sub>2</sub>. Methane production accounts for 7 to 10 percent of greenhouse gas emissions. In the US, the primary source is natural gas systems, while

in Idaho the primary source is enteric fermentation from domestic livestock. Nitrous oxide production accounts for 4 to 6 percent of the total emissions, slightly more in Idaho than in the US with agricultural soil management the primary sources.

The HGWP gas comprises 1 to 3 percent of total emissions, more in Oregon than in the US. The primary sources of HFCs are the production of substitutes for ozone-depleting compounds, while aluminum production and semiconductor manufacturing are the primary sources of PFCs and electricity transmission and distribution are the primary sources of SF6.

The EPA also estimates greenhouse gas sinks arising from land use, land use changes, and forestry. These sinks effectively reduce total greenhouse gas emissions by 15 to 16 percent nationally (EPA 2012). The proportion in Idaho may be somewhat higher due to the productivity of Idaho forests.

Conditions on BLM administered lands

Air Quality

Air quality conditions on BLM administered lands are generally as described for the planning area.

Climate Change and Greenhouse Gas emissions

Climate change and greenhouse gas emissions on BLM generally as described for the planning area. Sources of greenhouse gas emissions on BLM administered lands in the planning area include:

Trends

Air Quality

Human Health. There are no clear long term trends in particulate emissions or the number of unhealthy days in the planning area; the lack of trends maybe due to a number of factors. There are no trends in the number of wildfires or acres burned or in the prescribed burning programs of BLM districts; there are also no documented trends in the other particulate emitting sectors. The recent downturn in the economy may have resulted in temporary or permanent changes in the number or types of particulate emitters. The 2010 Clean Air status and trends network (CASTNET) report indicates that 2009 was the lowest year on the 15 year recorded for several criteria pollutants, with increases in 2010 (AMEC 2012). That trend would be consistent with the recent downturn and slow recovery. In the western states as a whole, mean annual sulfur dioxide and particulate sulfur concentrations, total nitrate levels, total nitrogen deposition, and ozone concentrations have declined between 1996 and 2010 (Hand et al 2011, AMEC 2012).

Visibility and Regional Haze

Deciviews (summary)

Climate Change

Observed Trends

Certain precipitation, temperature, and snowfall trends within the planning area are similar, while others differ. The reasons for the observed differences are not clear. In the Oregon closed basins, precipitation has increased annually and in all four seasons, with the greatest seasonal increase in spring. Temperatures are also increasing, with greater increases in minimum temperature in winter and summer, consistent with observed national and global trends. Even temperatures are warming, above a threshold elevation that varies by mountain range; temperatures are still cold enough for winter precipitation to fall as snow. The combination of warmer temperatures and increased water vapor means that either more snow, snow with a higher moisture content, or some combination of these two factors will occur.

**Table 3. Observed annual and seasonal trends in precipitation and temperature in the planning area**

Factor	Annual	Winter	Spring	Summer	Fall
Precipitation					
Annual Temp					
Max Temp					
Min Temp					

### Projections

Karl et al 2009 summarize the observed trends and projections in climate for the United States, with an updated report due in 2013. In the United States, average temperature has risen 2 degrees F in the last 50 years, compared to the 1961-1979 baseline, and is projected to increase by 2 to 3 degrees F by the 2020s. Precipitation has increased by 5 percent in the last 50 years. Summers are expected to become drier over most of the United States, and winters are expected to become wetter. Spring is expected to become drier in the southern tier of states. The amount of rain falling in the heaviest storms has increased by 20 percent. This trend is expected to continue, with the greatest increase in the wettest places. In contrast, the amount of rain falling in the lightest storms has decreased, with the trend expected to continue. Extreme weather events such as heat waves and drought have become more frequent and more intense. Heat event frequency is expected to increase from 1 every 20 years to 1 every 2 to 3 years, with the number of days above 90 degrees F increasing as well. Snowpack is expected to decrease, especially in the western US. Cold season storm tracks should continue to shift northward, and the strongest winter storms are expected to become stronger and more frequent.

For the Pacific Northwest (Oregon, Washington, Idaho, and western Montana) the projections are somewhat different than for the US as a whole (Mote and Salathe 2010). Most climate models tend to over predict precipitation as compared to observed means in the Pacific Northwest, so must be corrected in any projections. In the Pacific Northwest, temperatures are expected to increase by about 1 to 3 degrees by the 2020s, 1.5 to 5 by mid-century, and 3 to 10 by the end of the century. The greatest warming is expected in summer, and least is expected in spring. Annual precipitation is expected to change little, but summers should become drier and all other seasons possibly wetter. As with the US as a whole and globally, the frequency of extreme precipitation events, heat waves, and droughts are expected to increase, and snowpack is expected to decrease.

### Greenhouse Gas Emissions

Between 1990 and 2010, total us greenhouse gas emissions increased by 10.5 percent, averaging 0.5 percent per year (EPA 2012). Carbon dioxide emissions, particularly those associated with energy production and use, are the dominant factor in US trends. Emissions from fossil fuel combustion increased by 13.7 percent between 1990 and 2010, and increased by 3.5 percent between 2009 and 2010. Emissions tend to decline during economic slowdowns and increase during economic recoveries. Emissions in Idaho followed similar trends as the US as a whole. The State Department (2010) projected greenhouse gas emissions for 2015 and 2020 based on data through 2007. Carbon dioxide emissions are expected to increase only slightly from 2007 levels, although the projected increase is considerably lower than the observed trend. All other emissions are expected to increase as well, with the least increase in methane and the most increase in the HGWP gases.

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**Table XX.** Comprehensive list of special status species, lands where the designation applies, level of analysis, and rationale for level of analysis.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
<b>Mammals</b>					
Northern Idaho Ground Squirrel <i>Spermophilus brunneus brunneus</i>	ESA Threatened	X	X	N	Occurs outside the range of greater sage grouse.
Grizzly Bear <i>Ursus arctos</i>	ESA Threatened	X	X	Y	Uses sagebrush habitat.
Canada Lynx <i>Lynx canadensis</i>	ESA Threatened	X	X	Y	Sagebrush habitat provides connectivity between the primary habitats.
Southern Idaho Ground Squirrel <i>Spermophilus brunneus endemicus</i>	ESA Candidate	X	X	Y	Uses sagebrush habitat.
Gray wolf <i>Canis lupus</i>	BLM & FS Sensitive	X	X	Y	Uses sagebrush habitat.
Pygmy rabbit <i>Brachylagus idahoensis</i>	BLM & FS Sensitive	X	X	Y	Uses sagebrush habitat.
Fringed myotis <i>Myotis thysanodes</i>	BLM Sensitive	X		N	Dependent primarily on cave and water habitat which will not be affected by the proposed action.
California myotis <i>Myotis californicus</i>	BLM Sensitive	X		N	Dependent primarily on cave and water habitat which will not be affected by the proposed action.
Spotted bat <i>Euderma maculatum</i>	BLM Sensitive	X		N	Dependent primarily on cave and water habitat which will not be affected by the proposed action.
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	BLM & FS Sensitive	X	X	N	Dependent primarily on cave and water habitat which will not be affected by the proposed action.
Piute ground squirrel <i>Spermophilus mollis artemisiae</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Fisher <i>Martes pennanti</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Wolverine <i>Gulo gulo luscus</i>	BLM & FS Sensitive	X	X	N	Uses forest and high elevation habitat.
California bighorn sheep <i>Ovis canadensis californiana</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Rocky Mountain bighorn sheep <i>Ovis canadensis</i>	FS Sensitive		X	Y	Uses sagebrush habitat.
Coast mole <i>Scapanus orarius</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Cliff chipmunk <i>Tamias dorsalis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Uinta Chipmunk <i>Tamias umbrinus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Merriam's ground squirrel <i>Spermophilus canus vigilis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Wyoming ground squirrel <i>Spermophilus elegans nevadensis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Little pocket mouse <i>Perognathus longimembris</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Dark kangaroo mouse <i>Microdipodops megacephalus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Northern bog lemming <i>Synaptomys borealis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Kit fox <i>Vulpes velox</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Black-footed ferret <i>Mustela nigripes</i>	FS Sensitive		X	N	Occurs outside the planning area boundary.
<b>Birds</b>					
Whooping crane <i>Grus americana</i>	ESA Endangered		X	N	Dependent on riparian habitat which will not be affected by the proposed action.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Yellow-billed cuckoo <i>Coccyzus americanus</i>	ESA Candidate	X	X	N	Dependent on riparian habitat which will not be affected by the proposed action.
Greater sage grouse <i>Centrocercus urophasianus</i>	ESA Candidate	X	X	Y	Uses sagebrush habitat.
Bald eagle <i>Haliaeetus leucocephalus</i>	BLM & FS Sensitive	X	X	Y	Feeds on carrion found in sagebrush habitat.
Upland sandpiper <i>Bartramia longicauda</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
American white pelican <i>Pelecanus erythrorhynchos</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Harlequin duck <i>Histrionicus histrionicus</i>	BLM & FS Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Trumpeter swan <i>Cygnus buccinator</i>	BLM & FS Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Peregrine falcon <i>Falco peregrinus anatum</i>	BLM & FS Sensitive	X	X	Y	Uses sagebrush habitat.
Prairie falcon <i>Falco mexicanus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Northern goshawk <i>Accipiter gentilis</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Ferruginous hawk <i>Buteo regalis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Columbia sharp-tailed grouse <i>Tympanuchus phasianellus columbianus</i>	BLM & FS Sensitive	X		Y	Uses sagebrush habitat.
Mountain quail <i>Oreotyx pictus</i>	BLM & FS Sensitive	X	X	Y	Uses sagebrush habitat.
Black tern <i>Chlidonias niger</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Flammulated owl <i>Otus flammeolus</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Boreal owl <i>Aegolius funereus</i>	FS Sensitive		X	N	Forest-dependent species.
Calliope hummingbird <i>Stellula calliope</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Lewis woodpecker <i>Melanerpes lewis</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Black-backed woodpecker <i>Picoides arcticus</i>	FS Sensitive		X	N	Forest-dependent species.
Pileated woodpecker <i>Dryocopus pileatus</i>	FS Sensitive		X	N	Forest-dependent species.
Williamson's sapsucker <i>Sphyrapicus throideus</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Willow flycatcher <i>Empidonax traillii</i>	BLM Sensitive	X		N	Dependent on riparian habitat which will not be affected by the proposed action.
Hammond's flycatcher <i>Empidonax hammondii</i>	BLM Sensitive	X		N	Forest-dependent species.
Olive-sided flycatcher <i>Contopus borealis</i>	BLM Sensitive	X		N	Forest-dependent species.
Loggerhead shrike <i>Lanius ludovicianus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Sage sparrow <i>Amphispiza belli</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Brewer's sparrow <i>Spizella breweri</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
White-faced ibis <i>Plegadis chihi</i>	BLM Sensitive	X		N	Dependent on riparian habitat which will not be affected by the proposed action.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Virginia's warbler <i>Vermivora virginiae</i>	BLM Sensitive	X		N	Forest-dependent species.
Black-throated sparrow <i>Amphispiza bilineata</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Black swift <i>Cypseloides niger</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
White-headed woodpecker <i>Picoides albolarvatus</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Common Loon <i>Gavia immer</i>	FS Sensitive		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Three-toed woodpecker <i>Picoides tridactylus</i>	FS Sensitive		X	N	Forest-dependent species.
Downy woodpecker <i>Picoides pubescens</i>	FS Sensitive		X	N	Forest-dependent species.
Hairy woodpecker <i>Picoides villosus</i>	FS Sensitive		X	N	Forest-dependent species.
Northern flicker <i>Colaptes auratus</i>	FS Sensitive		X	N	Forest-dependent species.
Red-naped sapsucker <i>Sphyrapicus nuchalis</i>	FS Sensitive		X	N	Forest-dependent species.
<b>Reptiles</b>					
Mojave black-collared lizard <i>Crotaphytus bicinctores</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Longnose snake <i>Rhinocheilus lecontei</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Western ground snake <i>Sonora semiannulata</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Common garter snake <i>Thamnophis sirtalis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
<b>Amphibians</b>					
Columbia spotted frog – Great Basin population <i>Rana luteiventris</i>	ESA Candidate	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Coeur d'Alene salamander <i>Plethodon idahoensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Idaho giant salamander <i>Dicamptodon aterrimus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Northern leopard frog <i>Rana pipiens</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Western toad <i>Bufo boreas</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Boreal toad – SE ID population <i>Bufo boreas boreas</i>	BLM & FS Sensitive	X	X	N	Prefers high elevation wet habitats.
Woodhouse toad <i>Bufo woodhousii</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
<b>Fish</b>					
White Sturgeon - Kootenai River <i>Acipenser transmontanus</i>	ESA Endangered	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Sockeye Salmon <i>Oncorhynchus nerka</i>	ESA Endangered	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Humpback chub <i>Gila cypha</i>	ESA Endangered		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Razorback sucker <i>Xyrauchen texanus</i>	ESA Endangered		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Colorado pikeminnow <i>Ptychocheilus lucius</i>	ESA Endangered		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.



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		BLM	Forest Service		
Bonytail chub <i>Gila elegans</i>	ESA Endangered		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Chinook Salmon – Snake River spring/summer-run <i>Oncorhynchus tshawytscha</i>	ESA Threatened	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Chinook Salmon – Snake River fall-run <i>Oncorhynchus tshawytscha</i>	ESA Threatened	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Steelhead <i>Oncorhynchus mykiss</i>	ESA Threatened	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bull trout <i>Salvelinus confluentus</i>	ESA Threatened	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Pacific lamprey <i>Lampetra tridentata</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Redband trout <i>Oncorhynchus mykiss gairdneri</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Westslope cutthroat <i>Oncorhynchus clarki lewisi</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Yellowstone cutthroat <i>Oncorhynchus clarki bouvieri</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bonneville cutthroat <i>Oncorhynchus clarki utah</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bear Lake whitefish <i>Prosopium abyssicola</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bonneville whitefish <i>Prosopium spilonotus</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bonneville cisco <i>Prosopium gemmiferum</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
White sturgeon – Snake River above Hells Canyon Dam <i>Acipenser transmontanus</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bear Lake sculpin <i>Cottus extensis</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Shoshone sculpin <i>Cottus greenei</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Wood River sculpin <i>Cottus leiopomus</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Northern leatherside chub <i>Lepidomeda copei</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Burbot <i>Lota lota</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Big Lost River whitefish <i>Prosopium williamsoni</i>	FS Sensitive		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
<b>Invertebrates</b>					
Bliss Rapids snail <i>Taylorconcha serpenticola</i>	ESA Threatened	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Idaho springsnail <i>Pyrgulopsis idahoensis</i>		X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Banbury Springs limpet <i>Lanx spp.</i>	ESA Endangered	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Snake River physa snail <i>Physa natricina</i>	ESA Endangered	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bruneau hot springsnail <i>Pyrgulopsis bruneauensis</i>	ESA Endangered	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Utah valvata snail <i>Valvata utahensis</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.



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Shortface lanx <i>Fisherola nuttalli</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Marbled disc <i>Discus marmorensis</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action, and occurs outside the range of greater sage grouse.
Mission Creek Oregonian <i>Cryptomastix magnidentata</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action, and occurs outside the range of greater sage grouse.
Striate mountainsnail <i>Oreohelix strigosa goniogyra</i>	BLM Sensitive	X		N	Occurs outside the range of the greater sage grouse.
Idaho banded mountainsnail <i>Oreohelix idahoensis idahoensis</i>	BLM Sensitive	X		N	Occurs outside the range of the greater sage grouse.
Lava rock mountainsnail <i>Oreohelix waltoni</i>	BLM Sensitive	X		N	Occurs outside the range of the greater sage grouse.
Whorled mountainsnail <i>Oreohelix vortex</i>	BLM Sensitive	X		N	Occurs outside the range of the greater sage grouse.
Boulder pile mountainsnail <i>Oreohelix jugalis</i>		X		N	Occurs outside the range of the greater sage grouse.
Idaho point-headed grasshopper <i>Acrolophitus pulchellus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
St. Anthony sand dunes tiger beetle <i>Cicindela arenicola</i>	BLM Sensitive	X	X	Y	Uses sagebrush habitat.
Columbia River tiger beetle <i>Cicindela columbica</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Bruneau Dunes tiger beetle <i>Cicindela waynei waynei</i>	BLM Sensitive	X	X	Y	Uses sagebrush habitat.
Blind cave leiodid beetle <i>Glacivicolia bathyscoides</i>	BLM Sensitive	X	X	N	Obligate cave inhabitant.
California floater <i>Anodonta californiensis</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Columbia pebblesnail <i>Flumincola fuscus</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
<b>Plants</b>					
Blowout penstemon <i>Penstemon haydenii</i>	ESA Endangered		X	N	Does not occur within the planning unit.
Water howellia <i>Howellia aquatilis</i>	ESA Threatened	X		N	Occurs outside the range of greater sage grouse.
Macfarlane's Four-O-Clock <i>Mirabilis macfarlanei</i>	ESA Threatened	X		N	Occurs outside the range of greater sage grouse.
Slickspot peppergrass <i>Lepidium papilliferum</i>	ESA Proposed	X	X	Y	Found in sagebrush habitat.
Spalding's Catchfly <i>Silene spaldingii</i>	ESA Threatened	X		N	Occurs outside the range of greater sage grouse.
Ute Ladies'-Tresses <i>Spiranthes diluvialis</i>	ESA Threatened	X	X	N	Found in riparian habitat.
Goose Creek milkvetch <i>Astragalus anserinus</i>	ESA Candidate	X	X	Y	Found in sagebrush habitat.
Packard's milkvetch <i>Astragalus cusickii</i> var. <i>packardiae</i>	ESA Candidate	X		Y	Found in sagebrush habitat.
Whitebark pine <i>Pinus albicaulis</i>	ESA Candidate	X	X	N	High elevation.
Christ's Indian Paintbrush <i>Castilleja christii</i>	ESA Candidate		X	Y	Found in sagebrush habitat.
Aase's onion <i>Allium aaseae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Lemhi milkvetch <i>Astragalus aquilonius</i>	BLM & FS Sensitive	X	X		

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Asotin milkvetch <i>Astragalus asotinensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Starveling milkvetch <i>Astragalus jejunus</i> var. <i>jejunus</i>	BLM & FS Sensitive	X	X		
Mulford's milkvetch <i>Astragalus mulfordiae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Tweedy's reedgrass, Cascade reedgrass <i>Calamagrostis tweedyi</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.
Green-band mariposa lily <i>Calochortus macrocarpus</i> var. <i>maculosus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Broad-fruit mariposa lily <i>Calochortus nitidus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Constance's bittercress <i>Cardamine constancei</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Idaho sedge <i>Carex idaho</i>	BLM Sensitive	X		N	Found in riparian habitat.
Indian Valley sedge <i>Carex parryana</i> var. <i>brevisquama</i> = <i>C. aboriginum</i>	BLM Sensitive	X		N	Found in riparian habitat.
Cusick's false yarrow <i>Chaenactis cusickii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Palouse thistle <i>Cirsium brevifolium</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Idaho hawkbeard <i>Crepis bakeri</i> ssp. <i>idahoensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Welsh's buckwheat <i>Eriogonum capistratum</i> var. <i>welshii</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Hooker's buckwheat <i>Eriogonum hookeri</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Palouse goldenweed <i>Haplopappus liatrifolius</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Sweetgrass <i>Hierochloa odorata</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Simple Kobresia <i>Kobresia simpliciuscula</i>	BLM Sensitive	X			
Packard's desert parsley <i>Lomatium packardiae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Salmon River biscuitroot <i>Lomatium salmoniflorum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Smooth stickleaf <i>Mentzelia mollis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Spacious monkeyflower <i>Mimulus washingtonensis</i> = <i>M. ampliatus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Stalk-leaved monkeyflower <i>Mimulus washingtonensis</i> = <i>M. patulus</i>	BLM Sensitive	X		N	Found in riparian habitat.
Saint Anthony evening-primrose <i>Oenothera psammophila</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Obscure Phacelia <i>Phacelia inconspicua</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Alkali primrose <i>Primula alcalina</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.

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Jessica's aster <i>Symphotrichum jessicae</i> = <i>Aster jessicae</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Woven-spore lichen <i>Texosporium sancti-jacobi</i> = <i>Cyphellium sancti-jacobi</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Rolland's bulrush <i>Trichophorum pumilum</i> = <i>Scirpus rollandii</i>	BLM Sensitive	X		N	Found in riparian habitat.
Douglas's clover <i>Trifolium douglasii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Owyhee clover <i>Trifolium owyheense</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Idaho range lichen <i>Xanthoparmelia idahoensis</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
King's angelica, Great Basin angelica <i>Angelica kingii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Coral lichen <i>Aspicilia rogerii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Challis milkvetch <i>Astragalus amblytropis</i>	BLM Sensitive	X			
Lost River milkvetch <i>Astragalus amnis-amissi</i>	BLM & FS Sensitive	X	X		
Barren milkvetch <i>Astragalus cusickii</i> var. <i>sterilis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Meadow milkvetch <i>Astragalus diversifolius</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Payson's milkvetch <i>Astragalus paysonii</i>	BLM & FS Sensitive	X	X		
King's desert grass <i>Blepharidachne kingii</i>	BLM Sensitive	X			
Blue gramma <i>Bouteloua gracilis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bristly sedge, Longhair sedge <i>Carex comosa</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Western sedge <i>Carex occidentalis</i>	BLM Sensitive	X		N	Found in riparian habitat.
Mahala mat <i>Ceanothus prostratus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Short-spored jelly lichen <i>Collema curtisporum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Case's corydalis <i>Corydalis caseana</i> ssp. <i>hastata</i> = <i>Capnoides hastatum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Uinta Basin cryptantha <i>Cryptantha breviflora</i>	BLM Sensitive	X			
Sepal-tooth dodder <i>Cuscuta denticulata</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Clustered lady's-slipper <i>Cypripedium fasciculatum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Silver-skin lichen <i>Dermatocarpon lorenzianum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Least phacelia, Small-flower phacelia <i>Phacelia minutissima</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.

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Doublet <i>Dimeresia howellii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Harlequin calicoflower, Parti-color Downingia <i>Downingia insignis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Windward's goldenbush <i>Ericameria discoidea</i> var. <i>winwardii</i> = <i>Ericameria winwardii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Great Basin desert buckwheat <i>Eriogonum desertorum</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Railroad Canyon buckwheat <i>Eriogonum soliceps</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Cronquist's forget-me-not <i>Hackelia cronquistii</i> = <i>H. patens</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Owyhee forget-me-not, Owyhee River stickseed <i>Hackelia ophiobia</i>	BLM Sensitive	X		N	Found along canyon rims.
Marsh felwort <i>Lomatogonium rotatum</i>	BLM Sensitive	X			
Pine broomrape <i>Orobanche pinorum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Hall's orthotrichum/moss <i>Orthotrichum hallii</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Lemhi penstemon <i>Penstemon lemhiensis</i> = <i>P. speciosus</i> ssp. <i>lemhiensis</i>	BLM & FS Sensitive	X	X	N	High elevation species.
Goldback fern <i>Pentagramma triangularis</i> ssp. <i>triangularis</i> = <i>Pityrogramma triangularis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Indian apple, Wild Crab apple <i>Peraphyllum ramosissimum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Malheur Yellow Phacelia <i>Phacelia lutea</i> var. <i>calva</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Idaho twinpod, Salmon Twin bladderpod <i>Physaria didymocarpa</i> var. <i>lyrata</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Small-flowered ricegrass <i>Piptatherum micranthum</i> = <i>Oryzopsis micrantha</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Turtleback, Annual Brittlebrush <i>Psathyrotes annua</i> = <i>Bulbostylis annua</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Thinleaf goldenhead <i>Pyrocoma linearis</i> = <i>Haplopappus uniflorus</i> var. <i>howellii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Snake River goldenweed, Radiate goldenweed <i>Pyrocoma radiata</i> = <i>Haplopappus raidatus</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
White grouse pellet lichen <i>Rhizoplaca idahoensis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Least snapdragon <i>Sairocarpus kingie</i>	BLM Sensitive	X			
False mountain willow <i>Salix pseudomonticola</i>	BLM Sensitive	X			

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Canyon sedum <i>Sedum valens</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Western ladies' tresses <i>Spiranthes porrifolia</i> = <i>S. romanzoffiana</i> var. <i>porrifolia</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Purple meadow-rue <i>Thalictrum dasycarpum</i> = <i>T. hypoglaucom</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Wavy-leaf thelypody <i>Thelypodium repandum</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Plumed clover <i>Trifolium plumosum</i> var. <i>amplifolium</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Sierra wood-fern <i>Thelypteris nevadensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Idaho barren strawberry <i>Waldsteinia idahoensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Pink agoseris, Mill Creek agoseris <i>Agoseris lackschewitzii</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Tolmie's onion <i>Allium tolmiei</i> var. <i>persimile</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.
Candystick <i>Allotropa virgata</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.
Two-grooved milkvetch <i>Astragalus bisulcatus</i> var. <i>bisulcatus</i>	BLM Sensitive	X			
Stiff milkvetch, Idaho milkvetch <i>Astragalus conjunctus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Tufted milkvetch, Plains milkvetch <i>Astragalus gilviflorus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Park milkvetch <i>Astragalus leptaleus</i>	BLM & FS Sensitive	X	X		
Least bladderly milkvetch <i>Astragalus microcystis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Piper's milkvetch <i>Astragalus riparius</i>	BLM Sensitive	X		N	Found in riparian habitat.
Deer fern <i>Blechnum spicant</i> = <i>Lomaria spicant</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Cusick's camas <i>Camassia cusickii</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Winged-seed evening primrose <i>Camissonia pterosperma</i> = <i>Oenothera pterosperma</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Henderson's sedge <i>Carex hendersonii</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Pale sedge <i>Carex livida</i>	BLM Sensitive	X		N	Found in riparian habitat.
Foothill sedge, Splitawn sedge <i>Carex tumulicola</i>	BLM Sensitive	X		N	Found in riparian habitat.
Birchleaf mountain-mahogany <i>Cercocarpus montanus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bulb-bearing water hemlock <i>Cicuta bulbifera</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Lanceleaf springbeauty <i>Claytonia multiscapa</i> var. <i>flava</i> = <i>C. lanceolata</i> var. <i>multiscapa</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Tufted cryptantha <i>Cryptantha caespitosa</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Malheur cryptantha <i>Cryptantha propria</i> = <i>Oreocarya propria</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Silky cryptantha <i>Cryptantha sericea</i> = <i>Oreocarya sericea</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Ibapah springparsley <i>Cymopterus ibapensis</i> = <i>Epallageiton ibapensis</i>	BLM Sensitive	X			
Shining flat sedge <i>Cyperus rivularis</i> = <i>C. bipartitus</i>	BLM Sensitive	X		N	Found in riparian habitat.
Pointed draba, Beavertip draba, Rockcress draba <i>Draba globosa</i> = <i>D. apiculata</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
White false tickhead <i>Eatonella nivea</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Swamp willow-herb <i>Epilobium palustre</i>	BLM Sensitive	X			
Rabbitbrush goldenweed, Bloomer's goldenweed <i>Ericameria bloomeri</i> = <i>Haplopappus bloomeri</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Winward's goldenbush <i>Ericameria discoidea</i> var. <i>winwardii</i> = <i>Ericameria winwardii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bee thistle <i>Eryngium articulatum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Cushion cactus/spinystar <i>Escobaria vivipara</i> var. <i>vivipara</i> = <i>Coryphantha vivipara</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Puzzling halimolobos <i>Halimolobos perplexa</i> var. <i>perplexa</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Cooper's rubber-plant <i>Hymenoxys cooperi</i> var. <i>canescens</i> = <i>Actinea canescens</i>	BLM Sensitive	X			
Large Canadian St. John's wort <i>Hypericum majus</i> = <i>H. canadense</i> var. <i>majus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Tweedy's rush <i>Juncus tweedyi</i>	BLM Sensitive	X		N	Found in riparian habitat.
Thick-leaf pepperweed <i>Lepidium integrifolium</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Middle Butte bladderpod <i>Lesquerella obdeltata</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Sacajawea's bitterroot <i>Lewisia sacajaweanana</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Hazel's phlox, Granite phlox <i>Lianthus pungens</i> = <i>Leptodactylon</i> <i>pungens</i> ssp. <i>hazeliae</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.
Inch-high lupine <i>Lupinus uncialis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bank monkey-flower <i>Mimulus clivicola</i> = <i>Eunanus clivicola</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Disappearing monkey-flower <i>Mimulus evanescens</i>	BLM Sensitive	X		N	Found in riparian habitat.
Thin-sepal monkey-flower <i>Mimulus hymenophyllus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Wild timothy, Marsh Muhly <i>Muhlenbergia racemosa</i>	BLM Sensitive	X		N	Found in riparian habitat.
Green needlegrass <i>Nassella viridula = Stipa viridula</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Challis crazyweed <i>Oxytropis besseyi var. salmonensis</i> = <i>O. nana var. salmonensis</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Creeping nailwort <i>Paronychia sessiliflora</i>	BLM Sensitive	X			
Snowball cactus <i>Pediocactus nigrispinus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Short-lobed penstemon <i>Penstemon seorsus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
White spruce <i>Picea glauca = P. Canadensis</i>	BLM Sensitive	X		N	High elevation species.
Waterthread pondweed <i>Potamogeton diversifolius</i>	BLM Sensitive	X		N	Found in aquatic habitat.
Cusick's primrose <i>Primula cusickiana A/complex</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Red glasswort <i>Salicornia rubra = S. europaea</i>	BLM Sensitive	X		N	Found in riparian habitat.
Hoary willow <i>Salix candida</i>	BLM Sensitive	X		N	Found in riparian habitat.
Lost River silene <i>Silene scaposa var. lobata</i>	BLM Sensitive	X			
Basin goldenrod <i>Solidago spectabilis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Rush aster <i>Symphotrichum boreale = Aster junciformis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Purple thick-leaved thelypody <i>Thelypodium laciniatum var. streptanthoides</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Malheur princesplume <i>Stanleya confertiflora = S. annua, S. rara, S. viridiflora</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Picabo milkvetch <i>Astragalus oniciformis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Mudflat milkvetch <i>Astragalus yoder-williamsii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Twisted/Alkali cleomella <i>Cleomella plocasperma</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Greeley's wavewing <i>Cymopterus acaulis, var. greeleyorum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Chatterbox orchid <i>Epipactus gigantea</i>	BLM Sensitive	X		N	Found in riparian habitat.
Calcareous buckwheat <i>Eriogonum ochrocephalum var. calcareum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bug-leg goldenweed <i>Haplopappus insecticruris = H. integrifolius</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.



Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Spreading gilia <i>Ipomopsis polycladon</i> = <i>Gilia polycladon</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Davis' peppergrass <i>Lepidium davisii</i> = <i>L. montanum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bruneau River phlox <i>Leptodactylon glabrum</i> = <i>Leptodactylon glabrum</i>	BLM Sensitive	X		N	In canyon rocks.
Idaho penstemon <i>Penstemon idahoensis</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Janish's penstemon <i>Penstemon janishiae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Tall dropseed <i>Sporobolus compositus</i> var. <i>compositus</i> = <i>Sporobolus asper</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Scapose townsendia <i>Townsendia scapigera</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Two-headed onion <i>Allium anceps</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Mourning milkvetch <i>Astragalus astratus</i> var. <i>inseptus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Newberry's milkvetch <i>Astragalus newberry</i> var. <i>castoreus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Snake River milkvetch <i>Astragalus purshii</i> var. <i>ophiogenes</i> = <i>A. ophiogenes</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Four-wing milkvetch <i>Astragalus tetrapterus</i> = <i>A. cinerascens</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Fringed redmaids <i>Calandrinia ciliata</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Earth lichen <i>Catapyrenium congestum</i> = <i>Heteroplacidium congestum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Desert pincushion <i>Chaenactis stevioides</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
California damasonium <i>Damasonium californicum</i> = <i>Machaerocarpus californicus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bacigalupi's downingia <i>Downingia bacigalupii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Packard's buckwheat <i>Eriogonum shockleyi</i> var. <i>packardiae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Shockley's matted buckwheat <i>Eriogonum shockleyi</i> var. <i>shockleyi</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
White-margined wax plant <i>Glyptopleura marginata</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
United blazingstar <i>Mentzelia congesta</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Rigid threadbush <i>Nemacladus rigidus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Simpson's hedgehog cactus <i>Pediocactus simpsonii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.



Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Spine-noded milkvetch <i>Peteria thompsoniae</i> = <i>P. nevadensis</i>	BLM Sensitive	X			
American wood sage <i>Teucrium canadense</i> var. <i>occidentale</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Beautiful bryum <i>Bryum calobryoides</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Idaho douglasia <i>Douglasia idahoensis</i>	FS Sensitive		X		
Sacajawea's bitterroot <i>Lewisia sacajaweaana</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Cache beardtongue <i>Penstemon compactus</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Payson bladderpod <i>Lesquerella paysonii</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Douglas' biscuitroot <i>Cymopterus douglasii</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Guardian buckwheat <i>Eriogonum meledonum</i>	FS Sensitive		X		
Idaho pennycress, Stanley thlaspi <i>Noccaea idahoensis</i> var. <i>aileeniae</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Marsh's bluegrass <i>Poa abbreviate</i> ssp. <i>marshii</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Seaside sedge <i>Carex incurviformis</i>	FS Sensitive		X	N	Found in riparian habitat.
Stanley's whitlow-grass <i>Draba trichocarpa</i>	FS Sensitive		X		
White Cloud milkvetch <i>Astragalus vexilliflexus</i> var. <i>nubilus</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Barton's blackberry <i>Rubus bartonianus</i>	FS Sensitive		X	N	Found in riparian habitat.
Puzzling halimolobos <i>Halimolobos perplexa</i> var. <i>perplexa</i>	FS Sensitive		X		
Short-slyle tofieldia <i>Triantha occidentalis</i> ssp. <i>brevistyla</i>	FS Sensitive		X		
Slender moonwort <i>Botrychium lineare</i>	FS Sensitive		X	N	Found in riparian habitat.
Swamp onion <i>Allium madidum</i>	FS Sensitive		X	N	Found in riparian habitat.
Tobias' saxifrage <i>Saxifraga bryophora</i> var. <i>tobiasiae</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Tolmie's saxifrage <i>Saxifraga tomiei</i> var. <i>ledifolia</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Flexible alpine collomia <i>Collomia debilis</i> var. <i>camporum</i>	FS Sensitive		X	N	High elevation species.
Cottam cinquefoil <i>Potentilla acottamii</i>	FS Sensitive		X		
Davis' wavewing <i>Cymopterus davisii</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Least moonwort grapefern, Little grape fern <i>Botrychium simplex</i>	FS Sensitive		X	N	Found in riparian habitat.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Centennial rabbitbrush <i>Chrysothamnus parryi ssp. montanus</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Dainty moonwort <i>Botrychium crenulatum</i>	FS Sensitive		X	N	Found in riparian habitat.
Serpentine draba <i>Draba oreibata var. serpentine</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Sweet-flowered rock jasmine <i>Androsace chamaejasme spp. Carinata</i>	FS Sensitive		X	N	Found in rocks.

## Air quality and climate change

Air resources include air quality, air quality related values (AQRV's), and climate change. As part of eplanning and decision making process, BLM considers and analyzes the potential effects of BLM and BLM authorized activities on air resources.

The US Environmental protection agency (EPA) has the primary responsibility for regulating air quality, including seven criteria air pollutants subject to National Ambient Air Quality standards (NAAQS). Pollutants regulated under NAAQS include carbon monoxide (CO), lead, nitrogen dioxide (NO<sub>2</sub>), ozone, particulate matter with a diameter less than or equal to 10 microns (PM<sub>10</sub>), particulate matter with a diameter less than or equal to 2.5 microns (PM 2.5), and sulfur dioxide (SO<sub>2</sub>). Two additional pollutants, nitrogen oxides (NO<sub>x</sub>) and volatile organic compounds (VOCs), are regulated because they form ozone in the atmosphere. Air quality is determined by pollutant emissions and emission characteristics, atmospheric chemistry, dispersion meteorology, and terrain. AQRVs include effects on soil and water, such as sulfur and nitrogen deposition and lake acidification, and aesthetic effects, such as visibility.

In addition to EPA federal regulations, air quality is also regulated by the Idaho Department of Environmental Quality (IDEQ), Air Quality Division. This agency develops state-specific regulations and issues air quality permits to emission sources.

Climate is the composite of generally prevailing weather conditions of a particular region through the year, averaged over a series of years. Climate change includes both historic and predicted climate shifts that are beyond normal weather variations.

## Indicators

### Air Quality

- Identification of and trends for air quality nonattainment and maintenance areas for NAAQS with emphasis placed on particulate matter, based on information and data on the IDEQ and EPA websites.
- Identification of mandatory Class I areas within 66 miles (100 kilometers) of the planning area and any known visibility trends based on data from the Interagency Monitoring of Protected Visual Environments (IMPROVE) website.

### Climate Change

- Long term annual and seasonal temperature averages and trends within the planning area based on data from WestMap
- Long term annual and seasonal precipitation trends within the planning area based on data from WestMap
- Climate change projects from the Pacific Northwest (Oregon, Washington, Idaho, and Montana)
- Greenhouse gas sources and trends for the United Sates and Oregon

### Existing Conditions

Conditions of the planning area

Air Quality

Human Health. EPA classifies area of the US according to whether they meet the NAAQS. Areas that violate air quality standards are designated as nonattainment areas for the relevant criteria air pollutants. Areas that comply with air quality standards are designated as attainment areas for the relevant criteria air pollutants. Areas that have been reclassified from nonattainment to attainment are considered maintenance areas. The majority of the planning area is in attainment for all of the NAAQS. Add Areas of non attainment

The Air Quality Index (AQI) is an EPA health index that normalizes the various air pollutants in order to report one health level. The AQI is reported on a scale of 0 to 300, with 0-50 indicating good air quality; 51-100 indicating moderate air quality; 101-150 indicating air quality unhealthy for sensitive groups; 151-200 indicating unhealthy air quality; and 201-300 indicating very unhealthy air quality. IDEQ publishes annual data summaries of Idaho’s air quality that describe the AQI for all areas where air quality is monitored. The AQI is computed using the 24-hour average for PM 2.5 and the eight hour average for ozone. Table \_\_\_ describes the AQI for key cities within the planning area for the last three years.

Table 1. AQI Index Values in Planning Area 2009-2011

Monitoring location	Total days in period	# Days rated Good	% Days rated Good	# Days Rated Moderate	# Days Rated Unhealthy for Sensitive Groups	# Days Rated Unhealthy	# Days Rated Very unhealthy

Visibility and Regional Haze. There are no mandatory Class I areas on BLM administered lands in the planning area; all designated wilderness areas on BLM administered lands are Class II. Mandatory Class I areas within the planning area or within approximately 66 miles (100 kilometers) of the planning area include the following: (list and location in relation to the project area)

Deciview is an index used to estimate visibility, an important air quality related value in mandatory Class I area and a measure of regional haze. Table \_\_\_ shows the average deciviews for four IMPROVE sites in or near the planning area. As shown in this table, visibility is best on \_\_\_ and worst on \_\_\_.

Table 2. Average deciviews at monitoring sites during bthe best air quality days, median days, and worst days.

Monitoring Location	Best Days	Median Days	Worst Days

### Climate Change

Climate change is defined by the Intergovernmental Panel on Climate Change (IPCC) as ‘a change in the state of the climate that can be identified (e.g. using statistical tests) by changes in the mean and/or the variability of its properties, and persist for an extended period, typically decades or longer. It refers to any change in climate over time whether due to natural variability or as a result of human activity’ (IPCC 2007). Climate change is generally described on a global, national, or regional scale (state of multi state), while greenhouse gas emissions in the US are generally reported on a national or statewide scale.

Climate change is manifested in several ways, of which the most commonly analyzed are precipitation, temperature, and snowpack. Temperature and precipitation data for the planning area were retrieved from WestMap, a climate analysis and tracking tool that uses hydrologic basins as the mapping unit.

The primary hydrologic basins in the planning area include the following:

- List and details of climate data by hydrologic basin

### Greenhouse Gas Emissions

There are six greenhouse gases tracked by the IPCC, carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>) (State Department 2010). HFCs, PFCs, and SF<sub>6</sub> are also known as high global warming potential (HGWP) due to their warming effectiveness (140 to 23,900 times CO<sub>2</sub> depending on the compound) and their essential permanence in the atmosphere (3,000+ years) (State Department 2010, EPA 2012). CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O have both natural and human generated sources, while HGWP gases are strictly human generated from various industrial processes. Greenhouse gas emissions are tracked as carbon dioxide equivalents (CO<sub>2</sub>e) with one gram of CO<sub>2</sub> molecule counting as one and other molecules some multiple. Emissions are usually reported in teragrams (Tg) or million metric tonnes (mmt), which are equivalent measures (EPA 2012).

In the US, EPA tracks and reports greenhouse gas emissions; the Department of State also reports emissions. In Idaho, who tracks and reports greenhouse gases?

Greenhouse gas emissions in the United States and in Idaho are similar in terms of percentages and in the main sources of the different gases. Idaho’s greenhouse gases have remained about 1 percent of the US emissions from 1990-2010. Carbon dioxide is the primary greenhouse gas, comprising 83 to 85 percent of total emissions in the US and in Idaho, with fossil fuel combustion for energy the primary sources of CO<sub>2</sub>. Methane production accounts for 7 to 10 percent of greenhouse gas emissions. In the US, the primary source is natural gas systems, while

in Idaho the primary source is enteric fermentation from domestic livestock. Nitrous oxide production accounts for 4 to 6 percent of the total emissions, slightly more in Idaho than in the US with agricultural soil management the primary sources.

The HGWP gas comprises 1 to 3 percent of total emissions, more in Oregon than in the US. The primary sources of HFCs are the production of substitutes for ozone-depleting compounds, while aluminum production and semiconductor manufacturing are the primary sources of PFCs and electricity transmission and distribution are the primary sources of SF6.

The EPA also estimates greenhouse gas sinks arising from land use, land use changes, and forestry. These sinks effectively reduce total greenhouse gas emissions by 15 to 16 percent nationally (EPA 2012). The proportion in Idaho may be somewhat higher due to the productivity of Idaho forests.

Conditions on BLM administered lands

Air Quality

Air quality conditions on BLM administered lands are generally as described for the planning area.

Climate Change and Greenhouse Gas emissions

Climate change and greenhouse gas emissions on BLM generally as described for the planning area. Sources of greenhouse gas emissions on BLM administered lands in the planning area include:

Trends

Air Quality

Human Health. There are no clear long term trends in particulate emissions or the number of unhealthy days in the planning area; the lack of trends maybe due to a number of factors. There are no trends in the number of wildfires of acres burned or in the prescribed burning programs of BLM districts; there are also no documented trends in the other particulate emitting sectors. The recent downturn in the economy may have resulted in temporary or permanent changes in the number or types of particulate emitters. The 2010 Clean Air status and trends network (CASTNET) report indicates that 2009 was the lowest year on the 15 year recorded for several criteria pollutants, with increases in 2010 (AMEC 2012). That trend would be consistent with the recent downturn and slow recovery. In the western states as a whole, mean annual sulfur dioxide and particulate sulfur concentrations, total nitrate levels, total nitrogen deposition, and ozone concentrations have declined between 1996 and 2010 (Hand et al 2011, AMEC 2012).

Visibility and Regional Haze

Deciviews (summary)

Climate Change

Observed Trends

Certain precipitation, temperature, and snowfall trends within the planning area are similar, while others differ. The reasons for the observed differences are not clear. In the Oregon closed basins, precipitation has increased annually and in all four seasons, with the greatest seasonal increase in spring. Temperatures are also increasing, with greater increases in minimum temperature in winter and summer, consistent with observed national and global trends. Even temperatures are warming, above a threshold elevation that varies by mountain range; temperatures are still cold enough for winter precipitation to fall as snow. The combination of warmer temperatures and increased water vapor means that either more snow, snow with a higher moisture content, or some combination of these two factors will occur.

**Table 3. Observed annual and seasonal trends in precipitation and temperature in the planning area**

Factor	Annual	Winter	Spring	Summer	Fall
Precipitation					
Annual Temp					
Max Temp					
Min Temp					

### Projections

Karl et al 2009 summarize the observed trends and projections in climate for the United States, with an updated report due in 2013. In the United States, average temperature has risen 2 degrees F in the last 50 years, compared to the 1961-1979 baseline, and is projected to increase by 2 to 3 degrees F by the 2020s. Precipitation has increased by 5 percent in the last 50 years. Summers are expected to become drier over most of the United States, and winters are expected to become wetter. Spring is expected to become drier in the southern tier of states. The amount of rain falling in the heaviest storms has increased by 20 percent. This trend is expected to continue, with the greatest increase in the wettest places. In contrast, the amount of rain falling in the lightest storms has decreased, with the trend expected to continue. Extreme weather events such as heat waves and drought have become more frequent and more intense. Heat event frequency is expected to increase from 1 every 20 years to 1 every 2 to 3 years, with the number of days above 90 degrees F increasing as well. Snowpack is expected to decrease, especially in the western US. Cold season storm tracks should continue to shift northward, and the strongest winter storms are expected to become stronger and more frequent.

For the Pacific Northwest (Oregon, Washington, Idaho, and western Montana) the projections are somewhat different than for the US as a whole (Mote and Salathe 2010). Most climate models tend to over predict precipitation as compared to observed means in the Pacific Northwest, so must be corrected in any projections. In the Pacific Northwest, temperatures are expected to increase by about 1 to 3 degrees by the 2020s, 1.5 to 5 by mid-century, and 3 to 10 by the end of the century. The greatest warming is expected in summer, and least is expected in spring. Annual precipitation is expected to change little, but summers should become drier and all other seasons possibly wetter. As with the US as a whole and globally, the frequency of extreme precipitation events, heat waves, and droughts are expected to increase, and snowpack is expected to decrease.

### Greenhouse Gas Emissions

Between 1990 and 2010, total us greenhouse gas emissions increased by 10.5 percent, averaging 0.5 percent per year (EPA 2012). Carbon dioxide emissions, particularly those associated with energy production and use, are the dominant factor in US trends. Emissions from fossil fuel combustion increased by 13.7 percent between 1990 and 2010, and increased by 3.5 percent between 2009 and 2010. Emissions tend to decline during economic slowdowns and increase during economic recoveries. Emissions in Idaho followed similar trends as the US as a whole. The State Department (2010) projected greenhouse gas emissions for 2015 and 2020 based on data through 2007. Carbon dioxide emissions are expected to increase only slightly from 2007 levels, although the projected increase is considerably lower than the observed trend. All other emissions are expected to increase as well, with the least increase in methane and the most increase in the HGWP gases.

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**Table XX.** Comprehensive list of special status species, lands where the designation applies, level of analysis, and rationale for level of analysis.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
<b>Mammals</b>					
Northern Idaho Ground Squirrel <i>Spermophilus brunneus brunneus</i>	ESA Threatened	X	X	N	Occurs outside the range of greater sage grouse.
Grizzly Bear <i>Ursus arctos</i>	ESA Threatened	X	X	Y	Uses sagebrush habitat.
Canada Lynx <i>Lynx canadensis</i>	ESA Threatened	X	X	Y	Sagebrush habitat provides connectivity between the primary habitats.
Southern Idaho Ground Squirrel <i>Spermophilus brunneus endemicus</i>	ESA Candidate	X	X	Y	Uses sagebrush habitat.
Gray wolf <i>Canis lupus</i>	BLM & FS Sensitive	X	X	Y	Uses sagebrush habitat.
Pygmy rabbit <i>Brachylagus idahoensis</i>	BLM & FS Sensitive	X	X	Y	Uses sagebrush habitat.
Fringed myotis <i>Myotis thysanodes</i>	BLM Sensitive	X		N	Dependent primarily on cave and water habitat which will not be affected by the proposed action.
California myotis <i>Myotis californicus</i>	BLM Sensitive	X		N	Dependent primarily on cave and water habitat which will not be affected by the proposed action.
Spotted bat <i>Euderma maculatum</i>	BLM Sensitive	X		N	Dependent primarily on cave and water habitat which will not be affected by the proposed action.
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	BLM & FS Sensitive	X	X	N	Dependent primarily on cave and water habitat which will not be affected by the proposed action.
Piute ground squirrel <i>Spermophilus mollis artemisiae</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Fisher <i>Martes pennanti</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Wolverine <i>Gulo gulo luscus</i>	BLM & FS Sensitive	X	X	N	Uses forest and high elevation habitat.
California bighorn sheep <i>Ovis canadensis californiana</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Rocky Mountain bighorn sheep <i>Ovis canadensis</i>	FS Sensitive		X	Y	Uses sagebrush habitat.
Coast mole <i>Scapanus orarius</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Cliff chipmunk <i>Tamias dorsalis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Uinta Chipmunk <i>Tamias umbrinus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Merriam's ground squirrel <i>Spermophilus canus vigilis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Wyoming ground squirrel <i>Spermophilus elegans nevadensis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Little pocket mouse <i>Perognathus longimembris</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Dark kangaroo mouse <i>Microdipodops megacephalus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Northern bog lemming <i>Synaptomys borealis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Kit fox <i>Vulpes velox</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Black-footed ferret <i>Mustela nigripes</i>	FS Sensitive		X	N	Occurs outside the planning area boundary.
<b>Birds</b>					
Whooping crane <i>Grus americana</i>	ESA Endangered		X	N	Dependent on riparian habitat which will not be affected by the proposed action.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Yellow-billed cuckoo <i>Coccyzus americanus</i>	ESA Candidate	X	X	N	Dependent on riparian habitat which will not be affected by the proposed action.
Greater sage grouse <i>Centrocercus urophasianus</i>	ESA Candidate	X	X	Y	Uses sagebrush habitat.
Bald eagle <i>Haliaeetus leucocephalus</i>	BLM & FS Sensitive	X	X	Y	Feeds on carrion found in sagebrush habitat.
Upland sandpiper <i>Bartramia longicauda</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
American white pelican <i>Pelecanus erythrorhynchos</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Harlequin duck <i>Histrionicus histrionicus</i>	BLM & FS Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Trumpeter swan <i>Cygnus buccinator</i>	BLM & FS Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Peregrine falcon <i>Falco peregrinus anatum</i>	BLM & FS Sensitive	X	X	Y	Uses sagebrush habitat.
Prairie falcon <i>Falco mexicanus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Northern goshawk <i>Accipiter gentilis</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Ferruginous hawk <i>Buteo regalis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Columbia sharp-tailed grouse <i>Tympanuchus phasianellus columbianus</i>	BLM & FS Sensitive	X		Y	Uses sagebrush habitat.
Mountain quail <i>Oreotyx pictus</i>	BLM & FS Sensitive	X	X	Y	Uses sagebrush habitat.
Black tern <i>Chlidonias niger</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Flammulated owl <i>Otus flammeolus</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Boreal owl <i>Aegolius funereus</i>	FS Sensitive		X	N	Forest-dependent species.
Calliope hummingbird <i>Stellula calliope</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Lewis woodpecker <i>Melanerpes lewis</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Black-backed woodpecker <i>Picoides arcticus</i>	FS Sensitive		X	N	Forest-dependent species.
Pileated woodpecker <i>Dryocopus pileatus</i>	FS Sensitive		X	N	Forest-dependent species.
Williamson's sapsucker <i>Sphyrapicus throideus</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Willow flycatcher <i>Empidonax trailii</i>	BLM Sensitive	X		N	Dependent on riparian habitat which will not be affected by the proposed action.
Hammond's flycatcher <i>Empidonax hammondii</i>	BLM Sensitive	X		N	Forest-dependent species.
Olive-sided flycatcher <i>Contopus borealis</i>	BLM Sensitive	X		N	Forest-dependent species.
Loggerhead shrike <i>Lanius ludovicianus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Sage sparrow <i>Amphispiza belli</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Brewer's sparrow <i>Spizella breweri</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
White-faced ibis <i>Plegadis chihi</i>	BLM Sensitive	X		N	Dependent on riparian habitat which will not be affected by the proposed action.

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		BLM	Forest Service		
Virginia's warbler <i>Vermivora virginiae</i>	BLM Sensitive	X		N	Forest-dependent species.
Black-throated sparrow <i>Amphispiza bilineata</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Black swift <i>Cypseloides niger</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
White-headed woodpecker <i>Picoides albolarvatus</i>	BLM & FS Sensitive	X	X	N	Forest-dependent species.
Common Loon <i>Gavia immer</i>	FS Sensitive		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Three-toed woodpecker <i>Picoides tridactylus</i>	FS Sensitive		X	N	Forest-dependent species.
Downy woodpecker <i>Picoides pubescens</i>	FS Sensitive		X	N	Forest-dependent species.
Hairy woodpecker <i>Picoides villosus</i>	FS Sensitive		X	N	Forest-dependent species.
Northern flicker <i>Colaptes auratus</i>	FS Sensitive		X	N	Forest-dependent species.
Red-naped sapsucker <i>Sphyrapicus nuchalis</i>	FS Sensitive		X	N	Forest-dependent species.
<b>Reptiles</b>					
Mojave black-collared lizard <i>Crotaphytus bicinctores</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Longnose snake <i>Rhinocheilus lecontei</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Western ground snake <i>Sonora semiannulata</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Common garter snake <i>Thamnophis sirtalis</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
<b>Amphibians</b>					
Columbia spotted frog – Great Basin population <i>Rana luteiventris</i>	ESA Candidate	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Coeur d'Alene salamander <i>Plethodon idahoensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Idaho giant salamander <i>Dicamptodon aterrimus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Northern leopard frog <i>Rana pipiens</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Western toad <i>Bufo boreas</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
Boreal toad – SE ID population <i>Bufo boreas boreas</i>	BLM & FS Sensitive	X	X	N	Prefers high elevation wet habitats.
Woodhouse toad <i>Bufo woodhousii</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
<b>Fish</b>					
White Sturgeon - Kootenai River <i>Acipenser transmontanus</i>	ESA Endangered	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Sockeye Salmon <i>Oncorhynchus nerka</i>	ESA Endangered	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Humpback chub <i>Gila cypha</i>	ESA Endangered		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Razorback sucker <i>Xyrauchen texanus</i>	ESA Endangered		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Colorado pikeminnow <i>Ptychocheilus lucius</i>	ESA Endangered		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.

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		BLM	Forest Service		
Bonytail chub <i>Gila elegans</i>	ESA Endangered		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Chinook Salmon – Snake River spring/summer-run <i>Oncorhynchus tshawytscha</i>	ESA Threatened	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Chinook Salmon – Snake River fall-run <i>Oncorhynchus tshawytscha</i>	ESA Threatened	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Steelhead <i>Oncorhynchus mykiss</i>	ESA Threatened	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bull trout <i>Salvelinus confluentus</i>	ESA Threatened	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Pacific lamprey <i>Lampetra tridentata</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Redband trout <i>Oncorhynchus mykiss gairdneri</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Westslope cutthroat <i>Oncorhynchus clarki lewisi</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Yellowstone cutthroat <i>Oncorhynchus clarki bouvieri</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bonneville cutthroat <i>Oncorhynchus clarki utah</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bear Lake whitefish <i>Prosopium abyssiicola</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bonneville whitefish <i>Prosopium spilonotus</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bonneville cisco <i>Prosopium gemmiferum</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
White sturgeon – Snake River above Hells Canyon Dam <i>Acipenser transmontanus</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bear Lake sculpin <i>Cottus extensis</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Shoshone sculpin <i>Cottus greenei</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Wood River sculpin <i>Cottus leiopomus</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Northern leatherside chub <i>Lepidomeda copei</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Burbot <i>Lota lota</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action.
Big Lost River whitefish <i>Prosopium williamsoni</i>	FS Sensitive		X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
<b>Invertebrates</b>					
Bliss Rapids snail <i>Taylorconcha serpenticola</i>	ESA Threatened	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Idaho springsnail <i>Pyrgulopsis idahoensis</i>		X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Banbury Springs limpet <i>Lanx spp.</i>	ESA Endangered	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Snake River physa snail <i>Physa natricina</i>	ESA Endangered	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Bruneau hot springsnail <i>Pyrgulopsis bruneauensis</i>	ESA Endangered	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Utah valvata snail <i>Valvata utahensis</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.

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Shortface lanx <i>Fisherola nuttalli</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Marbled disc <i>Discus marmorensis</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action, and occurs outside the range of greater sage grouse.
Mission Creek Oregonian <i>Cryptomastix magnidentata</i>	BLM Sensitive	X		N	Dependent on aquatic habitat which will not be affected by the proposed action, and occurs outside the range of greater sage grouse.
Striate mountainsnail <i>Oreohelix strigosa goniogyra</i>	BLM Sensitive	X		N	Occurs outside the range of the greater sage grouse.
Idaho banded mountainsnail <i>Oreohelix idahoensis idahoensis</i>	BLM Sensitive	X		N	Occurs outside the range of the greater sage grouse.
Lava rock mountainsnail <i>Oreohelix waltoni</i>	BLM Sensitive	X		N	Occurs outside the range of the greater sage grouse.
Whorled mountainsnail <i>Oreohelix vortex</i>	BLM Sensitive	X		N	Occurs outside the range of the greater sage grouse.
Boulder pile mountainsnail <i>Oreohelix jugalis</i>		X		N	Occurs outside the range of the greater sage grouse.
Idaho point-headed grasshopper <i>Acrolophitus pulchellus</i>	BLM Sensitive	X		Y	Uses sagebrush habitat.
St. Anthony sand dunes tiger beetle <i>Cicindela arenicola</i>	BLM Sensitive	X	X	Y	Uses sagebrush habitat.
Columbia River tiger beetle <i>Cicindela columbica</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Bruneau Dunes tiger beetle <i>Cicindela waynei waynei</i>	BLM Sensitive	X	X	Y	Uses sagebrush habitat.
Blind cave leiodid beetle <i>Glacivicolia bathyscoides</i>	BLM Sensitive	X	X	N	Obligate cave inhabitant.
California floater <i>Anodonta californiensis</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
Columbia pebblesnail <i>Fluminicola fuscus</i>	BLM Sensitive	X	X	N	Dependent on aquatic habitat which will not be affected by the proposed action.
<b>Plants</b>					
Blowout penstemon <i>Penstemon haydenii</i>	ESA Endangered		X	N	Does not occur within the planning unit.
Water howellia <i>Howellia aquatilis</i>	ESA Threatened	X		N	Occurs outside the range of greater sage grouse.
Macfarlane's Four-O-Clock <i>Mirabilis macfarlanei</i>	ESA Threatened	X		N	Occurs outside the range of greater sage grouse.
Slickspot peppergrass <i>Lepidium papilliferum</i>	ESA Proposed	X	X	Y	Found in sagebrush habitat.
Spalding's Catchfly <i>Silene spaldingii</i>	ESA Threatened	X		N	Occurs outside the range of greater sage grouse.
Ute Ladies'-Tresses <i>Spiranthes diluvialis</i>	ESA Threatened	X	X	N	Found in riparian habitat.
Goose Creek milkvetch <i>Astragalus anserinus</i>	ESA Candidate	X	X	Y	Found in sagebrush habitat.
Packard's milkvetch <i>Astragalus cusickii</i> var. <i>packardiae</i>	ESA Candidate	X		Y	Found in sagebrush habitat.
Whitebark pine <i>Pinus albicaulis</i>	ESA Candidate	X	X	N	High elevation.
Christ's Indian Paintbrush <i>Castilleja christii</i>	ESA Candidate		X	Y	Found in sagebrush habitat.
Aase's onion <i>Allium aaseae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Lemhi milkvetch <i>Astragalus aquilonius</i>	BLM & FS Sensitive	X	X		

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Asotin milkvetch <i>Astragalus asotinensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Starveling milkvetch <i>Astragalus jejunus</i> var. <i>jejunus</i>	BLM & FS Sensitive	X	X		
Mulford's milkvetch <i>Astragalus mulfordiae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Tweedy's reedgrass, Cascade reedgrass <i>Calamagrostis tweedyi</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.
Green-band mariposa lily <i>Calochortus macrocarpus</i> var. <i>maculosus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Broad-fruit mariposa lily <i>Calochortus nitidus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Constance's bittercress <i>Cardamine constancei</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Idaho sedge <i>Carex idaho</i>	BLM Sensitive	X		N	Found in riparian habitat.
Indian Valley sedge <i>Carex parryana</i> var. <i>brevisquama</i> = <i>C. aboriginum</i>	BLM Sensitive	X		N	Found in riparian habitat.
Cusick's false yarrow <i>Chaenactis cusickii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Palouse thistle <i>Cirsium brevifolium</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Idaho hawkbeard <i>Crepis bakeri</i> ssp. <i>idahoensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Welsh's buckwheat <i>Eriogonum capistratum</i> var. <i>welshii</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Hooker's buckwheat <i>Eriogonum hookeri</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Palouse goldenweed <i>Haplopappus liatrifolius</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Sweetgrass <i>Hierochloa odorata</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Simple Kobresia <i>Kobresia simpliciuscula</i>	BLM Sensitive	X			
Packard's desert parsley <i>Lomatium packardiae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Salmon River biscuitroot <i>Lomatium salmoniflorum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Smooth stickleaf <i>Mentzelia mollis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Spacious monkeyflower <i>Mimulus washingtonensis</i> = <i>M. ampliatus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Stalk-leaved monkeyflower <i>Mimulus washingtonensis</i> = <i>M. patulus</i>	BLM Sensitive	X		N	Found in riparian habitat.
Saint Anthony evening-primrose <i>Oenothera psammophila</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Obscure Phacelia <i>Phacelia inconspicua</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Alkali primrose <i>Primula alcalina</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.



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Jessica's aster <i>Symphotrichum jessicae</i> = <i>Aster jessicae</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Woven-spore lichen <i>Texosporium sancti-jacobi</i> = <i>Cyphellium sancti-jacobi</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Rolland's bulrush <i>Trichophorum pumilum</i> = <i>Scirpus rollandii</i>	BLM Sensitive	X		N	Found in riparian habitat.
Douglas's clover <i>Trifolium douglasii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Owyhee clover <i>Trifolium owyheense</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Idaho range lichen <i>Xanthoparmelia idahoensis</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
King's angelica, Great Basin angelica <i>Angelica kingii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Coral lichen <i>Aspicilia rogerii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Challis milkvetch <i>Astragalus amblytropis</i>	BLM Sensitive	X			
Lost River milkvetch <i>Astragalus amnis-amissi</i>	BLM & FS Sensitive	X	X		
Barren milkvetch <i>Astragalus cusickii</i> var. <i>sterilis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Meadow milkvetch <i>Astragalus diversifolius</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Payson's milkvetch <i>Astragalus paysonii</i>	BLM & FS Sensitive	X	X		
King's desert grass <i>Blepharidachne kingii</i>	BLM Sensitive	X			
Blue gramma <i>Bouteloua gracilis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bristly sedge, Longhair sedge <i>Carex comosa</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Western sedge <i>Carex occidentalis</i>	BLM Sensitive	X		N	Found in riparian habitat.
Mahala mat <i>Ceanothus prostratus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Short-spored jelly lichen <i>Collema curtisporum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Case's corydalis <i>Corydalis caseana</i> ssp. <i>hastata</i> = <i>Capnoides hastatum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Uinta Basin cryptantha <i>Cryptantha breviflora</i>	BLM Sensitive	X			
Sepal-tooth dodder <i>Cuscuta denticulata</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Clustered lady's-slipper <i>Cypripedium fasciculatum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Silver-skin lichen <i>Dermatocarpon lorenzianum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Least phacelia, Small-flower phacelia <i>Phacelia minutissima</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.

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		BLM	Forest Service		
Doublet <i>Dimeresia howellii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Harlequin calicoflower, Parti-color Downingia <i>Downingia insignis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Windward's goldenbush <i>Ericameria discoidea</i> var. <i>winwardii</i> = <i>Ericameria winwardii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Great Basin desert buckwheat <i>Eriogonum desertorum</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Railroad Canyon buckwheat <i>Eriogonum soliceps</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Cronquist's forget-me-not <i>Hackelia cronquistii</i> = <i>H. patens</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Owyhee forget-me-not, Owyhee River stickseed <i>Hackelia ophiobia</i>	BLM Sensitive	X		N	Found along canyon rims.
Marsh felwort <i>Lomatogonium rotatum</i>	BLM Sensitive	X			
Pine broomrape <i>Orobancha pinorum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Hall's orthotrichum/moss <i>Orthotrichum hallii</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Lemhi penstemon <i>Penstemon lemhiensis</i> = <i>P. speciosus</i> ssp. <i>lemhiensis</i>	BLM & FS Sensitive	X	X	N	High elevation species.
Goldback fern <i>Pentagramma triangularis</i> ssp. <i>triangularis</i> = <i>Pityrogramma triangularis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Indian apple, Wild Crab apple <i>Peraphyllum ramosissimum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Malheur Yellow Phacelia <i>Phacelia lutea</i> var. <i>calva</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Idaho twinpod, Salmon Twin bladderpod <i>Physaria didymocarpa</i> var. <i>lyrata</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Small-flowered ricegrass <i>Piptatherum micranthum</i> = <i>Oryzopsis micrantha</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Turtleback, Annual Brittlebrush <i>Psathyrotes annua</i> = <i>Bulbostylis annua</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Thinleaf goldenhead <i>Pyrrocoma linearis</i> = <i>Haplopappus uniflorus</i> var. <i>howellii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Snake River goldenweed, Radiate goldenweed <i>Pyrrocoma radiata</i> = <i>Haplopappus raidatus</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
White grouse pellet lichen <i>Rhizoplaca idahoensis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Least snapdragon <i>Sairocarpus kingie</i>	BLM Sensitive	X			
False mountain willow <i>Salix pseudomonticola</i>	BLM Sensitive	X			



Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Canyon sedum <i>Sedum valens</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Western ladies' tresses <i>Spiranthes porrifolia</i> = <i>S. romanzoffiana</i> var. <i>porrifolia</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Purple meadow-rue <i>Thalictrum dasycarpum</i> = <i>T. hypoglaucom</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Wavy-leaf thelypody <i>Thelypodium repandum</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Plumed clover <i>Trifolium plumosum</i> var. <i>amplifolium</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Sierra wood-fern <i>Thelypteris nevadensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Idaho barren strawberry <i>Waldsteinia idahoensis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Pink agoseris, Mill Creek agoseris <i>Agoseris lackschewitzii</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Tolmie's onion <i>Allium tolmiei</i> var. <i>persimile</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.
Candystick <i>Allotropa virgata</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.
Two-grooved milkvetch <i>Astragalus bisulcatus</i> var. <i>bisulcatus</i>	BLM Sensitive	X			
Stiff milkvetch, Idaho milkvetch <i>Astragalus conjunctus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Tufted milkvetch, Plains milkvetch <i>Astragalus gilviflorus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Park milkvetch <i>Astragalus leptaleus</i>	BLM & FS Sensitive	X	X		
Least bladderly milkvetch <i>Astragalus microcystis</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Piper's milkvetch <i>Astragalus riparius</i>	BLM Sensitive	X		N	Found in riparian habitat.
Deer fern <i>Blechnum spicant</i> = <i>Lomaria spicant</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Cusick's camas <i>Camassia cusickii</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Winged-seed evening primrose <i>Camissonia pterosperma</i> = <i>Oenothera pterosperma</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Henderson's sedge <i>Carex hendersonii</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Pale sedge <i>Carex livida</i>	BLM Sensitive	X		N	Found in riparian habitat.
Foothill sedge, Splitawn sedge <i>Carex tumulicola</i>	BLM Sensitive	X		N	Found in riparian habitat.
Birchleaf mountain-mahogany <i>Cercocarpus montanus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bulb-bearing water hemlock <i>Cicuta bulbifera</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Lancefeaf springbeauty <i>Claytonia multiscapa</i> var. <i>flava</i> = <i>C. lanceolata</i> var. <i>multiscapa</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Tufted cryptantha <i>Cryptantha caespitosa</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Malheur cryptantha <i>Cryptantha propria</i> = <i>Oreocarya propria</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Silky cryptantha <i>Cryptantha sericea</i> = <i>Oreocarya sericea</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Ibapah springparsley <i>Cymopterus ibapensis</i> = <i>Epallageiton ibapensis</i>	BLM Sensitive	X			
Shining flat sedge <i>Cyperus rivularis</i> = <i>C. bipartitus</i>	BLM Sensitive	X		N	Found in riparian habitat.
Pointed draba, Beavertip draba, Rockcress draba <i>Draba globosa</i> = <i>D. apiculata</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
White false tickhead <i>Eatonella nivea</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Swamp willow-herb <i>Epilobium palustre</i>	BLM Sensitive	X			
Rabbitbrush goldenweed, Bloomer's goldenweed <i>Ericameria bloomeri</i> = <i>Haplopappus bloomeri</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Winward's goldenbush <i>Ericameria discoidea</i> var. <i>winwardii</i> = <i>Ericameria winwardii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bee thistle <i>Eryngium articulatum</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Cushion cactus/spinystar <i>Escobaria vivipara</i> var. <i>vivipara</i> = <i>Coryphantha vivipara</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Puzzling halimolobos <i>Halimolobos perplexa</i> var. <i>perplexa</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Cooper's rubber-plant <i>Hymenoxys cooperi</i> var. <i>canescens</i> = <i>Actinea canescens</i>	BLM Sensitive	X			
Large Canadian St. John's wort <i>Hypericum majus</i> = <i>H. canadense</i> var. <i>majus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Tweedy's rush <i>Juncus tweedyi</i>	BLM Sensitive	X		N	Found in riparian habitat.
Thick-leaf pepperweed <i>Lepidium integrifolium</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Middle Butte bladderpod <i>Lesquerella obdeltata</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Sacajawea's bitterroot <i>Lewisia sacajaweaana</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Hazel's phlox, Granite phlox <i>Lianthus pungens</i> = <i>Leptodactylon pungens</i> ssp. <i>hazeliae</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.
Inch-high lupine <i>Lupinus uncialis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bank monkey-flower <i>Mimulus clivicola</i> = <i>Eunanus clivicola</i>	BLM & FS Sensitive	X	X	N	Occurs outside the range of greater sage grouse.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Disappearing monkey-flower <i>Mimulus evanescens</i>	BLM Sensitive	X		N	Found in riparian habitat.
Thin-sepal monkey-flower <i>Mimulus hymenophyllus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Wild timothy, Marsh Muhly <i>Muhlenbergia racemosa</i>	BLM Sensitive	X		N	Found in riparian habitat.
Green needlegrass <i>Nassella viridula</i> = <i>Stipa viridula</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Challis crazyweed <i>Oxytropis besseyi</i> var. <i>salmonensis</i> = <i>O. nana</i> var. <i>salmonensis</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Creeping nailwort <i>Paronychia sessiliflora</i>	BLM Sensitive	X			
Snowball cactus <i>Pediocactus nigrispinus</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Short-lobed penstemon <i>Penstemon seorsus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
White spruce <i>Picea glauca</i> = <i>P. Canadensis</i>	BLM Sensitive	X		N	High elevation species.
Waterthread pondweed <i>Potamogeton diversifolius</i>	BLM Sensitive	X		N	Found in aquatic habitat.
Cusick's primrose <i>Primula cusickiana</i> A/complex	BLM Sensitive	X		Y	Found in sagebrush habitat.
Red glasswort <i>Salicornia rubra</i> = <i>S. europaea</i>	BLM Sensitive	X		N	Found in riparian habitat.
Hoary willow <i>Salix candida</i>	BLM Sensitive	X		N	Found in riparian habitat.
Lost River silene <i>Silene scaposa</i> var. <i>lobata</i>	BLM Sensitive	X			
Basin goldenrod <i>Solidago spectabilis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Rush aster <i>Symphyotrichum boreale</i> = <i>Aster junciformis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Purple thick-leaved thelypody <i>Thelypodium laciniatum</i> var. <i>streptanthoides</i>	BLM Sensitive	X		N	Occurs outside the range of greater sage grouse.
Malheur princesplume <i>Stanleya confertiflora</i> = <i>S. annua</i> , <i>S. rara</i> , <i>S. viridiflora</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Picabo milkvetch <i>Astragalus oniciformis</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Mudflat milkvetch <i>Astragalus yoder-williamsii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Twisted/Alkali cleomella <i>Cleomella plocasperma</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Greeley's wavewing <i>Cymopterus acaulis</i> , var. <i>greeleyorum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Chatterbox orchid <i>Epipactus gigantea</i>	BLM Sensitive	X		N	Found in riparian habitat.
Calcareous buckwheat <i>Eriogonum ochrocephalum</i> var. <i>calcareum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bug-leg goldenweed <i>Haplopappus insecticruris</i> = <i>H. integrifolius</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Spreading gilia <i>Ipomopsis polycladon</i> = <i>Gilia polycladon</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Davis' peppergrass <i>Lepidium davisii</i> = <i>L. montanum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bruneau River phlox <i>Leptodactylon glabrum</i> = <i>Leptodactylon glabrum</i>	BLM Sensitive	X		N	In canyon rocks.
Idaho penstemon <i>Penstemon idahoensis</i>	BLM & FS Sensitive	X	X	Y	Found in sagebrush habitat.
Janish's penstemon <i>Penstemon janishiae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Tall dropseed <i>Sporobolus compositus</i> var. <i>compositus</i> = <i>Sporobolus asper</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Scapose townsendia <i>Townsendia scapigera</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Two-headed onion <i>Allium anceps</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Mourning milkvetch <i>Astragalus astratus</i> var. <i>inseptus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Newberry's milkvetch <i>Astragalus newberry</i> var. <i>castoreus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Snake River milkvetch <i>Astragalus purshii</i> var. <i>ophiogenes</i> = <i>A. ophiogenes</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Four-wing milkvetch <i>Astragalus tetrapterus</i> = <i>A. cinerascens</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Fringed redmaids <i>Calandrinia ciliata</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Earth lichen <i>Catapyrenium congestum</i> = <i>Heteroplacidium congestum</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Desert pincushion <i>Chaenactis stevioides</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
California damasonium <i>Damasonium californicum</i> = <i>Machaerocarpus californicus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Bacigalupi's downingia <i>Downingia bacigalupii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Packard's buckwheat <i>Eriogonum shockleyi</i> var. <i>packardiae</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Shockley's matted buckwheat <i>Eriogonum shockleyi</i> var. <i>shockleyi</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
White-margined wax plant <i>Glyptopleura marginata</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
United blazingstar <i>Mentzelia congesta</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Rigid threadbush <i>Nemacladus rigidus</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Simpson's hedgehog cactus <i>Pediocactus simpsonii</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Spine-noded milkvetch <i>Peteria thompsoniae</i> = <i>P. nevadensis</i>	BLM Sensitive	X			
American wood sage <i>Teucrium canadense</i> var. <i>occidentale</i>	BLM Sensitive	X		Y	Found in sagebrush habitat.
Beautiful bryum <i>Bryum calobryoides</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Idaho douglasia <i>Douglasia idahoensis</i>	FS Sensitive		X		
Sacajawea's bitterroot <i>Lewisia sacajaweaana</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Cache beardtongue <i>Penstemon compactus</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Payson bladderpod <i>Lesquerella paysonii</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Douglas' biscuitroot <i>Cymopterus douglasii</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Guardian buckwheat <i>Eriogonum meledonum</i>	FS Sensitive		X		
Idaho pennycress, Stanley thlaspi <i>Noccaea idahoensis</i> var. <i>aileeniae</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Marsh's bluegrass <i>Poa abbreviate</i> ssp. <i>marshii</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Seaside sedge <i>Carex incurviformis</i>	FS Sensitive		X	N	Found in riparian habitat.
Stanley's whitlow-grass <i>Draba trichocarpa</i>	FS Sensitive		X		
White Cloud milkvetch <i>Astragalus vexilliflexus</i> var. <i>nubilus</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Barton's blackberry <i>Rubus bartonianus</i>	FS Sensitive		X	N	Found in riparian habitat.
Puzzling halimolobos <i>Halimolobos perplexa</i> var. <i>perplexa</i>	FS Sensitive		X		
Short-slyle tofieldia <i>Triantha occidentalis</i> ssp. <i>brevistyla</i>	FS Sensitive		X		
Slender moonwort <i>Botrychium lineare</i>	FS Sensitive		X	N	Found in riparian habitat.
Swamp onion <i>Allium madidum</i>	FS Sensitive		X	N	Found in riparian habitat.
Tobias' saxifrage <i>Saxifraga bryophora</i> var. <i>tobiasiae</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Tolmie's saxifrage <i>Saxifraga tomiei</i> var. <i>ledifolia</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Flexible alpine collomia <i>Collomia debilis</i> var. <i>camporum</i>	FS Sensitive		X	N	High elevation species.
Cottam cinquefoil <i>Potentilla acottamii</i>	FS Sensitive		X		
Davis' wavewing <i>Cymopterus davisii</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Least moonwort grapefern, Little grape fern <i>Botrychium simplex</i>	FS Sensitive		X	N	Found in riparian habitat.

Scientific Name	Status*	Federal Land		Analyze Effects in EA?	Rationale for Level of Effects Analysis
		BLM	Forest Service		
Centennial rabbitbrush <i>Chrysothamnus parryi ssp. montanus</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Dainty moonwort <i>Botrychium crenulatum</i>	FS Sensitive		X	N	Found in riparian habitat.
Serpentine draba <i>Draba oreibata var. serpentine</i>	FS Sensitive		X	Y	Found in sagebrush habitat.
Sweet-flowered rock jasmine <i>Androsace chamaejasme spp. Carinata</i>	FS Sensitive		X	N	Found in rocks.

## Cave and Karst

While there are hundreds of caves within the planning area, there are no management decisions for Cave and Karst resources that impact Sage Grouse or their habitat.

### 3.2 CULTURAL RESOURCES

In this section the term “cultural resources” is used to encompass the broad scope of resources that must be considered by the BLM and as further defined below. A cultural resource is a definite location of human activity, occupation, or use identifiable through field survey, historical documentation, or oral evidence (BLM Manual 8100). The term cultural resources is inclusive and has been adopted and widely used to refer to the diverse human record found in sites, structures, objects and places created and/or used by people. These may comprise archaeological, historic, or architectural sites, structures, objects, or places, and may include locations of traditional cultural or religious importance to a particular social and/or cultural group, often referred to as Traditional Cultural Properties (TCP). The term includes “historic properties,” as defined in the National Historic Preservation Act of 1966, as amended (NHPA), and the implementing regulations found in the Code of Federal Regulations (CFR) at 36 CFR 800. Historic properties are cultural resources determined to be eligible for listing on the National Register of Historic Places (NRHP). The term also includes “archaeological resources” as defined in the Archaeological Resources Protection Act of 1979, and other sites, structures, objects, items and places as addressed in other statutes/regulations (e.g., American Indian Religious Freedom Act of 1978, the Antiquities Act of 1906, the National Environmental Policy Act of 1969 (NEPA), the Native America Graves Protection and Repatriation Act of 1990 and the National Trails System Act of 1968).

Cultural resources are represented by the full temporal range of human occupation of the continent, from the first peoples’ arrival and settlement in the region over 13,000 years ago and subsequent tribal groups expansion and use throughout all of the sub-region and other parts of the West to more recent incursions of fur trappers, homesteaders and miners and ranchers of the last 200 years. Cultural resources can include surface and buried artifacts and cultural features made and left by human cultures in archaeological sites; items built by past cultures (e.g., houses/house remains and activity areas); and places associated with traditional cultural uses.

#### **Considering Effects to Cultural Resources Pursuant to Section 106 of the NHPA**

Cultural resources are most frequently identified and recorded through federal compliance with Section 106 of the NHPA and subsequent consultation with Indian tribes and State Historic Preservation Offices (SHPO). Section 106 requires that federal agencies that fund, approve, authorize, license, or permit actions or undertakings to consider effects to “historic properties” that could occur due to the proposed undertaking(s). It is important to emphasize again that the term “historic property” has a specific meaning under the NHPA, referring only to those properties determined to be eligible for and/or listed in the NRHP regardless of property type or period of use (e.g., TCP or archaeological site, historic versus prehistoric).

Federal regulations define specific criterion for NRHP eligibility and provide the measures for evaluating cultural resources for their eligibility. These criteria are found at 36 CFR 60.4. Once a cultural resource has been determined to be eligible for the NRHP the agency must consider the potential effects of the proposed action on the historic property and provide measures to either reduce or mitigate any adverse effects. Consequently, compliance with Section 106 provides a primary mechanism for federal agencies to assess and take into account the effects of proposed federal actions or undertakings on cultural resources during NEPA reviews.

BLM follows alternative procedures, defined in state specific Protocols, for meeting its Section 106 obligations allowed for and pursuant to the implementing regulations of the NHPA (36 CFR 800.14). In collaboration with the Advisory Council on Historic Preservation (ACHP) and the National Conference of State Historic Preservation Officers (NCSHPO), the BLM developed alternative procedures that define the manner in which the agency will comply with Section 106 of the NHPA. These procedures are defined in a national Programmatic Agreement (nPA), revised in 2012, between the three parties. The





nPA procedures are implemented by the state specific Protocol agreements with each state's SHPO. The Protocols further define how BLM will coordinate with the SHPO in each state to fulfill Section 106 responsibilities.

Prior to initiating proposed actions for protection and enhancement of sage grouse and sage grouse habitat, the responsible manager shall determine the area of potential effect; review existing information on known/anticipated historic properties that could be affected; seek information (in coordination with environmental review and land use planning processes) from Indian tribes and other parties likely to have knowledge of or concern with historic properties (including places of traditional cultural and/or religious significance); determine the need for field surveys or other actions to identify historic properties; make a good faith effort to identify and evaluate historic properties; assess and determine effects to historic properties; and identify measures to avoid, lessen or mitigate adverse effects to historic properties.

As the various types of sage grouse/habitat improvement projects are identified, effects to cultural resources can be assessed on a case by case or programmatic level; however, given current information, it is assumed that all future actions will require separate NHPA analyses. Any programmatic procedures not covered by the nPA or state Protocols will require either (a) separate NHPA analysis and/or (b) a separate Section 106 agreement.

### **3.2.1 Indicators**

- Number of Archaeological Sites within the PPH and PGH areas
- Number of traditional cultural properties/traditional use areas within PPH and PGH areas
- Number of cultural resources determined eligible/listed within PPH and PGH areas
- Causal factors that affect resource condition (whether by preserving, stabilizing or deteriorating the resource)

### **3.2.2 Existing Conditions**

#### **Conditions of the Planning Area**

The planning area includes federal lands administered by the BLM Boise, Twin Falls and Idaho Falls Districts in Idaho and the Dillon Field Office of the Western Montana District in Montana. National Forest lands include lands administered by the Boise, Sawtooth, Salmon-Challis and Caribou-Targhee National Forests in Idaho and the Beaverhead-Deerlodge National Forest in Montana. A majority of the habitat is sagebrush steppe on BLM with upland sagebrush steppe and sub-alpine habitat or ecotones located on National Forest lands. The Snake and Salmon Rivers, and the headwaters of the Missouri river, are three major watershed systems within the planning area.

In general, and as extrapolated from BLM survey and site location data, on average 15% of public lands within the planning area have been inventoried resulting in the recordation of 17,801 archaeological resources (Table 1), including prehistoric and historic sites. This data indicates that on average 6-8 sites occur per square mile on public lands within the planning area. Formal determinations of eligibility have not been completed for most sites in the planning area; however as matter of course recorded resources are treated as eligible until determined otherwise. Based on logged eligibility determinations for known sites on public lands, roughly 14% of recorded sites have been determined to be eligible for listing on the NRHP. These data indicate that over 2,492 of the recorded sites on public lands are eligible for the NRHP. Several well-known historic properties and districts occur in the planning area, as listed by Field Office in Table 2. These historic properties along with other eligible properties in the planning area would need evaluation for the effects of proposed undertakings for sage grouse habitat improvement prior to implementation. Areas not previously inventoried would be subjected to full cultural resources analysis for ground disturbing actions.



	<b>Idaho BLM Surveys</b>	<b>Idaho BLM Resources</b>	<b>Montana BLM Surveys</b>	<b>Montana BLM Resources</b>	<b>Planning Area Totals</b>
<b>PPH</b>	2,057 surveys	12,517	596 surveys	723	
	692,778 acres		25,514 acres		
<b>PGH</b>	1,226 surveys	4,561	538 surveys	564	
	739,277 acres		23,893 acres		
<b>Totals</b>	<b>1,432,055 acres</b>	<b>17,078</b>	<b>49,407 acres</b>	<b>1,287</b>	<b>1,481,462 acres</b> <b>18,365 Resources</b>

Table 1. Recorded Cultural Resource Surveys and Sites within Sage Grouse Habitat in Planning Area

### Cultural Use of the Planning Area

Three “cultural areas” are subsumed within the planning area. Cultural areas have often been correlated to physiographic regions, with the planning area falling within the northern Great Basin, southeastern Plateau and western Plains regions. These cultural areas roughly correspond to distinctly different indigenous groups with different languages and moderately different resource-based economic systems and social structures. While these areas are associated to cultural groups and distinct tribes, cultural boundaries are fluid and overlapping. The main homelands and cultural traits of tribal groups that inhabit the region are generally defined by the cultural areas. Tribes that inhabit the region today and in the past include Great Basin groups such as the Shoshone-Paiute Tribes, Shoshone-Bannock Tribes, and the Eastern Shoshone; the Plateauan Nez Perce, Coeur d’Alene, Pend d’Oreille, Confederated Salish-Kootenai Tribes, Confederated Tribes of the Colville Reservation, Confederated Tribes of the Umatilla Reservation; and Plains groups including the Blackfoot Tribe, Chippewa Cree Tribes, and the Crow.

Tribal members actively use BLM lands for traditional resource procurement. The planning area contains populations of economically important plant and animal resources to tribal groups and individuals with certain species dominating depending on the region and the particular preferences of tribes or individuals. The sagebrush steppe and rocky upland flats are likely to support populations of plants such as bitterroot, biscuit root, Indian carrot, Indian rice grass and needle grass and other important root plants, such as camas in wetland areas. Modern traditional food plant gathering focuses almost entirely on root crops and wild fruits especially if they are found near the various reservations. Other types of cultural food plants such as seeds are not collected today to the degree they were collected in former times. Cultural plants for weaving appear to be collected wherever they are found. Medicinal cultural plants are undoubtedly collected today but practitioners of indigenous healing methods may not share the type(s) of species used as readily as those collecting plants for subsistence and weaving. Rabbits, deer, elk and fish are also important animal resources in the planning area.

The most common type of prehistoric site or cultural resource in Idaho and southwestern Montana is the lithic scatter. These types of sites contain mainly flaked stone (debitage) and/or stone tools left during the process of creating or repairing bifacial tools, such as arrow points, spear points, dart points, knives or scrapers. Lithic scatters often represent the remnants of prehistoric tool manufacturing/maintenance, locales created during subsistence pursuits, including hunting camps, animal butchering sites, or quarries. The “ubiquitous” lithic scatter comprises approximately 70 percent or more of recorded prehistoric sites in the planning area. Other site types may include habitation sites with remnants of house pits, house rings and hearths, as well as milling and storage equipment, such as pottery and basketry, and stone circles and wickiups in far eastern Idaho and Montana. Ceremonial sites may also occur in the planning area, but only few may leave an archaeological signature, such as cairns, pits (e.g., eagle catching, fasting) or stacked rock of a vision quest site, or medicine wheels, and may require tribal consultation with practitioners and elders to identify. Other site types include trails, such as the Oregon National Historic Trail (NHT) and Nez Perce NHT, petroglyphs and pictographs, hunting drivelines and blinds, rock shelters, and caves.



<b>Field Office (FO)</b>	<b>Key National Register Listed or Eligible Properties</b>
Dillon FO	The Bannack National Historic Landmark Big Hole National Battlefield Everson Creek/Black Canyon Quarry District Muddy Creek Archaeological District Lewis and Clark National Historic Trail Oregon National Historic Trail Historic mining districts, including Argenta, Bannack, Blue Wing, Ermont, Melrose, Rochester, Silver Star, Utopia, and Virginia City
Burley FO	California National Historic Trail Castle Rocks TCP City of Rocks National Historic Landmark Kelton Road and the
Bruneau FO	Camas and Pole Creeks Archaeological District Shoofly Rock Alignments Little Blue Table complex Five Fingers & Y "Buffalo" Jumps Hole in Rock Pictographs
Challis FO	Challis Springs Historic District Ima Mine White Knob Mining District Crystal City Double Springs Challis Bison Jump Bayhorse Mining District Donkey Hills horse trap
Four Rivers FO	Oregon National Historic Trail
Jarbidge FO	Toana Freight Wagon Road Devil Creek Complex Bruneau River/DryLakes Complex Browns Bench Obsidian Complex
Owyhee FO	Oregon National Historic Trail Silver City Historic District Delamar Historic District
Pocatello FO	Oregon National Historic Trail California National Historic Trail
Salmon FO	Lewis and Clark National Historic Trail Jaguar Cave Rag Town Buckhorn Mine Elmira Mine
Shoshone FO	Oregon National Historic Trail Wilson Butte Cave Richfield Pumphouse
Upper Snake FO	Birch Creek Rockshelters Oregon National Historic Trail Nez Perce National Historic Trail Bobcat Cave Jackknife Cave Black Canyon Rock Art Sites

Table 2. Well Known Historic Properties within the Planning Area.



While researchers in Idaho and Montana have developed varying cultural chronologies for prehistoric human use of the region, the general periods of use are similar and are discussed in very general terms here to outline prehistoric use of the planning area. The prehistoric cultural chronology for both Idaho and Montana include five general periods, the Early Prehistoric (PaleoIndian), ca. 13,500-8,000 B.P., three sub-periods of the Middle Prehistoric 8,000-300 B.P. and the Protohistoric/Early Historic 300-150 B.P. General overviews of archeological research in the region are provided in studies by Butler (1978, 1986), Meatte (1990), and Plew (2008), for southern Idaho, and Deaver and Deaver (1990) and Foor (1996) in southwestern Montana.

The most common type of historic cultural resource in the planning area relates to the mining of gold, silver, lead, and copper during the latter part of the 19th century and the early part of the 20th century. Such properties include mining camp remnants, ghost towns, miner's cabins, mining shafts, adits, mills, smelters, and an assortment of other mining related buildings, structures, and landscape features. Several comprehensive overviews of historic metal mining in Idaho and Montana have been produced in recent years, and provide the important context with which to evaluate such properties (McKay 2011; Godfrey 2003; Warhank 1999; Herbort 1995a and 1995b). Other historic period sites include transportation networks, trails, including the Oregon and California NHTs and associated side trails (e.g., Goodale's and Hudspeth Cutoffs) and the Lewis and Clark NHT, notable Lewis and Clark campsites, lumber mills, fur trapping shelters and cabins, homesteads, historic cemeteries, irrigation ditches, cow/sheep camps, shepherd cairns, stage stops and trash dumps.

### **3.2.3 Trends**

Federal lands will continue to be managed for the protection and preservation of cultural resources pursuant to regulation and policy. More concerted government-to-government consultation with tribes is occurring to address tribal resources and concerns. Prehistoric and historic resources are non-renewable and overtime have been diminished by unauthorized collection, looting and cumulative project impacts. However, efforts have increased in public education and outreach creating awareness about our nation's cultural heritage and tribal interests. These efforts have improved public understanding and awareness, resulting in increased preservation of cultural resources.

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### **Acronyms**

National Environmental Policy Act (NEPA)  
National Historic Preservation Act (NHPA)  
National Historic Trail (NHT)  
National Register of Historic Places (NRHP)  
national Programmatic Agreement (nPA)  
State Historic Preservation Officer (SHPO)  
Traditional Cultural Properties (TCP)



### **3.3 Tribal Rights and Interests (Sant & Gilbert 2012):**

The federal government has a unique and distinctive relationship with federally recognized American Indian Tribes as set forth in the Constitution of the United States, treaties, statutes, Executive Orders, judicial decisions, and agreements. This relationship is different from the federal government's relationship with state and local governments or other entities. The United States government has a trust responsibility to federally recognized American Indian tribes that covers lands, resources, money, or other assets held by the federal government in trust and the ability of those tribes to exercise their tribal rights. The United States recognizes American Indian tribes as sovereign nations. The tribes maintain active interests in the planning area. Tribal members use public lands to gather plants or other native materials (e.g., stone for flint-knapping), hunt animals, and fish.

Indian treaties are negotiated contracts made pursuant to the Constitution of the United States and are considered the "supreme law of the land." They take precedence over any conflicting state laws because of the supremacy clause of the Constitution (Article 6, Clause 2). Treaty rights are not gifts or grants from the United States, but are bargained for concessions. These rights are grants-of-rights from the tribes rather than to the tribes. The reciprocal obligations assumed by the federal government and Indian tribes constitute the chief source of present-day federal Indian law.

The BLM, and other federal agencies, have the responsibility to identify and consider potential impacts of project alternatives identified for sage grouse planning on Indian trust resources, including fish, game, and plant resources, and on off-reservation, treaty-reserved fishing, hunting, gathering, and similar rights of access and resource use on public lands. This also includes rights of access and use for ceremonial and other traditional cultural practices. The BLM, as lead federal agency, also has the responsibility to ensure that meaningful consultation and coordination concerning sage grouse planning is conducted on a government-to-government basis with federally recognized tribes to consider tribal treaty rights and trust resources. Public lands retain social, economic, and traditional value for tribal people, as well as contemporary and ongoing spiritual and cultural uses. Through consultation with the tribes, BLM is aware of their treaty and trust obligations and the tribes' desire to capitalize on opportunities that maintain or enhance resources critical to the exercise of treaty rights, traditional customs, subsistence, and cultural uses of the land.

BLM consultation with American Indian Tribes, as it pertains to tribal interests, treaty rights and trust responsibilities, is conducted in accordance with the following direction:

- Bureau Manual Handbook H-8120-1 – Guidelines for Conducting Tribal Consultation (Transmitted 12/03/04).
- The National Historic Preservation Act of 1966 as amended (P.L. 89-665; 80 Stat. 915; 16 U.S.C. 470)
- Archaeological Resources Protection Act of 1979 (P.L. 96-95; 93 Stat. 721; 16 U.S.C. 470aa et seq.) as amended (P.L. 100-555; P.L. 100-588)
- American Indian Religious Freedom Act of 1978 (P.L. 95-431; 92 Stat. 469; 42 U.S.C. 19960)
- Native American Graves Protection and Repatriation Act of 1990 (P.L. 101-601; 104 Stat. 3048; 25 U.S.C. 3001)
- Executive Order No. 12898 – Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, February 11, 1994.
- Executive Order No. 13007 – Indian Sacred Sites, May 24, 1996.
- Executive Order No. 13084 – Consultation and Coordination with Indian Tribal Governments, May 14, 1998.
- Government-to-Government Relations with Native American Tribal Governments (Memorandum signed by President Clinton; April 29, 1994).



- Order No. 3175 – Departmental Responsibilities for Indian Trust Resources (Section 2 of Reorganization Plan No. 3 of 1950 – 64 Stat. 1262; November 8, 1993).

The planning area is within the traditional and/or historical use area of the Blackfeet Tribe, Chippewa Cree Tribe, Confederated Salish-Kootenai Tribes, Confederated Tribes of the Colville Reservation, Confederated Tribes of the Umatilla Reservation, Crow Tribe, Eastern Shoshone Tribe, Nez Perce Tribe, Shoshone-Bannock Tribes, and the Shoshone-Paiute Tribes. These tribes lived, hunted, fished, gathered plant foods, buried their dead, and conducted religious ceremonies on lands within the planning area.

During the 1850s and 1860s, the United States negotiated treaties with some tribes in order to acquire Indian lands for homesteading. The treaties that apply to the project area include the Crow Treaty, Fort Benton Treaty, Fort Bridger Treaty, Hell Gate Treaty, Nez Perce Treaty, and Walla Walla, Cayuse, and Umatilla Treaty. More information on these specific treaties is presented below. No tribal treaties were afforded to the Chippewa Cree and the Confederated Tribes of the Colville Indian Reservation. The Shoshone-Paiute Tribes of the Duck Valley Indian Reservation assert aboriginal rights to their traditional homelands; however, the Boise Valley Treaty of 1864 and the Bruneau Valley Treaty of 1866 were never ratified. The Shoshone-Paiute Tribes believe that title to these lands was not relinquished and they continue to claim title, rights, and interests associated with these lands.

On May 7, 1868, the Crow Tribe and the United States signed the Treaty with the Crows, 1868, referred to as the Crow Treaty (15 Stat. 649). In the Crow Treaty, the tribes relinquished ownership of thousands of acres of land to the United States. The treaty also guaranteed a permanent homeland for the Crow Tribe in southeastern Montana, which became known as the Crow Reservation. Article 4 of the treaty also states the tribe's right to "hunt on the unoccupied lands of the United States so long as game may be found thereon."

On October 17, 1855, the Blackfeet and the United States signed the Blackfeet Treaty of Fort Benton, 1855, referred to as the Fort Benton Treaty (11 Stat. 657). In the Fort Benton Treaty, a great majority of the land was designated as common hunting ground for the Blackfeet and neighboring tribes. In 1888, lands were set aside in north-central Montana for the Blackfeet Indian Reservation.

On July 3, 1868, the Eastern Band Shoshone and Bannock Tribes and the United States signed the Treaty with the Eastern Band Shoshoni and Bannack, 1868, referred to as the Fort Bridger Treaty (15 Stat. 673). In the Fort Bridger Treaty, the tribes relinquished ownership of approximately 20 million acres to the United States. The Eastern Band Shoshone were guaranteed a permanent homeland in western Wyoming, which has become known as the Wind River Indian Reservation. The Bannock and other bands of Shoshone were guaranteed a permanent homeland as well which ended up being in southeast Idaho, known as the Fort Hall Indian Reservation. Article 4 of the treaty also retains the tribes' rights to hunt, fish, and gather natural resources (including timber), and provides other associative rights necessary to effectuate these rights on the unoccupied lands of the United States.

On July 16, 1855, the confederated tribes of the Flathead, Kootenay (sic), and the Upper Pend d'Oreilles Indians and the United States signed the Treaty with the Flatheads, etc., 1855, referred to as the Hell Gate Treaty (12 Stat. 975). The treaty guaranteed a permanent homeland for the confederated tribes in northwestern Montana, which has become known as the Flathead Reservation. Article 3 of the treaty also retains the tribes, "privilege of hunting, gathering roots, and berries, and pasturing their horses and cattle upon open and unclaimed lands."

On June 11, 1855, the Nez Perce Tribe and the United States signed the Treaty with the Nez Percés, 1855, referred to as the Nez Perce Treaty (12 Stat. 957). In the Nez Perce Treaty, the tribes relinquished ownership of millions of acres of land to the United States. The treaty also guaranteed a permanent



homeland for the Nez Perce Tribe in northern Idaho, which became known as the Nez Perce Reservation. Article 3 of the treaty also asserts the tribe's right to "take fish at all usual and accustomed places in common with citizens of the [Washington] Territory; and of erecting temporary buildings for curing, together with the privilege of hunting, gathering roots and berries, and pasturing their horses and cattle upon open and unclaimed land."

On June 9, 1855, the Walla Walla, Cayuses, and Umatilla tribes and the United States signed the Treaty with the Walla Walla, Cayuse, etc., 1855 (12 Stat. 945). In the treaty, the tribes relinquished 6.4 million acres of land to the United States. The treaty also guaranteed a permanent homeland for the Walla Walla, Cayuse, Umatilla, and other tribes in northeastern Oregon, which became known as the Confederated Tribes of the Umatilla Indian Reservation. Article 1 of the treaty also retained the tribes' right to "hunt, gather roots and berries, and pasture stock on unclaimed lands of the United States."

BLM manages portions of these "unoccupied or unclaimed lands". Members of the interested tribes to this proposed action exercise their hunting, fishing, and gathering rights on federal lands outside of the boundaries of their reservations. Currently, there is little specific information available on the exact animal species hunted, plant species gathered, or locations used by American Indians exercising their treaty rights within the boundaries of the project area.

### ***References***

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## Terrestrial Wildlife (Non-Federal Listed or Sensitive Species)

### Laws, Regulations, and Policies

Wildlife habitat management on public lands administered by the BLM and FS are directed by the following laws, executive orders, and policies applicable to this document:

- Federal Land Policy and Management Act of 1976
- National Forest Management Act of 1976
- National Environmental Policy Act of 1969
- Fish and Wildlife Coordination Act of 1958
- Water Quality Act of 1987, as amended from the Federal Water Pollution Control Act of 1977
- Public Rangelands Improvements Act of 1978
- Sikes Act of 1974
- Bald Eagle Protection Act of 1940
- Eagle Protection Act of 1962
- Endangered Species Act of 1973
- Migratory Bird Treaty Act of 1918
- Taylor Grazing Act of 1934
- Emergency Wetland Resources Act of 1986
- Fish And Wildlife Conservation Act of 1980
- Streamside Management Zone Law
- Montana Stream Protection Act
- Idaho Stream Channel Protection Act of 1971
- Executive Order 11514, Protection and Enhancement of Environmental Quality
- Executive Order 11988, Floodplain Management
- Executive Order 11990, Protection of Wetlands
- Executive Order 11987, Exotic Organisms
- Executive Order 11989, Off-Road Vehicles
- Executive Order 13186, Migratory Birds
- Interior Department Manual 520 – riparian habitat
- Title 43 Code of Federal Regulations, Part 24—Department of the Interior Fish and Wildlife Policy: State-Federal Relationship
- BLM Manual 1737 – riparian habitat BLM Manual 6500 - wildlife, fish and plant resources
- BLM Manual 6840 – special status species
- Memorandum of Understanding April 2010 – FWS and BLM-migratory bird conservation
- Memorandum of Understanding May 2008 – WAFWA, USFWS, BLM, and USFS—sage grouse conservation
- Memorandum of Understanding May 1986 – Coordination with BLM/Idaho Department of Fish and Game
- Memorandum of Understanding October 1977 – BLM/Coordination with Montana FWP

**Comment [ETR1]:** Brent, see this site for noxious weed laws and policies. Need to address Montana's also.

<http://www.agri.state.id.us/Categories/PlantsInsects/NoxiousWeeds/Documents/Idaho%20Invasive%20Species%20Strategy%202012-2016.pdf>

- Memorandum of Understanding October 1971 – BLM/Coordination with Montana FWP
- Need MOU with Utah Division of Wildlife Resources if appropriate (FS only)
- Need MOU with Nevada Division of Wildlife (DWA)
- Need other MOUs and policy documents from FS

Comment [ETR2]: Brent, need these items.

### Indicators

Potential impacts to terrestrial and riparian habitat are associated with the following indicators:

- Availability and amount of sagebrush steppe and riparian habitats
- Size, number, and connectivity of sagebrush steppe habitat patches
- Description of the landscape matrix in which patches are imbedded that describe fragmentation
- Anthropogenic disturbances that can be measures as the number, length, or area of the features

### Affected Environment:

The BLM and Forest Service generally manage wildlife habitat, and the state wildlife management agencies manage wildlife populations. These habitats reflect the influence of a variety of past and ongoing human activities and disturbances, resulting in increases in some species populations, declines in others, and the modification of large blocks of habitat. These habitats and the wildlife species that rely on them rarely exist solely on BLM or Forest Service lands, and often extend across administrative boundaries to other federal, state, and private lands.

The BLM and Forest Service administered lands in the Idaho/southwest Montana planning area provide a variety of habitats. Public land ownership ranges from mostly sagebrush habitats in Owyhee County, Idaho, to scattered public lands with intermingled private and state lands composed of sagebrush habitats in southwestern Montana. On public lands, these habitats can be segregated into four major habitats groups: sagebrush steppe, riparian/wetlands, non-native grasslands, and conifer woodlands/forests. These habitats serve as a basis, to the extent practical, for describing existing conditions, and for developing and comparing management alternatives throughout the planning effort.

### Sagebrush Steppe Habitats

Sagebrush steppe habitats in the planning area are found in the Snake River Plain and minor portions in the Wyoming Basins floristic provinces identified by West (1983) and Kuchler (1970).

These sagebrush habitats are the dominant habitat within the planning area. Riparian/wetland habitats, non-native grasslands and conifer/woodland forest habitats are interspersed within and adjacent to sagebrush habitats.

Sagebrush habitats occur from lower elevation (2,500 ft.) drier salt desert shrub communities to mountain shrub communities at 10,100 feet in elevation. Sagebrush habitats support a wide diversity of generalist wildlife species, as well as sagebrush-dependent wildlife species.

At mid to lower elevations, Wyoming big and basin sagebrush are the dominant habitat types that provide important winter habitat for mobile wildlife species such as mule deer, pronghorn, and sage-grouse, and localized yearlong habitat by sagebrush-obligate species such as pygmy rabbit. Much of the basin big sagebrush habitats are limited to deeper soils near ephemeral drainages. Intermingled occurrences of basin big sagebrush, mountain big sagebrush, tall three-tip sagebrush, and several low sagebrush's such as low (little) and black sagebrush add to the diversity of vegetation and habitat structure. At higher elevations, moist mountain big sagebrush communities provide elk calving and sage-grouse brood-rearing habitat along with dispersed spring, summer and fall habitat for numerous other species, often in association with conifer woodland/forested habitat. Mixed sagebrush communities and localized dominance by other sagebrush species on specific sites within the broader sagebrush types often support uniquely dependent wildlife uses, such as pygmy rabbits.

Many sagebrush steppe habitats have been modified or disturbed throughout the planning area during the past 150 years; therefore the species dependent upon them have usually been negatively affected. Primary factors causing change in sagebrush steppe habitats are wildfire and changes in fire regimes, invasive species, anthropogenic development, and livestock grazing (Miller et al. 2011, Knick et al. 2011). Wildfire and changes in fire regimes effects xeric sagebrush steppe and is highly influenced by the spread of invasive species, especially exotic annual grasses such as cheatgrass or medusahead. In these lower elevation habitats, fire return intervals are greatly shortened and prevent the reestablishment of sagebrush. Large areas of the Snake River Plain in southern Idaho have undergone these habitat changes, thus making habitats less suitable for wildlife.

Past management activities that reduce sagebrush habitats include herbicide application, plowing, or other techniques followed by seeding of non-native perennial grasses. These land treatments or burned areas following wildfire have historically been seeded to highly competitive introduced species such as crested wheatgrass, desert wheatgrass, and Siberian wheatgrass. The characteristics that made these introduced species effective for seeding establishment also created communities dominated by near monocultures, which resulted in

poor quality habitats for wildlife lacking sagebrush or forbs (Pyke 2011). Recent policies have encouraged native seed mixes but many times native seed supplies are limited or not affordable in current budgets. Seed in some seed mixes used in these treatments may have been selected for other wildlife species and not specifically for sage-grouse (Knick et al. 2011).

In higher elevations of sagebrush steppe, conifer woodlands/forests have encroached into sagebrush habitats. Miller and Rose (1999) identified that the encroachment of conifer woodlands/forests was the result of longer fire return intervals that permitted woodland expansion to occur into sagebrush steppe. Conifers greater than 50 years old on productive sites and greater than 90 years on nonproductive sites results in reduced fire frequency, permitting the establishment of conifers on the site (Burkhardt and Tisdale 1976, Bunting 1984, Miller and Rose 1999). A number of studies identified a widespread decline in fires at the sagebrush/conifer interface with the coincidence of large numbers of livestock in the late 1800s (Miller and Rose 1999, Heyerdahl et al. 2006, Swetnam et al. 2001). These large numbers of cattle may have reduced the current year's fuel loads and changed the structure and abundance of fuels, thus reducing the frequency of wildfires (Miller et al. 2011). Increased tree dominance by conifers results in a decline of cover by sagebrush and other shrubs.

Anthropogenic development has reduced the amount and quality of sagebrush steppe habitat across the much of the planning area. Much of the activities have occurred on private lands but infrastructure to support urbanization and agriculture along the Snake River Plain and other waterways has occurred on public lands. Many of these types of facilities or uses include railroads, roads, power lines, pipelines, irrigation canals, communication towers, military training, and off-highway vehicle use (Knick et al. 2011).

Livestock grazing is the most widespread land use across sagebrush steppe habitats from the 1880's to present. Livestock numbers and use of these habitats was greatest from the late 1880's through the 1930's. During this period the greatest change occurred to these habitats as a result of heavy livestock use and drought that resulted in loss of soil and depleted native vegetation communities that greatly impacted these habitats (Knick et al. 2011). From the 1940's until the 1980's, plowing, herbicides, and burning followed by seeding non-native perennial grasses to increase forage for livestock production occurred, thus impacting many sagebrush habitats in southern Idaho.

### **Riparian/Wetland Habitats**

Riparian habitats are regarded as one of the most important habitats for wildlife due the availability of water and the structural diversity of the vegetation communities. Approximately

75 percent of all wildlife species utilize riparian habitats for at least some portion of their annual life cycle (EPA 1990). Riparian habitats are estimated to make up approximately one percent of all habitats in the planning area. The riparian habitats in the planning area are composed of lotic systems that are associated with running water or lentic/wetland habitats associated with standing water.

Riparian habitats in the planning area have been subject to many activities that have affected their functionality and their ability to support wildlife. These activities include dewatering for irrigation, domestic cattle grazing, road construction, dam construction, and land treatments. The impacts from these activities include changes in plant species composition and structure, vegetative cover, sedimentation, changes in water quality and temperature, streambank alteration, and duration of available water.

Currently XX percent of riparian habitats are in proper functioning condition (See Vegetation section). Wildlife habitat values are degraded on riparian habitats with functional-at-risk or nonfunctional conditions.

**Big Game**

The planning area hosts a wide variety of big game species including mule deer, pronghorn, and elk that use habitats associated with sagebrush steppe and riparian habitats. Other big game species that are found in these habitats but in lesser amounts include bighorn sheep, moose, and white-tailed deer. Table XXX identifies the approximate number of acres of big game habitat by species in the planning area. The planning area provides habitat for all seasonal use periods for mule deer, pronghorn, elk, bighorn sheep, and other species. These species are generally widespread across the entire planning area.

Table XXX Big Game Habitat

Species	On All Lands Within the Planning Area (acres)	On BLM and FS Administered Lands in the Planning Area (acres)
Mule Deer		
Pronghorn		
Elk		
Bighorn Sheep		

Comment [ETR3]: Need GIS data to complete table.

Mule deer are the most abundant and widely distributed big game animal. Mule deer populations and mule deer habitat have changed greatly during the past 100 years. Loss of steppe habitats, conversion of native landscapes to agriculture or residential development, and

past and current grazing management are key management issues for mule deer populations throughout the planning area (Cox et al. 2009).

Within the planning area mule deer populations vary greatly from current population objectives. In southeast Idaho populations have undergone declines following the winters of 1992- 1993 and have been slow to respond to changes in management activities (IDFG 2011a). This has resulted in Idaho Department of Fish and Game developing an initiative to target this area of the state to modify management strategies and improve habitat conditions for mule deer. In other portions of the planning area, including south-central Idaho and southwest Montana, populations appear to be stable or increasing but are below levels observed in the late 1980s and early 1990s (IDFG 2011a).

Mule deer are primarily browsers and their diet is composed mostly of leaves and twigs of shrubs, especially during the winter. Grasses and forbs are also crucial components of their diet in the spring and summer. The quality and quantity of nutritious forage in spring (April-July) has major implications on the production and survival of fawns. Summer-fall ranges are important because this is where deer produce fat reserves that will allow survival through winter. The quality of summer-fall forage also directly influences pregnancy and ovulation rates and, therefore, fawn production. Much of Idaho's historic mule deer winter range has been developed for other uses and is now occupied by man. Residential, commercial, and industrial developments located in the foothills and at lower elevations have eliminated winter range (IDFG 2011a).

Pronghorn distribution has changed relatively little since the early 1980's but numbers have trended downward since the winters of 1993-1994 (IDFG 2011b). Pronghorn are typically associated with sagebrush habitats, but readily use grasslands if there are adequate amounts of forbs (Yoakum 2004a). In sagebrush habitats, pronghorn diets consist of sagebrush and other shrubs during all seasons, but particularly in the fall and winter (Yoakum 2004a). Forbs are preferred by pronghorn when available (Yoakum 2004b). The availability of forbs in sagebrush habitats may have important implications for pronghorn because they are rich in nutritional values required for reproduction (Pyrah 1987, Yoakum, 2004b). Large landscape level fires have reduced the availability of sagebrush in parts of their range. In portions of the planning area extensive fencing has contributed to the inability of some populations to access otherwise suitable habitats. Noxious weeds, livestock grazing, and drought has also impacted current pronghorn populations and their habitat.

Elk are found throughout the planning area in sagebrush steppe and associated conifer/forested woodlands. Elk are considered generalists and are not totally dependent upon

sagebrush steppe, but they do require food, water, and where hunted, hiding cover and security areas. The combination of the resources determines the distribution and number of elk within sagebrush steppe. Elk populations in the planning area are generally at or above state wildlife management agencies objectives (IDFG 2011c).

Other big game species, such as moose, bighorn sheep, and white-tailed deer are also found in the planning area. Moose and white-tailed deer are generally associated with riparian/wetland habitats. Bighorn sheep usually are found near escape terrain composed of steep rugged slopes and make use of sagebrush steppe year round in southwest Idaho. In east central Idaho and southwest Montana bighorn sheep generally make use of sagebrush steppe near escape terrain during the winter and spring.

### **Migratory Birds**

There are at least XXX species of migratory birds that occur on the planning area during part of the year, including over 40 species of greatest conservation need in Idaho (IDFG 2005). These birds are as diverse as the Calliope hummingbird, green-tailed towhee, Brewer's sparrow, ferruginous hawk, mallard, and sandhill crane. Most of these birds are summer residents that use habitats ranging from low elevation wetlands to high elevation forests for breeding and raising young. Some species such as American robin and mallard are migratory, but small populations may be present yearlong depending on seasonal conditions. Winter residents such as the rough-legged hawk, snow buntings, and rosy-crowned gray finches arrive from arctic breeding grounds, or high elevation alpine areas to utilize winter habitats in sagebrush steppe, seasonally replacing summer residents.

The 1988 amendment to the Fish and Wildlife Conservation Act mandates the U.S. Fish and Wildlife Service to "identify species, sub species, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become candidates for listing under the Endangered Species Act of 1973." Birds of Conservation Concern 2008 (USDI-FWS 2008) is the most recent effort to carry out that mandate and identifies those species in greatest need of conservation action in specific geographic bird conservation regions (BCR). The planning area overlaps three bird conservation regions. These regions include the Great Basin, Northern Rockies, and a very small portion of the Southern Rockies/Colorado Plateau. The list of species likely to occur in sagebrush steppe and riparian/wetlands of this planning area for these three conservation regions can be found in Appendix XXX. This mandate was emphasized with the issuance of Executive Order 13186 directing federal land management agencies to develop cooperative plans to protect and manage habitat for all migratory birds. Expansion of funding opportunities under the North American Wetlands Conservation Act and other



partnership opportunities through the North American Bird Conservation Initiative will support increased management consideration for these species.

### **Furbearers/Upland Game/Non-Game**

A large variety of other wildlife species occur within the planning area that utilize both sagebrush steppe, riparian/wetland habitats, and non-native grasslands and conifer woodland/forests habitats within and adjacent to sagebrush steppe. Furbearers commonly found in these habitats include red fox, bobcat, muskrat, beaver, and mink. River otter may be present but generally in low numbers as they are generally associated with larger river riparian systems. Cottontail and pygmy rabbits are found throughout the planning area and their numbers are variable as populations are cyclic. Pygmy rabbits, a species of greatest conservation need in Idaho, are found in big sagebrush habitats with relatively deep, loose soils that provide food and shelter. Upland game birds common or locally abundant in the planning area include Columbian sharp-tailed grouse, chuckar, gray partridge, California quail, dusky (blue) grouse, and ruffed grouse.

Many other species of non-game wildlife have limited information on their distribution or life history requirements. Information on these species is maintained by the Idaho, Montana, Utah, and Nevada Natural History Programs within each state. Site specific inventories have not been made for many of the species but information about species distribution and relative abundance continues to be modified as funding becomes available. Appendix XXX identifies wildlife species likely to occur in sagebrush steppe and riparian/wetland habitats in the planning area.

### **Amphibians/Reptiles**

Amphibians have been recognized as important indicators of ecosystem health as many populations are declining in the western United States. Amphibians are generally found near some form of water. There are 8 species of salamanders, frogs, and toads found in the planning area including three species of greatest conservation need in Idaho (IDFG 2005). Appendix XXX identifies the species that are likely to occur in or adjacent to sagebrush habitats and riparian/wetland habitats.

There are 16 species of reptiles occurring in sagebrush habitats and riparian/wetland habitat in the planning area. These include seven lizards, one turtle, and eight species of snakes. The sagebrush lizard and short-horned lizard are two of the most common species associated with sagebrush habitats. Two snake and two reptile species found in the planning area are species of greatest conservation need in Idaho (IDFG 2005). Appendix XXX identifies the species that are likely to occur in or adjacent to sagebrush habitats.

## **Insects**

Insect occurrence and distribution are not generally specifically considered in land management activities. Three species of insects that are identified as sensitive species due to their limited distribution occur in or immediately adjacent to sagebrush habitats. These species include Idaho pointheaded grasshopper, St. Anthony Sand Dunes tiger beetle, and Bruneau Dunes tiger beetle. See Sensitive Species section.

Insects provide important food sources for many species of wildlife including adult and juvenile sage-grouse. Although there are thousands of species of insects occurring in sagebrush and riparian/wetland habitats, species in the *Scarabeidae* and *Tenebrionidae* (beetle) families, *Formicidae* (thatch ants) family, and *Orthoptera* (grasshopper) family play a crucial role in the diet of many wildlife species (including sage-grouse) as a high protein food source (Klebenow and Gray 1968, Peterson 1970, Johnson and Boyce 1990, Pyle 1993, Fischer 1994, Drut et al. 1994).

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## LIVESTOCK GRAZING

The foremost authority that provides for grazing of public lands administered by the BLM is the “Taylor Grazing Act” (TGA) which was passed on June 28, 1934, to protect public rangelands and their resources from degradation, to provide for orderly use to improve and develop public rangelands, and to stabilize the livestock industry. Following various homestead acts, the TGA established a system for allotting grazing privileges. The Federal Land Management Policy Act (FLPMA, 1976) and the Public Rangeland Improvement Act (PRIA 1978) also provide authority for managing grazing on public rangelands managed by the Bureau of Land Management. BLM grazing administration exclusive of Alaska is governed by 43 Code of Federal Regulations (CFR) subpart 4100.

Authority to regulate grazing and issue permits on “forest reserves” was authorized by Congress as early as 1897 with the passage of the Organic Administration Act. With the establishment of the U.S. Forest service in 1905, authority to protect, manage, and administer grazing of lands administered by the agency is provided for in the Granger-Thye Act of 1950, which authorizes the Forest Service to issue grazing permits and use grazing receipts for range improvements and provides direction on establishment of local grazing advisory boards and other purposes. The Multiple Use-Sustained Yield Act of 1960 and Federal Land Policy and Management Act of 1976 establish the policy and purpose of the National Forests to provide for multiple-use and sustained yield of products and services including the regulation of grazing fees and permits. The Forest Rangeland Renewable Resources and Planning Act of 1974 and the National Forest Management act of 1976 authorize long-range planning to ensure the future supply of forest resources, and the availability of lands and their suitability for resource management. The Public Rangelands Improvement Act of 1978 defines the current grazing fee formula and establishes rangeland monitoring and inventory procedures. Forest Service grazing administration is primarily governed by 36 CFR Part 222, Subpart A.

The BLM grazing administration regulations were revised in 1995 to include Fundamentals of Rangeland Health and Standards and Guidelines for Grazing Administration (43 CFR § 4180). In accordance with 43 CFR § 4180.2, both the Idaho Standards for Rangeland Health and Guidelines for Livestock Grazing Management, and the Standards for Rangeland Health and Guidelines for Livestock Grazing Management for Public Lands Administered by the Bureau of Land Management for Montana and the Dakotas were placed in effect on August 12, 1997 (Appendix XX) and subsequently apply to grazed BLM lands in the planning area. Standards are integrated into the BLM’s land management through incorporation into land use plans, as a basis for environmental assessments and through NEPA analysis, and as a basis for monitoring. Guidelines are integrated into land management by incorporating them into livestock grazing authorizations and management practices. The standards and guidelines provide a clear statement of agency policy and direction for those who use public lands for livestock grazing and for those who are responsible for their management and accountable for their conditions. In accordance with 43 CFR part 4180, if it is determined that grazing management practices or levels of grazing are significant factors in failing to achieve the standards and conform with the guidelines, appropriate action shall be taken prior to the next grazing season to make progress towards Standards and conform to the Guidelines.

3.2.1 Indicators

The indicator for rangelands and livestock grazing are:

- Change in acres available for grazing;
- Change in AUMs permitted on allotments; and
- Types of livestock authorized on allotments.
- Acres or allotments meeting or making progress towards meeting Rangeland Health Standards (BLM lands)
- Allotments managed under current grazing decisions/NEPA review less than 10 years old

**Comment [KMW1]:** Should there be an indicator associated with range improvements needed to manage livestock?

I don't fully understand the indicators listed and how these will be used to describe the current condition and effects of the alt.

Existing Conditions

On BLM lands, a grazing permit is the document which authorizes livestock grazing use of the public lands within an established grazing district, whereas a grazing lease is the document which authorizes livestock grazing use of public lands outside an established grazing district (43 CFR § 4100.0-5). The kind and number of livestock, the period of use (seasonal), the allotment to be used, and the amount of use in animal unit months (AUMs) are mandatory terms and conditions of every grazing permit or lease (43 CFR § 4130.3). An AUM is the amount of forage necessary for the sustenance of one cow or its equivalent for one month and an allotment is an area of land designated and managed for grazing of livestock (43 CFR § 4100.0-5). The BLM manages livestock grazing on 2,750 allotments comprising approximately 12,385,137 acres on BLM-managed land in the planning area (see Figure 19 3-X, Grazing Allotments).

Grazing on USFS lands is permitted through term grazing permits that authorize grazing on National Forest System lands. The holding of such permits is a privilege, not a property right and permit holders may not assign or transfer grazing privileges in whole or part (36 CFR § Subpart A 222.1-4). The term grazing permit authorizes the number, kind, and class of livestock as well as the period of use and grazing allotment on which livestock are permitted to graze. There are XX allotments comprising XX acres on USFS-managed land in the planning area (see Figure 19 3-X, Grazing Allotments).

Table 3-X, Idaho/Southwest Montana Subregion Planning Area – Allotments, provide information on the allotments managed in the planning area. Of the XX allotments managed in the planning area, XX contain preliminary general habitat, preliminary priority sage grouse habitat or both.

District or Forest	Allotments	Acres (public land Acres?)	Active AUMs	Non Habitat	PGH	PPH
BLM Boise District						
BLM Idaho Falls District						
BLM Twin						

**Comment [KMW2]:** Include temporary suspended AUMs?

Falls District						
USFS -						
TOTAL						

Facilities for livestock management on public lands in the planning area occur at varying densities based upon management needs, land ownership patterns and other factors. These facilities include, but are not limited to fences, cattleguards, corrals, pipelines, water troughs, wells and reservoirs. Fences are used to delineate allotment boundaries, pastures within allotments, land ownerships, and to exclude the impact of ungulate grazing from certain resources. Corrals are smaller fenced areas that are occasionally located on public lands for the purposes of gathering, sorting and handling livestock. Watering facilities are used to improve livestock distribution in areas where naturally occurring surface water is not available, and to reduce livestock use of naturally occurring springs and streams. In addition, supplemental salt, mineral and protein may be provided for livestock grazing on public lands.

As of 2012, an assessment of rangeland health standards and guidelines has been made on 2,219 BLM allotments comprising 9,978,899 acres within the planning area. Of the allotments which have been assessed; 1,403 allotments comprising 3,509,733 acres are meeting all applicable standards and guidelines. An additional 451 allotments comprising 4,581,851 acres are not achieving one or more of the applicable standards and guidelines due to livestock grazing management, but management actions have been implemented to correct the identified issues. On 61 allotments comprising 660,901 acres, standards are not being achieved due to livestock management, but management actions have not yet been taken to make progress towards meeting standards. On 293 allotments comprising 1,226,179 acres, one or more applicable standards was not met due to factors other than livestock management. Standards and guidelines assessments have not been completed on 528 allotments comprising 2,406,238 acres within the planning area.

Evaluation of the Standard and Guidelines have been completed on 2,219 BLM Allotments comprising 9,978,899 acres. Following is a breakdown of the attainment of the standards by number of allotments.

Standard	# of Allotments			
	Meeting	Not-meeting (Not livestock)	Not-meeting due to livestock	Not Present (N/A)
1	1,403	293	512	0
2	800 (?)	50?	500	869
3	300	50	150	
4				
5				
6				
7				
8				

(Disclaimer: a portion or all of a specific standard above may not be meeting, however for this analysis if a portion of the standard recorded as not being met in the evaluation, then the entire allotment was noted as not being met in the table above.)

- Actions have been taken on # allotments not meeting due to livestock

**Comment [KMW3]:** Are we planning on putting in a table that identifies the estimated miles of wire fences, there condition? Let-down fences vs. permanent fences (this could change the effects analysis, because if it is a let-down fence in winter habitat, then there would be minimal effect to SG vs a permanent fence). I would think we wouldn't want to include wood or steel rail fences. Number of wells and associated pipelines, developed springs with pipeline/trough and of those how many are currently floated vs overflow systems. A good description of the current environment/situation of the existing range improvements here will make it easy to identify effects... (ex. How many miles of fence are high collision hazard, moderate (letdown), low (wood rail). How many miles may need to be modified to reduce collision haz.

**Comment [KMW4]:** If we are talking about the standards, then somewhere all of the standards should be described/identified (in the appendix?)

I think its important to remember that the standards apply to the resource and that there are numerous activities that could be causing them to not be met. I think the following sections in the affected environment should touch on their applicable standard: Vegetation section = standard 1,4,5,6; water resources = standards 3,7,2?,

**Comment [KMW5]:** I'm trying to figure out how the acre figures were reached? If 1,000 acre allotment was not meeting one of the standards, did the entire 1,000 acres fall into not meeting? I could see this rational for Standards 1 (watershed), 4 (Native plant communities), possibly 8 (T&E); however if the 1,000 acre allotment is not meeting a standard related to water (standard 2,3,7) I don't think we want to say 1,000 acres is not meeting when we claim those not meeting units in miles of stream or if we did claim acres of riparian not meeting it would be significantly smaller than the 1,000 acres allotment. If standard 5 (seedings) is not meeting, then we should only equate the acres to the seeding not the entire allotment.

Possibly it would be better to get away from acres and discuss # of standards being met across the assessed allotments. See example

If we continue to want to quantify the amount of area not meeting the standard, then I think we would have to identify total miles of stream, acres of riparian, acres of seedings, acres of exotic plant communities, acres of native plant communities. The only standard that would apply to the total acres assessed (9,978,899) would be standard 1 watersheds.

**Comment [KMW6]:** Under this structure, the acres or miles of streams not meeting or meeting could be described under the resource to which the standard applies. (# of miles not meeting standard would be described in the water resource section).

- 528 allotments comprising 2,406,238 acres within the planning area has not had S&G evaluations completed.

**Acronyms**

AUM - Animal Unit Month  
BLM - Bureau of Land Management  
CFR - Code of Federal Regulations  
FLPMA - Federal Land Policy and Management Act of 1976  
GTA – Granger-Thye Act of 1950  
NEPA - National Environmental Policy Act of 1969  
PGH - preliminary general habitat  
NFMA – National Forest Management Act of 1976  
PL - Public Law  
PPH - preliminary priority habitat  
PRIA - Public Rangelands Improvement Act of 1978  
TGA - Taylor Grazing Act of 1934



## **CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

### **3.2 Energy and Minerals**

The BLM reviewed the LUPs being amended under this RMPA/EIS and other relevant information sources (such as LUP amendments, maps and state Greater Sage-Grouse conservation assessments) for existing conditions and trends in Minerals-related activities with respect to Greater Sage-Grouse and their habitat. The Affected Environment is discussed in terms of indicators, existing conditions, and trends, and is summarized in the following section as it relates to Minerals.

#### **3.2.1 Indicators**

Indicators are factors that help focus the description of the existing conditions on specific characteristics relevant to establishing context for evaluating impacts and for addressing the issue statements raised during scoping. Indicators for evaluating impacts from mineral-related activities on sage grouse habitat in the planning area are:

- The number of mineral operations currently authorized in sage grouse habitat;
- The size of mineral operations in sage grouse habitat;
- The types of uses and intensity of uses associated with mineral exploration and development;
- The restrictions that can be placed on locating, leasing, and/or purchasing various mineral commodities that occur on public lands in the planning area;
- The amount of land made unavailable for mineral resource exploration and development;
- The potential for the occurrence of mineral exploration and development on the lands.

#### **3.2.2 Existing Conditions**

##### ***Fluid Leasable Minerals***

The right to drill for and develop fluid minerals, namely oil and gas and geothermal resources, on Federal land may only be acquired through a mineral lease, offered and administered by the BLM in accordance with the Mineral Leasing Act of 1920, as amended and supplemented (30 U.S.C. 181 *et seq.*). An oil and gas lease can be up to 2560 acres in size, while a geothermal lease can be up to 5280 acres in size. Both types of leases are issued for an initial 10-year term, which is renewable if the lease is developed diligently. The BLM can modify the right conveyed by a lease by attaching a stipulation, which is an enforceable condition of the lease. During the leasing process, BLM may apply stipulations (for example No Surface Occupancy, Controlled Surface Use, and Timing Limitations) to all or parts of a lease in order to protect a wide range of resources including soils, watersheds, cultural resources, and wildlife (e.g., sage grouse).

## **CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

Stipulations may impact the availability of fluid mineral resources on a lease by restricting the timing and/or location of exploration and development activities.

The issuance of a lease does not, in and of itself, authorize any surface disturbing activities. If a lessee wishes to conduct exploratory drilling, an application for permit to drill (APD) must be submitted to BLM. An environmental analysis is conducted and as a result, BLM may attach additional, site-specific and activity-specific conditions, called Conditions of Approval or Best Management Practices, to the drilling permit. BLM cannot deny operations on a lease unless the operation would violate other nondiscretionary statutes, such as the Endangered Species Act (ESA) or the Clean Water Act. In cases where surface operations would have unacceptable environmental impacts, BLM's authority to deny operations on the lease, if not specified in a particular statute, must be established in the lease through the use of lease stipulations.

All leases, regardless of whether they have additional stipulations, are offered with standard terms and conditions. In accordance with a 2002 Instruction Memorandum from the BLM Washington Office, all fluid mineral leases must include the following stipulation:

### **Endangered Species Act Section 7 Consultation Stipulation**

The lease area may now or hereafter contain plants, animals or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. 1531 *et seq.*, including completion of any required procedure for conference or consultation.

All geothermal and oil and gas leases in Idaho contain the ESA consultation stipulation. There is also a mandatory cultural resource protection stipulation applied to all leases.

Stipulations to protect other resources, such as sage grouse, are developed during the land use planning process. Stipulations must be necessary and justifiable: If a lessee is to be prevented from extracting oil and gas on a lease and the prohibition is not mandated by a specific, nondiscretionary statute such as the ESA, the stipulation is necessary and is to be used. A stipulation is justifiable if there are resource values, uses, and/or users present that cannot coexist with fluid mineral operations, cannot be adequately managed and/or accommodated on other lands for the duration of operations, and provide a greater benefit to the public than that of the fluid mineral operations. If a ground disturbing activity is proposed on the lease during any given year, the authorized officer may modify or waive restrictions if actual conditions do not warrant them.

## **CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

### **Conditions of the Planning Area**

#### **Oil and Gas-**

There has never been a single producing oil and gas well in the entire state of Idaho, despite the drilling of over 150 wildcat wells in the state since the early 1900's. As of January 18, 2013, Idaho BLM has four Federal O&G leases- two are located on split estate and BLM lands on the Bear Lake Plateau, and two are located on split estate lands near Gray's Lake in Bonneville County. The leases were issued in 2006 for an initial term of 10 years. No drilling or exploration has occurred on any of the leases nor has any activity been proposed, however a wildcat well was drilled on private land near the Gray's Lake leases in 2007. The well was drilled to approximately 11,000 feet without encountering an economically viable hydrocarbon source. Additionally, a company has drilled numerous wells on private lands in the New Plymouth area of southwest Idaho, and is planning to develop a natural gas field. BLM-administered lands are located near this field and have been nominated for leasing, however leasing is being deferred until completion of the Four Rivers RMP. There is no sage grouse habitat in this area.

The two leases on the Bear Lake Plateau are located in sage grouse habitat and each have the following stipulation (as well as several others not directly related to sage grouse):

In order to protect important seasonal wildlife habitat (sage grouse leks, sage grouse brood rearing, sage grouse winter range, and deer winter range), exploration drilling and other development activity will be allowed only during the period from 7/1 to 11/30. This limitation does not apply to maintenance and operation of producing wells. Exceptions to this limitation in any year may be specifically authorized in writing by the Authorized Officer of the BLM.

The Dillon FO has 63 active oil and gas leases, none of which are producing, according to the Dillon RMP. None of the leases appear to be located in sage grouse habitat, however many leases likely contain timing limitations for other wildlife species, as the Dillon RMP (Map 21) shows that much of the field office is covered by stipulations restricting activities during critical seasons for other wildlife species or prohibiting all surface occupancy.

#### **Geothermal-**

Idaho's prospects for development of geothermal resources are better than those for oil and gas. There are currently 25 Federal leases in Idaho, covering approximately 60,000 acres. Leases are scattered across southern Idaho, but are primarily located near Raft River, Crane Creek, and Parma, Idaho. There are no active leases currently in the Dillon FO. Seventeen of Idaho's 25 geothermal leases are located in sage grouse habitat, and all have existing stipulations protecting sage grouse habitat during critical seasons (as well as having stipulations to protect crucial habitat for other species):

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- Each of the nine leases at Raft River have a stipulation restricting exploration and development work in sage grouse strutting/brood-rearing habitat from April 1 through June 15.
- Each of the four leases at Crane Creek contain a stipulation requiring that a survey be conducted for the presence of active sage grouse leks in key habitat, prior to authorization of surface disturbing activities. If active leks are present (defined as being used at least once in a 5-year period), two stipulations will apply. One is a timing limitation precluding exploration or drilling activities between March 15 and May 1 from 6 pm to 9 am within two miles of an active lek. The other stipulation precludes construction of wells, geothermal plants, powerlines, pipelines, or other such permanent structures that would fragment or degrade nesting habitat within two miles of an active lek.
- Both of the geothermal leases located west of Weiser have the following stipulations:
  1. Controlled surface and timing limitation use near sage-grouse leks and/or nesting/early brood rearing habitat: Potentially disruptive major construction and maintenance activities (e.g., infrastructure/energy development and similar projects), shall be avoided within 6.4 km (~ 4 miles) of occupied or undetermined status sage grouse leks from February 15 to June 30 to reduce disturbance to lekking birds, or April 15 to June 30 for nesting grouse (and/or hens with early broods). Major construction and maintenance activity will be avoided in sage grouse winter range from December 1 to February 15. Specific dates may be earlier or later, depending on local breeding chronology. The spatial buffer may be increased or decreased based on site-specific factors analyzed and documented in an EA or EIS and authorized via the appropriate Decision document. Exceptions may be granted for activities involving only infrequent, short term disturbance (less than 1 hour within a 24-hour period in a specific area); or if there are intervening topographic features or line-of-site screening that buffer the lek or nesting habitat from disturbance; or if recent (within the past 5 years) site-specific studies or local expertise suggest that leks or nesting hens are unlikely to be present within the 6.4 km zone surrounding the project activity.
  2. For smaller-scale human disturbances, (e.g., water pipeline construction, routing fence maintenance, facility maintenance, etc., of a minor nature), a 1.0 km (0.62 mile) lek disturbance buffer will apply between approximately March 15- May 1 in lower elevations and March 25 through May 15 in higher elevations, from 6:00 pm to 9:00 a.m. in a specific area to minimize disturbance to lekking grouse.
- The two geothermal leases located on the north side of Magic Reservoir have the same stipulations (concerning sage grouse) as the leases west of Weiser.

Geothermal exploration and development activity on Federal lands in Idaho has been sporadic, due largely to economic factors. Idaho now has one 10 mW geothermal power plant currently operating, as of 2007. It is located on private land at Raft River, south of Burley, Idaho. Nine Federal leases surround the plant and extend up the southeast flank of Jim Sage Mountain. BLM

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approved 5 geothermal drilling permits on a lease at Raft River in 2010, however to date no drilling has occurred. The drilling permits have several Conditions of Approval attached to protect wildlife. These include fencing reserve pits and safeguarding migratory birds from hazards associated with pits and treatment facilities, including but not limited to pit screening or netting, and placing protective cones over vent stacks. In addition, drilling is prohibited during the sage grouse strutting and brood-rearing season (lease stipulation).

***Mineral Materials***

Mineral materials include sand, gravel, most building and landscaping stone, pumice and other common variety materials that are not subject to mineral leasing or location under the mining laws. The Materials Act of 1947, as amended (61 Stat. 681) authorizes disposal of mineral materials on public lands through a sales system, and provides for free use of material by government agencies, municipalities or non-profit organizations, if the material is not to be used for commercial purposes. Permitting the removal or extraction (i.e. disposal) of mineral materials on public lands is a discretionary activity. BLM will not authorize the disposal of mineral materials if it is determined that the aggregate damage to public lands and resources would exceed the public benefits that BLM expects from the proposed disposal; nor will BLM dispose of mineral materials from areas identified in land use plans as not appropriate for mineral materials disposal (43 CFR 3601.11 and 3601.12).

**Condition of the Planning Area**

Most public land in Idaho is available for consideration of mineral material disposal, however existing guidance in many of the LUPs in the planning area encourages the use of existing disposal sites until the material is depleted. Within the planning area there are the following numbers of mineral material disposal cases (as of January 18, 2013):

**EXISTING MINERAL MATERIALS CASES AS OF 1-18-2013**

Field Office	# Comm. Pits	# FUPs	# Negotiated Sales	Total # sites in SG Hab.
Owyhee	9 (all in SG. 4 CPs closing)	13	2	Assume all in SG
Bruneau	5 (all in SG)	10	2	Assume all in SG
Four Rivers	6 (2 in SG)	43	4	
Burley	12 (7 in SG)	31	2	
Shoshone	17 (9 in SG)	22	0	
Jarbidge	9 (4 in SG)	25	0	
Pocatello	4 (2 in SG)	19	0	
Challis	20 (~20 in SG)	51	5	Assume all in SG
Salmon	6 (6 in SG)	11	2	Assume all in SG
Dillon, MT.	4 (2 in SG)	0	1	
<b>TOTAL</b>	<b>88 (64 in SG)</b>	<b>225</b>	<b>17</b>	

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Community pits are sites established by BLM for the public to acquire mineral materials by purchasing a short-term permit over-the-counter at the field office. Free Use Permits are usually sand and gravel pits, and are requested by county highway districts and non-profit organizations for road construction and maintenance of county roads. A negotiated sale is an exclusive site proposed by a single party, often commercial, as the party must now pay for BLM to process the permit.

The number of sales out of a community pit varies by site, from less than one to more than 50 per year. Many of the most popular community pits are for landscaping rock and building stone that is simply picked up by hand from the ground surface or from a talus slope. Most of these sales are for less than one ton. Most Free Use Permit sites are used sporadically and may be scattered throughout a field office, so that when the county needs material it has a nearby source, thereby reducing haul costs. A pit may be inactive for several years before it is needed for a road project in the area.

A gravel pit is initially developed by scraping off the vegetation and topsoil, which is then stockpiled for future reclamation. Most gravel pits are 5 to 15 acres in size. No infrastructure other than an access road is needed for mineral materials disposals. Most mineral material removal activity occurs during the summer months and during daylight hours.

Very few mineral material sites have mitigation measures protecting sage grouse habitat. One exception is the St. Anthony Sand Dune Community Pit, which has a provision stating "Proposals to remove sand between March 1st and June 15th will be evaluated to determine if breeding birds are utilizing the area."

### ***Locatable Minerals***

Under the General Mining Law of 1872 (17 Stat. 91), any U.S. citizen may stake a mining claim for locatable minerals on open, available Federal lands, giving the claimant a possessory right to develop the locatable mineral resource. The staking of a mining claim is a non-discretionary activity: As long as the lands are open to locatable mineral entry, and as long as the claimant maintains the mining claim on an annual basis in accordance with regulations at 43 CFR Parts 3830 through 3838, the mining claim is considered active. If the claimant fails to properly locate or maintain the claim on an annual basis, the claim is forfeited. BLM's role is limited to recording and adjudicating the location notices and maintenance filings, and preventing undue or unnecessary degradation of the lands under FLPMA.

If a claimant wants to perform mining operations other than casual use on BLM-administered lands, a Notice of Plan, filed under 43 CFR 3809, must be filed with the BLM (or 43 CFR 3802, if the claim is located on lands under wilderness review. USFS has different minerals management regulations, under 36 CFR 228). The purpose of these regulations is to prevent unnecessary or undue degradation of public lands by operations authorized by the mining laws. The subparts establish procedures and standards to ensure that operators and mining claimants meet their obligation to prevent undue or unnecessary degradation and to reclaim disturbed areas.

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Condition of the Planning Area

The existing land use plans identify areas that are closed to mineral entry but are silent on mitigation measures to be taken in sage grouse habitat.

As of 12-14-2012, the following numbers of 3809 Plans and Notices were authorized or pending-

District	3809 Plans of Operations		3809 Notices		Sage Grouse Habitat?
	Authorized	Pending	Authorized	Pending	
Boise District	13	3	17	4	8 Plans in PH
Twin Falls	4	5	5	4	7 Plans in PH
Idaho Falls	5	1	6	3	4 Plans in PH
Dillon FO	5	1	21	3	No Plans in SG Hab.
<b>TOTAL</b>	<b>32</b>	<b>9</b>	<b>28</b>	<b>11</b>	<b>19 Plans in SG Habitat</b>

The Boise District currently has eight 3809 Plans in sage grouse habitat, mostly small operations for zeolite and bentonite along the Owyhee Front. Three of the Plans are located in the Castle Creek drainage south of Oreana (zeolite, bentonite); two Plans are located close to the Oregon border near U.S. Highway 95 (both for zeolite); and two Plans on the Owyhee Plateau near the Upper Deep Creek area.

The Twin Falls District currently has seven 3809 Plans in sage grouse habitat. Six are building stone operations south of Oakley, and one is the Eskridge pumice pit north of Magic Reservoir. At least three companies operate quarries on Middle Mountain south of Oakley, extracting a variety of micaceous quartzite called Oakley Stone. Oakley Stone is highly prized as a building and flooring material, as it has very high tensile strength and can be split into large, thin sheets. Building stone quarry operations have been active on Middle Mountain for over sixty years in the vicinity of active sage grouse leks. The operations are confined to discrete quarries located at mid-elevation on the west slope of Middle Mountain. The quarries expand very slowly over the years, and no infrastructure such as powerlines or pipelines, etc., are required. Very little mechanical equipment is used, as the stone is split to the desired thickness using only small hand tools such as pry bars, hammers and chisels, and is then placed on pallets by hand. Light blasting is used occasionally, with very little disturbance, as heavier blasting would destroy the stone. Most of the quarry workers are employed seasonally and are housed on-site, thereby reducing traffic and dust. The quarries are strung out north-south along Middle Mountain such that each quarry has a separate road to access the Goose Creek road, an improved gravel road that leads to Oakley. During the field season (roughly May to November), semi-truck traffic, hauling pallets of Oakley Stone, can be fairly intense- on the order of 10 to 20 round trips per day- on the Goose Creek road. One of the operations has a millsite adjacent to the Goose Creek Road where stone is split and palletized for shipping. All of the operations shut down in the winter, so in the fall pallets of stone are brought off the mountain and stockpiled in Oakley. Several of the quarries have been patented and are therefore privately-owned. No stipulations

## **CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

pertaining to sage grouse are currently applied to the Plans of Operations for any of these quarries. Altogether, the quarries employ approximately 100 people year-round and approximately 600 seasonal workers (<http://southernidaholiving.com/features/oakley-rocks/>, July 2012).

The Eskridge pumice pit is located north of Magic Reservoir, on both sides of U.S. Highway 20. The mining claimants have mined pumice for landscaping material since the 1940's. Current operations are located on the south side of the highway, where disturbance consists of 15 acres of quarry and staging area. A few years ago, the claimant moved the operation from the north side of the highway, and reclaimed (sloped and seeded) 34 acres of previous disturbance. The operation is active throughout the year, but activities rotate approximately every three years, depending on demand for the material. In the first year of the cycle, bulldozers are used to rip the material from the quarry face. In the second year, the material is classified based on size and color, and stockpiled. In the third year, the stockpiles are loaded into belly dump trucks and transported to Gooding, where it is loaded onto train cars and shipped to Rexburg, where it is sold. The BLM currently holds a reclamation bond for \$83,000.

The Idaho Falls District currently has four 3809 Plans located in sage grouse habitat, all in the Challis Field Office. Two Plans are for building stone (including Three Rivers Stone) and 2 are for zeolite. The Three Rivers Stone quarry is a large building stone quarry operation situated along the south side of U.S. Highway 93, east of the confluence of the East Fork and the Main Salmon rivers. The quarry is operated in a similar manner as those on Middle Mountain: The stone (a variegated argillaceous quartzite) is split into thin sheets using hand tools and is palletized at the quarry. The pallets are hauled to the millsite adjacent to the highway, from which they are shipped. At peak production in 2007, there were 99 people employed by the quarry's operator, L&W Stone. In January, 2013, however, the company announced that it would be shutting down production at the quarry while it undergoes bankruptcy proceedings.

In the Dillon Field Office, there are currently no 3809 Plans located in sage grouse habitat. Eight out of twenty-four 3809 Notices are in sage grouse habitat.

On the Raft River division of the Sawtooth NF in Utah, there are several quarries of Oakley Stone. They are located on the southern slopes of the Raft River Range, in sage grouse habitat.

### **NON-ENERGY SOLID LEASABLE MINERALS**

The Pocatello Field Office has a large non-energy solid leasable mineral program, as the phosphate resource in that field office is significant. The goal in the Pocatello RMP is to manage the Federal mineral estate while minimizing adverse impacts to resource values. The 2012 Pocatello RMP does not have any stipulations or minerals guidance for non-energy leasable minerals which specifically address sage grouse.

#### **Existing Condition:**

Phosphate has been mined in southeast Idaho for over one hundred years. Of the 86 Federal phosphate leases that BLM administers in Idaho, only ten are located in sage grouse habitat.



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These are located north and west of Blackfoot Reservoir. None of these leases have had active mining operations on them, nor is any mining planned on the leases in the next 5 to 10 years. Most of the leased acreage around Blackfoot Reservoir is split estate (privately-owned or state-owned surface with federal minerals). One additional lease is located in priority sage grouse habitat northwest of Bear Lake near Paris, Idaho. Exploration drilling was conducted in 2012 on lease, and on the private lands and unleased split estate lands surrounding the small lease. Timing restrictions for sage grouse were applied to the approval for the drilling. If developed, this property would likely be developed as an underground mine, due to geologic factors. The Dillon Field Office has one non-energy solid leasable lease, for phosphate. It is not located in sage grouse habitat.

### COAL

No economically viable coal resources have ever been discovered in Idaho, and most plans are silent on the subject. The Dillon RMP states its goal is to make coal resources available on a site-by-site basis. A plan amendment would be required to lease coal, along with the appropriate level of NEPA analysis. No specific mitigation measures for sage grouse are identified in any of the land use plans.

### **3.2.3 Trends**

#### Oil and Gas-

Interest in oil and gas leasing in Idaho has been sporadic over time, and it is expected to remain so. Many leases were held in the 1970s and 1980s through-out much of Idaho, when leasing was done under a non-competitive system. After passage of the FOGLRMA in the early 1980's, leasing became a competitive process, and BLM's standards for leasing became more rigorous. Lease nominations dropped dramatically in Idaho and for many years, BLM's oil and gas program in Idaho was non-existent. With passage of the Energy Policy Act in 2005, Idaho BLM experienced an uptick in leasing interest, with over 400,000 acres of Federal land nominated since that time<sup>1</sup>. (Insert map of lands nominated for oil and gas leasing in Idaho, from scoping report).

Interest in leasing remains high in the Payette area, due to the discovery of natural gas and planned development in that area (181,000 acres nominated for leasing, overlapping). Much of land nominated for leasing is split estate, and only the northernmost nominated parcels are located in sage grouse habitat. The Bear Lake area has been nominated for leasing by several parties, most recently in 2012 (59,700 acres, overlapping acreage). Interest in leasing the Bear Lake Plateau was at its highest in the early 1980's, when a discovery of gas was made just south of the Idaho/Utah state line, and in adjoining areas in Wyoming. Several wells were drilled in Idaho at that time, but were reported to be dry. Other areas that have been nominated for leasing recently include approximately 90,000 acres in Twin Falls County, south of Rogerson, and approximately 60,000 acres in Clark County, on the Idaho-Montana border in the Targhee NF. All of these nominated lands have sage grouse habitat.

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<sup>1</sup> Some of this acreage overlaps, due to multiple nominations for the same land

## **CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

Several geophysical surveys have been conducted recently in the Payette area (2D and 3D seismic surveys). It is likely that additional geophysical surveys will be conducted in the planning area. Seismic reflection surveys are the most commonly used geophysical tool. Very little surface disturbance is associated with a seismic survey, as no excavating or drilling is involved. All that is required is a seismic energy source and an array of receptors. The most common type of survey seen in Idaho involves mechanically vibrating or “thumping” the ground using truck-mounted equipment. This creates seismic waves that are recorded by a series of receptors placed on the ground surface along a 3- to 5-mile line. This process requires a crew of about 10 to 15 people and five to seven vehicles. No reclamation is usually required.

Despite the occasional interest in leasing in Idaho, no drilling permits have ever been filed on public lands in Idaho. This trend is expected to continue, however for the sake of this analysis, a description of the drilling process is included in this report, since the issuance of a lease commits those lands to the possibility of exploration and development of the oil and gas resource.

Exploration drill holes for oil and gas range in depth from a few thousand feet to many thousands of feet, but in much of Idaho would probably be 7,000 to 11,000 feet deep. These wells are 30 inches in diameter or larger at the surface, then narrow (telescope) to 12 inches at the bottom of the well. In order to drill these deep, large-diameter holes, a large drilling rig would be utilized. The top of the drill rig derrick could be as much as 155 feet above the ground surface, and the rig floor could be at least 25 feet above the ground surface. These rigs are typically equipped with diesel engines, fuel and drilling mud storage tanks, mud pumps, and other ancillary equipment. Blow-out prevention equipment would be utilized while drilling to prevent uncontrolled flow at the surface if a pressurized thermal pocket is encountered.

Temporary roads would likely be needed to transport and maintain the drill rig and other heavy equipment. Either existing roads would be improved or new roads would be constructed to accommodate the traffic. Typically, roads are constructed with a 20-foot wide graveled running surface with adjacent ditches and berms, for a total disturbance width of about 40 feet. It may be necessary to haul in gravel to obtain a good road base, as well as a base for the well pad. Based on the road density in the planning area, it is assumed that access to the drill pads may require up to one mile of road construction or improvement. Surface disturbance from construction of one mile of road equals about 5 acres.

Getting the rig and ancillary equipment to the site may require 15 to 20 trips by full-sized tractor-trailers, with a similar amount for de-mobilizing the rig. There would be 10 to 40 daily trips for commuting and hauling in equipment. Drilling operations would likely occur 24 hours a day and seven days a week. It takes approximately one month to drill one well. A drilling operation generally has from 10 to 15 people on-site at all times, with more people coming and going periodically with equipment and supplies.

During this exploratory or wildcat phase of drilling, it is likely that a drill pad, to accommodate the rig and equipment, would be required at each well location. A drill pad is usually 2.5 acres in size (300' x 350'). In order to obtain a level pad, cut and fill of the site may be required. Topsoil would first be removed from the well pad site and stored on site for reclamation. In addition to the drill rig, the well pad may house a reserve pit for storage or disposal of water,

**Comment [k1]:** This section (RFDS) could be removed and placed in an appendix. I could pare it down, too, if needed.

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drill mud, and cuttings; several mud pits and pumps, a tool shed, drill pipe rack, a fuel tank, a water tank, a generator and several compressors, equipment storage, and several trailers for temporary lab and office quarters. Depending on the contents of the reserve pit and environmental sensitivity of the site, it may be lined or unlined.

Well drilling also requires water. As much water as possible is recycled on site, yet about 5,000 to 15,000 gallons of water may be needed each day depending on well conditions. Initially, water would need to be provided, either by wells or trucked in, to meet demands. Many oil or gas wells encounter water at depth when drilling for oil and/or gas, as it may be part of the oil and gas reservoir, and can be utilized when production is ongoing. Any water rights required would likely need to be filed in the name of the BLM.

Various tests are then run down the hole and data is collected to determine whether the well is capable of production. At the conclusion of well testing, if paying quantities of oil and gas are not discovered, the operator is required to plug the well according to Federal and State standards. Cement plugs are placed above and below water-bearing units with drilling mud placed in the space between plugs. When abandonment is complete, the site is reclaimed, which includes pad and road recontouring, topsoil replacement, and seeding with approved mixtures. Erosion control measures would be incorporated into the reclamation design as needed.

The drilling site could be active for approximately one year, from the start of drill pad and access road construction; through drilling and well testing; to completion of plugging the hole and reclamation of the surface, which usually involves removing all infrastructure; disposal of any waste generated, reshaping pads and roads, and re-seeding. The total surface disturbance expected from the drilling of a single exploratory well and the construction of one mile of access road is approximately 8 acres.

If a producible quantity of oil or gas is discovered, additional development wells would be drilled to confirm the discovery, establish the limits of the field, and drain the field. Depending on the field characteristics, well spacing may be from 40 to several hundred acres per well.

The speed at which a field is developed is dependent on the anticipated productivity. It may take from one to three years to fully develop an oil or gas field. Large fields with several operators may be unitized to reduce surface impacts. In addition, directional drilling may allow for drilling more than one well per pad.

During field development, the road system may be greatly expanded. Temporary roads are usually improved to accommodate more traffic and increased duration of use. Improvements may include crowning, capping, and implementing additional erosion controls. New roads would also be constructed. Depending on well location and topography, a main access road is built with smaller secondary roads running to each pad. In addition to roads, other facilities may also be installed including power lines, tank farms, pipelines, oil/water separators, and injection wells.

Where oil and gas flow to the surface naturally, control valves and collection pipes are attached to the well head. Otherwise pumps are installed. Oil is typically produced along with water and

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gas. Separation facilities are constructed on site to remove water, carbon dioxide, and hydrogen sulfide. The oil and natural gas are then separated. Water, usually saline, is disposed of either through surface discharge, evaporation ponds or re-injection into the producing formation.

If gas is present in economic quantities and a pipeline is located within close proximity, a network of pipelines would likely be constructed to collect and transport the gas. If not, gas would likely be re-injected into the reservoir. Oil would be collected in a similar manner and stored in tanks in a central location. Well operators would likely have service operations (e.g., cementing, logging, bits, testing, etc.) provided by established oil field service companies in Wyoming or Utah.

The producing life span of an oil or gas field varies depending on field characteristics. A field may produce for a few years to many decades. Commodity price, recovery technique, and the political environment also affect the life of a field. Well abandonment may begin as soon as it is depleted, or it may be rested for a period of time and put back into production.

### Geothermal

Interest in geothermal is sporadic in Idaho, depending on factors such as the economy, political climate, government incentive programs, such as the renewable energy tax credit, and technological advances.

### Mineral Materials

Demand for mineral materials is expected to remain fairly steady, although the collapse of the housing industry in 2008 definitely resulted in fewer sales throughout the planning area. The implementation of full cost recovery for individual sales has caused a decline in that casetype.

### Locatables

While Idaho's mining claim numbers fluctuate with the price of gold, the number of Plans and Notices remains fairly steady. Production of building stone in the Middle Mountain area remains steady, however it was recently reported that L&W Stone's Three River Stone quarry near Clayton has been shut down due to bankruptcy.

### Non-Energy Solid Leasable Minerals

Demand for phosphate remains high, and the companies that mine in southeast Idaho continue to develop new mines as old ones are reclaimed and are slowly being remediated. There is no indication that the leases in sage grouse habitat will be developed soon, however it is possible that an underground operation could be developed near Paris, Idaho.

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#### Coal-

| It is highly unlikely that any coal exploration or development will occur in Idaho.

**Table XX.** Special status species that may be affected by the proposed action and public lands where the designations apply.

Scientific Name	Status*	Federal Land	
		BLM	Forest Service
<b>Mammals</b>			
Grizzly Bear ( <i>Ursus arctos</i> )	ESA Threatened	X	X
Canada Lynx ( <i>Lynx canadensis</i> )	ESA Threatened	X	X
Southern Idaho Ground Squirrel ( <i>Spermophilus brunneus endemicus</i> )	ESA Candidate	X	X
Gray wolf ( <i>Canis lupus</i> )	BLM & FS Sensitive	X	X
Pygmy rabbit ( <i>Brachylagus idahoensis</i> )	BLM & FS Sensitive	X	X
Piute ground squirrel ( <i>Spermophilus mollis artemisiae</i> )	BLM Sensitive	X	
California bighorn sheep ( <i>Ovis canadensis californiana</i> )	BLM Sensitive	X	
Rocky Mountain bighorn sheep ( <i>Ovis canadensis</i> )	FS Sensitive		X
Cliff chipmunk ( <i>Tamias dorsalis</i> )	BLM Sensitive	X	
Uinta Chipmunk ( <i>Tamias umbrinus</i> )	BLM Sensitive	X	
Merriam's ground squirrel ( <i>Spermophilus canus vigilis</i> )	BLM Sensitive	X	
Wyoming ground squirrel ( <i>Spermophilus elegans nevadensis</i> )	BLM Sensitive	X	
Little pocket mouse ( <i>Perognathus longimembris</i> )	BLM Sensitive	X	
Dark kangaroo mouse ( <i>Microdipodops megacephalus</i> )	BLM Sensitive	X	
Kit fox ( <i>Vulpes velox</i> )	BLM Sensitive	X	
<b>Birds</b>			
Greater sage grouse ( <i>Centrocercus urophasianus</i> )	ESA Candidate	X	X
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	BLM & FS Sensitive	X	X
Upland sandpiper ( <i>Bartramia longicauda</i> )	BLM Sensitive	X	
Peregrine falcon ( <i>Falco peregrinus anatum</i> )	BLM & FS Sensitive	X	X
Prairie falcon ( <i>Falco mexicanus</i> )	BLM Sensitive	X	
Ferruginous hawk ( <i>Buteo regalis</i> )	BLM Sensitive	X	
Columbia sharp-tailed grouse ( <i>Tympanuchus phasianellus columbianus</i> )	BLM & FS Sensitive	X	
Mountain quail ( <i>Oreotyx pictus</i> )	BLM & FS Sensitive	X	X
Calliope hummingbird ( <i>Stellula calliope</i> )	BLM Sensitive	X	
Loggerhead shrike ( <i>Lanius ludovicianus</i> )	BLM Sensitive	X	
Sage sparrow ( <i>Amphispiza belli</i> )	BLM Sensitive	X	
Brewer's sparrow ( <i>Spizella breweri</i> )	BLM Sensitive	X	
Black-throated sparrow ( <i>Amphispiza bilineata</i> )	BLM Sensitive	X	
<b>Reptiles</b>			
Mojave black-collared lizard ( <i>Crotaphytus bicinctores</i> )	BLM Sensitive	X	
Longnose snake ( <i>Rhinocheilus lecontei</i> )	BLM Sensitive	X	
Western ground snake ( <i>Sonora semiannulata</i> )	BLM Sensitive	X	
Common garter snake ( <i>Thamnophis sirtalis</i> )	BLM Sensitive	X	
<b>Amphibians</b>			
Western toad ( <i>Bufo boreas</i> )	BLM Sensitive	X	
Woodhouse toad ( <i>Bufo woodhousii</i> )	BLM Sensitive	X	
<b>Invertebrates</b>			
Idaho point-headed grasshopper ( <i>Acrolophitus pulchellus</i> )	BLM Sensitive	X	
St. Anthony sand dunes tiger beetle ( <i>Cicindela arenicola</i> )	BLM Sensitive	X	X
Bruneau Dunes tiger beetle ( <i>Cicindela waynei waynei</i> )	BLM Sensitive	X	X
<b>Plants</b>			
Slickspot peppergrass ( <i>Lepidium papilliferum</i> )	ESA Proposed	X	X
Goose Creek milkvetch ( <i>Astragalus anserinus</i> )	ESA Candidate	X	X
Packard's milkvetch ( <i>Astragalus cusickii</i> var. <i>packardiae</i> )	ESA Candidate	X	
Christ's Indian Paintbrush ( <i>Castilleja christii</i> )	ESA Candidate		X
Aase's onion ( <i>Allium aaseae</i> )	BLM Sensitive	X	
Lemhi milkvetch ( <i>Astragalus aquilonius</i> )	BLM & FS Sensitive	X	X
Starveling milkvetch ( <i>Astragalus jejunos</i> var. <i>jejunus</i> )	BLM & FS Sensitive	X	X
Mulford's milkvetch ( <i>Astragalus mulfordiae</i> )	BLM Sensitive	X	
Cusick's false yarrow ( <i>Chaenactis cusickii</i> )	BLM Sensitive	X	
Welsh's buckwheat ( <i>Eriogonum capistratum</i> var. <i>welshii</i> )	BLM & FS Sensitive	X	X
Hooker's buckwheat ( <i>Eriogonum hookeri</i> )	BLM Sensitive	X	

Scientific Name	Status*	Federal Land	
		BLM	Forest Service
Simple Kobresia ( <i>Kobresia simpliciuscula</i> )	BLM Sensitive	X	
Packard's desert parsley ( <i>Lomatium packardiae</i> )	BLM Sensitive	X	
Smooth stickleaf ( <i>Mentzelia mollis</i> )	BLM Sensitive	X	
Saint Anthony evening-primrose ( <i>Oenothera psammophila</i> )	BLM Sensitive	X	
Obscure Phacelia ( <i>Phacelia inconspicua</i> )	BLM Sensitive	X	
Alkali primrose ( <i>Primula alcalina</i> )	BLM Sensitive	X	
Woven-spore lichen ( <i>Texosporium sancti-jacobi</i> = <i>Cyphellium sancti-jacobi</i> )	BLM Sensitive	X	
Douglas's clover ( <i>Trifolium douglasii</i> )	BLM Sensitive	X	
Owyhee clover ( <i>Trifolium owyheense</i> )	BLM Sensitive	X	
Idaho range lichen ( <i>Xanthoparmelia idahoensis</i> )	BLM & FS Sensitive	X	X
King's angelica, Great Basin angelica ( <i>Angelica kingii</i> )	BLM Sensitive	X	
Coral lichen ( <i>Aspicilia rogerii</i> )	BLM Sensitive	X	
Challis milkvetch ( <i>Astragalus amblytropis</i> )	BLM Sensitive	X	
Lost River milkvetch ( <i>Astragalus amnis-amissi</i> )	BLM & FS Sensitive	X	X
Barren milkvetch ( <i>Astragalus cusickii</i> var. <i>sterilis</i> )	BLM Sensitive	X	
Meadow milkvetch ( <i>Astragalus diversifolius</i> )	BLM & FS Sensitive	X	X
Payson's milkvetch ( <i>Astragalus paysonii</i> )	BLM & FS Sensitive	X	X
King's desert grass ( <i>Blepharidachne kingii</i> )	BLM Sensitive	X	
Blue gramma ( <i>Bouteloua gracilis</i> )	BLM Sensitive	X	
Mahala mat ( <i>Ceanothus prostratus</i> )	BLM Sensitive	X	
Short-spored jelly lichen ( <i>Collema curtisporum</i> )	BLM Sensitive	X	
Uinta Basin cryptantha ( <i>Cryptantha breviflora</i> )	BLM Sensitive	X	
Sepal-tooth dodder ( <i>Cuscuta denticulata</i> )	BLM Sensitive	X	
Silver-skin lichen ( <i>Dermatocarpon lorenzianum</i> )	BLM Sensitive	X	
Least phacelia, Small-flower phacelia ( <i>Phacelia minutissima</i> )	BLM & FS Sensitive	X	X
Doublet ( <i>Dimeresia howellii</i> )	BLM Sensitive	X	
Harlequin calicoflower, Parti-color Dowingia ( <i>Downingia insignis</i> )	BLM Sensitive	X	
Windward's goldenbush ( <i>Ericameria discoidea</i> var. <i>winwardii</i> = <i>Ericameria winwardii</i> )	BLM Sensitive	X	
Great Basin desert buckwheat ( <i>Eriogonum desertorum</i> )	BLM & FS Sensitive	X	X
Railroad Canyon buckwheat ( <i>Eriogonum soliceps</i> )	BLM Sensitive	X	
Cronquist's forget-me-not ( <i>Hackelia cronquistii</i> = <i>H. patens</i> )	BLM Sensitive	X	
Marsh felwort ( <i>Lomatogonium rotatum</i> )	BLM Sensitive	X	
Indian apple, Wild Crab apple ( <i>Peraphyllum ramosissimum</i> )	BLM Sensitive	X	
Malheur Yellow Phacelia ( <i>Phacelia lutea</i> var. <i>calva</i> )	BLM Sensitive	X	
Idaho twinpod, Salmon Twin bladderpod ( <i>Physaria didymocarpa</i> var. <i>lyrata</i> )	BLM & FS Sensitive	X	X
Small-flowered ricegrass ( <i>Piptatherum micranthum</i> = <i>Oryzopsis micrantha</i> )	BLM Sensitive	X	
Turtleback, Annual Brittlebrush ( <i>Psathyrotes annua</i> = <i>Bulbostylis annua</i> )	BLM Sensitive	X	
Thinleaf goldenhead ( <i>Pyrrocoma linearis</i> = <i>Haplopappus uniflorus</i> var. <i>howellii</i> )	BLM Sensitive	X	
Snake River goldenweed, Radiate goldenweed ( <i>Pyrrocoma radiata</i> = <i>Haplopappus raidatus</i> )	BLM & FS Sensitive	X	X
White grouse pellet lichen ( <i>Rhizoplaca idahoensis</i> )	BLM Sensitive	X	
Least snapdragon ( <i>Sairocarpus kingie</i> )	BLM Sensitive	X	
False mountain willow ( <i>Salix pseudomonticola</i> )	BLM Sensitive	X	
Wavy-leaf thelypody ( <i>Thelypodium repandum</i> )	BLM & FS Sensitive	X	X
Plumed clover ( <i>Trifolium plumosum</i> var. <i>amplifolium</i> )	BLM Sensitive	X	
Pink agoseris, Mill Creek agoseris ( <i>Agoseris lackschewitzii</i> )	BLM & FS Sensitive	X	X
Two-grooved milkvetch ( <i>Astragalus bisulcatus</i> var. <i>bisculeatus</i> )	BLM Sensitive	X	
Stiff milkvetch, Idaho milkvetch ( <i>Astragalus conjunctus</i> )	BLM Sensitive	X	
Tufted milkvetch, Plains milkvetch ( <i>Astragalus gilviflorus</i> )	BLM Sensitive	X	
Park milkvetch ( <i>Astragalus leptaleus</i> )	BLM & FS Sensitive	X	X
Cusick's camas ( <i>Camassia cusickii</i> )	BLM & FS Sensitive	X	X
Winged-seed evening primrose ( <i>Camissonia pterosperma</i> = <i>Oenothera pterosperma</i> )	BLM Sensitive	X	
Birchleaf mountain-mahogany ( <i>Cercocarpus montanus</i> )	BLM Sensitive	X	
Lancefeaf springbeauty ( <i>Claytonia multiscapa</i> var. <i>flava</i> = <i>C. lanceolata</i> var. <i>multiscapa</i> )	BLM Sensitive	X	
Tufted cryptantha ( <i>Cryptantha caespitosa</i> )	BLM Sensitive	X	
Malheur cryptantha ( <i>Cryptantha propria</i> = <i>Oreocarya propria</i> )	BLM Sensitive	X	



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Silky cryptantha ( <i>Cryptantha sericea</i> = <i>Oreocarya sericea</i> )	BLM Sensitive	X	
Ibapah springparsley ( <i>Cymopterus ibapensis</i> = <i>Epallageiton ibapensis</i> )	BLM Sensitive	X	
Pointed draba, Beavertip draba, Rockcress draba ( <i>Draba globosa</i> = <i>D. apiculata</i> )	BLM & FS Sensitive	X	X
White false tickhead ( <i>Eatonella nivea</i> )	BLM Sensitive	X	
Swamp willow-herb ( <i>Epilobium palustre</i> )	BLM Sensitive	X	
Rabbitbrush goldenweed, Bloomer's goldenweed ( <i>Ericameria bloomeri</i> = <i>Haplopappus bloomeri</i> )	BLM Sensitive	X	
Winward's goldenbush ( <i>Ericameria discoidea</i> var. <i>winwardii</i> = <i>Ericameria winwardii</i> )	BLM Sensitive	X	
Cushion cactus/spinystar ( <i>Escobaria vivipara</i> var. <i>vivipara</i> = <i>Coryphantha vivipara</i> )	BLM Sensitive	X	
Cooper's rubber-plant ( <i>Hymenoxys cooperi</i> var. <i>canescens</i> = <i>Actinea canescens</i> )	BLM Sensitive	X	
Large Canadian St. John's wort ( <i>Hypericum majus</i> = <i>H. canadense</i> var. <i>majus</i> )	BLM Sensitive	X	
Thick-leaf pepperweed ( <i>Lepidium integrifolium</i> )	BLM Sensitive	X	
Middle Butte bladderpod ( <i>Lesquerella obdeltata</i> )	BLM Sensitive	X	
Sacajawea's bitterroot ( <i>Lewisia sacajaweanae</i> )	BLM & FS Sensitive	X	X
Inch-high lupine ( <i>Lupinus uncialis</i> )	BLM Sensitive	X	
Green needlegrass ( <i>Nassella viridula</i> = <i>Stipa viridula</i> )	BLM Sensitive	X	
Challis crazyweed ( <i>Oxytropis besseyi</i> var. <i>salmonensis</i> = <i>O. nana</i> var. <i>salmonensis</i> )	BLM & FS Sensitive	X	X
Creeping nailwort ( <i>Paronychia sessiliflora</i> )	BLM Sensitive	X	
Short-lobed penstemon ( <i>Penstemon seorsus</i> )	BLM Sensitive	X	
Cusick's primrose ( <i>Primula cusickiana</i> A/complex)	BLM Sensitive	X	
Lost River silene ( <i>Silene scaposa</i> var. <i>lobata</i> )	BLM Sensitive	X	
Basin goldenrod ( <i>Solidago spectabilis</i> )	BLM Sensitive	X	
Rush aster ( <i>Symphyotrichum boreale</i> = <i>Aster junciformis</i> )	BLM Sensitive	X	
Malheur princesplume ( <i>Stanleya confertiflora</i> = <i>S. annua</i> , <i>S. rara</i> , <i>S. viridiflora</i> )	BLM Sensitive	X	
Picabo milkvetch ( <i>Astragalus oniciformis</i> )	BLM Sensitive	X	
Mudflat milkvetch ( <i>Astragalus yoder-williamsii</i> )	BLM Sensitive	X	
Twisted/Alkali cleomella ( <i>Cleomella plocasperma</i> )	BLM Sensitive	X	
Greeley's wavewing ( <i>Cymopterus acaulis</i> , var. <i>greeleyorum</i> )	BLM Sensitive	X	
Calcareous buckwheat ( <i>Eriogonum ochrocephalum</i> var. <i>calcareum</i> )	BLM Sensitive	X	
Bug-leg goldenweed ( <i>Haplopappus insecticuriis</i> = <i>H. integrifolius</i> )	BLM & FS Sensitive	X	X
Spreading gilia ( <i>Ipomopsis polycladon</i> = <i>Gilia polycladon</i> )	BLM Sensitive	X	
Davis' peppergrass ( <i>Lepidium davisii</i> = <i>L. montanum</i> )	BLM Sensitive	X	
Idaho penstemon ( <i>Penstemon idahoensis</i> )	BLM & FS Sensitive	X	X
Janish's penstemon ( <i>Penstemon janishiae</i> )	BLM Sensitive	X	
Tall dropseed ( <i>Sporobolus compositus</i> var. <i>compositus</i> = <i>Sporobolus asper</i> )	BLM Sensitive	X	
Scapose townsendia ( <i>Townsendia scapigera</i> )	BLM Sensitive	X	
Two-headed onion ( <i>Allium anceps</i> )	BLM Sensitive	X	
Mourning milkvetch ( <i>Astragalus astratus</i> var. <i>inseptus</i> )	BLM Sensitive	X	
Newberry's milkvetch ( <i>Astragalus newberry</i> var. <i>castoreus</i> )	BLM Sensitive	X	
Snake River milkvetch ( <i>Astragalus purshii</i> var. <i>ophiogenes</i> = <i>A. ophiogenes</i> )	BLM Sensitive	X	
Four-wing milkvetch ( <i>Astragalus tetrapterus</i> = <i>A. cinerascens</i> )	BLM Sensitive	X	
Fringed redmaids ( <i>Calandrinia ciliata</i> )	BLM Sensitive	X	
Earth lichen ( <i>Catapyrenium congestum</i> = <i>Heteroplacidium congestum</i> )	BLM Sensitive	X	
Desert pincushion ( <i>Chaenactis stevioides</i> )	BLM Sensitive	X	
California damasonium ( <i>Damasonium californicum</i> = <i>Machaerocarpus californicus</i> )	BLM Sensitive	X	
Bacigalupi's downingia ( <i>Downingia bacigalupii</i> )	BLM Sensitive	X	
Packard's buckwheat ( <i>Eriogonum shockleyi</i> var. <i>packardiae</i> )	BLM Sensitive	X	
Shockley's matted buckwheat ( <i>Eriogonum shockleyi</i> var. <i>shockleyi</i> )	BLM Sensitive	X	
White-margined wax plant ( <i>Glyptopleura marginata</i> )	BLM Sensitive	X	
United blazingstar ( <i>Mentzelia congesta</i> )	BLM Sensitive	X	
Rigid threadbush ( <i>Nemacladus rigidus</i> )	BLM Sensitive	X	
Simpson's hedgehog cactus ( <i>Pediocactus simpsonii</i> )	BLM Sensitive	X	
Spine-noded milkvetch ( <i>Peteria thompsoniae</i> = <i>P. nevadensis</i> )	BLM Sensitive	X	
American wood sage ( <i>Teucrium canadense</i> var. <i>occidentale</i> )	BLM Sensitive	X	
Beautiful bryum ( <i>Bryum calobryoides</i> )	FS Sensitive		X
Idaho douglasia ( <i>Douglasia idahoensis</i> )	FS Sensitive		X



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Sacajawea's bitterroot ( <i>Lewisia sacajaweanana</i> )	FS Sensitive		X
Cache beardtongue ( <i>Penstemon compactus</i> )	FS Sensitive		X
Payson bladderpod ( <i>Lesquerella paysonii</i> )	FS Sensitive		X
Douglas' biscuitroot ( <i>Cymopterus douglasii</i> )	FS Sensitive		X
Guardian buckwheat ( <i>Eriogonum meledonum</i> )	FS Sensitive		X
Idaho pennycress, Stanley thlaspi ( <i>Noccaea idahoensis var. aileeniae</i> )	FS Sensitive		X
Marsh's bluegrass ( <i>Poa abbreviate ssp. marshii</i> )	FS Sensitive		X
Stanley's whitlow-grass ( <i>Draba trichocarpa</i> )	FS Sensitive		X
White Cloud milkvetch ( <i>Astragalus vexilliflexus var. nubilus</i> )	FS Sensitive		X
Puzzling halimolobos ( <i>Halimolobos perplexa var. perplexa</i> )	FS Sensitive		X
Short-style tofieldia ( <i>Triantha occidentalis ssp. brevistyla</i> )	FS Sensitive		X
Tobias' saxifrage ( <i>Saxifraga bryophora var. tobiasiae</i> )	FS Sensitive		X
Tolmie's saxifrage ( <i>Saxifraga tomiei var. ledifolia</i> )	FS Sensitive		X
Cottam cinquefoil ( <i>Potentilla acottamii</i> )	FS Sensitive		X
Davis' wavewing ( <i>Cymopterus davisii</i> )	FS Sensitive		X
Centennial rabbitbrush ( <i>Chrysothamnus parryi ssp. montanus</i> )	FS Sensitive		X
Serpentine draba ( <i>Draba oreibata var. serpentine</i> )	FS Sensitive		X

Montana – to incorporate

**Sensitive Species List**

<b>MAMMALS</b>	<b>Common Name</b>	<b>Scientific Name</b>
	Black-tailed prairie dog	<i>Cynomys ludovicianus</i>
	Fisher	<i>Martes pennanti</i>
	Fringed myotis	<i>Myotis thysanodes</i>
	Fringe-tailed myotis	<i>Myotis thysanodes pahasapensis</i>
	<sup>1)</sup> Gray Wolf	<i>Canis lupus</i>
	Great Basin pocket mouse	<i>Perognathus parvus</i>
	<sup>2)</sup> Grizzly Bear	<i>Ursus arctos horribilis</i>
	Long-eared myotis	<i>Myotis evotis</i>
	Long-legged myotis	<i>Myotis volans</i>
	Meadow jumping mouse	<i>Zapus hudsonius</i>
	North American wolverine	<i>Gulo gulo luscus</i>
	Northern myotis	<i>Myotis septentrionalis</i>
	Pallid bat	<i>Antrozous pallidus</i>
	Pygmy rabbit	<i>Brachylagus idahoensis</i>
	Swift fox	<i>Vulpes velox</i>
	Townsend's big-eared bat	<i>Corynorhinus townsendii</i>
	White-tailed prairie dog	<i>Cynomys leucurus</i>

<b>BIRDS</b>	<b>Common Name</b>	<b>Scientific Name</b>
	Baird's sparrow	<i>Ammodramus bairdii</i>
	<sup>3)</sup> Bald Eagle	<i>Haliaeetus leucocephalus</i>
	Black tern	<i>Chilodonia niger</i>
	Black-backed woodpecker	<i>Picoides arcticus</i>
	Black-crowned night heron	<i>Nycticorax nycticorax</i>
	Blue-gray gnatcatcher	<i>Polioptila caerulea</i>
	Bobolink	<i>Dolichonyx orysivorus</i>
	Brewer's sparrow	<i>Spizella breweri</i>
	Burrowing owl	<i>Athene cunicularia</i>
	Chestnut-collared longspur	<i>Calcarius ornatus</i>
	Common loon	<i>Gavia immer</i>
	Dickcissel	<i>Spiza americana</i>
	Ferruginous hawk	<i>Buteo regalis</i>
	Flammulated owl	<i>Otus flammeolus</i>
	Franklin's gull	<i>Larus pipixcan</i>
	Golden eagle	<i>Aquila chrysaetos</i>
	Great gray owl	<i>Strix nebulosa</i>
	Greater sage-grouse	<i>Centrocercus urophasianus</i>
	Harlequin duck	<i>Histrionicus histrionicus</i>
	LeConte's sparrow	<i>Ammodramus leconteii</i>
	Loggerhead shrike	<i>Lanius ludovicianus</i>
	Long-billed curlew	<i>Numenius americanus</i>
	Marbled godwit	<i>Limosa fedoa</i>
	McCown's longspur	<i>Calcarius mccownii</i>

	Mountain plover	Charadrius montanus
	Nelson's sharp-tailed sparrow	Ammodramus nelsoni
	Northern goshawk	Accipiter gentiles
	Peregrine falcon	Falco peregrinus
	Red-headed woodpecker	Melanerpes erythrocephalus
	Sage sparrow	Amphispiza belli
	Sage thrasher	Oreoscoptes montanus
	Sedge wren	Cistothorus platensis
	Sprague's pipit	Anthus spragueii
	Swainson's hawk	Buteo swainsoni
	Three-toed woodpecker	Picoides tridactylus
	Trumpeter swan	Cygnus buccinator
	White-faced ibis	Plegadis chihi
	Yellow rail	Coturnicops noveboracensis
	Yellow-billed cuckoo	Coccyzus americanus
<b>REPTILES</b>		
	Greater short-horned lizard	Phrynosoma hernandesi
	Milk snake	Lampropeltis triangulum
	Snapping turtle	Chelydra serpentine
	Spiny softshell	Apalone spinifera
	Western hog-nosed snake	Heterodon nasicus
<b>AMPHIBIANS</b>		
	Coeur d'Alene salamander	Plethodon idahoensis
	Great Plains toad	Bufo cognatus
	Northern leopard frog	Rana pipiens
	Plains spadefoot	Spea bombifrons
	Western toad	Bufo boreas
<b>FISH</b>		
	Arctic grayling (fluvial population)	Thymallus arcticus montanus
	Northern redbelly X Finescale dace	Phoxinus eos x Phoxinus neogaeus
	Paddlefish	Polyodon spathula
	Pearl dace	Margariscus margarita
	Sauger	Stizostedion canadense
	Sturgeon chub	Macrhybopsis gelida
	Westslope cutthroat trout	Oncorhynchus clarki lewisi
	Yellowstone cutthroat trout	Oncorhynchus clarki bouvieri
<b>INSECTS</b>		
	Dakota skipper	Hesperia dacotae

- 1) Gray wolf will be moved to the Bureau sensitive list if delisted by the USFWS
- 2) Grizzly bear has been delisted for the Greater Yellowstone ecosystem. In that area it is a Bureau sensitive species.
- 3) Bald eagle has been delisted so has been moved to sensitive list.

Plants	Scientific name	Species Code	Common Name
	<i>Agastache cusickii</i>	AGCU	Cusick's horse-mint
	<i>Ageratina occidentalis</i> = <i>Eupatorium occidentale</i>	AGOC2	Western boneset
	<i>Allium acuminatum</i>	ALAC4	Tapertip onion
	<i>Aquilegia formosa</i>	AQFO	Sitka columbine
	<i>Arabis demissa</i> var. <i>languida</i>	ARDEL	Daggett rock cress
	<i>Arabis fecunda</i>	ARFE6	sapphire rockcress
	<i>Asclepias stenophylla</i>	ASST	narrowleaf milkweed
	<i>Astragalus aretioides</i> = <i>Orophaca aretioides</i>	ASAR3	Sweetwater milkvetch
	<i>Astragalus barrii</i>	ASBA	Barr's milkvetch
	<i>Astragalus ceramicus</i> var. <i>apus</i>	ASCEA	painted milkvetch
	<i>Astragalus convallarius</i> var. <i>convallarius</i> = <i>A. junciformis</i>	ASCOC9	lesser rushy milkvetch
	<i>Astragalus geyeri</i>	ASGEG	Geyer's milkvetch
	<i>Astragalus grayi</i>	ASGR4	Gray's milkvetch
	<i>Astragalus oreganus</i>	ASOR2	Wind River milkvetch
	<i>Astragalus scaphoides</i>	ASSC4	Bitterroot milkvetch
	<i>Astragalus terminalis</i>	ASTE9	railhead milkvetch
	<i>Balsamorhiza macrophylla</i>	BAMA4	large-leafed balsamroot
	<i>Botrychium paradoxum</i>	BOPA	Peculiar moonwort
	<i>Braya humilis</i>	BRHU	low northern -rockcress
	<i>Brickellia oblongifolia</i>	BROB	Mohave brickellbush
	<i>C. idaho</i> = <i>C. parryana</i> ssp. <i>idaho</i>	CAID	Idaho sedge
	<i>Carex stenoptila</i>	CAST4	Small-winged sedge
	<i>Camissonia andina</i> = <i>Oenothera</i> <i>andina</i>	CAAN14	obscure evening-primrose
	<i>Camissonia parvula</i> = <i>Oenothera</i> <i>parvula</i>	CAPA39	small camissonia
	<i>Carex crawei</i>	CACR3	Crawe's sedge
	<i>Castilleja exilis</i>	CAEX6	annual Indian paintbrush
	<i>Cleome lutea</i>	CLLU2	yellow bee plant
	<i>Cryptantha fendleri</i>	CRFE3	Fendler cat's-eye
	<i>Cryptantha scoparia</i>	CRSC2	miner's candle
	<i>Cyperus schweinitzii</i>	CYSC3	Schweinitz' flatsedge
	<i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i>	DIOLS	Scribner's panic grass
	<i>Draba globosa</i> = <i>D. apiculata</i>	DRGL6	beavertip draba
	<i>Draba ventosa</i>	DRVE	Wind River draba
	<i>Elodea bifoliata</i> = <i>E.</i> <i>longivaginata</i>	ELBI2	long sheath waterweed
	<i>Eleocharis rostellata</i>	ELRO2	beaked spikerush
	<i>Erigeron asperugineus</i>	ERAS	Idaho fleabane
	<i>Erigeron linearis</i>	ERLI	linearleaf fleabane
	<i>Erigeron ochroleucus</i> var. <i>ochroleucus</i> = <i>E. parryi</i>	EROCO	buff fleabane

	<i>Eriogonum caespitosum</i>	ERCA8	matted buckwheat
	<i>Eriogonum soliceps</i>	ERSO	Railroad Canyon wild buckwheat
	<i>Eriogonum visherii</i>	ERV114	Visher's buckwheat
	<i>Gentianopsis simplex</i>	GESI3	hiker's gentian
	<i>Grayia spinosa</i>	GRSP	spiny hopsage
	<i>Grindelia howellii</i>	GRHO	Howell's gumweed
	<i>Heliomeris multiflora</i> var. <i>multiflora</i> = <i>Viguiera multiflora</i>	HEMUM	showy goldeneye
	<i>Hutchinsia procumbens</i>	HUPR	prostrate hutchensia
	<i>Ipomopsis congesta</i> ssp. <i>crebrifolia</i>	IPCOC	ballhead ipomopsis
	<i>Kobresia simpliciuscula</i>	KOSI2	simple bog sedge
	<i>Kochia americana</i>	KOAM	green molly
	<i>Leptodactylon caespitosum</i>	LECA	mat prickly phlox
	<i>Lesquerella carinata</i> var. <i>languida</i>	LECAL3	Idaho bladderpod (same as keeled)
	<i>Lesquerella lesicii</i>	LELE26	Pryor Mountain bladderpod
	<i>Lesquerella pulchella</i>	LEPU15	beautiful bladderpod
	<i>Leymus flavescens</i> = <i>Elymus</i> <i>flavescens</i>	LEFL4	sand wildrye
	<i>Lobelia spicata</i>	LOSP	Pale-spiked lobelia
	<i>Lomatium attenuatum</i>	LOAT	taper-tip desert-parsley
	<i>Lomatium nuttallii</i>	LONU3	Nuttall desert-parsley
	<i>Lomatogonium rotatum</i>	LORO	marsh felwort
	<i>Malacothrix torreyi</i> = <i>M.</i> <i>sonchoides</i> v. <i>torreyi</i>	MATO2	Torrey's desert dandelion
	<i>Mentzelia nuda</i>	MENU	bractless mentzelia
	<i>Mentzelia pumila</i>	MEPU3	dwarf mentzelia
	<i>Mimulus nanus</i>	MINA	dwarf purple monkeyflower
	<i>Mimulus primuloides</i>	MIPR	primrose monkeyflower
	<i>Mimulus ringens</i>	MIRI	square-stem monkeyflower
	<i>Nama densum</i>	NADE2	leafy nama
	<i>Nuttallanthus texanus</i>	NUTE	Blue toadflax
	<i>Pedicularis crenulata</i>	PECR	meadow lousewort
	<i>Penstemon angustifolius</i>	PEAN4	narrowleaf penstemon
	<i>Penstemon lemhiensis</i>	PELE8	Lemhi beardtongue
	<i>Penstemon whippleanus</i>	PEWH	Whipple's beardtongue
	<i>Phacelia incana</i>	PHIN9	hoary phacelia
	<i>Phacelia thermalis</i>	PHTH	Hot Spring phacelia
	<i>Phlox andicola</i>	PHAN4	plains phlox
	<i>Phlox missoulensis</i>	PHMI13	Missoula phlox
	<i>Physaria brassicoides</i>	PHBR5	double bladderpod
	<i>Physaria didymocarpa</i> v. <i>lanata</i>	PHDIL	common twinpod
	<i>Plagiobothrys leptocladus</i>	PLLE	slender-branched popcorn flower
	<i>Poa arnowiae</i> = <i>P. curta</i>	POAR21	short-leaved bluegrass
	<i>Polygonum douglasii</i> sp. <i>Austinae</i>		Austin's knotweed
	<i>Potentilla plattensis</i>	POPL	Platte cinquefoil
	<i>Primula alcalina</i>	PRAL6	alkali primrose

	<i>Primula incana</i>	PRIN	mealy primrose
	<i>Pseudostellaria jamesiana</i> = <i>Stellaria jamesiana</i>	PSJA2	James stitchwort
	<i>Psilocarphus brevissimus</i>	PSBR	dwarf wooly-heads
	<i>Pediomelum hypogaeum</i>	PEHYH	Indian breadroot
	<i>Puccinellia lemmonii</i>	PULE	Lemmon's alkaligrass
	<i>Pyrola picta</i>	PYPU2	white-veined wintergreen
	<i>Pyrrocoma carthamoides</i> var. <i>subsquarrosa</i> = <i>Haplopappus</i> <i>carthamoides</i> v. <i>subsquarrosus</i>	PYCAS2	Beartooth large-flowered goldenweed
	<i>Quercus macrocarpa</i>	QUMA	bur oak
	<i>Ranunculus pedatifidus</i>	RAPE	Northern buttercup
	<i>Rorippa calycina</i>	ROCA	persistent-sepal yellow-cress
	<i>Schoenoplectus heterochaetus</i> = <i>Scirpus heterochaetus</i>	SCHE5	slender bulrush
	<i>Shoshonea pulvinata</i>	SHPU	shoshonea
	<i>Solidago velutina</i> = <i>S. sparsifolia</i>	SOVE6	few-flowered goldenrod
	<i>Sphaeralcea munroana</i>	SPMU	white-stemmed globe-mallow
	<i>Sphaeromeria argentea</i>	SPAR2	silver chicken sage
	<i>Stenogonum salsuginosum</i> = <i>Eriogonum salsuginosum</i>	STSA3	smooth buckwheat
	<i>Stephanomeria spinosa</i> = <i>Lygodesmia spinosa</i>	STSP6	thorn skeletonweed
	<i>Suckleya suckleyana</i>	SUSU2	Poison suckleya
	<i>Taraxacum eriophorum</i>	TAER2	Rocky Mountain dandelion
	<i>Thalictrum alpinum</i>	THAL	alpine meadowrue
	<i>Thelypodium sagittatum</i> ssp. <i>sagittatum</i>	THSAS	arrow thelypody
	<i>Thlaspi parviflorum</i>	THPA2	meadow pennycress
	<i>Townsendia florifera</i>	TOFL2	showy townsendia
	<i>Viburnum lentago</i>	VILE	Nannyberry

**Federally Listed and Candidate Species**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Federal status</b>
Black-footed ferret	Mustela nigripes	E
<sup>1)</sup> Gray wolf	Canis lupus	E
Whooping crane	Grus americana	E
Least tern	Sterna antillarum	E
Pallid sturgeon	Scaphirhynchus albus	E
<sup>2)</sup> Grizzly bear	Ursus arctos horribilis	T
Piping plover	Charadrius melodus	T, CH
Bull trout	Salvelinus confluentus	T, CH
Canada lynx	Lynx canadensis	T, CH
Dakota skipper	Hesperia dacotae	C
Yellow-billed cuckoo	Coccyzus americanus	C

E = endangered

T = threatened

CH = critical habitat identified

C = candidate

- 1) Gray wolf will be moved to the Bureau sensitive list if relisted by the USFWS
- 2) Grizzly bear has been delisted for the Greater Yellowstone ecosystem. In that area it is a Bureau sensitive species.





**Special status wildlife species occurring within Dillon Field Office.\***

<b>List of all Special Status Species that are known to occur within the watershed.</b>	<b>Current Management Status of the Species.</b>	<b>Occurrence: Resident (R) Transient (T)</b>	<b>Preferred habitat</b>
Canada Lynx ( <i>Lynx canadensis</i> )	Threatened	T	Sub-alpine forest
Greater Sage Grouse ( <i>Centrocercus urophasianus</i> )	Sensitive/Candidate	R	Sagebrush shrubland
Grizzly Bear ( <i>Ursus arctos horribilus</i> )	Threatened	T	Forest
North American Wolverine ( <i>Gulo gulo luscus</i> )	Sensitive/Candidate	T	Forest
Gray Wolf ( <i>Canis lupus</i> )	Sensitive	R	All
Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	Sensitive	R	Riparian/wetland
Fluvial arctic grayling ( <i>Thymallus arcticus</i> )	Sensitive	R	Streams
Baird's Sparrow ( <i>Ammodramus bairdii</i> )	Sensitive	R	Grassland
Black-backed Woodpecker ( <i>Picoides arcticus</i> )	Sensitive	R	Forest
Black Tern ( <i>Chlidonias niger</i> )	Sensitive	R	Wetland
Brewer's sparrow ( <i>Spizella breweri</i> )	Sensitive	R	Sagebrush shrubland
Bobolink ( <i>Dolichonyx orysivorus</i> )	Sensitive	R	Grassland
Boreal/Western toad ( <i>Bufo boreas</i> )	Sensitive	R	Riparian/wetland/forest
Burrowing Owl ( <i>Athene cunicularia</i> )	Sensitive	T	Sagebrush shrubland /grassland
Common Loon ( <i>Gavia immer</i> )	Sensitive	T	Wetland
Ferruginous Hawk ( <i>Buteo regalis</i> )	Sensitive	R	Sagebrush shrubland
Fisher ( <i>Martes pennanti</i> )	Sensitive	T	Forest
Flammulated Owl ( <i>Otus flammeolus</i> )	Sensitive	R	Forest
Franklin's Gull ( <i>Larus pipixcan</i> )	Sensitive	T	Wetland
Fringed myotis ( <i>Myotis thysanodes</i> )	Sensitive	T	Grassland/woodland
Golden Eagle ( <i>Aquila chrysaetos</i> )	Sensitive	R	Riparian/wetland Sagebrush shrubland
Great Basin pocket mouse ( <i>Perognathus parvus</i> )	Sensitive	R	Sagebrush shrubland
Great Gray Owl ( <i>Strix nebulosa</i> )	Sensitive	R	Forest
Harlequin Duck ( <i>Histrionicus histrionicus</i> )	Sensitive	R	Streams
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Sensitive	R	Sagebrush shrubland
Long-billed Curlew ( <i>Numenius americanus</i> )	Sensitive	R	Grassland
Long-eared Myotis ( <i>Myotis evotis</i> )	Sensitive	R	Grassland/woodland
Long-legged myotis ( <i>Myotis volans</i> )	Sensitive	R	Forest/ Riparian
Marbled Godwit ( <i>Limosa fedoa</i> )	Sensitive	T	Wetlands
McCown's longspur ( <i>Calcarius mccownii</i> )	Sensitive	R	Grasslands



List of all Special Status Species that are known to occur within the watershed.	Current Management Status of the Species.	Occurrence: Resident (R) Transient (T)	Preferred habitat
Northern Goshawk ( <i>Accipiter gentilis</i> )	Sensitive	R	Forest
Northern leopard frog ( <i>Rana pipiens</i> )	Sensitive	R	Riparian /wetland
Peregrine Falcon ( <i>Falco peregrinus anatum</i> )	Sensitive	R	Riparian/ Wetland
Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )	Sensitive	R	Sagebrush shrubland
Sage thrasher ( <i>Oreoscoptes montanus</i> )	Sensitive	R	Sagebrush shrubland
Sage Sparrow ( <i>Amphispiza belli</i> )	Sensitive	R	Sagebrush shrubland
Swainsons Hawk ( <i>Buteo swainsoni</i> )	Sensitive	R	Wetland
Three-toed Woodpecker ( <i>Picoides tridactylus</i> )	Sensitive	R	Riparian/wetland Sagebrush shrubland
Townsend's Big-eared Bat ( <i>Corynorhinus townsendii</i> )	Sensitive	R	Forest
Trumpeter Swan ( <i>Cygnus buccinator</i> )	Sensitive	R	Forest
Westslope cutthroat trout ( <i>Oncorhynchus clarki lewisi</i> )	Sensitive	R	Wetland

\*SS list from 2009 revision



**ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES  
MONTANA COUNTIES\***

**Endangered Species Act**

**November 2012**

C = Candidate  
 LT = Listed Threatened  
 LE = Listed Endangered  
 P = Proposed

PCH = Proposed Critical Habitat  
 CH = Designated Critical Habitat  
 XN = Experimental non-essential population

\*Note: Generally, this list identifies the counties where one would reasonably expect the species to occur, not necessarily every county where the species is listed

County/Scientific Name	Common Name	Status
<b>BEAVERHEAD</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Thymallus arcticus</i>	Arctic Grayling (Upper Missouri River DPS)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>BIG HORN</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>BLAINE</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>BROADWATER</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C



County/Scientific Name	Common Name	Status
<b>CARBON</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>CARTER</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>CASCADE</b>		
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>CHOUTEAU</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>CUSTER</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>DANIELS</b>		
<i>Grus americana</i>	Whooping Crane	LE
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>DAWSON</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>DEER LODGE</b>		
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Thymallus arcticus</i>	Arctic Grayling (Upper Missouri River DPS)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>FALLON</b>		
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>FERGUS</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C





County/Scientific Name	Common Name	Status
<b>FLATHEAD</b>		
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Silene spaldingii</i>	Spalding's Campion	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Lednia tumana</i>	Meltwater Lednian Stonefly	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>GALLATIN</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>GARFIELD</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>GLACIER</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Lednia tumana</i>	Meltwater Lednian Stonefly	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>GOLDEN VALLEY</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<b>GRANITE</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>HILL</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>JEFFERSON</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Lynx canadensis</i>	Canada Lynx	LT
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Pinus albicaulis</i>	Whitebark Pine	C



County/Scientific Name	Common Name	Status
<b>JUDITH BASIN</b>		
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>LAKE</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Howellia aquatilis</i>	Water Howellia	LT
<i>Silene spaldingii</i>	Spalding's Campion	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>LEWIS AND CLARK</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>LIBERTY</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>LINCOLN</b>		
<i>Acipenser transmontanus</i>	White Sturgeon (Kootenai River Pop.)	LE
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Silene spaldingii</i>	Spalding's Campion	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>MADISON</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Lynx canadensis</i>	Canada Lynx	LT
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Thymallus arcticus</i>	Arctic Grayling (Upper Missouri River DPS)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>McCONE</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C



County/Scientific Name	Common Name	Status
<b>MEAGHER</b>		
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>MINERAL</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>MISSOULA</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Howellia aquatilis</i>	Water Howellia	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Coccyzus americanus</i>	Yellow-billed cuckoo (western pop.)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>MUSSELSHELL</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>PARK</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>PETROLEUM</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>PHILLIPS</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE, XN
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>PONDERA</b>		
<i>Charadrius melodus</i>	Piping Plover	LT
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C



County/Scientific Name	Common Name	Status
<b>POWDER RIVER</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>POWELL</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>PRAIRIE</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>RAVALLI</b>		
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Coccyzus americanus</i>	Yellow-billed cuckoo (western pop.)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>RICHLAND</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>ROOSEVELT</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>ROSEBUD</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<b>SANDERS</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<i>Silene spaldingii</i>	Spalding's Campion	LT
<b>SHERIDAN</b>		
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Grus americana</i>	Whooping Crane	LE

<i>Anthus spragueii</i>	Sprague's Pipit	C
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County/Scientific Name	Common Name	Status
<b>SILVER BOW</b>		
<i>Salvelinus confluentus</i>	Bull Trout	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Thymallus arcticus</i>	Arctic Grayling (Upper Missouri River DPS)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>STILLWATER</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>SWEET GRASS</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>TETON</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>TOOLE</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>TREASURE</b>		
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>VALLEY</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>WHEATLAND</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C



County/Scientific Name	Common Name	Status
<b>WIBAUX</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>YELLOWSTONE</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C



## Acronyms and Abbreviations

### Vegetation

The composition and distribution of plant communities in the planning area are influenced by many factors, including climate, elevation, topography, soils, drought, insects, fire, cultivation, invasive plants, livestock grazing, etc. As a result, a wide variety of plant communities occur, many of which play a role in providing habitat for sage-grouse whether as a main component of the habitat or as a seasonal component. The major plant communities providing sage-grouse habitat are further detailed below. These plant communities vary greatly in their relative ecological health as a result of stressors that influence the distribution and abundance of the plant components within the general community. Sage-grouse are a sagebrush obligate species and rely on a variety of sagebrush dominated communities to meet various needs throughout their lifecycle (Miller et al. 2011). In winter, sage-grouse feed almost exclusively on sagebrush leaves (Patterson 1952, Wallestad et al. 1975). A healthy vegetative understory complete with perennial grasses and a variety of forbs provide important components of nesting and brood rearing habitat (Barnett and Crawford 1994, Gregg et al. 1994). These vegetative communities also support a wide variety of insects which provide additional food sources for rearing habitat. Some plant communities play a role in seasonal habitat such as riparian areas, or in the case of annual grasses, or conifer stands, may influence the quality and abundance of habitat over time.

### Indicators

Acres of suitable sage-grouse habitat within pph/pgh  
Acres and description of vegetation communities important to Sage-grouse within pph/pgh  
Acres of cheatgrass potential within sage-grouse habitat in the planning area  
Acres of conifer encroachment within sage-grouse habitat

### Conditions of the Planning Area

#### Northern Sagebrush- Steppe

Two major sagebrush biomes that provide sage-grouse habitat occur within the planning area. The Snake River Plain sagebrush biome makes up the vast majority of the habitat with a small portion of the Wyoming Basin biome on the eastern side of the planning area. These biomes are considered part of the northern sagebrush-steppe where sagebrush typically co-dominates with perennial bunchgrasses (Miller et al. 2011). Human alterations, uses and impacts coupled with natural variability (e.g., drought) have changed the extent, condition and distribution of sagebrush-steppe and the ecosystem services these biomes provide (Meinke et al. 2009); current sage-grouse range is estimated to be 56% of historic (pre-european settlement) distribution. Three of the fundamental characteristics of the sagebrush shrublands that have been altered from pre-settlement conditions include: (1) the total area of sagebrush shrublands has been reduced; (2) the composition and structure of sagebrush communities has been changed by diffuse forms of stress, including increased abundance and performance of invasive species and decreased abundance and performance of native species (3), fragmentation created by roads, power-lines, fences, energy developments, urbanization and other anthropogenic features. (Connelly et al. 2004). Much of the sagebrush-steppe occurring on private lands with deeper soils has been converted to agricultural croplands (Connelly et al. 2004). Intense, historic land-use in the late 19<sup>th</sup> and early 20<sup>th</sup> centuries, reduced the dominance of native grasses, trampled microbial crusts and encouraged expansion of Eurasian grasses (Anderson and Inouye 2001, Ponzetti et al. 2007, Root and

McCune 2012). These changes are most intense at low elevations near valley floors and may have disproportionate effect on sage-grouse populations reliant on these habitats during critical portions of the year (Leu and Hanser 2011).

Some portions of the planning area contain relatively in-tact sagebrush-steppe communities. Plant communities such as these are in good to excellent ecological condition and maintain adequate forb and perennial grass in the understory to provide habitat requirements for sage-grouse.

Data available for analysis in this effort are limited to general overstory vegetation classes of tall shrub (e.g. basin big sagebrush, Wyoming big sagebrush, mountain big sagebrush, etc.) and low shrub (e.g. black sagebrush, low sagebrush, etc.). This information can be further stratified based upon landscape characteristics to approximate the relative proportion of the various types of sagebrush plant communities. Data is not widely available concerning the relative ecological health of the plant communities within the project area.

### **Riparian and Wetlands**

Riparian vegetation includes plants that require higher amounts of available water supply than those found in adjacent upland areas and are generally associated with water courses and wet meadow areas. These plant communities are valuable for sage-grouse late summer brood rearing as they are where succulent forbs and insects would be available later into the summer when upland habitats are drying out and plants are moving toward summer senescence. These communities make up a small percentage of the vegetation in relation to other types but are quite important in providing the seasonal habitat mentioned.

### **Forest and Woodland**

This vegetation type is an element in sage-grouse management as conversion of sagebrush-steppe communities into conifer woodlands is a factor contributing to sage-grouse habitat decline in portions of the planning area. These plants also increase raptor perch sites, which makes sage-grouse more vulnerable to predation. Conifer expansion is generally attributed to fire suppression reducing fire frequency and allowing conifers to expand into riparian areas, shrublands, and grasslands. This conversion is mostly an issue in the mountain big sagebrush types where reduced fire frequency has allowed the invasion of juniper (Utah, Rocky Mountain or Western) and in some areas douglas-fir and pine may be expanding into shrub habitats.

### **Noxious weeds and Invasive Species**

Noxious weeds and invasive species include plants listed as “noxious” by state laws and also those plants known to be altering the dynamics of native plant communities either by replacing native plants through competition or altering some ecological process to the detriment of the native plant community such as in the case of annual bromes increasing fire frequency.

Specific noxious weeds causing localized impacts within the planning area include rush skeletonweed, leafy spurge diffuse knapweed, and spotted knapweed. Although not yet well established in the planning area, yellow starthistle is known to have a similar range as cheatgrass, and many of the areas currently supporting annual grass communities could support this noxious weed. Other weeds listed as noxious occur within the planning area but are not as widespread or impactful as those listed.

Invasion by exotic annual grass species has resulted in dramatic increases in number and frequency of fires with widespread, detrimental effects on habitat conditions (Young and Evans 1978, West and Young 2000, West and Yorks 2002, Connelly et al. 2004). Increased fire frequency typically results in removal of the sagebrush canopy in affected areas with replacement by annual species that provide little, to no, habitat value (Knapp 1996, Epanchin-Niell et al. 2009, Rowland et al. 2010, Baker 2011, Conden et al. 2011). Invasive annuals include numerous species of annual bromes, most notably cheatgrass (*Bromus tectorum*) as well as medusahead rye (*Taeniatherum caput-medusae*). An annual species that may be a threat in higher elevation communities providing sage-grouse habitat is ventenata (*Ventenata dubia*). Wyoming sagebrush plant communities are particularly susceptible to conversion to annual grasslands after fire when the understory contains higher densities of annual grass.

Once converted to exotic annual grasses, these plant communities have crossed a threshold that precludes their returning to traditional plant community composition through normal plant succession processes. These areas are essentially lost in their ability to provide sage-grouse habitat unless significant investment in restoration inputs are undertaken. Even then, these projects may fail if conditions do not exist for successful establishment of desired species. The potential for cheatgrass occurrence has been modeled, which can help discern locations and habitats that have the greatest risk of cheatgrass dominance after disturbance events such as fire. [Incorporate BER table 20 and perhaps figure 27 here.](#)

#### **Modified Grasslands**

Some portions of the planning area that formerly were composed of sagebrush plant communities have been modified for various reasons and currently support introduced perennial bunchgrasses or in some cases a mixture of introduced and native bunch grasses. These communities can include common native forbs and over time may develop a sagebrush overstory. Introduced bunchgrasses that may inhabit these areas include numerous crested wheatgrass varieties (Fairway, Ephraim, Douglas, Nordan, Hycrest, etc.) as well as Siberian wheatgrass and in the case of higher precipitation zones pubescent or intermediate wheatgrass. In some cases these species were utilized in plantings to increase livestock forage, but they also have proven to be better adapted in competing with invasive annual grasses and can be utilized to reduce annual grass dominance. These plant communities provide habitat for sage-grouse when the overstory of sagebrush is re-established.

#### **Permanent Conversion**

Within the planning area, portions have been permanently converted to uses that preclude them from providing sage-grouse habitat. This includes conversion to agricultural lands as well as development or urbanization. In much of the Snake River Plain, these lands were at one time supporting sagebrush plant communities.

#### **Conditions on BLM-Administered Lands**

The most broad-scale way to describe habitat on BLM lands that is important to this planning effort is the overstory vegetation component. As described above, sage-grouse are a sagebrush obligate species so an overstory component of sagebrush is a good indicator of potential habitat. Perennial grasslands are also an important component to track as they are still capable of providing habitat, if the overstory of sagebrush is returned. Tracking the relative expansion or reduction in annual grass dominated lands is also a potential indicator of our success in protecting sage-grouse habitat. These broad-scale

vegetation types are currently being tracked through various efforts. Figure XX the Idaho sage-grouse habitat map reflects current conditions on all lands within the Idaho portion of the planning area within PPH and PGH. This planning map is developed utilizing Landfire v1.01 land cover dataset.

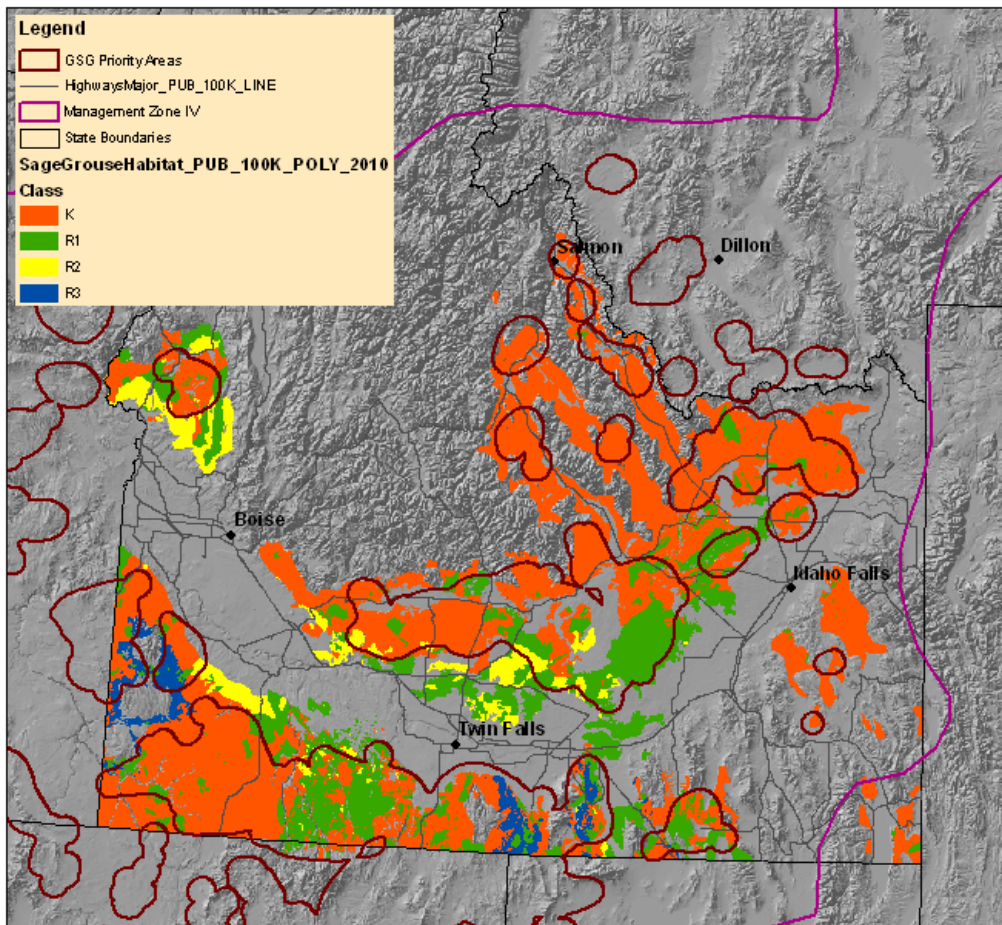


Figure XX – 2010 Idaho Sage-grouse Habitat Planning Map (BLM 2012). The red areas show key habitat (areas of generally in-tact sagebrush that provide habitat for sage-grouse at some point during the year. The green, yellow, and blue areas respectively show areas of perennial grassland, annual grassland and conifer encroachment restoration potential.

Table XX Details the acreages in each cover type for BLM and FS lands within the planning area.



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**Acres of Vegetation Communities within PPH and PGS on BLM and FS Administered lands within the Planning Area**

**Comment [MR-1]:** The acres to populate this table should come from the VDDT modeling effort for consistency.

Vegetation Type	PGH acres - FS	PGH acres - BLM	PPH Acres - FS	PPH Acres - BLM
Sagebrush	x	x	x	x
Low Sage				
Tall Sage				
Perennial Grass				
Annual Grass				
Conifer Encroachment				
Riparian				

**Conditions on Forest Service-Administered Lands**

Sagebrush communities on National Forest System lands are generally at higher elevations (e.g. above 6,000 feet), and are comprised primarily of mountain sagebrush community types (e.g. *Artemisia tridentata* var. *pauciflora*, *A. t.* var. *vaseyana*, *A. spiciformes*). The Curlew National Grassland is the exception, with the entire Grassland occurring at lower elevation with the dominant sagebrush as basin big sagebrush, (*Artemisia tridentata* var. *tridentata*)

Although some Forest Service units include Greater sage-grouse habitats that are used for wintering, breeding and nesting; the majority of Forest Service habitats more likely function as summer/brood-rearing habitat. Forest Service administered lands tend to be at the elevation periphery for sage-grouse. Habitats may be locally important because of the higher number and abundance of forbs that comprise the herbaceous layer in sagebrush dominated stands, which are important to sage-grouse during the late brood rearing period.

In general the plant communities and disturbance factors that influence them are the same on FS lands as on BLM lands. As a general rule, the lands under FS management playing a role in sage-grouse habitat tend to be on the higher end of the precipitation and elevational gradient. Therefore, the relative proportion of sagebrush plant communities on FS managed lands would be higher for the mountain big sagebrush plant communities, at the higher elevation and precipitation gradient, and lower for Wyoming big sagebrush plant communities which occur at the lower end of the precipitation range for big sagebrush. Due to the more resilient nature of mountain big sagebrush communities after disturbance, it is less likely they will be impacted by invasive annual grass and convert to annual grass plant communities.

## Trends

The main disturbance factors with the potential to alter vegetation providing sage-grouse habitat over a majority of the planning area include conversion to annual grassland following fire disturbance, modification of plant communities due to livestock grazing, and the potential impacts of climate change. To a lesser extent, some permanent conversion to agriculture or urbanization may occur, but typically these areas are already highly disturbed and not likely to be providing high-quality sage-grouse habitat.

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## WILD HORSES AND BURROS

The Wild Free-Roaming Horses and Burros Act of 1971 (WFRHBA), as amended by the Federal Land Policy and Management Act of 1976 and the Public Rangeland Improvement Act of 1978, directs the protection and management of wild horses and burros on public lands. Both the BLM and USFS have responsibility for managing Wild and Free Roaming Horses and Burros. Under the WFRHBA, the BLM identified herd areas (HAs) as places used as habitat by a herd of wild horses at the time the Act was passed. To carry out its duties under the 1971 law, the BLM periodically evaluates each HA to determine if it has adequate food, water, cover, and space to sustain healthy and diverse wild horse and burro populations over the long-term. The areas that meet these criteria are then designated as Herd Management Areas (HMAs), where horses or burros can be viably managed as a component of the public lands. The BLM designates an appropriate management level (AML) and specifies an allowable range in horse numbers for each HMA based upon available forage and other resources necessary to sustain the horse or burro populations, as well as resource objectives and other designated uses of the public lands.

Wild horse and burro management areas on USFS lands are called territories. However, no Active territories exist within the planning area. There are two Inactive territories in Idaho on the Challis NF. They no longer have any wild horses and are not shown on the National territory map.

### 3.2.1 Indicators

The indicator for Wild Horses and Burros include:

- Change in acres designated as HMAs or HAs;
- Change in AML within designated HMAs;
- Horse populations within HMAs

#### Existing Conditions

Within the planning area, BLM manages six HMAs, all in the state of Idaho: four in the Boise District, one in the Twin Falls District, and one in the Idaho Falls District. Additionally, there are nine HAs within the planning area, five of which are in southwestern Montana, and four of which are in Idaho. The HMAs encompass approximately 378,070 acres of public lands, and support between 424 and 617 head of horses when populations are within AML. Approximately 551 horses are on public lands within these HMAs based upon current population estimates.

Herd Management Area	AML Range	Population Estimate
Black Mountain	30-60	55
Challis	185-253	185
Fourmile	60 <sup>2</sup>	65
Hardtrigger	66-130	141
Sands Basin	33-64	65
Saylor Creek	50 <sup>3</sup>	40

<sup>1</sup>Population estimates current as of November, 2012

<sup>2</sup>

<sup>3</sup>AML not established, but is currently managed for 50 horses in accordance with the 1987 Jarbidge Resource Management Plan.

The USFS does not manage any wild horses or burros within the planning area.

**Acronyms**

AML – Appropriate Management Level

BLM - Bureau of Land Management

FLPMA - Federal Land Policy and Management Act of 1976

HA – Herd Area

HMA – Herd Management Area

PGH - preliminary general habitat

PL - Public Law

PPH - preliminary priority habitat

USFS – United States Forest Service

WFRHBA - Wild Free-Roaming Horses and Burros Act of 1971

## Chapter 3: FORESTRY AND WOODLAND PRODUCTS

The National Environmental Policy Act of 1969 (42.U.S.C. 4321-47; 83 Stat. 852; P.L. 91-190), the Federal Land Policy and Management Act of 1976 ( FLPMA) (943 U.S.C. 1701 et seq.; 90 Stat. 2743; P.L. 94-579), the Water Quality Act of 1987, as amended from the Federal Water Pollution Control Act (Clean Water Act) of 1977 (33 U.S.C. 1251 et seq.; 91 Stat. 1566-111; P.L. 95-217), the Endangered Species Act of 1973 (16 U.S.C. 809) , and the Archaeological Resources Protection Act of 1979 (16 U.S.C. 470a-47011) direct the protection and management of forest management and woodland products on public lands. The 1976 Act directs that public lands be managed on the basis of multiple use and sustained yield without the permanent impairment of the productivity of the land and the quality of the environment. In 1989, the Director approved a policy for guidance and management of forest vegetation on Public Lands administered under FLMPA. This guidance applies to those “forested” lands containing what is traditionally referred to as “timber lands”, capable of producing in excess of 20 cubic feet per acre per year; as well as “woodlands”, those forested lands producing less than 20 cubic feet per acre per year; and “other vegetative material” or those lands containing cactus and other salable vegetation which were not previously covered by management policy. Other salable vegetation includes Christmas trees and plant seed. BLM forest management policy and regulations are identified in the BLM Forestry Manual (Title 43 Code of Federal Regulations Part 5000) and the BLM Forestry Handbook (Title 43 Code of Federal Regulations Part 5400)

In the analysis area there are approximately: 368,000 acres of BLM forest land; 250,000 acres of BLM forest land (timberland) available for commercial management; 353,000 acres of BLM woodland; and 197,000 acres of BLM woodland available for commercial management.

### 3.2.1 Indicators

The indicators for Forestry and Woodland products include:

- Quantities of BLM commercial forest products sold per year from commercial timberlands.
- Quantity of BLM special forest product sold per year

In the analysis area, annual production of commercial product from timberlands has averaged approximately 2,877 MBF (thousand board feet) per year. Annual production of special forest products (wood) in the past ten years has averaged approximately: 4 MBF per year for sawtimber; 490 MBF for fuel wood; 8 MBF per year for fence posts; 11 MBF per year for fence poles; and 1 MBF per year for other wood products (such as mine timbers and teepee poles). Annual production of special forest products (non-wood) (such as Christmas trees) in the past ten years has averaged approximately 379 tickets per year.

*(Concept suggestion: GIS mapping compare BLM Idaho commercial forest acres and commercial woodland acres with sage grouse PPH acres and PGH acres in the analysis area.)*



## Chapter 3: Sage-grouse portion of Special Status Species. Working Copy

### Indicators

#### *Greater Sage-Grouse*

Stiver et al., (2010) provide a framework for assessing and conserving Greater Sage-Grouse habitats at hierarchical or nested spatial scales that correspond with four orders of habitat selection (Johnson 1980). Each scale encompasses particular aspects of habitat suitability, ecological processes and population dynamics, and are described as 1) broad-scale (rangewide distribution), 2) mid-scale (populations and sub-populations), 3) fine-scale (home ranges and associated seasonal habitats), and 4) site-scale (detailed vegetation characteristics within seasonal ranges). For purposes of subregional land use planning and this analysis, the mid-scale is the most appropriate focal extent since decisions arising from the various subregional plan amendments will collectively promote and complement the conservation of greater sage-grouse rangewide. Fine- and site-scales are more appropriately addressed at the activity planning or permit level, and beyond the scope of this analysis. Mid-scale habitat indicators include (adopted from Stiver et al. 2010):

- 1) Suitable habitat: The availability of sagebrush and sagebrush/grassland habitats within [or associated with] sage-grouse populations have connected mosaics that allow for dispersal movements across subpopulations. Anthropogenic disturbances that can disrupt dispersal or cause mortality are generally not wide-spread or are absent.
- 2) Marginal habitat: Marginal habitats within landscapes have patchy, fragmented or low quality sagebrush shrublands or are not well-connected for dispersal between portions of subpopulations. Anthropogenic disturbances that disrupt dispersal or cause mortality are common throughout all or portions of the landscape.
- 3) Unsuitable habitat: Includes former sagebrush shrubland habitat that has been converted to grasslands or woodlands or other land uses. These areas are unoccupied or nearly unoccupied by sage-grouse but have the potential to become occupied in the foreseeable future through plant succession or restoration.

### Existing Conditions of the Planning Area

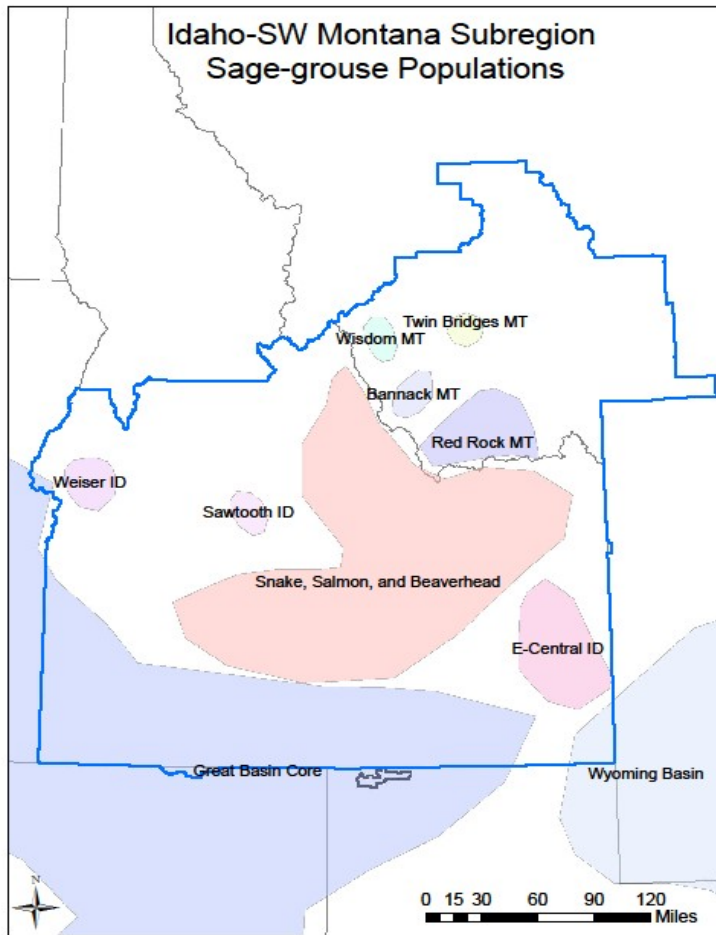
#### *Greater Sage-Grouse*

The vast majority of the Idaho/Southwestern Montana planning subregion lies within Western Association of Fish and Wildlife Agencies' Sage-grouse Management Zone IV (Stiver et al. 2006); a small portion of southeastern Idaho, occurs within MZ II and is associated with the Wyoming Basin population. Populations of sage-grouse in MZ IV are estimated to decline by 55% from 2007 to 2037, and by 66% in MZ II, if current trends in populations and habitat activities continue (USFWS 2010 citing Garton et al. 2011).

Within the subregion, greater sage-grouse occupy all or portions of ten populations described in Connelly et al (2004) (Figure 3.XX). Two populations (Great Basin Core, Wyoming Basin) encompass portions of adjacent states.



Figure 3.X. Idaho/Southwest Montana Subregion and Sage-grouse Populations (Connelly et al. 2004).



Minimum population estimates are not available for all sage-grouse populations due to limited data in some areas, however Garton et al. (2011) estimated a minimum male sage-grouse population in 2007 of 9,114 for the Northern Great Basin population (analogous to the Great Basin Core population and inclusive of habitats in ID and associated portions of NV, OR and UT), and 5,457 for the Snake-Salmon-Beaverhead population. Estimates for the Bannack and Red Rocks MT populations were 304 and 448 males respectively. Sage grouse in southwestern Montana are migratory, moving between separate summer and winter areas. Migratory movements of sage grouse also have been documented between eastern Idaho and southwest Montana from the Bannack and Red Rock populations. Telemetry data from 1999-2012 shows that seasonal movements - distance and duration - vary significantly between groups of sage grouse.

**Comment [BKD1]:** Do you want lek count trend data?

**Comment [pm2]:** I don't think we need lek trend info at this scale.

#### *Availability of sagebrush habitat (Mid-Scale Indicator)*

The distribution of sage-grouse is closely aligned with the distribution of sagebrush-dominated landscapes (Schroeder et al. 2004). Occupancy by sage-grouse is strongly associated with measures of sagebrush abundance and distribution. Sagebrush area was the single best discriminator between occupied and extirpated ranges among 22 variables evaluated by Wisdom et al. (2011). In the subregion, large expanses of sagebrush still occur in portions of southwestern and southcentral Idaho, in association with the Northern Great Basin population shared with Nevada, Oregon and Utah, as well as in portions of the Snake-Salmon-Beaverhead population north of the Snake River.

In 2012 BLM completed the delineation of Preliminary Priority Habitat and Preliminary General Habitat rangewide in cooperation with respective State wildlife agencies. BLM national office Instruction Memorandum 2012-043 defined PPH as sage-grouse habitat having the highest conservation value to maintaining sustainable greater sage-grouse populations; PGH includes areas of occupied seasonal or year-round habitat outside of priority habitat (USDI BLM 2012). At finer scales, PPH and PGH encompass areas of in-tact sagebrush, suitable for sage-grouse habitat needs as well as areas of conifer encroachment and perennial grass dominated areas, generally occupied by grouse or potentially suitable for future restoration.

In Idaho, PPH/PGH was identified by BLM based on a model incorporating sage-grouse breeding bird density and lek connectivity models, informed with additional ancillary broadscale habitat data, seasonal habitat maps, connectivity information/expert opinion, population persistence model, local priority areas and agriculture/conifer filters (Makela and Major 2012).

In Montana, PPH was delineated based on Montana Fish, Wildlife and Park's prior modeling of sage-grouse Core areas using a lek-centric model based on male lek attendance and refined with seasonal habitat, telemetry, connectivity information and field review. Documentation for the Montana Core area analysis is summarized at:

[http://www.mt.nrcs.usda.gov/technical/ecs/biology/sagegrouse/sagegrouse\\_strategy\\_attachments/appendix1.html](http://www.mt.nrcs.usda.gov/technical/ecs/biology/sagegrouse/sagegrouse_strategy_attachments/appendix1.html). Montana PGH was mapped based on the Schroeder (2004) sage-grouse distribution map.

**Comment [pm3]:** Temporary Note: Description of MT approach is based on the summary found at the GSG strategy sharepoint, in Shared Documents/maps/Guide to available maps read this first/ State PPH descriptions excel file AND GRSG PPH PGH Status excel spreadsheet. Also reviewed MFWPs protocol on website.

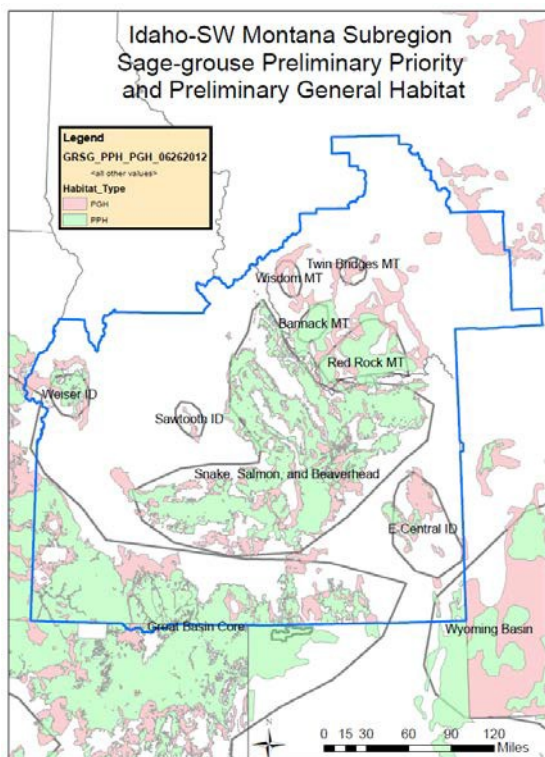
Sagebrush steppe habitat across southwest Montana consists of diverse species and multiple successional stages, providing for all life stages. Species or subspecies composition consists primarily of mountain big sagebrush, Wyoming big sagebrush, three-tip sagebrush, basin big sagebrush, and low sagebrush as well as multiple other species at lower densities. These occur in mixed as well as pure stands throughout

**Comment [pm4]:** This paragraph is from MT BLM (KB). Not sure if it belongs here or distilled in the table later on. Leaving it here for now.

southwest Montanan. Tilling and aerial spraying over 12,000 acres in the 1960s and early 1970s reduced sagebrush canopy on large areas of public land, mostly in the Bannack Population. These areas were reseeded to non-native herbaceous species that further altered natural communities. Sagebrush canopy has recovered but the herbaceous understory composition is a mix of native species and non-native wheat grasses. Large areas of sagebrush in the DFO appear to provide suitable habitat for sage grouse but are unoccupied.

A general overview of PPH and PGH across the subregion is shown in figure 3.XX

Figure 3.XX. Idaho/Southwest Montana Sage-grouse Preliminary Priority and Preliminary General Habitat and Populations.



In 2012, the State of Idaho Governor’s Sage-grouse Task Force identified four relatively broad-scale sage-grouse “Conservation Areas” (CAs) in the state, that reflect general habitat or threat similarities (Figure 3.XXX) (Idaho Governor’s Task Force 2012). These CAs including the West Owyhee, Southern, Mountain Valleys, and Desert, are useful for readily summarizing habitat geographically in Idaho, given the number of both large and small populations involved. The four identified sage-grouse populations in southwestern Montana, however, occupy comparatively smaller geographic areas, and for this analysis were aggregated. Due to differences in mapping scales and approaches used in delineating sage-grouse

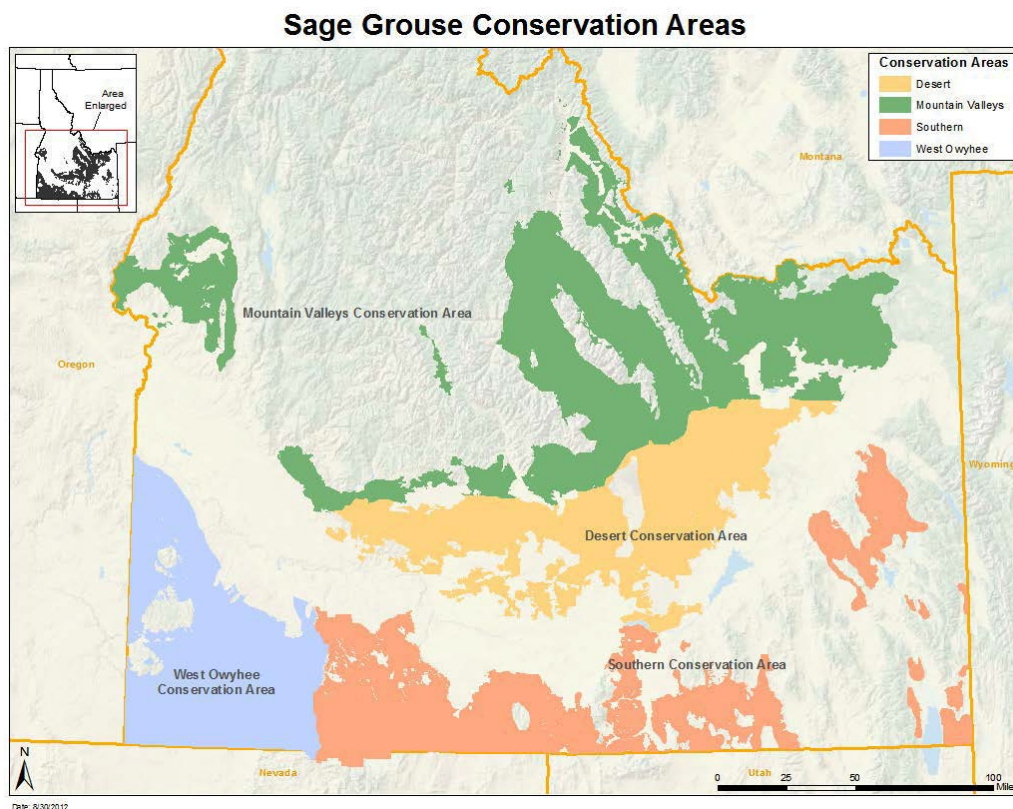
populations (Connelly et al. 2004, Garton et al. 2011) and PPH/PGH, habitats in the subregion occur both within as well as outside of the mapped population areas. In this analysis for the existing environment, all PPH or PGH associated with or near the relevant populations/analysis areas were included.

Based on GIS analysis, there are approximately 17,744,445 acres of PPH and PGH, inclusive of all land ownerships in the subregion analysis area (Table 3.X). This is inclusive of habitats in Idaho, southwestern Montana, and small portions of northern Nevada and Utah administered by Idaho BLM and the Sawtooth National Forest, respectively. Overall, within the subregion amendment area, BLM administers approximately 63% of PPH and 38% of PGH. The US Forest Service administers approximately 8% of PPH and 16% of PGH.

**Comment [pm5]:** Removed 176 ac FS from original due to boundary error in W. Owyhee analysis area at NV border.

**Comment [pm6]:** Need to decide how to consistently round these sort of numbers. I left them as is for now.

**Figure 3.XXX.** Idaho Sage-grouse Conservation Areas (Idaho Governor’s Sage-grouse Task Force 2012).



**Table 3.X.** Acres of greater sage-grouse habitat by analysis area and population, within the Idaho/Southwestern Montana planning subregion.

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Acres PPH by Ownership in Analysis Area	Acres PGH by Ownership in Analysis Area	Acres PPH and PGH Combined by Ownership in Analysis Area
Idaho- West Owyhee	Great Basin Core	BLM 1,803,286	BLM 428,485	BLM 2,231,771
		USFS 0	USFS 0	USFS 0
		OTHER 499,820	OTHER 123,069	OTHER 622,889
		SUM 2,303,106	SUM 551,554	SUM 2,854,660
Idaho- Southern	G. Basin Core, E. Central Idaho, Bear Lake Plateau portion of the Wyoming Basin	BLM 1,402,700	BLM 514,177	BLM 1,916,877
		USFS 244,582	USFS 214,494	USFS 459,076
		OTHER 645,589	OTHER 705,902	OTHER 1,351,491
		SUM 2,292,871	SUM 1,434,573	SUM 3,727,444
Idaho- Desert	Snake/Salmon/Beaverhead	BLM 1,536,098	BLM 436,224	BLM 1,972,322
		USFS 3,385	USFS 809	USFS 4,193
		OTHER 580,584	OTHER 601,431	OTHER 1,182,015
		SUM 2,120,067	SUM 1,038,464	SUM 3,158,530
Idaho- Mountain Valleys	Snake/Salmon/Beaverhead, Sawtooth, Weiser	BLM 2,271,972	BLM 589,948	BLM 2,861,920
		USFS 509,473	USFS 452,246	USFS 961,719
		OTHER 1,036,335	OTHER 478,196	OTHER 1,514,531
		SUM 3,817,780	SUM 1,520,390	SUM 5,338,170

**Comment [pm7]:** GIS error due to discrepancy between BLM Surface Management Area data and Gov. Strategy Core Zone shapefile at state boundary. Changed to 0's on 1/18/2013

**Comment [pm8]:** Reduced PPH from original 2,303,280 and PGH from 551,556. Also changed SUM from 2,854,836

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Acres PPH by Ownership in Analysis Area	Acres PGH by Ownership in Analysis Area	Acres PPH and PGH Combined by Ownership in Analysis Area
Utah- Admin by Sawtooth Nat. Forest	G. Basin Core	BLM 0 USFS 72,066 OTHER 0 SUM 72,066	BLM 0 USFS 0 OTHER 0 SUM 0	BLM 0 USFS 72,066 OTHER 0 SUM 72,066
Montana- BLM Dillon Field Office and Beaverhead National Forest	Bannack Red Rocks, Wisdom, Twin Bridges	BLM 458,880 USFS 165,003 OTHER 724,951 SUM 1,348,834	BLM 221,568 USFS 236,104 OTHER 787,069 SUM 1,244,741	BLM 680,448 USFS 401,107 OTHER 1,512,020 SUM 2,593,575
<b>TOTALS</b>  For Amendment area. Not inclusive of Butte Field Office, MT	N/A	<b>BLM 7,472,936 (63%)</b> <b>USFS 994,509 (8%)</b> <b>OTHER 3,487,279 (29%)</b> <b>SUM 11,954,724</b>	<b>BLM 2,190,402 (38%)</b> <b>USFS 903,653 (16%)</b> <b>OTHER 2,695,667 (47%)</b> <b>SUM 5,789,722</b>	<b>BLM 9,663,338 (55%)</b> <b>USFS 1,898,161 (11%)</b> <b>OTHER 6,182,946 (35%)</b> <b>SUM 17,744,445</b>
Butte Field Office.  Within Subregion boundary but LUP not being amendmend. Information is for cumulative purposes only.	Belt Mountains and adjacent areas.	BLM 0 USFS 0 OTHER 0 SUM 0	BLM 25,825 USFS 496 OTHER 394,408 SUM 420,729	BLM 25,825 USFS 496 OTHER 394,408 SUM 420,729

**Comment [pm9]:** Changed from 994,683 PPH and 903,655 PGH due to boundary error. Also changed row total.

**Comment [pm10]:** Changed from 11,954,898 due to boundary error.

**Comment [pm11]:** Changed from 5,780,724 due to boundary error. Also changed grand sum from 17,744,621.

**Comment [pm12]:** Per Kelly B., Butte FO RMP says there is 22,950 ac PGH. However we used the PPH/PGH data for the subregion. Need to resolve these sort of acre issues. Which data do we use?

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Acres PPH by Ownership in Analysis Area	Acres PGH by Ownership in Analysis Area	Acres PPH and PGH Combined by Ownership in Analysis Area
<b>TOTALS Within Subregion and inclusive of Butte Field Office</b>	N/A	BLM 7,472,936 (63%)	BLM 2,216,227 (36%)	BLM 9,689,163 (53%)
		USFS 994,509 (8%)	USFS 904,149 (15%)	USFS 1,898,657 (10%)
		OTHER 3,487,279 (29%)	OTHER 3,090,075 (50%)	OTHER 6,577,354 (36%)
		SUM 11,954,724	SUM 6,210,451	SUM 18,165,164

**Comment [pm13]:** Changed from 994,683 due to boundary error.

**Comment [pm15]:** Changed from 904,151 due to boundary error

**Comment [pm17]:** Changed from 1,898,833 due to boundary error

**Comment [pm14]:** Changed from 11,954,898 due to boundary error.

**Comment [pm16]:** Changed from 6,210,453 due to boundary error.

**Comment [pm18]:** Changed from 18,165,350 due to boundary error

**Habitat conditions and trends**

The general condition and trend of habitats on BLM and FS administered lands varies by geographic area within the subregion, and is a result of various threats that are currently occurring or that have occurred historically.

In Idaho, nineteen threats to sage-grouse were ranked by an independent science panel and addressed in the *Conservation Plan for the Greater Sage-grouse in Idaho* (Idaho Sage-grouse Advisory Committee 2006). Highest ranking threats, in order of relative score, included wildfire, infrastructure, annual grasslands, livestock impacts, human disturbance and West Nile virus. Additional habitat-associated threats of concern in portions of southern Idaho included conifer encroachment, seeded perennial grasslands, sagebrush control, urban and exurban development, and mines, landfills and gravel pits. In 2012, the Idaho Governor’s Sage-grouse Task force reiterated concerns about wildfire, invasive species and infrastructure, as well as recreation, improper livestock grazing and West Nile virus (Idaho Governor’s Sage-grouse Task Force 2012). Landscape conditions and trend of BLM and FS lands in the subregion are summarized in Table 3.XXX.



Table 3.XXX. Habitat conditions, trends and primary threats to sage-grouse habitat in the Idaho/Southwestern Montana planning subregion.

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
<b>Idaho- West Owyhee</b>	Great Basin Core	<p>Large, intact areas of native sagebrush are present, and contiguous with Nevada and Oregon</p> <p>Relatively low level of infrastructure development</p> <p>Constitutes the largest remaining intact sagebrush area in the subregion.</p> <p>Trend is that wildfires continue to impact sagebrush acreage but at a smaller scale and frequency than other areas. Juniper control efforts by BLM and others likely are not keeping pace with expansion.</p>	N/A	<p>Wildfire</p> <p>Juniper encroachment in the western portion</p> <p>Invasives (cheatgrass, mainly)</p> <p>Infrastructure associated with proposed new transmission lines.</p> <p>Potential for wind energy development in higher elevations such as the Owyhee Mountains.</p> <p>Potential for geothermal energy development in the Bruneau Field Office.</p>
<b>Idaho- Southern</b>	G. Basin Core, E. Central Idaho, Bear Lake Plateau portion of the Wyoming Basin	<p>Lower elevation, drier Wyoming big sagebrush habitats are fragmented heavily in many areas due to frequent large wildfires.</p> <p>Cheatgrass poses a risk in most lower elevations.</p> <p>Higher elevation, mountain big sagebrush sites are generally in good condition.</p> <p>Portions contain large perennial grasslands</p>	<p>Habitats are higher elevation mountain big sagebrush, in relatively good condition, however, they are smaller, fragmented, disjunct, fringes of sagebrush with steeper slopes interspersed between other habitat types.</p> <p>High to moderate risk of near term infrastructure development due to interest in wind energy.</p>	<p>Wildfire poses a substantial threat. Significant acreages within the Jarbidge Field Office, in particular, have burned in the past two decades.</p> <p>High interest in wind development on higher elevation BLM and FS lands (e.g., Cotterel, South Hills, S. Twin Falls County, Pocatello/ American Falls etc.).</p>



Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
		<p>pending recovery of sagebrush.</p> <p>Trend is toward continuing, rapid loss of sagebrush at relatively large scales in the western portion due to wildfire.</p>	<p>Trend in habitat condition (sagebrush) is relatively stable due to lower frequency and smaller scales of wildfires. However, while less frequent, a trend toward larger wildfires in sagebrush (when they occur) has continued during the last decade.</p>	<p>Urban expansion; potential for oil/gas development in the Bear Lake Plateau.</p> <p>Conifer encroachment, mainly Utah juniper, in the Burley Field Office.</p> <p>Cheatgrass expansion in lower elevations (i.e., Wyoming big sagebrush.</p> <p>Juniper encroachment is considered a primary threat in many locations on FS lands south of the Snake River.</p>
<b>Idaho- Desert</b>	Snake/Salm on/ Beaverhead	<p>Substantial portions of the Big Desert and Minidoka Desert areas have burned in the past two decades due to large scale, fast-moving wildfires. Some large areas of sagebrush remain in the western and northern portions, but are at risk of wildfire.</p> <p>Most Wyoming big sagebrush habitats are at risk of cheatgrass expansion though some intact areas remain.</p> <p>The trend is for continued rapid loss of large acreages of sagebrush and recent restoration efforts, due to</p>	N/A. Minimal FS lands involved.	<p>Wildfire poses a significant risk to all habitats in the area.</p> <p>Cheatgrass in lower elevation habitats is at risk of advancing or proliferating following wildfire.</p> <p>Infrastructure development, mainly from proposed transmission lines poses a risk, generally near the fringe of PPH and PGH.</p> <p>There is some potential for geothermal development in portions of the Shoshone Field Office.</p>

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
		continuing wildfires.		
<b>Idaho-Mountain Valleys</b>	Snake/Salmon/Beaverhead, Sawtooth, Weiser	<p>Sagebrush habitats including both lower and higher elevations, are generally in-tact and at lower risk of invasives and wildfire.</p> <p>In the northern portion (e.g., Challis, Salmon Field Offices, understories of Wyoming big sagebrush habitats have shifted in some areas to predominance by Sandberg's bluegrass in past decades. Trend is static in the absence of restoration seeding efforts. Higher elevation areas are generally in-tact, though may be at risk to encroachment by Douglas-fir.</p> <p>In the eastern portion (Upper Snake area) mountain big sagebrush may be exceeding desired densities in some areas, although there is also concern to retain sagebrush due to losses elsewhere.</p> <p>In the western portion (Weiser area) there is a relatively isolated sage-</p>	<p>Higher elevation lands are typically more resilient, and generally in-tact.</p> <p>Conifer encroachment is a threat in areas adjacent to conifer forests such as Douglas-fir and juniper.</p>	<p>Recreation and Travel Management are of concern due to high interest in recreational pursuits.</p> <p>Infrastructure development, mainly transmission, poses as risk. Habitats in the Challis/Salmon portion also tend to be more linear in configuration due to the orientation of associated mountain ranges and valleys. Impacts from infrastructure development, roads etc., could be more concentrated as a result.</p>

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
		grouse population facing rapid exurban expansion, interest in gas and geothermal development and wildfire risk.		
<b>Utah- Admin by Sawtooth Nat. Forest</b>	G. Basin Core	N/A.	Sagebrush habitats are generally composed of mountain big sagebrush and low sagebrush. Understories are generally intact and include native grasses and forbs. Cheatgrass in lower elevation habitats is at risk of advancing or proliferating following wildfire.	Pinyon-Juniper encroachment is considered a primary threat in many locations on FS and private lands.  Interest in wind development on higher elevation BLM and FS lands
<b>Montana- BLM Dillon Field Office and Beaverhead National Forest</b>	Bannack Red Rocks, Wisdom, Twin Bridges	Diverse habitat conditions are present and are widely interspersed across various ownerships. In areas that were of tilled, sprayed and seeded, sagebrush canopy has recovered but the herbaceous understory composition is a mix of native species and non-native wheat grasses. There has been little disturbance in sagebrush canopy cover in the last 40 years the field office. Over all habitat conditions are improving due to changes in livestock management in	Pending Beaverhead-Deerlodge NF input	Wildfire, (Acres lost to wild fire in the past 50 years has been minimal, but the treat is ever present.)  Invasive plant species (primarily along travel corridors - spotted knapweed, leafy spurge, hounds tongue and some cheatgrass)  Conifer colonization in to sagebrush steppe habitat (primarily Douglass Fir)  Infrastructure/Anthropogenic disturbances, (fences, roads, power lines, pipelines)

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
		the past ten years as well.		<p>Improper grazing</p> <p>Habitat conversion for agricultural needs on private lands.</p> <p>energy/mineral exploration and development,</p>
<p><b>Butte Field Office.</b></p> <p><b>Within Subregion boundary but LUP not being amended.</b></p>	<p>Belt Mountains and adjacent areas.</p>	<p>Historically, this species was present, but not documented breeding since 1992. Habitat is present but sparse.</p> <p>The Big Belts are an isolated mountain range on the east side of the Missouri River adjacent to Canyon Ferry reservoir. Foothills are drier with scattered Rocky Mountain juniper and limber pine and a variety of shrubs on some sites. At the lowest elevations the habitat is dominated by grasslands and scattered big sagebrush. Many of these habitats have been converted to dry land grain production and irrigated cropland</p>	<p>Following is per MT BLM. Pending Beaverhead-Deerlodge NF input</p> <p>Timber harvest has occurred throughout this area, particularly on the north end. There are high road densities in some locations.</p> <p>Fire suppression has led to an increase in forest density and high insect populations as well as colonization of shrublands by juniper and Douglas-fir.</p> <p>The area is dominated by livestock grazing.</p> <p>Many private ranches have sold and subdivided their land.</p>	<p>Habitat fragmentation from urban development and roads.</p> <p>Wildfire</p> <p>Douglas-fir and juniper colonization of sagebrush stands.</p> <p>Invasives (mainly Dalmatian toadflax, spotted knapweed and leafy spurge)</p> <p>Livestock grazing</p> <p>Fences</p> <p>Potential oil and gas development from Birch Creek to Deep Creek, in the Mount Baldy area and the Horseshoe Hills.</p>

<sup>a</sup> Sources: Conservation Plan for the Greater Sage-grouse in Idaho (Idaho Sage-grouse Advisory Committee (2006), Idaho Governor’s Sage-grouse Task Force (September 5,2012 Version)

Federal Alternative for Greater Sage-grouse Management in Idaho, Management Plan and Conservation Strategies for Sage Grouse in Montana (2005), Dillon Resource Management Plan (2006), Butte resource Management Plan (2009), and interdisciplinary team expert opinion.

## Wildland Fire Management

The wildland fire management program encompasses the full range of hazardous fuels, an appropriate preplanned response to unplanned ignitions of wildland fires, and the rehabilitation of lands affected by these unplanned ignitions.

The wildfire suppression program utilizes a coordinated effort to respond to all unplanned ignitions (wildfire) with a preplanned, appropriate response. Each response is guided by resource management plan and fire management plan direction. As the severity and number of wildfires escalates, the further response and prioritization of fire suppression resources becomes a collaborative effort between field, district, and state managers working closely with interagency partners.

Analyzing fire occurrence and drawing any direct or indirect correlation between supplied data is a far from perfect science. Some generalizations can be roughly interrupted such as an average length of fire season in days for current districts, the number of fires that could be reasonably expected annually, and the number of acres that are burned on an average year.

Trend analysis of fire starts and acres burned in the sage steppe ecosystem is very general and dependent predominately upon weather and fuels conditions. The relative fuel conditions of live fuel moistures and fine fuel loadings coupled with weather conditions such as relative humidity, wind speed, and days since last rainfall drive large fire growth in the grass fuel type.

Fire occurrence is weighed towards human causes, especially around urban centers and along major highway corridors. (insert/provide ID BLM fire occurrence map, showing both human and lightning starts??) However, lightning is the major contributor to multiple large fire days and high numbers of BLM acres burned. Lightning storms generally track from Southwestern towards Eastern Idaho, leaving successive lightning starts across all three southern districts, often times in remote or difficult to reach areas. These lightning events are commonly associated with strong winds which contribute to rapid large fire growth. Summer storms commonly lack significant rainfall. It should be reasonably expected that the majority of large fire days correspond to high percentile BI days.

Since 2006, emphasis upon the protection of sage-grouse habitat during suppression actions has taken center stage in planning and operational discussions. High numbers of PPH and PGH acres were burned in 2007 and 2012. XXX PPH and XXX PGH acres have been burned from 2006 through 2012. Again, the majority of these acres were burned during corresponding high BI days or periods.

Burning Index (BI)--A number related to the contribution of fire behavior to the effort of containing a fire. The BI is an index that rates fire danger related to potential flame length over a fire danger rating area.

<b>Historical Large Fires (300 Acres and Greater) 1980 to 2012</b>			
	Average Date of First Large Fire Per Year	Average Date of Last Large Fire Per Year	Average Days Between First and Last Large Fires
Boise District	6/12	9/18	96
Idaho Falls District	7/13	9/10	57
Twin Falls District	6/26	10/2	96

<b>BLM Fire Data 1980 to 2012</b>					
		Fires	BLM Acres Burned	Non-BLM Acres Burned	Total Burned Acres
Fires Occurring on BLM Lands and Suppressed by BLM	Human	3,373	1,140,029	525,949	1,665,978
	Natural	2,728	4,610,547	1,198,145	5,808,693
	Totals	6,101	5,750,577	1,724,095	7,474,672
Fires Threatening BLM Lands Where Action is Taken By BLM to Prevent Spread to BLM	Human	1,792	341,094	246,680	587,774
	Natural	522	53,783	203,884	257,667
	Totals	2,314	394,877	450,564	845,441
Total Fires Affecting BLM Acres		9,623	6,249,279	2,183,453	8,432,732

## Fire Regime Condition Class:

### Natural Fire Regime:

A natural fire regime is a general classification of the role fire would play across a landscape without

modern human mechanical intervention.<sup>1,2</sup> The five natural fire regimes are classified based on average

number of years between fires (fire frequency) combined with the severity of the fire on the dominant

overstory vegetation (amount of vegetation replacement). These five regimes include:

I – 0 to 35 year frequency and low (surface fires most common) to mixed (less than 75% of the dominant overstory vegetation replaced) severity;

II – 0 to 35 year frequency and high severity (greater than 75% of the dominant overstory vegetation replaced);

III – 35 to 100+ year frequency and mixed severity (less than 75% of the dominant overstory vegetation replaced);

IV – 35 to 100+ year frequency and high severity (greater than 75% of the dominant overstory vegetation replaced);

V – 200+ year frequency and high severity (greater than 75% of the dominant overstory vegetation replaced).

### Fire Regime Condition Class (FRCC):

A fire regime condition class (FRCC) is a classification of the amount of change in fire

frequency and severity from the natural fire regime.<sup>3</sup> The three classes are based on low (FRCC

1), moderate (FRCC 2), and high (FRCC 3) change from the natural fire regime.<sup>4,5</sup> The change in natural fire regime results from changes to one or more of the following fire regime attributes:

Vegetation characteristics (i.e., species composition, structural stages, stand age, canopy closure, and mosaic pattern); Fuel composition; Fire frequency, severity, and pattern; and Other associated disturbances (e.g., insect and diseased mortality, grazing, and drought).

Characteristic vegetation and fuel conditions are considered to be those that occurred within the natural fire regime. Uncharacteristic conditions are considered to be those that did not occur within the natural fire regime. Examples of uncharacteristic conditions include invasive species (e.g. weeds, insects, and diseases) or excessive vegetation removal. The amount of change is based on comparison of the fire regime attributes as identified above to the natural fire regime. The amount of change is then classified to determine the FRCC.

<sup>1</sup> Agee, J.K. 1993. Fire ecology of Pacific Northwest Forests. Island Press, Wash. DC. <sup>2</sup> Brown, J.K. 1995. Fire regimes and their relevance to ecosystem management. Pages 171-178 *In* Proceedings of Society of American Foresters National Convention, Sept. 18-22, 1994, Anchorage, AK. Society of American Foresters, Wash. DC.

<sup>3</sup> Hann, W.J., Bunnell, D.L. 2001. Fire and land management planning and implementation across multiple scales. *Int. J. Wildland Fire*. 10:389-403. <sup>4</sup> Hardy, C.C., Schmidt, K.M., Menakis, J.M., Samson, N.R. 2001. Spatial data for national fire planning and fuel management. *International Journal of Wildland Fire* 10:353-372. <sup>5</sup> Schmidt, K.M., Menakis, J.P. Hardy, C.C., Hann, W.J., Bunnell, D.L. 2002. Development of coarse-scale



### **Current Conditions:**

The Hazardous Fuels Reduction Program (HFR) involves a variety of treatments to modify vegetation to provide for firefighter safety, reduce the potential of wildfire spread, reduce the detrimental effects of wildfire on a landscape, protect private holdings and infrastructure, and decrease the costs of rehabilitation efforts after a wildfire has occurred. Depending on the specifics of the overall project, multiple treatment types may be involved over several years to obtain the specifications for the project. One example of this would be: For an annual grass dominated area, prescribed fire will be used to remove existing layers of the annual grass and reduce the seed source. Chemical application(s) would be utilized to further reduce the seed source and the resulting new annual grass plants. Mechanical seeding(s) of perennial (native or non-native, grass/shrub/forb) mixtures would occur, pending the most successful time of year for application(s).

### ***Examples of treatment types:***

**Prescribed Fire (Treatment)** – An HFR Treatment Category for any fire ignited by management actions to meet specific objectives and to achieve Fire Management Plans.

**Mechanical (Treatment)** – An HFR Treatment Category that describes work that manually or mechanically removes or modifies fuel load structures to achieve Fire Management Plans.

**Other (Treatment)** – An HFR Treatment Category that describes work involving the use of chemicals and biological methods to achieve Fire Management Plans.

In Idaho, the HFR Program has been in place since the start of the 2000 National Fire Plan identified the need and funding source to develop and maintain the program. Within the last 5 years, which would represent the most current treatments on the existing landscape, the following acreage and types of treatments are shown below. The prescribed fire acreages have decreased from historical levels due to multiple large scale wildfires accomplishing the removal of undesirable vegetation in areas planned for future projects. Mechanical treatments have increased in, both, seeding and mechanical reductions of conifer encroachment throughout PPH and PGH areas. The use of chemical or “Other” types of treatments has grown to increase the probability of success of seeding(s) of perennial (native or non-native, grass/shrub/forb) mixtures by removing the dominance and competitiveness of the undesirable annual grass and weed species. Biological or “Other” treatments (insects, goat, specific pathogens) have recently been of interest in very specific areas due to the “high risk” in areas that may have significant values should accidents occur during implementation of mechanical treatments (rocks, windows, etc.).

## **Trends:**

### **Treatment type and acreages over the past 5 years:**

**Prescribed Fire:** 2008-11,199 acres, 2009- 8,647 acres, 2010- 7,189 acres, 2011- 6,398 acres, 2012- 3,021 acres.

**Mechanical:** 2008- 46,073 acres, 2009- 38,992 acres, 2010- 33,975 acres, 2011- 30,987 acres, 2012- 30,725 acres.

**Other:** 2008- 59,003 acres, 2009- 47,991 acres, 2010- 36,500 acres, 2011- 39,895 acres, 2012- 71,666 acres.

Over the past few years, the focus of the HFR program was to treat acreages within the Wildland Urban Interface (WUI). This was specific to protecting private in-holdings in the attempt to decrease the detrimental effects of wildfire to human structures and the associated infra-structure for the communities. Direction was to focus the majority of expenditures in the WUI and expend minimal amounts on landscape level treatments. Budgetary erosion and increased costs are forcing decisions in the fire management arena to decrease the capability of the proactive HFR program to maintain the reactive suppression and rehabilitation efforts. If this trend continues it is forecasted that the HFR program will be non-existent by 2018. The side effects of this trend is that areas, regardless of ownership, would be left untreated or maintained and landscapes will have minimal treatments to: Reduce fire growth in areas of conifer encroachment, invasive annual grasses and weeds, habitats of concerned species, watersheds of communities and fuel breaks to compartmentalize fire growth.

## Emergency Stabilization and Rehabilitation (ES&R)

Alteration to the historic fire regime has substantially reduced the sagebrush steppe communities of the Sub Unit and the larger Great Basin. The exclusion of wildfire within the upper elevations shrub steppe communities (primarily mountain big sagebrush) has converted approximately XXX acres of sage-grouse habitat into juniper woodland.

The greatest loss of sage-grouse habitat however has been from cheatgrass proliferation and wildfire within the lower elevation sagebrush communities (primarily Wyoming big sagebrush). Historically, wildfire was not a common occurrence on these sites. Current literature estimates the fire interval at approximately 100 years. Historically, these sites are believed to have consisted of perennial bunch grasses, scattered sagebrush, and biologic soils crusts which armored and protected the soil. The discontinuous fuels provided by these life forms did not lend themselves to extensive fires. When these sites did burn, the fires were typically small and discontinuous.

In the late 1800's, unregulated livestock grazing allowed cheatgrass and other inadvertently introduced exotic annual grasses to be occupying these disturbed areas. The uniform fine fuels which dry out early in the growing season make these grasses highly flammable, resulting in more frequent and extensive wildfires. Frequently, fires were set deliberately by sheep herders to provide early spring cheatgrass forage for lambs. Each recurring fire set the stage for further cheatgrass expansion, resulting in an ever increasing cheatgrass/fire cycle and loss of sage-grouse habitat. The exponential increase in fires throughout the last century has converted XXXX % of the Sub Unit into a fire maintain annual grass dominated landscape. In much of this area, fire-return intervals have been shortened to between two and four years (Whisenant 1990).

Most of the subunits lower elevation shrub steppe communities (even those containing minimal cheatgrass understories) will cross a threshold into fire maintained cheatgrass dominated communities unless they are successfully rehabilitated within the first couple years following wildfire. Such areas are also highly susceptible to noxious weed invasion. Therefore, successfully reestablishing perennial vegetation within this narrow time frame is essential for reducing the loss of low elevation sage-grouse habitat.

Fire rehabilitation consists of mitigating damaging effects from wildfire and in restoring vegetative structure and function to recently burned fire damaged areas which cannot recover on their own. These efforts consist primarily of seeding perennial grasses, shrubs, and forbs. Seeding technique are based largely on seed size. Most grasses (which have relatively large seeds) are drill seeded to effectively cover the seed, whereas sagebrush and many forbs (which consist of small seeds) are most successful broadcast seeded.

Drought and invasive annual grass competition are the two biggest challenges to reestablishing perennial vegetation following wildfire on the low elevation sites. Seedings are most successful during years of adequate precipitation and on sites where cheatgrass competition is minimal such as recently burned sagebrush stands in good condition, or sagebrush stands with cheatgrass in the understory which burn hot enough consume cheatgrass seed lying on the soil

surface underneath the sagebrush canopy. The higher the density of sagebrush cover prior to the burn, the greater the likelihood for seedings success. Because sagebrush fires burn hotter and slower than grassland fires, the cheatgrass seed lying on the soil surface underneath the sagebrush canopy is usually consumed, whereas the seed lying outside of the sagebrush canopy or other shrub free areas (such as previously burned cheatgrass dominated sites) is not consumed and remains viable. Accordingly, the areas underneath the burned sagebrush canopy create a cheatgrass free “clean” seedbed which allows seeded species to establish relatively free of cheatgrass competition. Although the areas outside of the canopies will remain dominated by cheatgrass, the established seeded plants underneath the former sagebrush canopy will usually out compete the adjacent cheatgrass over time with proper grazing management. However, strong wind driven fires often prevent consumption of cheatgrass seed, thereby requiring cheatgrass control. Seeding previously burned cheatgrass-dominated sites devoid of a brush overstory, is not usually successful because these rapid cheatgrass driven fires do not provide enough heat to consume cheatgrass seed lying on the soil surface.

Herbicides have proven to be the most effective and noninvasive method for controlling annual grasses prior to seeding. Before 1991, the use of herbicides to control invasive annual grasses was prohibited on public land. Therefore, various tilling methods such as plowing and disking were the only available options. Unfortunately, these treatments obliterated remaining native vegetation and biologic soil crusts, increased site susceptibility to wind erosion and often resulted in seed being drilled too deeply, thereby opening the site for total cheatgrass domination when seedings were unsuccessful. Prescribed fire was used in attempts to kill cheatgrass seed while still on the plant. Although such fires kill some seed still on the plant, they do not burn hot enough to kill cheatgrass seed on the soil surface.

Intensive livestock grazing is often suggested for controlling cheatgrass competition. Although targeted grazing may have some applications for fuels management, it is not effective in reducing cheatgrass competition. During the short time when cheatgrass is highly palatable in the spring, a sufficient number of livestock cannot be concentrated on a small enough area to reduce the cheatgrass seed significantly or reduce cheatgrass seed lying on the soil surface. Recurring intensive grazing would be required to exhaust the seed source (which can remain viable for many years). This type of grazing is detrimental to existing perennial grasses, thereby opening the site up for further cheatgrass expansion in the future.

BLM is authorized to use various approved contact and pre-emergent herbicides for controlling invasive annual grasses. Both types of herbicides have their advantages and shortcomings.

Glyphosate (a contact herbicide) has been widely and successfully used within the Twin Falls District. These herbicides must be applied during the short period that cheatgrass is actively growing, and before seed development occurs. When numerous cheatgrass crops occur on a given year, repeated applications are required. Additionally, application rates must be tuned to minimize damage to existing perennial plants while effectively controlling the invasive annuals.

Glyphosate is quickly absorbed into the soil and therefore has no potential for offsite non-target damage from moving soil particles

Preemergent herbicides such as imazapic and sulfometuron methyl are highly effective in controlling invasive annual grasses while having minimal impacts to most established perennial species. They are also classified as nontoxic to fish and wildlife. These herbicides do not require the specific application timing needed with glyphosate, and their residual action in the soil controls annual grasses whenever they happen to germinate. The residual action lasts from one to three years, depending on soil moisture, pH, and temperature. In addition to controlling invasive annual grasses prior to seeding, these herbicides could be used to help maintain and protect existing native plant communities which have been invaded with annual grasses. Such treatments would allow the natives to gain a competitive advantage over the exotic annuals, and the associated reduction in annual grass fuels would reduce the site's risk to wildfire. A limitation of these herbicides is their potential to damage crops at extremely low concentrations. Accordingly, these herbicides cannot be used near agricultural areas or on unstable soils.

Recent research on naturally occurring fungi and bacteria for controlling cheatgrass is encouraging and may prove to be an effective future control method.

Selecting plant materials which can establish and persist in these arid cheatgrass competitive environments is essential for restoring sagegrouse habitat lost through wildfire. Prior to 1986, fire rehabilitation funds could not be used for sagebrush seeding. Since that time, sagebrush is included in most fire rehabilitation seedings on its respective ecological sites. Occasionally, during busy fire years, sagebrush seed shortages restrict its use to priority burned sage-grouse habitat.

Native grasses and forbs are preferred over introduced species when they can meet the above requirements. Historically, few adapted native grass seed was available which could persist in these desert environments, thereby requiring the use of durable introduced species such as crested wheatgrass. Over time, selections of native blue bunch wheatgrass, basin wildrye, Snake River wheatgrass, squirreltail, Indian ricegrass, and Sandberg bluegrass have become increasingly available and are now used extensively in fire rehabilitation seedings for areas that receive at least 10" of annual precipitation in recently burned sagebrush communities. For the past ten years, BLM has been funding the interagency Great Basin Native Plant Selection and Increase Project for increasing native seed availability, especially native forbs important to sage-grouse, and to improve the success of land managers in establishing native plants (<http://www.fs.fed.us/rm/boise/research/shrub/greatbasin.shtml>)

However, some important native grasses (such as Thurber's Needlegrass) are still not widely available and or effective in competing with cheatgrass in the harshest environments. In these areas, durable introduced species as Siberian wheatgrass and Russian wild rye are still the only viable option. Even those species are often unsuccessful on those sites. Additionally, restoring native plant communities in repeatedly burned annual dominated grasslands has proven largely

unsuccessful. Considerable speculation and research has attempted to understand why. A lack of mycorrhiza, soil nutrients, and other changes to the soil environment from years of invasive annual grass domination is believed to be at least partially responsible.

The theory of “assisted succession” is suggested as a method for ultimately restoring these areas by first vegetating with resilient introduced species to break the fire cycle, removing annual grass dominance and deplete annuals’ seed source, and restore soil characteristics which may in time make the site more hospitable to restoring the native community, followed by eventual seeding with natives. Accordingly, this is a long term costly process which cannot begin to be implemented until the fire cycle has been broken. Until the majority of annual grass dominated landscapes can be rehabilitated to less fire prone species in the long-term, these short fire cycles will result in a continual loss of these investments, and in the remaining native sagebrush steppe communities.

Seeded areas require rest from livestock use to become fully established, followed by livestock management which will maintain plant health and vigor. BLM policy traditionally prescribes a minimum of two years rest period (from livestock grazing), and until plant establishment objectives are met. Depending on moisture and other site conditions, longer rest is often needed grazing can be resumed. A true native restoration could require years of rest from grazing to become successfully established (depending on plant materials used and site characteristics). Such large scale treatments could have significant impacts to grazing permittees, and may also necessitate more restrictive management to maintain the native seeded species over the long term.

The ability to protect these areas from recurring wild fire is crucial to maintaining the reestablished sagebrush component. Successful fire rehabilitation seeding contributes partially to this goal by changing the fuels from highly flammable annual grasses with high fuel continuity, into less fire prone perennial bunch grasses which stay greener longer and which provide much less fuel continuity. Accordingly, when fire does return to these rehabilitated areas, the fires are often spotty which leave substantial unburned sagebrush islands and a seed source for naturally reestablishing sagebrush. Additionally, the burned perennial grasses quickly re-sprout and compete effectively with annual weeds.

Also needed is a system of effectively managed fuels breaks consisting of durable fire resistant vegetation (such as forage kochia) placed primarily along roads to reduce the wildfire size, and provide lines of defense for fire suppression efforts, and to reduce the occurrence of roadside ignited fires.

# CHAPTER 3

## AFFECTED ENVIRONMENT - Lands and Realty

### 3.2 LANDS AND REALTY

The primary goal of the BLM Lands and Realty program is to enhance the administration of public land ownership to provide the most effective configuration of lands and interests in land, consistent with land use plans developed through a full and open public involvement process, and to further the purposes of FLPMA.

Lands and realty actions can be divided between land tenure adjustments and land use authorizations. Land tenure adjustments focus on land exchange, acquisition (including purchase and easement acquisition), disposal, and withdrawals. Land use authorizations consist of rights-of-ways (ROWs), utility corridors, and other leases or permits.

#### 3.2.1 Indicators

Indicators are measurable factors that are used to describe resource conditions or levels of use. The indicators used to describe current conditions are the same indicators used to predict the potential effects that could result from implementation of any of the proposed alternatives described in **Chapter 2**.

The indicators for land and realty are:

- Number and type of land tenure adjustments, and;
- Number, acres/miles, and type of land use authorizations.

#### 3.2.2 Existing Conditions

The lands within the planning area are owned and/or managed by multiple federal, state, and local agencies, as well as private landowners. The configuration of land ownerships and their proximity to each other is an important factor when considering land tenure adjustments and evaluating land use authorization applications. The planning area contains lands owned by **XX, XX, XX, and XX**. **Table X-X**, Surface Ownership in Planning Area, shows the acreage and overall percent ownership for each land owner in the planning area.

**Table X-X**  
**Surface Ownership in Planning Area**

<b>Land Owner</b>	<b>Acres</b>	<b>Percent of Planning Area</b>
<b>BLM</b>		
<b>Forest Service</b>		
<b>etc</b>		

**Source:**

Within the planning area, public lands have been classified for retention or disposal pursuant to Section 7 of the Taylor Grazing Act (43U.S.C. 315f), Federal Land Policy and Management Act (FLPMA), and 43 C.F.R. 2400 and 2500; public lands and also been identified as ROW exclusion or avoidance areas, and ROW corridors, pursuant to FLPMA and 43 CFR 2800. **[Add FS planning designations and**

**regulation references]**

**Table X-X**, Land Classifications/Designations in the Planning Area, lays out the number of acres identified with land tenure classifications and ROW designations in the planning area.

**Table X-X**  
**Land Classifications/Designations in Planning Area (Acres)**

<b>Land Status</b>	<b>Acres within Planning Area</b>
Disposal by sale	XXX
Disposal by exchange	XXX
Retention	XXX
ROW Avoidance	XXX
ROW Exclusion	XXX
ROW Corridor	XXX

Source: XXXX

**Land Tenure Adjustments**

Land ownership (or land tenure) adjustment refers to those actions that result in the disposal or withdrawal of public land, or the acquisition by the BLM of nonfederal lands or interests in land. Section 102(a) of FLPMA requires that public land be retained in Federal ownership unless, as a result of land use planning, it is determined that disposal of certain parcels will service in the national interest. In all land tenure adjustments, keeping the surface and mineral estate intact on both the lands disposed of and acquired would benefit the future owners and their use of the land.

*Disposals*

Disposal areas include tracts of land that are economically difficult to manage, and/or parcels that could serve important public objectives, including, but not limited to, expansion of communities and economic development. These lands are usually disposed of through exchanges or land sales. Tracts of land that are designated in BLM land use plans as potentially available for disposal are more likely to be conveyed out of federal ownership through an exchange rather than a sale. This preference toward exchange over sale is established in BLM policy.

There are approximately XXXX acres of BLM-managed land is identified for disposal in the planning area identified through land use plans [list RMP's by name (reference)]. XXXX of these acres lie within PPH, while XXXX acres lie within PGH.

Exchanges. Exchange is the process of trading lands or interests in lands and serves as a viable tool for the BLM to accomplish its goals and mission. Exchanges must be in the public interest and conform to applicable BLM land use plans. The lands to be exchanged must be of approximately equal monetary value and located within the same state. Public lands may be exchanged for lands or interests in lands owned by corporations, individuals, or government entities. Except for those exchanges that are congressionally mandated or judicially required, exchanges are voluntary and discretionary transactions with willing landowners.

Exchanges are the primary means by which land acquisition and disposal are carried out.

Land exchanges are used to (1) bring lands and interests in land with high public resource values into public ownership, (2) consolidate land and mineral ownership patterns to achieve more efficient management of resources and BLM programs, and (3) dispose of public land parcels identified for disposal through the planning process.



There are **XX** pending land exchanges within the planning area: [list the RMPs, the number of acres to dispose and acquire and how many of those acres are within PPH/PGH or outside of sage grouse habitat].

Land Sales. Section 203 (a) of FLPMA provides for sale of public lands if one of the following criteria is met: (1) the tract is difficult and uneconomic to manage as part of the public lands and is not suitable for management by another Federal agency; (2) such tract was acquired for a specific purpose and the tract is no longer required for that or any other Federal purpose; or (3) disposal of such tract will serve important public objectives, including but not limited to, expansion of communities and economic development that cannot be achieved prudently or feasibly on land other than public land. Public lands that have been identified for consideration for disposal by sale in the approved LUPs meet one or more of these criteria. Public lands must be sold at not less than fair market value.

Section 209 of FLPMA authorizes the conveyance of federal minerals through sale and specifies the conditions under which the mineral rights would be conveyed. The mineral rights could be sold with the land surface, sold as a separate transaction, or retained. Conveyance of mineral rights has occurred only in conjunction with the sale of land.

There are **XXX** pending land sales within the planning area: [list the RMPs, the number of acres to be sold and how many of those acres are within PPH/PGH or outside of sage grouse habitat].

Withdrawal - Withdrawal are formal actions that accomplish one or more of the following actions:

- Transfers total or partial jurisdiction of Federal land between Federal agencies.
- Segregates (closes) Federal public lands to appropriation under public land laws including mineral laws.
- Dedicates public land for a specific public purpose.

There are three major categories of formal withdrawals: (1) congressional withdrawals, (2) administrative withdrawals, and (3) Federal Power Act or Federal Energy Regulatory Commission (FERC) withdrawals.

- Congressional withdrawals are legislative withdrawals made by Congress in the form of public laws (acts of Congress).
- Administrative withdrawals are made by the President, Secretary of the Interior, or other authorized officers of the executive branch of the Federal government.
- Federal Power Act or FERC withdrawals are power project withdrawals established under the authority of the "Federal Power Act" of 1920. Such withdrawals are automatically created upon filing an application for a hydroelectric power development project with FERC.

Federal policy now restricts all withdrawals to the minimum time and acreage required to serve the public interest, maximize the use of withdrawn lands consistent with their primary purpose, and eliminate all withdrawals that are no longer needed. Management and adjustment of withdrawals focuses on the establishment, management, modification, and revocation of withdrawals.

There are currently XXX withdrawals in the planning area, encompassing XXXX acres of federal land. These withdrawals are used for [add a list of purposes, such as “military use, public water reserves, administrative sites, research natural areas, and wildlife reserves, etc” (add reference)]. Of these withdrawals, X reside on PPH (XXXX acres) and X reside on PGH (XXXX acres).

#### *Acquisition*

Acquisition of and interests in lands are important components of the BLM’s land tenure adjustment strategy. Acquisition of lands can be pursued to facilitate various resource management objectives. Acquisitions, including easements, can be completed through exchanges (see above), land purchases, donations, or receipts from the Federal Land Transaction Facilitations Act sales or exchanges. Lands and interests in lands are acquired for the following actions:

- improve management of natural resources through consolidation of federal, state, and private lands.
- secure key property necessary to protect endangered species, promote biological diversity, increase recreational opportunities, and preserve archeological and historical resources.
- implement specific acquisitions authorized or directed by acts of Congress.

Purchases. The BLM has the authority, under Section 205 of FLPMA, to purchase lands or interests in lands. Similar to other acquisitions, purchase is used to acquire key natural resources or to acquire legal ownership of lands that enhance the management of existing public lands and resources. Acquiring lands and interests in lands through purchase helps consolidate management areas to strengthen resource protection. Purchases are used primarily to enhance recreational opportunities and acquire crucial wildlife habitats.

There are XX pending land purchases within the planning area: [list the RMPs, the number of acres to be purchased and how many of those acres are within PPH/PGH or outside of sage grouse habitat]

#### **Land Use Authorizations**

The most common form of authorization to permit uses of BLM-managed public lands by commercial, private, or governmental entities is the ROW. A ROW grant is an authorization to use a specific piece of public land for certain projects such as roads, pipelines, transmission lines, or communication sites. Some uses of BLM-managed public lands are short-term uses and authorized through land use permits such as filming activities or apiary sites. See **Table X-X** for the Active Land Use Authorizations within the Planning Area.

Authorizations grant rights and privileges for a specific use of the land for a specific period of time. It is the BLM's objective to grant land use authorizations to any qualified individual, business, or government entity, and to direct and control the use of authorizations on public lands in a manner that:

- protects the natural resources associated with public lands and adjacent lands, whether private or administered by a government entity;
- prevents unnecessary or undue degradation to public lands;
- promotes the use of authorizations in common, considering engineering and technological compatibility, national security, and area RMPs; and
- coordinates, to the fullest extent possible, all BLM actions with local, State, Native American Tribal, and other Federal agencies; interested individuals; and appropriate quasi-public entities

(43 CFR 2801.2).

**Table X-X**  
**Active Land Use Authorizations within the Planning Area**

Type	Number of Authorizations	Size (Acres)
Road		
Railroad		
Power		
Telephone		
Water facilities		
Oil and gas		
Communication sites		
Other		
Total		

Source: LR2000

#### *ROW Avoidance and Exclusion Areas*

Areas closed to mineral leasing, having a no surface occupancy restriction, or otherwise identified as unsuitable for surface disturbance or occupancy are generally identified as avoidance or exclusion areas for ROWs. Restrictions and mitigation measures could be modified on a case-by-case basis for avoidance areas, depending on impacts on resources, while exclusion areas are strictly prohibited from ROW development. See **Table X-X, Land Classifications/Designations in Planning Area** (above) for the number of acres currently identified as ROW avoidance and exclusion areas. **XXX** acres are within PPH, **XXX** acres are within PGH, and **XXX** acres are outside of Sage-Grouse habitat.

#### *ROW Corridors*

Utility corridors were developed to concentrate the effects of utility lines in manageable locations on public lands managed by the BLM often provide suitable locations for utility transmission lines. The corridors may contain power lines, transcontinental fiber optic communication cables, and trans-state gas pipelines. See **Table X-X, Land Classifications/Designations in Planning Area** (above) for the number of acres currently identified as ROW avoidance and exclusion areas.

There are **XXX** major ROW corridors presently traversing the planning area. **[List what the corridors contain and the general location and XXX acres are within PPH, XXX acres are within PGH, and XXX acres are outside of Sage-Grouse habitat. .]**

#### *Renewable Energy*

Solar, wind, biomass, and geothermal (which is managed as a fluid leasable mineral) are considered renewable energy resources. Renewable energy resources all have different requirements related to economic development; however, some issues are common to all renewable energy resources, including connection to the existing power transmission facilities and compatibility with existing Federal land use.

Wind and solar resource facilities are permitted with ROWs, through the Lands and Realty Program. Geothermal resources, as mentioned above, are considered fluid leasable minerals. As a result, management actions related to the Lands and Realty Program and leasable minerals could affect renewable energy resources. Special management designation areas, such as ACECs and WSAs, could also affect the use of renewable energy resources by limiting the location of these facilities.

There are X approved ROWs for renewable energy within the planning area, including X within PPH (XXXX acres), X within PGH (XXXX acres), and X outside of Sage-Grouse habitat (XXXX acres).

### 3.2.3 Trends

#### **Land Tenure Adjustments**

[need to add BLM/FS info on land tenure adjustment trends currently happening]

#### **Land Use Authorizations**

Land use authorization requests are customer driven. Over the last six years in the planning area, BLM has received a number of applications for major transmission line projects to traverse the state. Prior to that time, it had been over 20 years since major transmission line applications were received by BLM. BLM has not received any applications for utility-scale solar production in the planning area, nor are there solar resources comparable to the areas where utility-scale solar production projects are being proposed or built.

#### **References**

LR2000  
GIS Data

#### **Acronyms**

ROW Right-of-way

## Lands with Wilderness Characteristics (LWC)

Section 201 of FLPMA requires the BLM to maintain on a continuing basis an inventory of all public lands and their resources and other values, which includes wilderness characteristics. It also provides that the preparation and maintenance of the inventory shall not, of itself, change or prevent change of the management or use of public lands. Regardless of past inventory, the BLM must maintain and update as necessary, its inventory of wilderness resources on public lands. In some circumstances conditions relating to wilderness characteristics may have changed over time, and an area that was once determined to lack wilderness characteristics may now possess them. The BLM determines when it is necessary to update its wilderness characteristics inventory.

Under the following circumstances, the BLM considers whether to update a wilderness characteristics inventory or conduct a wilderness characteristics inventory for the first time:

1. The public or the BLM identifies wilderness characteristics as an issue during the National Environmental Policy Act (NEPA) process.
2. The BLM is undertaking a land use planning process.
3. The BLM has new information concerning resource conditions, including wilderness characteristics information submitted by the public that meets the BLM's minimum standard described in the Wilderness Characteristics Inventory Process section of this policy.
4. A project that may impact wilderness characteristics is undergoing NEPA analysis.
5. The BLM acquires additional lands.

There also may be other circumstances in which BLM will find it appropriate to update its wilderness characteristics inventory.

The primary function of an inventory is to determine the presence or absence of wilderness characteristics.

BLM has completed LWC inventory in the Four Rivers, Bruneau, Jarbidge, Pocatello, and Upper Snake Field Offices. Partial inventories have been completed in Owyhee, Shoshone, Burley, Challis and Salmon Field Offices.

Pocatello and Upper Snake Field Offices inventory found those offices have no lands with wilderness characteristics.

Four Rivers, Bruneau, and Jarbidge inventories found areas that do contain lands with wilderness characteristics.

Owyhee, Shoshone, Burley, Challis and Salmon Field Offices do not have final inventory reports.

There are XX,000 acres of lands with wilderness character within the planning area boundary.

Reference:

BLM Manual 6310 Conducting Wilderness Characteristics Inventory on BLM Lands 2012

BLM Manual 6310 Considering Lands with Wilderness Characteristics in the BLM

Land Use Planning Process 2012

## **Language to be Included into the Draft GRSG RMP Amendments and EISs**

### Chapter 3 – Affected Environment

#### *Lands with Wilderness Characteristics*

The purpose and need of the National GRSG Planning Effort is limited to making land use planning decisions specific to the conservation of greater sage-grouse habitats. No decisions related to the management of LWCs will be made as part of this planning effort; therefore, management of LWCs is considered outside the scope of this plan amendment process. Impacts to LWCs from the alternatives being analyzed for this planning effort are presented in section [REDACTED].

As part of the original FLPMA Section 603-mandated inventories, inventories that were conducted during past RMP revisions and amendments efforts, and through other various LWC inventory updates that have recently taken place, inventories for wilderness characteristics were conducted between [REDACTED] and [REDACTED] and reflect the most up-to-date LWC baseline information for this planning area. For inventories that were conducted after 2011, findings were documented following guidance in *IM 2011-154, Requirement to Conduct and Maintain Inventory Information for Wilderness Characteristics and to Consider Lands with Wilderness Characteristics in Land Use Plans*, which is now encompassed in BLM Manuals 6310 and 6320. LWC inventories will be updated for any site-specific project NEPA analyses that are conducted in the planning area to determine if a project will have impacts to LWCs identified through previous or updated inventory efforts.

Include a brief summary and reference the findings from the most recent LWC inventories that were conducted in the planning area (regardless of how old these inventories are). In many cases, this information can be derived from the existing RMPs that this plan amendment will be amending.

### Chapter 4 – Environmental Consequences

#### *Lands with Wilderness Characteristics*

In any format consistent with the structure of the plan amendment EIS's chapter 4, analyze the impacts to LWCs for all of the alternatives analyzed in this document. Please use the baseline information for the most recent LWC inventories that were summarized in chapter 3.

## Lands with Wilderness Characteristics (LWC)

Section 201 of FLPMA requires the BLM to maintain on a continuing basis an inventory of all public lands and their resources and other values, which includes wilderness characteristics. It also provides that the preparation and maintenance of the inventory shall not, of itself, change or prevent change of the management or use of public lands. Regardless of past inventory, the BLM must maintain and update as necessary, its inventory of wilderness resources on public lands. In some circumstances conditions relating to wilderness characteristics may have changed over time, and an area that was once determined to lack wilderness characteristics may now possess them. The BLM determines when it is necessary to update its wilderness characteristics inventory.

Under the following circumstances, the BLM considers whether to update a wilderness characteristics inventory or conduct a wilderness characteristics inventory for the first time:

1. The public or the BLM identifies wilderness characteristics as an issue during the National Environmental Policy Act (NEPA) process.
2. The BLM is undertaking a land use planning process.
3. The BLM has new information concerning resource conditions, including wilderness characteristics information submitted by the public that meets the BLM's minimum standard described in the Wilderness Characteristics Inventory Process section of this policy.
4. A project that may impact wilderness characteristics is undergoing NEPA analysis.
5. The BLM acquires additional lands.

There also may be other circumstances in which BLM will find it appropriate to update its wilderness characteristics inventory.

The primary function of an inventory is to determine the presence or absence of wilderness characteristics.

BLM has completed LWC inventory in the Four Rivers, Bruneau, Jarbidge, Pocatello, and Upper Snake Field Offices. Partial inventories have been completed in Owyhee, Shoshone, Burley, Challis and Salmon Field Offices.

Pocatello and Upper Snake Field Offices inventory found those offices have no lands with wilderness characteristics.

Four Rivers, Bruneau, and Jarbidge inventories found areas that do contain lands with wilderness characteristics.

Owyhee, Shoshone, Burley, Challis and Salmon Field Offices do not have final inventory reports.



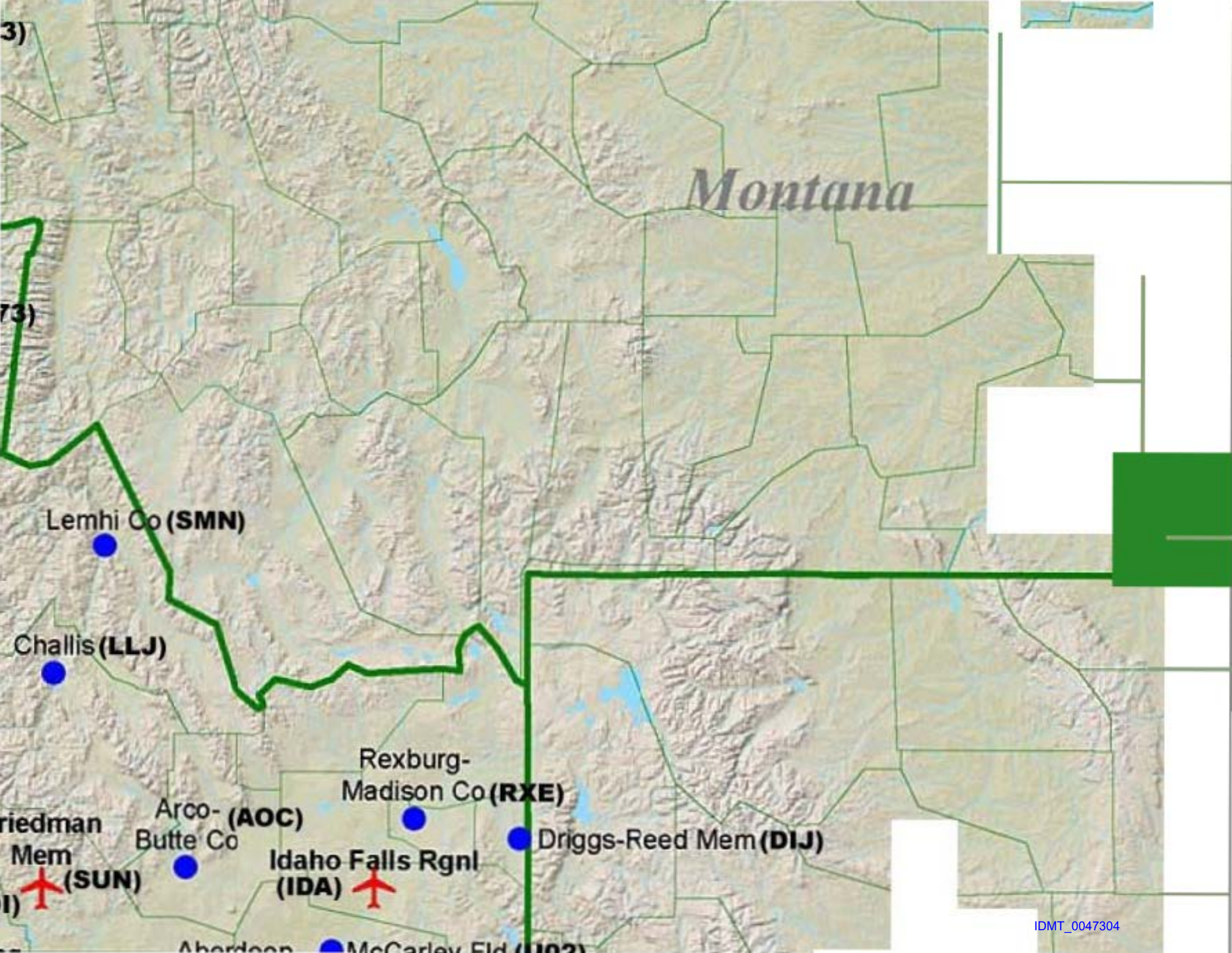
There are XX,000 acres of lands with wilderness character within the planning area boundary.

Reference:

BLM Manual 6310 Conducting Wilderness Characteristics Inventory on BLM Lands 2012

BLM Manual 6310 Considering Lands with Wilderness Characteristics in the BLM  
Land Use Planning Process 2012





Montana

Lemhi Co (SMN)

Challis (LLJ)

Rexburg-  
Madison Co (RXE)

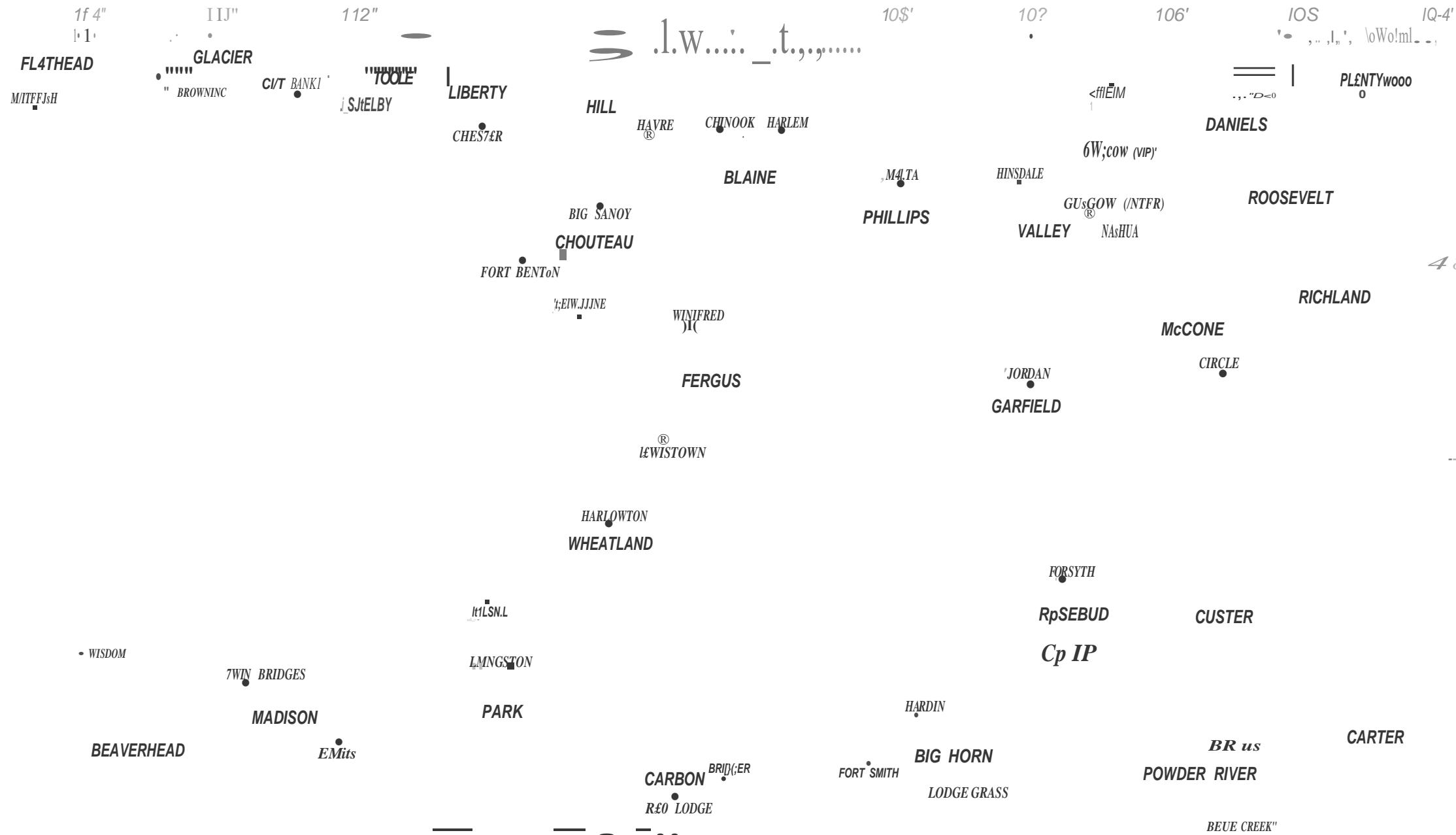
Arco- (AOC)  
Butte Co

Driggs-Reed Mem (DIJ)

Friedman  
Mem (SUN)

Idaho Falls Rgnl  
(IDA)

Aberdeen McCarley Fld (U02)



PLAN OF INTEGRATED AIRPORT SYSTEMS (NPIAS)

MONTANA

STATE AIRPORT SYSTEM PLAN (SASP)

471  
|  
46'-1  
1  
j

POTENTIAL NIPIAS ENTRIES  
SEELEY LAKE  
BIGFORK  
KALISPELL CITY  
GERALDINE  
HYSHAM

45'-  
j  
1  
j  
1  
j





## Predation

The greater sage-grouse is potential prey to a variety of predator species, such as the golden eagle (*Aquila chrysaetos*), ferruginous hawk (*Buteo regalis*), common raven (*Corvus corax*), American badger (*Taxidea taxus*), coyote (*Canis latrans*), red fox (*Vulpes vulpes*), weasels (*Mustela* spp.) and others (Schroeder et al. 1999, Coates 2007) but none specialize in the species (Hagen 2011). Adults are susceptible to predation while on leks or nests, and eggs are vulnerable as well (Schroeder et al. 1999, Coates 2007, Hagen 2011). Predation is the most commonly identified cause of direct mortality for sage-grouse during all life stages (USFWS 2010 citing others) but numerous studies since the 1970's suggest that nest predation is not a widespread problem and generally high survival rates of adults and older juveniles suggests that on average, predation is not limiting populations (Connelly et al. 2000, Hagen 2011). As a result, there is little scientific support for predator management over broad geographic or temporal scales (Hagen 2011).

In areas where habitat is not limited and of good quality, predation is not a threat to the persistence of the species (USFWS 2010). However, in fragmented habitats or areas with subsidized predator populations, such as where landfills or other human factors attract and concentrate scavengers (Coates 2007), or where electrical transmission or other man-made structures facilitate nesting and perching by avian predators such as ravens (Howe 2012), predation may limit population growth (Hagen 2011).

In the context of the Idaho/Southwestern Montana sage-grouse conservation strategy, direct predator control at the broad-scale is outside of the scope of BLM and FS decision space. Rather, such control efforts would be under the purview of the states of Idaho and Montana, and/or USDA APHIS Wildlife Services, in cooperation with the USFWS.

As land-management agencies, the primary role of the BLM and FS is the management of habitats and land uses and associated authorizations. Therefore, the amelioration of predation effects on sage-grouse in this conservation strategy is best accomplished through 1) the appropriate management, improvement or restoration of sagebrush habitats and 2) the siting and design of anthropogenic structures in a way that eliminates or reduces risk from predators that may utilize them to their advantage.



## Ecoregional Context and Landscape Approach

Public lands are undergoing complex environmental challenges that go beyond traditional management boundaries. In response, the BLM is instituting a landscape-scale management approach which evaluates large areas to better understand the ecological values, human influences, and opportunities for resource conservation. This approach frequently allows identification of environmental changes that might not be apparent in smaller areas.

The BLM's landscape approach includes Rapid Ecoregional Assessments (REAs) which provide a framework for integrating science and management. REAs evaluate landscape scale ecoregions, which are large areas with similar environmental characteristics. The BLM has initiated fourteen REAs since 2010. The Nevada-NE California Sub-Region lies within the Central Basin and Range (CBR) and the Northern Basin and Range (NBR) ecoregions.

REAs synthesize the best available ~~broad-scale information data~~ to examine ~~the current status of ecological values, conditions, and trends within the ecoregion~~ conservation elements and change agents, and provide geospatial responses to a defined set of management questions. Assessments of these larger areas provide land managers additional information and tools to use in subsequent resource planning and decision-making.

REAs describe and map conservation elements, which are ~~areas of high ecological value ecoregionally important resources, and e habitat types, and species, or species assemblages of management concern~~. REAs look across all lands in an ecoregion to identify regionally important habitats for fish, wildlife, and species of concern. REAs then gauge the potential of these habitats to be affected by four overarching environmental *change agents*: climate change, wildfires, invasive species, and development (both energy development and urban growth). ~~REAs also help identify areas that do not provide essential habitat, that are not ecologically intact or readily restorable, and where development activities may be directed to minimize impacts to important ecosystem values, provide a coarse-grain look at the areas where impacts from change agents are concentrated, and areas that are still relatively intact, or have opportunities for restoration or protection.~~

In the Nevada-NE California Sub-Region, the Central Basin and Range REA (CBR REA) has been completed while the Northern ~~Basin and Range~~ Great Basin REA is ~~underway~~ nearing completion. The CBR REA will be used to inform and enhance the quality of resource management and environmental analysis at the landscape level. The REA information is considered in the development of management objectives that can be adapted to the changing environment. This REA will aid in identifying priority areas for conservation and development, including important areas for wildlife habitat and migration corridors, and help inform finer-scale information and assessments at the local level.

Nevada is a vast land and the BLM and USFS are responsible for managing approximately 70% of the state. In order to effectively manage it, the BLM and USFS are taking a cohesive management approach based on partnerships, built on the principle of conserving or improving natural resources across the landscape. The landscape level REAs allow the BLM and USFS to collaborate beyond the usual jurisdictional boundaries with the goal of conserving the native ecological communities, traditional uses, and helping to maintain the rural Nevada culture that makes it so unique.

For additional information about BLM's Landscape Approach website at [http://www.blm.gov/wo/st/en/prog/more/Landscape\\_Approach.html](http://www.blm.gov/wo/st/en/prog/more/Landscape_Approach.html)

As REAs are completed the information about each REA is posted on the REA website. The website includes published REA reports and the REA Data portal. The data portal provides access to an interactive map and downloadable data. [http://www.blm.gov/wo/st/en/prog/more/Landscape\\_Approach/reas.html](http://www.blm.gov/wo/st/en/prog/more/Landscape_Approach/reas.html)

### Central Basin and Range REA Citation:

**Comment [LD1]:** Also recreation, minerals, exurban, and agriculture

**Comment [LD2]:** The NGB REA also looks at grazing as a change agent, maybe there is a way to incorporate that

**Comment [LD3]:** Final from contractor expected in May 2013

**Comment [LD4]:** Will both REAs be used, or just the CBR?

**Comment [LD5]:** I think this should go up at the top



Comer, P., P. Crist, M. Reid, J. Hak, H. Hamilton, D. Braun, G. Kittel, I. Varley, B. Unnasch, S. Auer, M. Creutzburg, D. Theobald, and L. Kutner. 2012. *Central Basin and Range Rapid Ecoregional Assessment Report*. Prepared for the U.S. Department of the Interior, Bureau of Land Management. 168 pp + Appendices

## **Paleontological Resources (Gregory Liggett, BLM MT State Paleontologist)**

Paleontological resources (fossils) have long been recognized for their scientific, educational, and recreational value. A fossil is any evidence of past life, and includes body fossils such as shells and bones, as well as trace fossils such as footprints, burrows, trails, or other evidence of an organism's presence. Fossils are preserved in rocks and are usually discovered when they are eroding out of the rock at the surface, or during ground-disturbing activity such as road grading or trenching. Most individual organisms that lived in the past did not die in such a way as to have their remains fossilized, and fewer still will be collected and studied before they erode away. Therefore fossils are considered rare and nonrenewable.

All fossils contain information about past life, but not all fossils are significant. Significant fossils are those that are unique, unusual, or rare, are diagnostic, stratigraphically important, and add to the existing body of knowledge. In order to determine a fossil's significance, an assessment must be made by someone who is experienced in the field of paleontology, and who possesses a sufficient mastery of the existing body of knowledge to understand how a given fossil contributes to our overall understanding.

The Bureau of Land Management (BLM) has managed fossils as a valued resource for many years. Legal authority to manage fossils comes from a variety of laws, executive orders, and policies. The laws include the National Environmental Policy Act of 1969 (NEPA) and the Federal Land Policy and Management Act of 1976 (FLPMA). More recently, the Paleontological Resources Preservation subtitle of the Omnibus Public Land Management Act of 2009, also known by its popular name, the Paleontological Resources Preservation Act (PRPA), directs land managers within the Department of the Interior Agencies and the U.S. Department of Agriculture, but not including either Indian or Military (Department of Defense) lands, to manage and protect fossils using scientific principles and expertise. PRPA does not make a distinction between the types of organism preserved; therefore, all fossil resources, plants, invertebrates, and vertebrates that are determined to be scientifically significant are to be actively managed.

As mentioned, fossils are found in rocks. The rocks that we see today were formed over millions, and sometimes billions, of years. When the animal or plant that we find today as a fossil was alive, the environmental conditions of that location were significantly different. For example, the rock that fossils are found in today may have been formed by sediments at the bottom of an ocean, or along the edge of a tropical river or lake. By using the evidence preserved in the rocks, and by examining fossils, scientists can piece together the history of the Earth, its changing environmental conditions, and its changing life forms.

Given that most fossils are preserved in sediments from past environments that have been changed into rocky outcrops, understandably, most fossils are found in sedimentary rocks. The other major categories of rocks, igneous and metamorphic, are much less likely to preserve fossils—however it is not impossible.

Igneous rocks are those that are related to volcanic activity, wherein the rock is formed by the cooling of magma or lava, or during a volcanic eruption. While those environments are not generally suitable for living things, there are on rare occasions fossils associated with igneous rocks. For example, an animal may be killed by lava that surrounded it, but the cooling rocks might preserve an impression of the animal as a mold. Such a mold is a fossil—evidence of past life. Entire herds of rhinos have been preserved under ash deposits resulting from distant volcanic eruptions. And the development of caves or fissures in these otherwise unfossiliferous rocks could produce extensive collections of fossils.

Metamorphic rocks are those that have been changed by extremes of heat and pressure. Fossils that occur in the rocks prior to undergoing metamorphic change can be preserved as long as the metamorphism is low grade and not extreme enough to alter them beyond recognition. Such might be the case in a limestone with fossils that gets altered to a low grade metamorphic marble with fossils still visible.

Geologists have mapped the rocks exposed at the Earth's surface. Rocks that are similar in character, usually due to how they formed, are organized into mappable units called formations. Formations are formal units and are given names consisting generally of a place name and the word "formation," or the characteristic rock type. Examples include the Sixmile Creek Formation and the Aspen Shale. The place name is generally derived from the region in which the formation is first recognized.

Given that the environment in which a formation forms will strongly influence its likelihood of preserving fossils, and not all formations are equally likely to have fossils, the BLM uses a coding system to rank a formation's probability of containing significant fossils. This system is the Potential Fossil Yield Classification (PFYC), a numerical ranking from 1 (low potential) to 5 (very high potential). This system allows land managers to predict where significant fossils will occur in order to make informed planning decisions with regard to fossil resources.

Several important points should be kept in mind. Fossils are not evenly distributed throughout a formation, and so even highly ranked formations may produce only occasional fossils in a given locality. And, that a code of 1 does not mean that a geologic formation has no chance to produce significant fossils. Indeed, the discovery of a fossil in a class 1 rock unit might be all the more significant given its

unexpected occurrence. The system is just designed to help in planning, and cannot replace detailed analysis on a case-by-case basis by trained personnel.

### Indicators

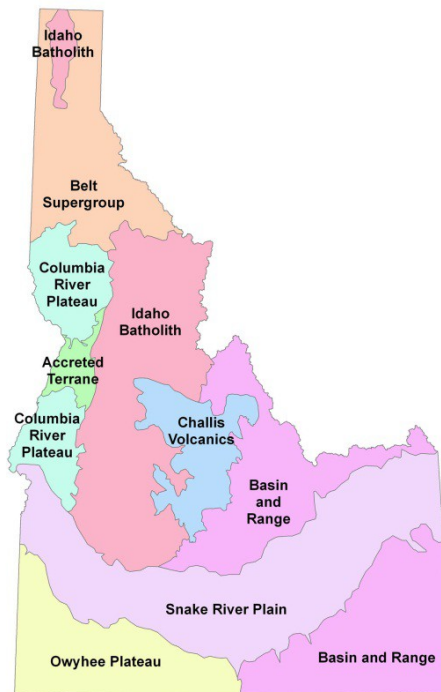
- Number of paleontological sites within the planning area
- Extent of rock outcrops and their PFYC values
- Number of permits issued to work on the resource

### Existing Conditions

#### Conditions of the Planning Area

The geology of the planning area is diverse, and includes several physiographic regions: 1) Basin and Range; 2) Snake River Plain; 3) Owyhee Plateau; 4) Challis Volcanics; 5) Idaho Batholith; and 6) Columbia River Plateau (Figure 1). These regions are created by their fundamental geologic character. Fossiliferous formations can be found throughout the entire planning area, but it is to be expected that some regions have more fossil-rich rock than others.

**Figure 1. Map showing the relationships of the physiographic regions of Idaho.**



Areas expected to be generally more fossil-rich include the Basin and Range and Snake River Plain. Within the Basin and Range of both Montana and Idaho various intermontane basins have many known fossil localities (Hanneman, 1989;

Hanneman and Wideman, 1991). Additionally, Mesozoic and Paleozoic rocks are exposed that often contain fossils in this region.

The Snake River Plain contains extensive sedimentary deposits, particularly from the last several million years and have produced a wide array of fossils such as the American Falls Reservoir faunas (Pinsof, 1998) and the older Hagerman Horse Quarry (Bjork, 1970; McDonald, 1993). Even basalt flows (formed by lava) in the Snake River Plain have formed many caves in the form of lava tubes and blisters, and most contain extensive fossil accumulations (Winterfeld and Rapp, 2009d).

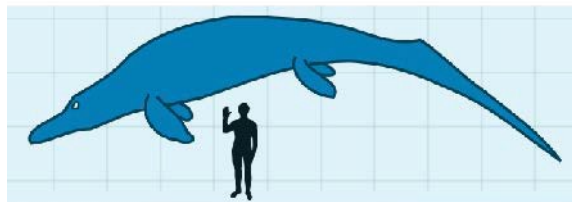
**Figure 2. A sample of some vertebrate fossils from Idaho. A) *Equus simplicidens* from the Hagerman Horse Quarry, ~3.5 million years old; B) *Bison latifrons*, a very large-horned species from the Ice Age, ~100,000 years ago; C) *Cymbospondylus*, a large marine reptile from the ichthyosaur group, ~ 220 million years old; D) the enigmatic tooth whorl of the Paleozoic shark *Helicoprion*, ~310 million years.**



A

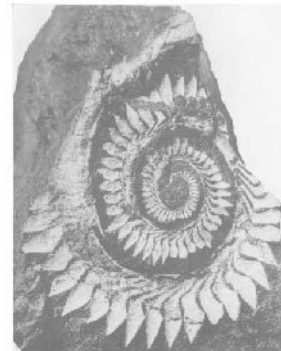


B



■ *Cymbospondylus*: 2.0 meters (30 feet)  
■ *Homo sapiens* (male): 1.8 meters (6 feet)

C



D

### Conditions on BLM-Administered Lands

A number of resources are available to characterize the paleontological resources on BLM administered land in the planning area. However, statements made must remain generalized due to the nature of the data available at this time.

For example, for the Montana portion of the planning area information was gathered from a georeferenced database of localities at the Montana State Office.

That locality information was compiled from BLM-funded inventories of fossil resources (Nichols and Hanneman, 2000), localities reported to BLM by permittees, and localities reported in scientific literature. However, compilation of this information is still ongoing. Even so, there are 227 known fossil localities on BLM land within the planning area in Montana.

Most of the compiled information on Idaho can be found in reports on the fossil resources of Idaho (Winterfeld and Rapp, 2009a; Winterfeld and Rapp, 2009b; Winterfeld and Rapp, 2009c; Winterfeld and Rapp, 2009d; Winterfeld and Rapp, 2009e). In those overviews, localities were tallied by 7.5 minute quadrangle maps for each District in Idaho. From those summaries the total number of quadrangles with documented localities and that contain BLM lands were counted, and the approximate number of localities was summed. From these various sources, it can be estimated that over 1,800 fossil localities could be on BLM land within the planning area. The details are presented in Table 1.

**Table 1. Summary of data from various sources on the approximate number of paleontological localities on BLM land within the planning area. The numbers for Idaho come from commissioned reports on the paleontology of that state. That information was summarized by 7.5 minute quadrangles, with approximate number of localities given for each quad. Here is presented the count of quadrangles and the sum of localities within those quadrangles that included BLM land. Montana data is compiled from the locality database at the Montana State Office.**

District	Quadrangles with Localities	Localities
Boise	53	1,022
Twin Falls	32	418
Idaho Falls	63	190
Western Montana		227
<b>Total</b>		<b>1,857</b>

## Trends

With the passage of PRPA the paleontology program of the BLM is slowly being able to take on more active management of paleontological resources. The resources are managed in collaboration with BLM partners such as universities and museums across the country, as it is those parties that provide much of the work done on collecting, studying, storing, and providing meaning to our fossil resources. Additionally, BLM and our partners strive to educate the public about the value of this natural heritage.

In general, the desired outcomes for the paleontological resource is to: 1) protect the resource from unnecessary damage, theft, or vandalism; 2) ensure that the resource is responsibly collected by qualified individuals working to benefit the public through their actions; 3) utilize the resource in educational programs for the general public; and 4) teach the public about BLM's role in the management of this important resource.

The impact to fossils from the management of other resources on BLM land can be negligible to deleterious, depending up on nature of those actions. However, by maintaining best practices for the identification of resources and the mitigation of damage, the paleontological resources should continue to remain an invaluable part of the national trust.

### References

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- Pinsof, J.D., 1998. The American Falls Local Fauna: Late Pleistocene (Sangamonian) vertebrates from southeastern Idaho. *Idaho Museum of Natural History Occasional Paper*, 36: 121-145.
- Winterfeld, G.F. and Rapp, R.A. (Editors), 2009a. Survey of Idaho Fossil Resources Volume 1: Introduction to the Geologic History of Idaho. Erathem-Vanir Geological Consultants, Pocatello, 155 pp.
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- Winterfeld, G.F. and Rapp, R.A. (Editors), 2009d. Survey of Idaho Fossil Resources Volume 4: Idaho Falls BLM District. Erathem-Vanir Geological Consultants, Pocatello, 198 pp.
- Winterfeld, G.F. and Rapp, R.A. (Editors), 2009e. Survey of Idaho Fossil Resources Volume 5: Twin Falls BLM District. Erathem-Vanir Geological Consultants, Pocatello, 119 pp.

## Wildland Fire Management

The wildland fire management program encompasses the full range of hazardous fuels, an appropriate preplanned response to unplanned ignitions of wildland fires, and the rehabilitation of lands affected by these unplanned ignitions.

The wildfire suppression program utilizes a coordinated effort to respond to all unplanned ignitions (wildfire) with a preplanned, appropriate response. Each response is guided by resource management plan and fire management plan direction. As the severity and number of wildfires escalates, the further response and prioritization of fire suppression resources becomes a collaborative effort between field, district, and state managers working closely with interagency partners.

Analyzing fire occurrence and drawing any direct or indirect correlation between supplied data is a far from perfect science. Some generalizations can be roughly interrupted such as an average length of fire season in days for current districts, the number of fires that could be reasonably expected annually, and the number of acres that are burned on an average year.

Trend analysis of fire starts and acres burned in the sage steppe ecosystem is very general and dependent predominately upon weather and fuels conditions. The relative fuel conditions of live fuel moistures and fine fuel loadings coupled with weather conditions such as relative humidity, wind speed, and days since last rainfall drive large fire growth in the grass fuel type.

Fire occurrence is weighed towards human causes, especially around urban centers and along major highway corridors. (insert/provide ID BLM fire occurrence map, showing both human and lightning starts??) However, lightning is the major contributor to multiple large fire days and high numbers of BLM acres burned. Lightning storms generally track from Southwestern towards Eastern Idaho, leaving successive lightning starts across all three southern districts, often times in remote or difficult to reach areas. These lightning events are commonly associated with strong winds which contribute to rapid large fire growth. Summer storms commonly lack significant rainfall. It should be reasonably expected that the majority of large fire days correspond to high percentile BI days.

Since 2006, emphasis upon the protection of sage-grouse habitat during suppression actions has taken center stage in planning and operational discussions. High numbers of PPH and PGH acres were burned in 2007 and 2012. XXX PPH and XXX PGH acres have been burned from 2006 through 2012. Again, the majority of these acres were burned during corresponding high BI days or periods.

Burning Index (BI)--A number related to the contribution of fire behavior to the effort of containing a fire. The BI is an index that rates fire danger related to potential flame length over a fire danger rating area.



<b>Historical Large Fires (300 Acres and Greater) 1980 to 2012</b>			
	Average Date of First Large Fire Per Year	Average Date of Last Large Fire Per Year	Average Days Between First and Last Large Fires
Boise District	6/12	9/18	96
Idaho Falls District	7/13	9/10	57
Twin Falls District	6/26	10/2	96

<b>BLM Fire Data 1980 to 2012</b>					
		Fires	BLM Acres Burned	Non-BLM Acres Burned	Total Burned Acres
Fires Occurring on BLM Lands and Suppressed by BLM	Human	3,373	1,140,029	525,949	1,665,978
	Natural	2,728	4,610,547	1,198,145	5,808,693
	Totals	6,101	5,750,577	1,724,095	7,474,672
Fires Threatening BLM Lands Where Action is Taken By BLM to Prevent Spread to BLM	Human	1,792	341,094	246,680	587,774
	Natural	522	53,783	203,884	257,667
	Totals	2,314	394,877	450,564	845,441
Total Fires Affecting BLM Acres		9,623	6,249,279	2,183,453	8,432,732

## Fire Regime Condition Class:

### Natural Fire Regime:

A natural fire regime is a general classification of the role fire would play across a landscape without

modern human mechanical intervention.<sup>1,2</sup> The five natural fire regimes are classified based on average

number of years between fires (fire frequency) combined with the severity of the fire on the dominant

overstory vegetation (amount of vegetation replacement). These five regimes include:

I – 0 to 35 year frequency and low (surface fires most common) to mixed (less than 75% of the dominant overstory vegetation replaced) severity;

II – 0 to 35 year frequency and high severity (greater than 75% of the dominant overstory vegetation replaced);

III – 35 to 100+ year frequency and mixed severity (less than 75% of the dominant overstory vegetation replaced);

IV – 35 to 100+ year frequency and high severity (greater than 75% of the dominant overstory vegetation replaced);

V – 200+ year frequency and high severity (greater than 75% of the dominant overstory vegetation replaced).

### Fire Regime Condition Class (FRCC):

A fire regime condition class (FRCC) is a classification of the amount of change in fire

frequency and severity from the natural fire regime.<sup>3</sup> The three classes are based on low (FRCC

1), moderate (FRCC 2), and high (FRCC 3) change from the natural fire regime.<sup>4,5</sup> The change in natural fire regime results from changes to one or more of the following fire regime attributes:

Vegetation characteristics (i.e., species composition, structural stages, stand age, canopy closure, and mosaic pattern); Fuel composition; Fire frequency, severity, and pattern; and Other associated disturbances (e.g., insect and diseased mortality, grazing, and drought).

Characteristic vegetation and fuel conditions are considered to be those that occurred within the natural fire regime. Uncharacteristic conditions are considered to be those that did not occur within the natural fire regime. Examples of uncharacteristic conditions include invasive species (e.g. weeds, insects, and diseases) or excessive vegetation removal. The amount of change is based on comparison of the fire regime attributes as identified above to the natural fire regime. The amount of change is then classified to determine the FRCC.

<sup>1</sup> Agee, J.K. 1993. Fire ecology of Pacific Northwest Forests. Island Press, Wash. DC. <sup>2</sup> Brown, J.K. 1995. Fire regimes and their relevance to ecosystem management. Pages 171-178 *In* Proceedings of Society of American Foresters National Convention, Sept. 18-22, 1994, Anchorage, AK. Society of American Foresters, Wash. DC.

<sup>3</sup> Hann, W.J., Bunnell, D.L. 2001. Fire and land management planning and implementation across multiple scales. *Int. J. Wildland Fire*. 10:389-403. <sup>4</sup> Hardy, C.C., Schmidt, K.M., Menakis, J.M., Samson, N.R. 2001. Spatial data for national fire planning and fuel management. *International Journal of Wildland Fire* 10:353-372. <sup>5</sup> Schmidt, K.M., Menakis, J.P. Hardy, C.C., Hann, W.J., Bunnell, D.L. 2002. Development of coarse-scale

### **Current Conditions:**

The Hazardous Fuels Reduction Program (HFR) involves a variety of treatments to modify vegetation to provide for firefighter safety, reduce the potential of wildfire spread, reduce the detrimental effects of wildfire on a landscape, protect private holdings and infrastructure, and decrease the costs of rehabilitation efforts after a wildfire has occurred. Depending on the specifics of the overall project, multiple treatment types may be involved over several years to obtain the specifications for the project. One example of this would be: For an annual grass dominated area, prescribed fire will be used to remove existing layers of the annual grass and reduce the seed source. Chemical application(s) would be utilized to further reduce the seed source and the resulting new annual grass plants. Mechanical seeding(s) of perennial (native or non-native, grass/shrub/forb) mixtures would occur, pending the most successful time of year for application(s).

### ***Examples of treatment types:***

**Prescribed Fire (Treatment)** – An HFR Treatment Category for any fire ignited by management actions to meet specific objectives and to achieve Fire Management Plans.

**Mechanical (Treatment)** – An HFR Treatment Category that describes work that manually or mechanically removes or modifies fuel load structures to achieve Fire Management Plans.

**Other (Treatment)** – An HFR Treatment Category that describes work involving the use of chemicals and biological methods to achieve Fire Management Plans.

In Idaho, the HFR Program has been in place since the start of the 2000 National Fire Plan identified the need and funding source to develop and maintain the program. Within the last 5 years, which would represent the most current treatments on the existing landscape, the following acreage and types of treatments are shown below. The prescribed fire acreages have decreased from historical levels due to multiple large scale wildfires accomplishing the removal of undesirable vegetation in areas planned for future projects. Mechanical treatments have increased in, both, seeding and mechanical reductions of conifer encroachment throughout PPH and PGH areas. The use of chemical or “Other” types of treatments has grown to increase the probability of success of seeding(s) of perennial (native or non-native, grass/shrub/forb) mixtures by removing the dominance and competitiveness of the undesirable annual grass and weed species. Biological or “Other” treatments (insects, goat, specific pathogens) have recently been of interest in very specific areas due to the “high risk” in areas that may have significant values should accidents occur during implementation of mechanical treatments (rocks, windows, etc.).

## **Trends:**

### **Treatment type and acreages over the past 5 years:**

**Prescribed Fire:** 2008-11,199 acres, 2009- 8,647 acres, 2010- 7,189 acres, 2011- 6,398 acres, 2012- 3,021 acres.

**Mechanical:** 2008- 46,073 acres, 2009- 38,992 acres, 2010- 33,975 acres, 2011- 30,987 acres, 2012- 30,725 acres.

**Other:** 2008- 59,003 acres, 2009- 47,991 acres, 2010- 36,500 acres, 2011- 39,895 acres, 2012- 71,666 acres.

Over the past few years, the focus of the HFR program was to treat acreages within the Wildland Urban Interface (WUI). This was specific to protecting private in-holdings in the attempt to decrease the detrimental effects of wildfire to human structures and the associated infra-structure for the communities. Direction was to focus the majority of expenditures in the WUI and expend minimal amounts on landscape level treatments. Budgetary erosion and increased costs are forcing decisions in the fire management arena to decrease the capability of the proactive HFR program to maintain the reactive suppression and rehabilitation efforts. If this trend continues it is forecasted that the HFR program will be non-existent by 2018. The side effects of this trend is that areas, regardless of ownership, would be left untreated or maintained and landscapes will have minimal treatments to: Reduce fire growth in areas of conifer encroachment, invasive annual grasses and weeds, habitats of concerned species, watersheds of communities and fuel breaks to compartmentalize fire growth.

## Emergency Stabilization and Rehabilitation (ESR)

Alteration to the historic fire regime has substantially reduced the sagebrush steppe communities of the Sub Unit and the larger Great Basin. The exclusion of wildfire within the upper elevations shrub steppe communities (primarily mountain big sagebrush) has converted approximately XXX acres of sage-grouse habitat into juniper woodland.

The greatest loss of sage-grouse habitat however has been from cheatgrass proliferation and wildfire within the lower elevation sagebrush communities (primarily Wyoming big sagebrush). Historically, wildfire was not a common occurrence within the Wyoming big sagebrush sites. Current literature estimates the fire interval at approximately 100 years. When these sites did burn, the discontinuous fuels of the scattered native bunch grasses likely resulted in small, discontinuous fires. Conversely, cheatgrass is highly flammable due to its uniform fine fuels which dry out early in the growing season. Each recurring fire set the stage for further cheatgrass expansion, resulting in an ever increasing cheatgrass/fire cycle and loss of sage-grouse habitat. On many of these sites, fire-return intervals have been shortened to between two and four years (Whisenant 1990).

Most lower elevation shrub steppe communities within the subunit (even those containing minimal cheatgrass understories) will cross a threshold into fire maintained cheatgrass dominated communities unless they are successfully rehabilitated within the first couple years following wildfire. Such areas are also highly susceptible to noxious weed invasions. Therefore, successfully reestablishing perennial vegetation within this narrow time frame is essential for reducing the loss of low elevation sage-grouse habitat.

Fire rehabilitation consists of mitigating damaging effects from wildfire and in restoring vegetative structure and function to recently burned fire damaged areas which cannot recover on their own. These efforts consist of seeding perennial grasses, shrubs, and forbs. The seeding technique is based largely on seed size. Most grasses (which have relatively large seeds) are drill seeded to effectively cover the seed, whereas sagebrush and many forbs (which consist of small seeds) are most successful broadcast seeded.

Drought and invasive annual grass competition are the two biggest challenges to reestablishing perennial vegetation following wildfire on the low elevation sites. Seedings are most successful during years of adequate precipitation and on sites where cheatgrass competition is minimal such as recently burned sagebrush stands in good condition, or sagebrush stands with cheatgrass in the understory which burned hot enough consume cheatgrass seed lying on the soil surface underneath the sagebrush canopy. Accordingly, the higher the density of sagebrush cover prior to the burn, the greater the likelihood for seedings success. Because sagebrush fires burn hotter and slower than grassland fires, the cheatgrass seed lying on the soil surface underneath the sagebrush canopy is usually consumed, whereas the seed laying outside of the sagebrush canopy or other shrub free areas (such as previously burned cheatgrass dominated sites) is not consumed and remains viable. Accordingly, the areas underneath the burned sagebrush canopy create a cheatgrass free "clean" seedbed which allows seeded species to establish relatively free of cheatgrass competition. Although the areas

outside of the canopies will remain dominated by cheatgrass, the established plants underneath the former sagebrush canopy will usually outcompete the adjacent cheatgrass over time. However, strong wind driven fires often prevent consumption of cheatgrass seed, thereby require cheatgrass control. Seeding previously burned cheatgrass-dominated sites devoid of a brush overstory, is not usually successful because these rapid cheatgrass driven fires do not provide enough heat to consume cheatgrass seed lying on the soil surface.

Herbicides have proven to be the most effective and noninvasive method for controlling annual grasses prior to seeding. Before 1991, the use of herbicides to control invasive annual grasses was prohibited on public land. Therefore, various tilling methods such as plowing and disking were the only available options. Unfortunately, these treatments obliterated remaining native vegetation and biologic soil crusts, increased site susceptibility to wind erosion and often resulted in seed being drilled too deeply, thereby opening the site for total cheatgrass domination when seedings were unsuccessful. Prescribed fire was used in attempts to kill cheatgrass seed while still on the plant. Although such fires kill some seed still on the plant, they do not burn hot enough to kill cheatgrass seed on the soil surface.

Intensive livestock grazing is often suggested for controlling cheatgrass competition. Although targeted grazing may have some applications for fuels management, it is not effective in reducing cheatgrass competition. During the short time when cheatgrass is highly palatable in the spring, a sufficient number of livestock cannot be concentrated on a small enough area to reduce the cheatgrass seed significantly or reduce cheatgrass seed lying on the soil surface. In addition, this type of grazing can be detrimental to remaining perennial grasses which opens the site up for further cheatgrass expansion in the future.

BLM is authorized to use various approved contact and pre-emergent herbicides for controlling invasive annual grasses. Both types of herbicides have their advantages and shortcomings.

Contact herbicides such as Glyphosate which has been widely and successfully used within the Twin Falls District. These herbicides must be applied during the short period that cheatgrass is actively growing, and before seed development occurs. When numerous cheatgrass crops occur on a given year, repeated applications are required. Additionally, application rates must be tuned to minimize damage to existing perennial plants while effectively controlling the invasive annuals. Glyphosate is quickly absorbed into the soil and therefore has no potential for offsite non-target damage from moving soil particles

Preemergent herbicides such as imazapic and sulfometuron methyl are highly effective in controlling invasive annual grasses while having minimal impacts to most established perennial species. They are also classified as nontoxic to fish and wildlife. These herbicides do not require the specific application timing needed with glyphosate, and their residual action in the soil controls annual grasses whenever they happen to germinate. The residual action lasts from 1 to three years, depending on soil moisture, pH, and temperature. In addition to controlling invasive annual grasses prior to seeding, these herbicides could be used to help maintain and protect existing native plant communities which have been invaded with annual grasses. Such treatments would allow the natives to gain a competitive advantage over the

exotic annuals, and the associated reduction in annual grass fuels would reduce the site's risk to wildfire. A limitation of these herbicides is their potential to damage crops at extremely low concentrations. Accordingly, these herbicides cannot be used near agricultural areas or on unstable soils.

Recent research on naturally occurring fungi and bacteria for controlling cheatgrass is encouraging and may prove to be an effective future control method.

Selecting plant materials which can establish and persist in these arid cheatgrass competitive environments is essential for restoring sagegrouse habitat lost through wildfire. Prior to 1986, fire rehabilitation funds could not be used for sagebrush seeding. Since that time, sagebrush is included in most fire rehabilitation seedings on its respective ecological sites. Occasionally, during busy fire years, sagebrush seed shortages restrict its use to priority burned sage-grouse habitat.

Native grasses and forbs are preferred over introduced species when they can meet the above requirements. Historically, few adapted native grass seed was available which could persist in these desert environments, thereby requiring the use of durable introduced species such as crested wheatgrass. Over time, selections of native blue bunch wheatgrass, basin wildrye, Snake River wheatgrass, squirreltail, Indian ricegrass, and Sandberg bluegrass have become increasingly available and are now used extensively in fire rehabilitation seedings for areas that receive at least 10" of annual precipitation in recently burned sagebrush communities. For the past ten years, BLM has been funding the interagency Great Basin Native Plant Selection and Increase Project for increasing native seed availability, especially native forbs important to sage-grouse, and to improve the success of land managers in establishing native plants (<http://www.fs.fed.us/rm/boise/research/shrub/greatbasin.shtml>)

However, some important native grasses (such as Thurber's Needlegrass) are still not widely available and or effective in competing with cheatgrass in the harshest environments. In these areas, durable introduced species as Siberian wheatgrass and Russian wild rye are still the only viable option. Even those species are often unsuccessful on those sites. Additionally, restoring native plant communities in repeatedly burned annual dominated grasslands has proven largely unsuccessful. Considerable speculation and research has attempted to understand why. A lack of mycorrhiza, soil nutrients, and other changes to the soil environment from years of invasive annual grass domination is believed to be at least partially responsible.

The theory of "assisted succession" is suggested as a method for ultimately restoring these areas by first vegetating with resilient introduced species to break the fire cycle, removing annual grass dominance and deplete annuals' seed source, and restore soil characteristics which may in time make the site more hospitable to restoring the native community, followed by eventual seeding with natives. Accordingly, this is a long term costly process which cannot begin to be implemented until the fire cycle has been broken. Until the majority of annual grass dominated landscapes can be rehabilitated to less fire prone species in the long-term, these short fire cycles will result in a continual loss of these investments, and in the remaining native sagebrush steppe communities.

Seeded areas require rest from livestock use to become fully established, followed by livestock management which will maintain plant health and vigor. BLM policy traditionally prescribes a minimum of growing season rest period (from livestock grazing), and until plant establishment objectives are met. Depending on moisture and other site conditions, longer rest is often needed grazing can be resumed. However a true native restoration could require years of rest from grazing to become successfully established (depending on plant materials used and site characteristics). Such large scale treatments could have significant repercussions to grazing permittees, and may also necessitate more restrictive management to maintain the native seeded species over the long term.

The ability to protect these areas from recurring wild fire is crucial to maintaining the reestablished sagebrush component. Successful fire rehabilitation seeding contributes partially to this goal by changing the fuels from highly flammable annual grasses with high fuel continuity, into less fire prone perennial bunch grasses which stay greener longer and which provide much less fuel continuity. Accordingly, when fire does return to these rehabilitated areas, the fires are often spotty which leave substantial unburned sagebrush islands and a seed source for naturally reestablishing sagebrush. Additionally, the burned perennial grasses quickly re-sprout and compete effectively with annual weeds.

Also needed is a system of effectively managed fuels breaks consisting of durable fire resistant vegetation (such as forage kochia) placed primarily along roads to reduce the wildfire size, and provide lines of defense for fire suppression efforts.



Sage-grouse EIS Travel Management Status,  
Winter, 2013

<b>Idaho Falls District</b>				
<b>Field Office</b>	<b>TMP Name</b>	<b>Completion Date</b>	<b>Planned Completion Date</b>	<b>TMP acres</b>
Challis	Challis FO TMP	2008		792,000
Pocatello	Blackrock EA	1995		20,000?
	Bear Lake	2011		55,400
	Soda Hills	2011		15,000
	Pocatello SRMA		2014	32,700
	Curlew_Deep Creek		2013	169,000
	PFO East Dispersed		2015/16	109,000
Salmon	SFO N_TMP	2011		160,000
	SFO S_TMP		2013	300,000
Upper Snake	Various TMAs		2017	1,800,000
<b>Twin Falls District</b>				
<b>Field Office</b>	<b>TMP Name</b>	<b>Completion Date</b>	<b>Planned Completion Date</b>	<b>TMP acres</b>
Bur_Sho_RMP	Bur_Sho_TMP		2021	854,000
Shoshone	NHWY_20_TMP		2014	240,000
	Craters_Moon_TMP	2009		465,000
Jarbidge	Various TMAs		2019	1,300,000
<b>Boise District</b>				
<b>Field Office</b>	<b>TMP Name</b>	<b>Completion Date</b>	<b>Planned Completion Date</b>	<b>TMP acres</b>
Owyhee	Wilson_CK_TMP	2007		29,000
	Murphy_TMP	2009		233,000
Owyhee/Bruneau	OMA_TMP		2014	2,800,000
Four Rivers	MNSRBOP_NCA_TMP		2015	379,000
	Various_FRFO_TMs		2017	778,000

The Omnibus Act of 2009 limited recreational mechanized and motorized travel on public lands within Owyhee County to legally established routes as the the date of enactment. The area affected by that portion of the Act includes the entire Owyhee and Bruneau Field Offices, and the XXacres of the Jarbidge Field Office. Generally, individual Travel Management Plans follow Land Use Plan revisions within five years of the signing of a ROD. Current Bureau policy effectively requires the reallocation (open/limited/closed) of vast open acreage to limited with the exception of smaller manageable polygons, e.g. dunes, etc.

## Appendix A: Non-Market Valuation Methods

This appendix addresses economic valuation of three categories of non-market resources that are present in the study area and could potentially be affected by the alternatives. These three categories of non-market value are recreation, values of sage grouse to households in the intermountain west, and value of the ranching tradition to the ranchers themselves and residents as well as visitors to the region. Recreation is included because actions that promote the conservation of sage-grouse habitat may result in changes in recreation opportunities, such as increasing the amount of habitat for other wildlife species that may be hunted or viewed that depend on public lands, roads open or closed for recreation access, and the quality of the recreation experience.

At the outset it should be noted that the economic non-market values described in this appendix are not directly comparable to regional economic indicators commonly used to describe how natural resources on public lands contribute to the regional economic indicators such as output/sales, labor income, and employment. These indicators provide valuable information to the local public as well as to regional government agencies for purposes of public service and infrastructure planning. These impacts or contributions are often referred to as distributional effects as they describe the effects to the region. However, these indicators do not represent net economic value. For example, in economic terms, labor income associated with mineral production would actually be considered a cost to the producer. Similarly, expenditures by a recreation visitor associated with a visit to public lands would be viewed by the recreationist as a cost. One last example would be the total sales generated by the sale of minerals extracted from Federally-owned minerals – the total sales do not reflect the net economic value since the costs associated with the extraction are not accounted for (including labor income, supplies, equipment as well as potentially non-market costs such as those cost associated with pollution). This section considers the economic value of the non-market outputs – a concept described below.

### ***Total Non-market Economic Value***

Many of the multiple uses in the study area are not bought and sold in competitive markets. For instance, many recreational visitors to public lands pay no or low admission fees, and the presence of wild animals such as sage grouse have no “market price”, yet both have value to people. In some cases people gain value from *using* these non-market resources, such as recreation on public lands; in other cases, protection of some natural resources provides both a use value (e.g., wildlife viewing) as well as a non-use value (e.g., the value some people hold for knowing that a specific natural resource exists and is protected even if they never intend to “use” or visit it).

Economists call the sum of these two values Total Economic Value. Use values typically can be for consumptive uses (e.g., hunting) and/or non-consumptive uses, such as viewing or being present on site (e.g., camping, hiking, etc.). In contrast, non-use values occur off-site to people who derive enjoyment from knowing a natural environment,

habitat or species exists in its natural state, either for themselves (existence value) and/or future generations (bequest value). Krutilla (1967) documents the conceptual origins of these two elements of non-use value, and Freeman (2003) provides a rigorous theoretical treatment.

Non-use or existence values can potentially be enjoyed by millions if the good or service (e.g., the presence of a specific wild species such as wild salmon or rare bird species) is of widespread interest. Thus, while the non-use value per household may much lower than a value per day received by a visitor, in total, non-use values may be quite large.

### ***Recreation Values***

Economists measure the net economic use and non-use values as “Consumer Surplus”. At its most basic level, consumer surplus is the maximum amount a person would pay minus the amount they actually have to pay. Consumer surplus, which is also sometimes referred to as “net willingness to pay,” is a measure of benefit has been used by economists and federal agencies for decades (e.g., see U.S. Water Resources Council, 1983; USEPA, 2009, 2010).

For public land recreation, especially on BLM and USFS recreation sites, entrance fees are typically very low or non-existent, so the value people place on these public land recreation opportunities is not fully measured simply by the entrance fees they pay. In economic terms, there is not a competitive market or a “market clearing price” for access to public recreation sites. Therefore, there can be a substantial difference between what people pay to visit a recreation site (e.g., entrance fees plus travel costs, including the value of time) and the maximum amount they would pay.

A common non-market valuation method used for recreation is the travel cost method (TCM). In this method, economists survey visitors to a recreation site and collect data on their frequency of trips, travel distance and costs incurred to access the site. Because the survey uses information from actual visitors, the TCM is a “revealed preference” method of valuation; economists use the travel costs as a proxy to determine the value that people gain from using the site. Variations in the travel cost across visitors, along with their respective number of trips, allow economists to statistically estimate a relationship between travel cost and quantity of trips – an aggregate demand curve for the recreation site, much like a demand curve for goods and services that are sold in competitive markets. This aggregate demand curve will tend to show that individuals with a relatively high travel cost take fewer trips on average, while individuals with a lower cost take more trips on average. From this aggregate demand curve, economists can calculate consumer surplus. Many of the consumer surplus values for recreation in the literature (e.g. Loomis, 2005) and recently developed by the USFS (e.g. Bowker et al., 2009) rely upon TCM.

Figure A-1 provides an illustration of a demand curve for recreation on a particular site. In Figure A-1, the aggregate demand is shown on an average basis, that is, for an

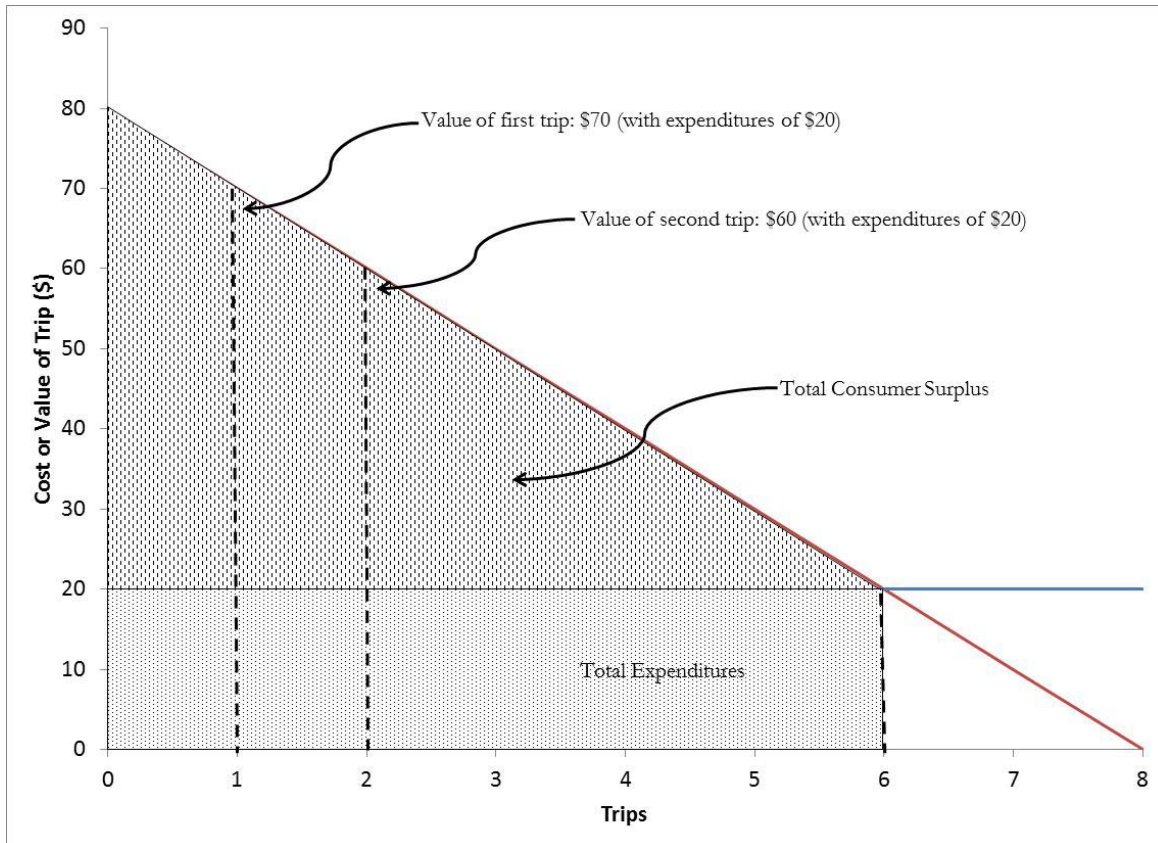
average individual consumer. The downward-sloping diagonal line in Figure A-1 represents the relationship between the travel cost and quantity of trips demanded by this average consumer. In the figure, the value of the first several trips is relatively high (\$70 for the first and \$60 for the second trip), while the value of the sixth trip is lower (\$20 in the figure). In a TCM study, these values are statistically derived from the aggregate demand calculated for the entire population. The downward slope of the demand curve corresponds to declining value associated with each trip, which is typical for most goods and services.<sup>1</sup> It also corresponds to the fact that visitors will take fewer trips to areas with a higher travel cost.

Each visitor receives a net benefit from each trip, which is measured by the difference between what they had to pay and the maximum amount they would pay for each trip. In Figure A-1, the net benefit for the average visitor is the difference between their actual expenditures of \$20 per trip and the maximum amount they would pay for each trip. As shown, the first trip has a net benefit of \$50 (\$70 of value less \$20 in expenditures), the second trip \$40 (\$60 less \$20), and so on until the sixth trip. At the sixth trip the visitor's cost is the same as their benefit, and hence there is no net benefit from further trips. Thus, this gain to the visitor over and above what they spend is their "consumer surplus."

**Figure A-1. Consumer Demand Curve and Consumer Surplus for Recreation Trips**

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<sup>1</sup> Note that for some types of recreation use, users may gain increased value over a portion of the number of trips; for example, mountain bikers may experience increased enjoyment of subsequent trips to a single location as their trail-specific skills and knowledge increase with repeat visits. Climbers and other users may also experience similar gains over repeat visits. However, even these users will likely hit a point where the marginal value begins to decrease with more trips.



Given the large range and diversity of sites in the study area, BLM and the USFS did not perform original TCM analysis of visitation in the study area. Rather they relied upon transferring existing recreation values from TCM studies such as Bowker et al. (2009) and other recreation values from the existing literature (Loomis, 2005; Loomis and Richardson, 2007; USFWS, 2009) to the recreation activities in the study area, focusing on existing studies in the Rocky Mountain and Great Basin area (Idaho, Montana, Utah, Colorado, Wyoming, Arizona, New Mexico, and Nevada). This approach, known as “Benefit Transfer,” is well-developed in academic and policy literature and has been used by federal agencies including the USEPA (see Griffiths et al., 2012 for a recent listing of economic studies where benefit transfer was used), U.S. Army Corps of Engineers, Bureau of Reclamation, USFS (U.S. Forest Service, 1991; also see Ervin et al., 2012 for a recent application of benefit transfer to the Mount Hood NF), and other agencies. Benefit transfer is widely used in academic applications as well; see Wilson and Hoehn (2006) for a series of journal articles on benefit transfer.

BLM measures recreation activity in various units, including a “visitor hour”, which represents the presence of one or more persons in an area for continuous or simultaneous periods of time aggregating one hour (e.g., one person for one hour or two persons for 30 minutes each). A “visitor day” as defined by BLM represents twelve

visitor hours (BLM, 2003). The BLM Recreation Management Information System provides data on recreation visitor days (RVDs); to be compatible with these units, BLM identified non-market values for various recreation activities in units of dollars per RVD. Values from economic literature, based on primary research conducted on various recreation sites, were matched to BLM and USFS recreation activity classifications. Table A-1 provides a listing of the values per day representing the study area of Idaho and southwest Montana.

**Table A-1. Consumer Surplus for Recreation Activities**

<b>Recreation Activity Category</b>	<b>Consumer Surplus per Visitor Day (2012 dollars)</b>
Backpacking	36.48
Camping	31.73
Cross Country Skiing	36.32
Fishing	66.00
Floatboating/Rafting/Canoeing	82.28
General Recreation	42.96
Hiking	107.16
Hunting	65.51
Motorboating	65.24
Mountain Biking	175.21
Off-Road Vehicle Driving/Off-Highway Vehicle	51.35
Other Recreation	47.69
Picnicking	52.27
Pleasure Driving	71.65
Rock Climbing	61.32
Sightseeing	41.33
Snowmobiling	51.75
Swimming	35.10
Waterskiing	69.23
Wildlife Viewing	37.00
Sources: Rosenberger, 2012; Loomis, 2005; Loomis and Richardson, 2007; Bowker et al., 2009; USFWS, 2009.	

Consistent with the description above of consumer surplus and the TCM, readers should interpret the values in Table A-1 as the consumer surplus or the amount of value that the average visitor derives from a full day of recreation beyond their actual expenditures. Thus, a typical off-highway vehicle user would pay an average value of \$51.35 more than their trip cost to have the opportunity to participate in a typical day of driving off road vehicles.

Table A-2 shows the total consumer surplus associated with recreation activities on BLM and USFS managed lands for the sub-region, including the BLM Field Offices of Bruneau, Burley, Butte, Challis, Dillon, Four Rivers, Jarbidge, Owyhee, Pocatello, Salmon, Shoshone, and Upper Snake, as well as the Beaverhead-Deerlodge, Boise, Salmon-Challis, Sawtooth, and Caribou-Targhee National Forests (note that NVUM does not

provide recreation data for the Curlew National Grassland). RVDs on BLM lands presented in Table A-2 are calculated directly from Report 26 from the BLM RMIS (Report 26 provides RVDs based on recorded visitor hours – defined above – and dividing by twelve). For this analysis, BLM used average RVDs per year over the period 2008-2012. RVDs on National Forests are calculated from the most recent available data (ranging from FY2005 to FY2009 for the forests noted) from the USFS National Visitor Use Monitoring (NVUM) report (USFS, 2013). RVDs for National Forest lands were calculated based on the total number of site visits, the “main activity” reported by recreators, and the number of hours per day reported engaging in that activity, with the number of RVDs equal to the number of hours divided by twelve. Note that conservation measures for sage grouse may only affect specific types and fractions of the public lands that contributed to the visitor days used to estimate the surplus values in Table A-2.

<b>Table A-2. Total Consumer Surplus for Recreation in Idaho/Montana Sub-Region</b>		
<b>Recreation Activity</b>	<b>Average RVDs Per Year</b>	<b>Total Consumer Surplus (millions of 2012 dollars)</b>
Backpacking	168,100	\$6.1
Big Game Hunting	602,123	\$39.4
Camping	2,463,485	\$78.2
Cross Country Skiing	104,161	\$3.8
Fishing	896,544	\$59.2
Floatboating/Rafting/Canoeing	327,189	\$26.9
General Recreation	90,222	\$3.9
Hiking	484,388	\$51.9
Hunting – Other	755,614	\$49.5
Motorboating	189,607	\$12.4
Mountain Biking	80,562	\$14.1
Off Road Vehicle Driving/ Off-Highway Vehicle	445,795	\$22.9
Other Recreation	594,560	\$28.4
Picnicking	268,400	\$14.0
Pleasure Driving	354,478	\$25.4
Rock Climbing	34,261	\$2.1
Sightseeing	907,664	\$37.5
Small Game Hunting	101,068	\$6.6
Snowmobiling	281,388	\$14.6
Swimming	65,754	\$2.3
Waterfowl Hunting	36,525	\$2.4
Waterskiing	7,403	\$0.5
Wildlife Viewing	350,318	\$13.0
<b>Total</b>	<b>10,113,748</b>	<b>\$515.0</b>

Source: BLM 2012; USFS 2013; consumer surplus per RVD shown in Table A-1.

***Values associated with populations of sage-grouse***

Economists have long recognized that wildlife species, especially rare, threatened and endangered species, have economic values beyond just viewing. This is supported by a



series of legal decisions and technical analyses. The U.S. Court of Appeals in 1989 first clarified that the U.S. Department of Interior, in assessing damages in Natural Resource Damage Assessment (NRDA) cases, should include what it termed as “passive use values”, that is, existence values provided to non-users of the species – as a compensable value in addition to any use value. These passive use values are also included in Oil Pollution Act (OPA) damage assessments as well. The term passive values is interchangeable with the term non-use values defined previously. This ruling and subsequent analysis for NRDA and OPA assessments are consistent with well-established economic theory showing that people derive value from passive use or non-use as well as active uses of resources (Krutilla, 1967). Economists have devoted a great deal of conceptual and empirical work to refining concepts and developing methods to measure these passive use values.

The dominant methods are “stated preference” methods, of which the most prominent is the Contingent Valuation Method (CVM). The basic element of this method is to use a survey to construct or simulate a market or referendum for protection or improvement of a natural environment, habitat or species, and then having the respondent indicate whether or not they would pay for an increment of protection, and if so how much they would pay. While the method has developed a great deal of sophistication that has increased the validity of the willingness to pay (WTP) responses, there is admittedly a degree of bias that can result in stated WTP exceeding actual WTP by a factor averaging 2-3 (Loomis, 2011; Murphy et al., 2005; List and Gallet, 2001). While not a perfect estimator of WTP, CVM provides a useful means for estimating the public’s passive use values.

Numerous academic papers and even entire books have been written on CVM. Mitchell and Carson (1989) was one of the first, while Alberini and Kahn (2006) is a more recent treatment. To date there have been about 7,500 CVM studies in over 130 countries (Carson, 2011). A number of federal agencies have used or referenced stated preference methods, including the Bureau of Reclamation, Environmental Protection Agency, National Park Service, and state agencies such as the California Department of Fish and Game, Idaho Fish and Game, and Montana Fish, Wildlife and Parks. The USFWS commissioned an original CVM study of the economic values the public receives from reintroduction of wolves in the areas of Idaho, Montana and Wyoming, and used those values in an EIS on wolf reintroduction (USFWS, 1994). The Bureau of Reclamation, National Park Service, and Lower Elwha S’Klallam Tribe commissioned a CVM study on the value of removal of the Elwha and Glines Canyon Dams (Meyer et al., 1995). The U.S. Bureau of Reclamation also commissioned an original CVM study on the values of providing stable river flows to benefit riparian vegetation, endangered species and cultural resources. That study was cited by then-Secretary of Interior Bruce Babbitt as a factor in selecting the more protective flow regime from Glen Canyon Dam despite it having more foregone hydroelectricity (Babbitt, 1996).

BLM and USFS conducted a literature search to demonstrate the potential range of values that could be associated with species that are candidates for listing as threatened or endangered, such as sage-grouse populations. Analysts first verified there are no existing studies on TEV or non-use valuation specific to the sage-grouse. This is not an uncommon occurrence, as there are dozens of rare or potentially threatened species which have not been valued despite the very high policy relevance of the species and the large magnitude of economic value at stake in these policy decisions.

BLM and USFS used three criteria to identify studies that are most applicable to the current analysis: (1) whether the species valuation study was located in the same geographic region as the sage-grouse habitat; (2) whether the species was listed or not listed as a threatened or endangered species; (3) whether the species was hunted or not (implying a mix of use and non-use values).

The primary database of articles was the recent peer reviewed journal article by Richardson and Loomis (2009), which is a compilation of the economic values of threatened, endangered and rare species. A literature review was also conducted to determine if there had been any recent studies on sage grouse or closely related species. Unfortunately, there is not a perfect match in the literature in terms of geographic region (intermountain) and a species that is both hunted and rare. Table A-3 provides a summary of the studies with features most similar to the sage-grouse species.

**Table A-3. Existing Estimates of Annual Total Economic Value of Protecting Habitat for Species Similar to Sage-Grouse**

Region	Species	Listed	Hunted	Annual Value per Household <sup>b</sup>	Change valued
Four Corners (AZ, CO, NM, UT)	Mexican Spotted Owl	Yes	No	\$58.49	Avoid extinction in 15 years in Four Corners region
New England	Wild Turkey	No	Yes	\$16.72 <sup>a</sup>	Avoid extinction in New England
Texas (also L.A., NYC, Chicago, Atlanta)	Whooping Crane	Yes	No	\$43.69 <sup>a</sup>	Avoid extinction
Maine	Peregrine Falcon	Yes	No	\$32.37 (one time)	Restore self-sustaining population
South Carolina & Rest of U.S.	Red-Cockaded Woodpecker	Yes	No	\$14.69	Restore habitat to increase chance of survival to 99%
<p>Sources: Loomis and Ekstrand, 1997 (Mexican spotted owl); Stevens et al., 1991 (New England wild turkey); Bowker and Stoll, 1988 (whooping crane); Kotchen and Reiling, 2000 (peregrine falcon); Reaves et al., 1999 (red-cockaded woodpecker). All of these sources are as cited in Richardson and Loomis (2009).</p> <p>Notes:</p> <ul style="list-style-type: none"> <li>a. Average of estimates from the study.</li> <li>b. As noted in the text, these stated preference values for household may have a degree of hypothetical bias that could overstate the actual monetary amount households would pay by a factor of 2-3.</li> </ul>					

As can be seen in Table A-3, there is one study with a geographic region overlapping the sub-region (Mexican spotted owl), and one study on a species that was hunted at the time (wild turkey). At the time of the study, the Mexican Spotted Owl was a threatened species under the Endangered Species Act, and respondents were told in the survey that it was a threatened species. The whooping crane, red-cockaded woodpecker peregrine falcon studies involved an endangered species.

All of these studies used the CVM method in a mail survey. Households were asked whether they would pay a specific dollar amount, with that amount varying across individuals in the sample (i.e., the valuation questions were “closed-ended”, although the wild turkey study and red-cockaded woodpecker also used an open-ended valuation question for some respondents). Researchers used the closed-ended valuation questions to generate a statistical valuation function. This valuation function exhibited internal validity: the higher the dollar amount households were asked to pay, the lower the percentage of them that would pay that dollar amount.

With the exception of the peregrine falcon study, which asked respondents to commit to a one-time payment, each survey asked respondents to pay annually to accomplish the stated goal (typically, preventing the species from going extinct in the region of interest, although this varied by study as the table shows). For the peregrine falcon and red-cockaded woodpecker, households were told that their payment would restore a self-sustaining population (i.e., one that would not go extinct).

The original wild turkey study provided an estimate of three values (in 1990 dollars) which were averaged and then adjusted to 2012 dollars using the CPI, resulting in a value of \$16.72 per household per year. The same procedure was used to update the 1996 dollar values of the Mexican Spotted Owl to 2012, resulting in values of \$58.49 per household per year. The higher values for the Mexican Spotted Owl may be due to the large area of habitat (4.6 million acres stated in the survey and shown on a map) that would be protected in the Four Corners area by paying, and the fact the species was not a hunted species. The whooping crane values are fairly large at \$43.69 per household per year; this value represents a Total Economic Value, including both use and non-use value, as some of the sample included people who actively “used” the species (as wildlife viewers).

The study values in Table A-3 demonstrate that many people, or segments of the public, hold substantial value for protecting threatened and endangered species, which may carry over to the sage-grouse. However, additional studies would be needed to identify values specifically for sage-grouse protection. Given that protection is a public good available to all households in the intermountain west, the aggregate or intermountain regional value could be substantial.

#### ***Values associated with grazing land***

Public lands managed for livestock grazing provides both market values (e.g., forage for livestock) and non-market values. Many ranchers themselves value the ranching lifestyle in excess of the income generated by the ranching operations. This is evident in some ranch sales transaction data which suggests some ranch properties have sold for more than the market value of the public land forage (Bartlett et al., 2002; Taylor, 2006). One of the primary reasons public lands ranchers indicate they own land is for the “tradition, values and culture” rather than primarily for profit (Tanaka et al., 2005). Many public land ranchers work elsewhere part-time and rely on the ranch for only 20 percent of

their income (Hanus, 2011), relying instead on outside jobs or other savings to support their ranching lifestyle. Land appreciation has also provided increased value and therefore served as an economic resource for ranchers (Tanaka et al., 2005; Torell et al., 2005). As several of these authors note, changes in public land grazing that reduce the profitability of grazing may not directly translate to withdrawal from ranching, due to the fact that economic factors are not necessarily the primary motivation for public land ranching.

Some studies have found non-market values of ranching associated with use values to residents (Mangun et al., 2005) and tourists in the form of open space and western ranch scenery (Ellingson et al., 2006). However, some others see non-market opportunity costs associated with livestock grazing that may, depending on management methods and other variables, reduce native plant species and forage for wildlife (Todres et al., 2003). The potential exists for other residents or visitors to prefer lifestyles or have lifestyle needs that are not consistent with grazing or ranching lifestyles or landscapes.

Methods available to measure the use values to residents and tourists associated with grazing land include stated preference methods similar to contingent valuation (Ellingson et al., 2006; Mangun et al., 2005). Methods for attempting to isolate any amenity values that ranchers themselves may hold include the hedonic price method. This method uses observed sale prices of ranch land as a function of the characteristics, including both conventional market factors (e.g., size of ranch, quantity of forage) but also amenity values (e.g., scenic views, presence of wildlife species, on-site fishing or hunting opportunities) that may be provided by the ranch (Torell et al., 2005). The additional value that ranchers pay for the amenity values of the ranch provide some indication of how much they value these amenities. Using the hedonic price method to estimate a “lifestyle value” separate from the market and amenity values has yet to be done in the literature. This may be due to the fact that lifestyle values attributed to living on a ranch or ranching is present on nearly all ranch properties sold. As such, statistically it is difficult to isolate the contribution of ranching lifestyle to differences in ranch property values as ranching lifestyle is a common feature of nearly all ranch properties sold.

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## Appendix X. Detailed Employment and Earnings Data

### Table I. Employment Levels by Industry Sector and County in 2010<sup>1,2</sup>

	Adams, ID	Bear Lake, ID	Bingham, ID	Blaine, ID	Bonneville, ID	Butte, ID	Camas, ID	Caribou, ID	Cassia, ID	Clark, ID	Custer, ID
Farm	255	496	2,217	290	1,212	269	137	548	1,773	140	297
Forestry, fishing, & related activities <sup>3</sup>	139	(D)	(D)	122	(D)	(D)	(D)	(D)	442	(D)	(D)
Mining (including oil and gas)	35	(D)	(D)	88	(D)	38	(L)	336	109	38	(D)
Utilities	(D)	(D)	69	31	50	(L)	0	38	51	(L)	35
Construction	184	142	1,494	1,979	4,335	51	(D)	(D)	618	(D)	195
Manufacturing	70	77	2,416	521	2,450	56	(D)	(D)	1,288	(D)	48
Wholesale trade	28	80	1,391	256	3,616	(D)	(D)	104	477	(D)	37
Retail trade	313	442	1,973	1,839	8,484	157	(D)	405	1,779	(D)	272
Transportation and warehousing	(D)	(D)	609	244	1,814	(D)	11	104	875	(D)	42
Information	22	37	96	452	1,388	(D)	16	39	102	(D)	47
Finance and insurance	73	93	737	897	2,839	69	(D)	127	449	75	87
Real estate and rental and leasing	132	97	591	2,098	2,812	43	34	180	436	64	102
Professional and technical services	93	(D)	(D)	1,591	3,697	8,064	23	162	370	(D)	95
Management of companies and enterprises	0	0	(D)	(D)	131	(D)	(D)	(D)	(D)	0	(D)
Administrative and waste services	79	(D)	603	(D)	3,183	(D)	(D)	(D)	(D)	(D)	(D)
Educational services	(D)	(D)	190	323	553	(D)	(D)	(D)	(D)	(D)	15
Health care and social assistance	(D)	(D)	1,877	1,025	8,579	(D)	(D)	(D)	(D)	(D)	95
Arts, entertainment, and recreation	138	58	191	863	956	29	(D)	49	159	10	91
Accommodation and food services	89	199	775	2,772	4,256	88	(D)	175	478	(D)	301
Other services, except public administration	111	149	1,200	1,369	3,394	(D)	(D)	200	659	24	111
Federal government	119	89	428	203	1,225	140	27	84	272	42	183
State government	(D)	25	361	41	710	13	(D)	20	168	(D)	44
Local government	(D)	577	3,332	1,337	4,334	155	(D)	613	1,343	(D)	263
Categories for which data were not disclosed	402	538	1,230	1,193	558	450	568	1,460	1,867	541	602
<b>Total Employment</b>	<b>2,282</b>	<b>3,099</b>	<b>21,780</b>	<b>19,534</b>	<b>60,576</b>	<b>9,622</b>	<b>816</b>	<b>4,644</b>	<b>13,715</b>	<b>934</b>	<b>2,962</b>

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than 10 jobs, but the estimates for this item are included in the totals.

<sup>3</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

**Table 1. Employment Levels by Industry Sector and County in 2010 (continued)<sup>1,2</sup>**

	Elmore, ID	Fremont, ID <sup>3</sup>	Gem, ID	Gooding, ID	Jefferson, ID	Jerome, ID	Lemhi, ID	Lincoln, ID	Madison, ID	Minidoka, ID	Oneida, ID
Farm	866	698	886	2,118	1,335	1,888	402	524	663	1,403	476
Forestry, fishing, & related activities <sup>4</sup>	(D)	(D)	(D)	(D)	546	348	(D)	(D)	(D)	(D)	(D)
Mining (including oil and gas)	(D)	(D)	(D)	(D)	38	38	(D)	(L)	(D)	(D)	(D)
Utilities	32	(D)	(L)	42	25	(D)	(D)	(D)	(D)	58	(L)
Construction	499	493	508	340	1,015	595	392	(D)	919	556	69
Manufacturing	459	100	253	814	877	1,460	142	(D)	808	962	30
Wholesale trade	110	(D)	145	218	346	(D)	64	(D)	1,364	580	34
Retail trade	1,197	465	620	588	962	1,169	442	147	1,867	732	219
Transportation and warehousing	301	180	211	351	411	1,159	(D)	60	(D)	370	110
Information	125	(D)	37	43	58	101	50	(D)	125	128	23
Finance and insurance	289	175	211	162	371	241	141	(D)	667	205	(D)
Real estate and rental and leasing	448	299	290	222	333	363	206	(D)	611	268	(D)
Professional and technical services	245	151	206	284	(D)	230	227	(D)	1,296	232	(D)
Management of companies and enterprises	(L)	0	(D)	12	(D)	(L)	16	0	(D)	(L)	0
Administrative and waste services	412	117	(D)	132	301	314	158	(D)	(D)	125	(D)
Educational services	172	(D)	(D)	15	(D)	95	20	(D)	(D)	(D)	(L)
Health care and social assistance	581	(D)	(D)	(D)	(D)	608	336	(D)	(D)	(D)	90
Arts, entertainment, and recreation	92	62	71	116	268	167	108	(D)	291	79	(D)
Accommodation and food services	814	308	253	298	305	401	307	(D)	1,014	538	(D)
Other services, except public administration	577	337	415	456	612	577	377	(D)	728	567	109
Federal government	4,832	147	153	139	164	146	268	117	209	147	41
State government	68	324	25	111	139	75	96	93	45	49	10
Local government	1,324	697	749	923	1,173	906	496	314	1,886	1,348	421
Categories for which data were not disclosed	161	742	1,288	891	937	511	211	1,071	5,183	912	472
<b>Total Employment</b>	<b>13,604</b>	<b>5,295</b>	<b>6,321</b>	<b>8,275</b>	<b>10,216</b>	<b>11,392</b>	<b>4,459</b>	<b>2,326</b>	<b>17,676</b>	<b>9,259</b>	<b>2,104</b>

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than 10 jobs, but the estimates for this item are included in the totals.

<sup>3</sup> Fremont County includes Yellowstone Park.

<sup>4</sup>“Related activities” includes hunting and trapping, as well as agricultural services such as custom tillage.

**Table 1. Employment Levels by Industry Sector and County in 2010 (continued)<sup>1,2</sup>**

	Owyhee, ID	Payette, ID	Power, ID	Twin Falls, ID	Washington, ID	Beaverhead, MT	Gallatin, MT	Madison, MT	Silver Bow, MT
Farm	1,079	957	748	2,118	696	534	1,120	614	150
Forestry, fishing, & related activities <sup>3</sup>	(D)	(D)	165	828	196	(D)	557	146	(D)
Mining (including oil and gas)	(D)	(D)	38	73	38	(D)	393	95	444
Utilities	(D)	96	(D)	222	(D)	(D)	111	13	(D)
Construction	234	605	104	2,404	208	370	5,647	628	936
Manufacturing	233	1,171	1,080	3,285	488	118	2,727	148	638
Wholesale trade	122	297	(D)	1,443	177	179	1,686	42	446
Retail trade	345	744	273	5,848	387	588	8,221	407	2,631
Transportation and warehousing	(D)	333	304	1,732	(D)	(D)	1,234	141	(D)
Information	39	(D)	(D)	659	108	46	824	16	348
Finance and insurance	(D)	405	88	1,728	105	193	2,361	161	580
Real estate and rental and leasing	(D)	369	62	2,023	156	407	4,317	311	815
Professional and technical services	(D)	(D)	65	2,029	123	193	5,605	(D)	1,101
Management of companies and enterprises	(D)	(D)	(D)	202	(D)	0	190	(D)	(D)
Administrative and waste services	126	462	(D)	3,022	(D)	135	2,286	182	(D)
Educational services	(D)	(D)	(D)	380	(D)	(D)	1,114	26	248
Health care and social assistance	(D)	(D)	78	5,761	(D)	(D)	5,039	210	3,278
Arts, entertainment, and recreation	61	95	(D)	556	59	170	2,481	499	655
Accommodation and food services	192	320	(D)	2,811	182	538	5,887	1,010	1,924
Other services, except public administration	210	720	192	2,512	214	317	3,525	300	1,266
Federal government	103	129	61	736	98	260	1,121	108	474
State government	28	75	48	430	24	396	5,956	13	1,150
Local government	632	980	599	3,886	647	374	2,881	450	1,167
Categories for which data were not disclosed	868	1,700	443	0	634	1,013	0	205	1,949
<b>Total Employment</b>	<b>4,272</b>	<b>9,458</b>	<b>4,348</b>	<b>44,688</b>	<b>4,540</b>	<b>5,831</b>	<b>65,283</b>	<b>5,725</b>	<b>20,200</b>

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than 10 jobs, but the estimates for this item are included in the totals.

<sup>3</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

**Table 1. Employment Levels by Industry Sector and County in 2010 (continued)<sup>1,2</sup>**

	Ada, ID <sup>3</sup>	Bannock, ID	Boise, ID	Canyon, ID	Deer Lodge, MT	Park, MT
Farm	1,762	959	116	3,242	112	546
Forestry, fishing, & related activities <sup>4</sup>	529	(D)	(D)	1,135	(D)	(D)
Mining (including oil and gas)	326	(D)	(D)	77	(D)	(D)
Utilities	921	127	(D)	158	(D)	46
Construction	14,651	2,727	183	5,492	335	720
Manufacturing	15,646	2,190	39	8,044	116	347
Wholesale trade	9,550	1,147	(D)	2,481	(D)	62
Retail trade	29,193	5,382	166	9,378	412	938
Transportation and warehousing	5,902	1,347	116	2,998	59	176
Information	4,751	542	(D)	854	42	148
Finance and insurance	15,166	2,202	(D)	3,021	115	401
Real estate and rental and leasing	15,093	1,614	(D)	3,258	161	526
Professional and technical services	18,078	1,769	(D)	2,911	(D)	476
Management of companies and enterprises	4,232	287	(D)	370	(D)	(D)
Administrative and waste services	23,463	2,529	112	3,708	294	(D)
Educational services	4,757	505	25	2,178	19	177
Health care and social assistance	31,615	5,868	83	8,518	699	783
Arts, entertainment, and recreation	5,459	857	430	880	152	407
Accommodation and food services	16,728	3,330	174	3,574	456	1,366
Other services, except public administration	12,539	2,374	112	4,270	295	746
Federal government	7,030	895	206	1,169	134	159
State government	11,944	4,139	20	963	(D)	38
Local government	14,365	3,190	340	7,545	(D)	624
Categories for which data were not disclosed	0	135	402	0	1,112	550
<b>Total Employment</b>	<b>263,700</b>	<b>44,115</b>	<b>2,524</b>	<b>76,224</b>	<b>4,513</b>	<b>9,236</b>

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than 10 jobs, but the estimates for this item are included in the totals.



<sup>3</sup> Ada, Bannock, Boise, and Canyon Counties in Idaho and Deer Lodge and Park Counties in Montana constitute a secondary study area, as documented in the Chapter 3 text.

<sup>4</sup>“Related activities” includes hunting and trapping, as well as agricultural services such as custom tillage.

**Table 2. Employment Percentages by Industry Sector and County in 2010<sup>1,2</sup>**

	Adams, ID	Bear Lake, ID	Bingham, ID	Blaine, ID	Bonneville, ID	Butte, ID	Camas, ID	Caribou, ID	Cassia, ID	Clark, ID	Custer, ID
Farm	11.2%	16.0%	10.2%	1.5%	2.0%	2.8%	16.8%	11.8%	12.9%	15.0%	10.0%
Forestry, fishing, & related activities <sup>3</sup>	6.1%	(D)	(D)	0.6%	(D)	(D)	(D)	(D)	3.2%	(D)	(D)
Mining (including oil and gas)	1.5%	(D)	(D)	0.5%	(D)	0.4%	(L)	7.2%	0.8%	4.1%	(D)
Utilities	(D)	(D)	0.3%	0.2%	0.1%	(L)	0.0%	0.8%	0.4%	(L)	1.2%
Construction	8.1%	4.6%	6.9%	10.1%	7.2%	0.5%	(D)	(D)	4.5%	(D)	6.6%
Manufacturing	3.1%	2.5%	11.1%	2.7%	4.0%	0.6%	(D)	(D)	9.4%	(D)	1.6%
Wholesale trade	1.2%	2.6%	6.4%	1.3%	6.0%	(D)	(D)	2.2%	3.5%	(D)	1.2%
Retail trade	13.7%	14.3%	9.1%	9.4%	14.0%	1.6%	(D)	8.7%	13.0%	(D)	9.2%
Transportation and warehousing	(D)	(D)	2.8%	1.2%	3.0%	(D)	1.3%	2.2%	6.4%	(D)	1.4%
Information	1.0%	1.2%	0.4%	2.3%	2.3%	(D)	2.0%	0.8%	0.7%	(D)	1.6%
Finance and insurance	3.2%	3.0%	3.4%	4.6%	4.7%	0.7%	(D)	2.7%	3.3%	8.0%	2.9%
Real estate and rental and leasing	5.8%	3.1%	2.7%	10.7%	4.6%	0.4%	4.2%	3.9%	3.2%	6.9%	3.4%
Professional and technical services	4.1%	(D)	(D)	8.1%	6.1%	83.8%	2.8%	3.5%	2.7%	(D)	3.2%
Management of companies and enterprises	0.0%	0.0%	(D)	(D)	0.2%	(D)	(D)	(D)	(D)	0.0%	(D)
Administrative and waste services	3.5%	(D)	2.8%	(D)	5.3%	(D)	(D)	(D)	(D)	(D)	(D)
Educational services	(D)	(D)	0.9%	1.7%	0.9%	(D)	(D)	(D)	(D)	(D)	0.5%
Health care and social assistance	(D)	(D)	8.6%	5.2%	14.2%	(D)	(D)	(D)	(D)	(D)	3.2%
Arts, entertainment, and recreation	6.0%	1.9%	0.9%	4.4%	1.6%	0.3%	(D)	1.1%	1.2%	1.1%	3.1%
Accommodation and food services	3.9%	6.4%	3.6%	14.2%	7.0%	0.9%	(D)	3.8%	3.5%	(D)	10.2%
Other services, except public administration	4.9%	4.8%	5.5%	7.0%	5.6%	(D)	(D)	4.3%	4.8%	2.6%	3.7%
Federal government	5.2%	2.9%	2.0%	1.0%	2.0%	1.5%	3.3%	1.8%	2.0%	4.5%	6.2%
State government	(D)	0.8%	1.7%	0.2%	1.2%	0.1%	(D)	0.4%	1.2%	(D)	1.5%
Local government	(D)	18.6%	15.3%	6.8%	7.2%	1.6%	(D)	13.2%	9.8%	(D)	8.9%
Categories for which data were not disclosed	17.6%	17.4%	5.6%	6.1%	0.9%	4.7%	69.6%	31.4%	13.6%	57.9%	20.3%

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than 10 jobs, but the estimates for this item are included in the totals.

<sup>3</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

**Table 2. Employment Percentages by Industry Sector and County in 2010 (continued)<sup>1,2</sup>**

	Elmore, ID	Fremont, ID <sup>3</sup>	Gem, ID	Gooding, ID	Jefferson, ID	Jerome, ID	Lemhi, ID	Lincoln, ID	Madison, ID	Minidoka, ID	Oneida, ID
Farm	6.4%	13.2%	14.0%	25.6%	13.1%	16.6%	9.0%	22.5%	3.8%	15.2%	22.6%
Forestry, fishing, & related activities <sup>4</sup>	(D)	(D)	(D)	(D)	5.3%	3.1%	(D)	(D)	(D)	(D)	(D)
Mining (including oil and gas)	(D)	(D)	(D)	(D)	0.4%	0.3%	(D)	(L)	(D)	(D)	(D)
Utilities	0.2%	(D)	(L)	0.5%	0.2%	(D)	(D)	(D)	(D)	0.6%	(L)
Construction	3.7%	9.3%	8.0%	4.1%	9.9%	5.2%	8.8%	(D)	5.2%	6.0%	3.3%
Manufacturing	3.4%	1.9%	4.0%	9.8%	8.6%	12.8%	3.2%	(D)	4.6%	10.4%	1.4%
Wholesale trade	0.8%	(D)	2.3%	2.6%	3.4%	(D)	1.4%	(D)	7.7%	6.3%	1.6%
Retail trade	8.8%	8.8%	9.8%	7.1%	9.4%	10.3%	9.9%	6.3%	10.6%	7.9%	10.4%
Transportation and warehousing	2.2%	3.4%	3.3%	4.2%	4.0%	10.2%	(D)	2.6%	(D)	4.0%	5.2%
Information	0.9%	(D)	0.6%	0.5%	0.6%	0.9%	1.1%	(D)	0.7%	1.4%	1.1%
Finance and insurance	2.1%	3.3%	3.3%	2.0%	3.6%	2.1%	3.2%	(D)	3.8%	2.2%	(D)
Real estate and rental and leasing	3.3%	5.6%	4.6%	2.7%	3.3%	3.2%	4.6%	(D)	3.5%	2.9%	(D)
Professional and technical services	1.8%	2.9%	3.3%	3.4%	(D)	2.0%	5.1%	(D)	7.3%	2.5%	(D)
Management of companies and enterprises	(L)	0.0%	(D)	0.1%	(D)	(L)	0.4%	0.0%	(D)	(L)	0.0%
Administrative and waste services	3.0%	2.2%	(D)	1.6%	2.9%	2.8%	3.5%	(D)	(D)	1.4%	(D)
Educational services	1.3%	(D)	(D)	0.2%	(D)	0.8%	0.4%	(D)	(D)	(D)	(L)
Health care and social assistance	4.3%	(D)	(D)	(D)	(D)	5.3%	7.5%	(D)	(D)	(D)	4.3%
Arts, entertainment, and recreation	0.7%	1.2%	1.1%	1.4%	2.6%	1.5%	2.4%	(D)	1.6%	0.9%	(D)
Accommodation and food services	6.0%	5.8%	4.0%	3.6%	3.0%	3.5%	6.9%	(D)	5.7%	5.8%	(D)
Other services, except public administration	4.2%	6.4%	6.6%	5.5%	6.0%	5.1%	8.5%	(D)	4.1%	6.1%	5.2%
Federal government	35.5%	2.8%	2.4%	1.7%	1.6%	1.3%	6.0%	5.0%	1.2%	1.6%	1.9%
State government	0.5%	6.1%	0.4%	1.3%	1.4%	0.7%	2.2%	4.0%	0.3%	0.5%	0.5%
Local government	9.7%	13.2%	11.8%	11.2%	11.5%	8.0%	11.1%	13.5%	10.7%	14.6%	20.0%
Categories for which data were not disclosed	1.2%	14.0%	20.4%	10.8%	9.2%	4.5%	4.7%	46.0%	29.3%	9.8%	22.4%

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than 10 jobs, but the estimates for this item are included in the totals.

<sup>3</sup> Fremont County includes Yellowstone Park.

<sup>4</sup>“Related activities” includes hunting and trapping, as well as agricultural services such as custom tillage.

**Table 2. Employment Percentages by Industry Sector and County in 2010 (continued)<sup>1,2</sup>**

	Owyhee, ID	Payette, ID	Power, ID	Twin Falls, ID	Washington, ID	Beaverhead, MT	Gallatin, MT	Madison, MT	Silver Bow, MT
Farm	25.3%	10.1%	17.2%	4.7%	15.3%	9.2%	1.7%	10.7%	0.7%
Forestry, fishing, & related activities <sup>3</sup>	(D)	(D)	3.8%	1.9%	4.3%	(D)	0.9%	2.6%	(D)
Mining (including oil and gas)	(D)	(D)	0.9%	0.2%	0.8%	(D)	0.6%	1.7%	2.2%
Utilities	(D)	1.0%	(D)	0.5%	(D)	(D)	0.2%	0.2%	(D)
Construction	5.5%	6.4%	2.4%	5.4%	4.6%	6.3%	8.7%	11.0%	4.6%
Manufacturing	5.5%	12.4%	24.8%	7.4%	10.7%	2.0%	4.2%	2.6%	3.2%
Wholesale trade	2.9%	3.1%	(D)	3.2%	3.9%	3.1%	2.6%	0.7%	2.2%
Retail trade	8.1%	7.9%	6.3%	13.1%	8.5%	10.1%	12.6%	7.1%	13.0%
Transportation and warehousing	(D)	3.5%	7.0%	3.9%	(D)	(D)	1.9%	2.5%	(D)
Information	0.9%	(D)	(D)	1.5%	2.4%	0.8%	1.3%	0.3%	1.7%
Finance and insurance	(D)	4.3%	2.0%	3.9%	2.3%	3.3%	3.6%	2.8%	2.9%
Real estate and rental and leasing	(D)	3.9%	1.4%	4.5%	3.4%	7.0%	6.6%	5.4%	4.0%
Professional and technical services	(D)	(D)	1.5%	4.5%	2.7%	3.3%	8.6%	(D)	5.5%
Management of companies and enterprises	(D)	(D)	(D)	0.5%	(D)	0.0%	0.3%	(D)	(D)
Administrative and waste services	2.9%	4.9%	(D)	6.8%	(D)	2.3%	3.5%	3.2%	(D)
Educational services	(D)	(D)	(D)	0.9%	(D)	(D)	1.7%	0.5%	1.2%
Health care and social assistance	(D)	(D)	1.8%	12.9%	(D)	(D)	7.7%	3.7%	16.2%
Arts, entertainment, and recreation	1.4%	1.0%	(D)	1.2%	1.3%	2.9%	3.8%	8.7%	3.2%
Accommodation and food services	4.5%	3.4%	(D)	6.3%	4.0%	9.2%	9.0%	17.6%	9.5%
Other services, except public administration	4.9%	7.6%	4.4%	5.6%	4.7%	5.4%	5.4%	5.2%	6.3%
Federal government	2.4%	1.4%	1.4%	1.6%	2.2%	4.5%	1.7%	1.9%	2.3%
State government	0.7%	0.8%	1.1%	1.0%	0.5%	6.8%	9.1%	0.2%	5.7%
Local government	14.8%	10.4%	13.8%	8.7%	14.3%	6.4%	4.4%	7.9%	5.8%
Categories for which data were not disclosed	20.3%	18.0%	10.2%	0.0%	14.0%	17.4%	0.0%	3.6%	9.6%

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than 10 jobs, but the estimates for this item are included in the totals.

<sup>3</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

**Table 2. Employment Percentages by Industry Sector and County in 2010 (continued)<sup>1,2</sup>**

	Ada, ID <sup>3</sup>	Bannock, ID	Boise, ID	Canyon, ID	Deer Lodge, MT	Park, MT
Farm	0.7%	2.2%	4.6%	4.3%	2.5%	5.9%
Forestry, fishing, & related activities <sup>4</sup>	0.2%	(D)	(D)	1.5%	(D)	(D)
Mining (including oil and gas)	0.1%	(D)	(D)	0.1%	(D)	(D)
Utilities	0.3%	0.3%	(D)	0.2%	(D)	0.5%
Construction	5.6%	6.2%	7.3%	7.2%	7.4%	7.8%
Manufacturing	5.9%	5.0%	1.5%	10.6%	2.6%	3.8%
Wholesale trade	3.6%	2.6%	(D)	3.3%	(D)	0.7%
Retail trade	11.1%	12.2%	6.6%	12.3%	9.1%	10.2%
Transportation and warehousing	2.2%	3.1%	4.6%	3.9%	1.3%	1.9%
Information	1.8%	1.2%	(D)	1.1%	0.9%	1.6%
Finance and insurance	5.8%	5.0%	(D)	4.0%	2.5%	4.3%
Real estate and rental and leasing	5.7%	3.7%	(D)	4.3%	3.6%	5.7%
Professional and technical services	6.9%	4.0%	(D)	3.8%	(D)	5.2%
Management of companies and enterprises	1.6%	0.7%	(D)	0.5%	(D)	(D)
Administrative and waste services	8.9%	5.7%	4.4%	4.9%	6.5%	(D)
Educational services	1.8%	1.1%	1.0%	2.9%	0.4%	1.9%
Health care and social assistance	12.0%	13.3%	3.3%	11.2%	15.5%	8.5%
Arts, entertainment, and recreation	2.1%	1.9%	17.0%	1.2%	3.4%	4.4%
Accommodation and food services	6.3%	7.5%	6.9%	4.7%	10.1%	14.8%
Other services, except public administration	4.8%	5.4%	4.4%	5.6%	6.5%	8.1%
Federal government	2.7%	2.0%	8.2%	1.5%	3.0%	1.7%
State government	4.5%	9.4%	0.8%	1.3%	(D)	0.4%
Local government	5.4%	7.2%	13.5%	9.9%	(D)	6.8%
Categories for which data were not disclosed	0.0%	0.3%	15.9%	0.0%	24.6%	6.0%

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than 10 jobs, but the estimates for this item are included in the totals.



<sup>3</sup> Ada, Bannock, Boise, and Canyon Counties in Idaho and Deer Lodge and Park Counties in Montana constitute a secondary study area, as documented in the Chapter 3 text.

<sup>4</sup>“Related activities” includes hunting and trapping, as well as agricultural services such as custom tillage.

**Table 3. Labor Income Levels by Industry Sector and County and Non-Labor Income Levels by County in 2010, presented in 2010 dollars (millions)**

	Adams, ID	Bear Lake, ID	Bingham, ID	Blaine, ID	Bonneville, ID	Butte, ID	Camas, ID	Caribou, ID	Cassia, ID	Clark, ID	Custer, ID
Population	3,954	5,975	45,742	21,334	104,622	2,899	1,108	6,982	23,091	980	4,370
Non-labor income <sup>1</sup>	\$61.8	\$70.4	\$459.3	\$760.7	\$1,246.9	\$34.1	\$12.5	\$81.9	\$266.9	\$8.3	\$64.3
Dividends, interest, and rent	\$31.8	\$26.6	\$189.5	\$655.7	\$606.9	\$13.1	\$6.8	\$37.7	\$117.1	\$3.6	\$35.2
Personal current transfer receipts <sup>2</sup>	\$30.0	\$43.9	\$269.8	\$105.0	\$640.0	\$21.0	\$5.7	\$44.2	\$149.9	\$4.8	\$29.1
Adjustment for residence <sup>3</sup>	\$4.7	\$31.4	\$88.9	-\$13.8	\$292.3	-\$654.6	\$6.2	-\$47.5	-\$38.5	-\$1.7	-\$10.6
Contributions for government social insurance <sup>4</sup>	\$7.1	\$11.0	\$94.7	\$86.7	\$294.1	\$104.9	\$2.3	\$25.2	\$58.2	\$3.6	\$11.6
Total personal income by place of residence	\$109.9	\$172.9	\$1,203.0	\$1,362.9	\$3,626.9	\$93.3	\$38.5	\$215.3	\$725.2	\$38.9	\$142.1
Earnings by place of work <sup>5</sup>	\$50.5	\$82.0	\$749.5	\$702.7	\$2,381.9	\$818.8	\$21.9	\$206.2	\$555.0	\$35.9	\$100.0
<b>Total earnings by place of work by sector<sup>6,7</sup></b>											
Farm	-\$1.0	\$6.4	\$39.7	\$10.2	\$40.3	\$10.6	\$6.5	\$11.5	\$156.3	\$11.4	\$9.5
Forestry, fishing, & related activities <sup>8</sup>	\$3.2	(D)	(D)	\$1.6	(D)	(D)	(D)	(D)	\$12.6	(D)	(D)
Mining (including oil and gas)	(L)	(D)	(D)	\$2.0	(D)	(L)	(L)	\$26.2	\$4.0	(L)	(D)
Utilities	(D)	(D)	\$6.7	\$2.9	\$3.3	\$0.1	\$0.0	\$3.1	\$4.2	(L)	\$2.6
Construction	\$2.6	\$2.4	\$50.9	\$93.3	\$209.9	\$1.3	(D)	(D)	\$20.4	(D)	\$3.5
Manufacturing	\$2.1	\$2.6	\$126.9	\$30.4	\$101.9	\$1.5	(D)	(D)	\$60.3	(D)	\$0.3
Wholesale trade	\$0.9	\$3.2	\$84.1	\$11.7	\$265.9	(D)	(D)	\$4.4	\$21.7	(D)	\$1.0
Retail trade	\$8.2	\$7.0	\$36.5	\$58.7	\$244.2	\$2.1	(D)	\$6.9	\$43.1	(D)	\$4.5
Transportation and warehousing	(D)	(D)	\$20.3	\$9.6	\$92.8	(D)	(L)	\$3.3	\$37.2	(D)	\$0.9
Information	\$0.3	\$0.4	\$1.8	\$22.6	\$53.4	(D)	(L)	\$0.6	\$5.9	(D)	\$1.9
Finance and insurance	\$1.4	\$1.7	\$17.5	\$32.6	\$81.2	\$1.1	(D)	\$2.0	\$10.2	\$1.7	\$0.9
Real estate and rental and leasing	\$0.6	\$0.5	\$5.6	\$26.6	\$45.3	\$0.1	\$0.1	\$2.6	\$2.2	(L)	\$0.6
Professional and technical services	\$3.4	(D)	(D)	\$96.9	\$215.7	\$765.5	\$0.7	\$5.8	\$14.4	(D)	\$2.5
Management of companies and enterprises	\$0.0	\$0.0	(D)	(D)	\$4.8	(D)	(D)	(D)	(D)	\$0.0	(D)
Administrative and waste services	\$1.0	(D)	\$14.6	(D)	\$90.0	(D)	(D)	(D)	(D)	(D)	(D)
Educational services	(D)	(D)	\$2.0	\$6.3	\$7.0	(D)	(D)	(D)	(D)	(D)	(L)

<sup>1</sup> Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>2</sup> Personal current transfer receipts are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>3</sup> Residence adjustment represents the net inflow of the earnings of inter-area commuters. A positive number indicates that, on balance, area residents commute outside to find jobs; a negative number indicates that, on balance, people from outside the area commute in to find jobs.

<sup>4</sup> Contributions for government social insurance consist of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans' life insurance; publicly-administered workers' compensation; military medical insurance; and temporary disability insurance.

<sup>5</sup> Earnings by place of work differs from total personal income by the exclusion of dividends, interest, and rent, as well as adjustments to account for net transfer payments (e.g., unemployment benefits and Social Security taxes and payments) and the residential adjustment.

<sup>6</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>7</sup> (L) Less than \$50,000, but the estimates for this item are included in the totals.

<sup>8</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

	<b>Adams, ID</b>	<b>Bear Lake, ID</b>	<b>Bingham, ID</b>	<b>Blaine, ID</b>	<b>Bonneville, ID</b>	<b>Butte, ID</b>	<b>Camas, ID</b>	<b>Caribou, ID</b>	<b>Cassia, ID</b>	<b>Clark, ID</b>	<b>Custer, ID</b>
Health care and social assistance	(D)	(D)	\$72.5	\$50.4	\$396.3	(D)	(D)	(D)	(D)	(D)	\$2.0
Arts, entertainment, and recreation	\$3.2	\$0.6	\$1.9	\$21.0	\$11.5	(L)	(D)	\$0.3	\$2.4	(L)	\$3.5
Accommodation and food services	\$1.3	\$3.0	\$9.4	\$76.3	\$72.5	\$1.2	(D)	\$2.5	\$6.1	(D)	\$4.8
Other services, except public administration	\$2.4	\$3.9	\$33.6	\$33.2	\$107.5	(D)	(D)	\$4.4	\$17.1	\$0.3	\$1.8
Federal government	\$9.1	\$5.5	\$27.7	\$13.1	\$104.7	\$16.4	\$2.2	\$5.2	\$18.5	\$3.6	\$13.2
State government	(D)	\$1.2	\$19.4	\$2.2	\$36.1	\$0.7	(D)	\$1.3	\$9.9	(D)	\$2.5
Local government	(D)	\$24.1	\$130.6	\$71.0	\$188.4	\$5.2	(D)	\$24.4	\$48.9	(D)	\$8.9
Categories for which data were not disclosed	\$12.0	\$19.6	\$47.8	\$30.2	\$9.2	\$13.0	\$12.5	\$101.6	\$59.4	\$18.9	\$35.2

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

**Table 3. Labor Income Levels by Industry Sector and County and Non-Labor Income Levels by County in 2010, presented in 2010 dollars (millions) (continued)**

	Elmore, ID	Fremont, ID <sup>1</sup>	Gem, ID	Gooding, ID	Jefferson, ID	Jerome, ID	Lemhi, ID	Lincoln, ID	Madison, ID	Minidoka, ID	Oneida, ID
Population	27,080	13,248	16,669	15,500	26,215	22,461	7,957	5,214	37,602	20,082	4,294
Non-labor income <sup>2</sup>	\$262.7	\$142.0	\$216.2	\$176.3	\$207.1	\$207.1	\$138.0	\$47.8	\$273.8	\$213.2	\$46.5
Dividends, interest, and rent	\$109.8	\$63.0	\$81.2	\$77.7	\$79.5	\$82.5	\$64.6	\$16.6	\$106.2	\$86.9	\$17.6
Personal current transfer receipts <sup>3</sup>	\$152.9	\$79.0	\$135.0	\$98.6	\$127.6	\$124.6	\$73.4	\$31.3	\$167.5	\$126.4	\$28.9
Adjustment for residence <sup>4</sup>	\$16.4	\$60.2	\$119.3	\$26.9	\$191.0	\$5.1	\$1.1	\$3.3	-\$46.1	\$46.4	\$20.8
Contributions for government social insurance <sup>5</sup>	\$67.5	\$18.3	\$21.9	\$34.2	\$34.7	\$52.4	\$15.9	\$8.7	\$69.3	\$40.1	\$5.7
Total personal income by place of residence	\$909.7	\$315.3	\$462.5	\$574.3	\$687.9	\$656.2	\$244.0	\$144.4	\$701.3	\$569.8	\$114.7
Earnings by place of work <sup>6</sup>	\$698.1	\$131.4	\$148.9	\$405.4	\$324.4	\$496.4	\$120.9	\$102.0	\$543.0	\$350.3	\$53.1
<b>Total earnings by place of work by sector<sup>7,8</sup></b>											
Farm	\$46.3	-\$1.4	\$9.3	\$191.8	\$64.5	\$138.8	\$3.1	\$46.9	-\$6.1	\$84.3	\$14.7
Forestry, fishing, & related activities <sup>9</sup>	(D)	(D)	(D)	(D)	\$13.7	\$23.0	(D)	(D)	(D)	(D)	(D)
Mining (including oil and gas)	(D)	(D)	(D)	(D)	(L)	(L)	(D)	(L)	(D)	(D)	(D)
Utilities	\$4.5	(D)	(L)	\$3.8	\$2.3	(D)	(D)	(D)	(D)	\$5.5	(L)
Construction	\$16.2	\$14.6	\$11.6	\$9.2	\$30.6	\$23.7	\$12.1	(D)	\$26.7	\$15.9	\$1.0
Manufacturing	\$14.5	\$2.7	\$8.8	\$42.3	\$45.4	\$61.6	\$3.7	(D)	\$44.6	\$61.7	\$0.5
Wholesale trade	\$4.2	(D)	\$7.1	\$10.9	\$13.7	(D)	\$2.0	(D)	\$42.2	\$28.5	\$1.2
Retail trade	\$29.3	\$8.4	\$10.0	\$10.4	\$17.0	\$32.8	\$10.1	\$2.2	\$43.3	\$14.4	\$2.4
Transportation and warehousing	\$11.8	\$7.0	\$7.8	\$29.0	\$16.4	\$62.0	(D)	\$1.5	(D)	\$13.1	\$3.3
Information	\$3.9	(D)	\$0.3	\$0.3	\$2.2	\$4.1	\$0.7	(D)	\$2.1	\$4.6	\$0.2
Finance and insurance	\$8.5	\$2.5	\$3.5	\$3.8	\$5.7	\$4.5	\$1.9	(D)	\$13.3	\$4.4	(D)
Real estate and rental and leasing	\$2.3	\$2.7	\$1.6	\$1.9	\$6.4	\$4.7	\$1.3	(D)	\$7.6	\$2.1	(D)
Professional and technical services	\$8.5	\$2.8	\$4.8	\$9.9	(D)	\$10.5	\$6.6	(D)	\$38.8	\$6.5	(D)
Management of companies and enterprises	(L)	\$0.0	(D)	\$1.6	(D)	\$1.2	\$1.5	\$0.0	(D)	(L)	\$0.0
Administrative and waste services	\$10.1	\$2.2	(D)	\$0.4	\$3.5	\$5.4	\$2.4	(D)	(D)	\$0.7	(D)

<sup>1</sup> Fremont County includes Yellowstone Park.

<sup>2</sup> Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>3</sup> Personal current transfer receipts are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>4</sup> Residence adjustment represents the net inflow of the earnings of inter-area commuters. A positive number indicates that, on balance, area residents commute outside to find jobs; a negative number indicates that, on balance, people from outside the area commute in to find jobs.

<sup>5</sup> Contributions for government social insurance consist of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans' life insurance; publicly-administered workers' compensation; military medical insurance; and temporary disability insurance.

<sup>6</sup> Earnings by place of work differs from total personal income by the exclusion of dividends, interest, and rent, as well as adjustments to account for net transfer payments (e.g., unemployment benefits and Social Security taxes and payments) and the residential adjustment.

<sup>7</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>8</sup> (L) Less than \$50,000, but the estimates for this item are included in the totals.

<sup>9</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

	Elmore, ID	Fremont, ID <sup>1</sup>	Gem, ID	Gooding, ID	Jefferson, ID	Jerome, ID	Lemhi, ID	Lincoln, ID	Madison, ID	Minidoka, ID	Oneida, ID
Educational services	\$4.2	(D)	(D)	\$0.1	(D)	\$1.9	\$0.2	(D)	(D)	(D)	(L)
Health care and social assistance	\$18.6	(D)	(D)	(D)	(D)	\$20.8	\$8.8	(D)	(D)	(D)	\$1.5
Arts, entertainment, and recreation	\$1.0	\$0.8	\$0.7	\$1.8	\$2.7	\$4.8	\$2.1	(D)	\$3.8	\$1.8	(D)
Accommodation and food services	\$13.3	\$5.0	\$3.5	\$3.6	\$3.3	\$5.8	\$4.5	(D)	\$15.2	\$7.8	(D)
Other services, except public administration	\$15.2	\$8.1	\$8.1	\$12.6	\$14.2	\$16.1	\$9.0	(D)	\$17.8	\$12.9	\$1.8
Federal government	\$424.4	\$9.8	\$10.3	\$8.8	\$8.4	\$8.1	\$20.7	\$8.8	\$11.6	\$8.8	\$2.4
State government	\$3.3	\$19.0	\$1.4	\$5.1	\$7.2	\$3.8	\$5.3	\$5.5	\$2.6	\$2.6	\$0.6
Local government	\$54.9	\$25.1	\$28.8	\$33.8	\$39.4	\$34.8	\$21.2	\$10.6	\$77.7	\$50.6	\$13.9
Categories for which data were not disclosed	\$3.0	\$22.1	\$31.3	\$24.5	\$28.1	\$28.0	\$3.6	\$26.6	\$201.7	\$24.2	\$9.4

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

**Table 3. Labor Income Levels by Industry Sector and County and Non-Labor Income Levels by County in 2010, presented in 2010 dollars (millions) (continued)**

	Owyhee, ID	Payette, ID	Power, ID	Twin Falls, ID	Washington, ID	Beaverhead, MT	Gallatin, MT	Madison, MT	Silver Bow, MT
Population	11,491	22,635	7,867	77,490	10,217	9,256	89,616	7,698	34,233
Non-labor income <sup>1</sup>	\$115.4	\$258.8	\$79.8	\$963.4	\$136.4	\$156.7	\$1,180.3	\$133.0	\$514.7
Dividends, interest, and rent	\$48.6	\$100.4	\$33.4	\$417.3	\$53.0	\$84.0	\$781.4	\$79.1	\$225.6
Personal current transfer receipts <sup>2</sup>	\$66.8	\$158.4	\$46.4	\$546.1	\$83.4	\$72.7	\$398.9	\$54.0	\$289.1
Adjustment for residence <sup>3</sup>	\$55.4	\$95.6	-\$10.6	\$1.2	\$34.7	-\$0.3	-\$15.0	-\$1.1	-\$13.0
Contributions for government social insurance <sup>4</sup>	\$15.1	\$40.9	\$20.4	\$200.8	\$17.5	\$22.7	\$299.7	\$23.4	\$114.3
Total personal income by place of residence	\$331.7	\$607.1	\$193.1	\$2,407.5	\$273.8	\$307.6	\$3,222.0	\$271.5	\$1,256.6
Earnings by place of work <sup>5</sup>	\$176.0	\$293.6	\$144.3	\$1,643.7	\$120.2	\$173.9	\$2,356.3	\$163.0	\$869.2
<b>Total earnings by place of work by sector<sup>6,7</sup></b>									
Farm	\$82.6	\$24.5	\$14.0	\$179.5	\$8.7	\$9.2	\$26.8	\$3.1	-\$0.1
Forestry, fishing, & related activities <sup>8</sup>	(D)	(D)	\$3.8	\$32.1	\$4.5	(D)	\$10.1	\$2.0	(D)
Mining (including oil and gas)	(D)	(D)	(L)	\$1.0	(L)	(D)	\$15.5	\$4.3	\$74.4
Utilities	(D)	\$9.7	(D)	\$20.6	(D)	(D)	\$11.4	\$1.1	(D)
Construction	\$9.4	\$22.8	\$2.6	\$77.3	\$5.0	\$10.7	\$256.6	\$19.7	\$35.7
Manufacturing	\$10.5	\$48.3	\$47.5	\$169.2	\$16.4	\$0.6	\$131.9	\$1.1	\$40.4
Wholesale trade	\$5.7	\$10.6	(D)	\$70.3	\$6.1	\$5.5	\$98.4	\$1.4	\$23.9
Retail trade	\$6.3	\$13.1	\$4.2	\$161.8	\$8.5	\$12.5	\$247.4	\$8.0	\$93.8
Transportation and warehousing	(D)	\$13.2	\$13.0	\$74.7	(D)	(D)	\$45.6	\$5.2	(D)
Information	\$1.0	(D)	(D)	\$27.0	\$4.7	\$1.6	\$31.9	\$0.3	\$20.4
Finance and insurance	(D)	\$8.3	\$1.9	\$63.6	\$2.4	\$9.5	\$105.2	\$5.6	\$21.9
Real estate and rental and leasing	(D)	\$3.5	\$0.6	\$17.6	\$0.9	\$11.3	\$56.8	\$9.8	\$7.8
Professional and technical services	(D)	(D)	\$1.8	\$88.6	\$4.6	\$4.6	\$269.9	(D)	\$54.1
Management of companies and enterprises	(D)	(D)	(D)	\$8.2	(D)	\$0.0	\$9.1	(D)	(D)
Administrative and waste services	\$3.9	\$8.2	(D)	\$53.0	(D)	\$2.0	\$51.5	\$4.4	(D)
Educational services	(D)	(D)	(D)	\$6.2	(D)	(D)	\$15.8	\$0.6	\$3.8

<sup>1</sup> Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>2</sup> Personal current transfer receipts are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>3</sup> Residence adjustment represents the net inflow of the earnings of inter-area commuters. A positive number indicates that, on balance, area residents commute outside to find jobs; a negative number indicates that, on balance, people from outside the area commute in to find jobs.

<sup>4</sup> Contributions for government social insurance consist of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans' life insurance; publicly-administered workers' compensation; military medical insurance; and temporary disability insurance.

<sup>5</sup> Earnings by place of work differs from total personal income by the exclusion of dividends, interest, and rent, as well as adjustments to account for net transfer payments (e.g., unemployment benefits and Social Security taxes and payments) and the residential adjustment.

<sup>6</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.



<sup>7</sup> (L) Less than \$50,000, but the estimates for this item are included in the totals.

<sup>8</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

	Owyhee, ID	Payette, ID	Power, ID	Twin Falls, ID	Washington, ID	Beaverhead, MT	Gallatin, MT	Madison, MT	Silver Bow, MT
Health care and social assistance	(D)	(D)	\$2.1	\$246.4	(D)	(D)	\$226.9	\$7.7	\$134.8
Arts, entertainment, and recreation	\$0.3	\$0.8	(D)	\$6.7	\$0.9	\$1.7	\$45.4	\$23.7	\$10.9
Accommodation and food services	\$2.3	\$3.8	(D)	\$47.9	\$2.2	\$7.6	\$119.7	\$27.0	\$35.3
Other services, except public administration	\$4.6	\$16.8	\$4.8	\$64.3	\$4.3	\$6.9	\$94.2	\$6.2	\$32.2
Federal government	\$6.3	\$6.8	\$3.3	\$51.9	\$5.9	\$19.4	\$83.1	\$6.4	\$35.3
State government	\$1.4	\$4.2	\$2.4	\$23.3	\$1.1	\$16.8	\$259.8	\$0.7	\$63.1
Local government	\$22.7	\$36.6	\$23.2	\$152.5	\$26.2	\$15.6	\$143.4	\$18.6	\$62.7
Categories for which data were not disclosed	\$18.9	\$62.4	\$19.2	\$0.0	\$17.8	\$38.6	\$0.0	\$5.9	\$118.7

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

**Table 3. Labor Income Levels by Industry Sector and County and Non-Labor Income Levels by County in 2010, presented in 2010 dollars (millions) (continued)**

	Ada, ID <sup>1</sup>	Bannock, ID	Boise, ID	Canyon, ID	Deer Lodge, MT	Park, MT
Population	393,466	83,020	7,017	189,410	9,297	15,587
Non-labor income <sup>2</sup>	\$4,788.3	\$902.9	\$88.3	\$1,828.7	\$133.8	\$259.9
Dividends, interest, and rent	\$2,581.4	\$332.0	\$41.5	\$612.8	\$47.7	\$150.8
Personal current transfer receipts <sup>3</sup>	\$2,206.9	\$570.9	\$46.8	\$1,215.9	\$86.1	\$109.2
Adjustment for residence <sup>4</sup>	-\$616.9	\$96.9	\$111.0	\$379.8	\$20.2	\$66.8
Contributions for government social insurance <sup>5</sup>	\$1,529.0	\$213.1	\$8.8	\$334.0	\$21.3	\$34.5
Total personal income by place of residence	\$15,234.3	\$2,373.5	\$252.9	\$4,304.0	\$276.1	\$534.9
Earnings by place of work <sup>6</sup>	\$12,591.9	\$1,586.7	\$62.3	\$2,429.5	\$143.4	\$242.7
<b>Total earnings by place of work by sector<sup>7,8</sup></b>						
Farm	\$46.6	\$9.8	\$0.4	\$135.4	-\$0.5	\$2.4
Forestry, fishing, & related activities <sup>9</sup>	\$11.6	(D)	(D)	\$31.1	(D)	(D)
Mining (including oil and gas)	\$14.2	(D)	(D)	\$1.2	(D)	(D)
Utilities	\$120.9	\$11.6	(D)	\$14.4	(D)	\$4.1
Construction	\$910.3	\$110.4	\$3.1	\$175.1	\$15.8	\$20.5
Manufacturing	\$1,443.6	\$133.5	\$0.6	\$327.4	\$4.8	\$13.5
Wholesale trade	\$651.8	\$56.6	(D)	\$131.8	(D)	\$2.2
Retail trade	\$889.8	\$126.1	\$2.5	\$231.9	\$9.3	\$21.0
Transportation and warehousing	\$262.1	\$87.7	\$2.5	\$129.7	\$1.8	\$8.2
Information	\$235.9	\$21.2	(D)	\$29.6	\$0.6	\$4.0
Finance and insurance	\$714.8	\$79.7	(D)	\$64.8	\$3.3	\$10.5
Real estate and rental and leasing	\$189.5	\$16.3	(D)	\$25.4	\$1.5	\$6.7
Professional and technical services	\$1,257.3	\$73.4	(D)	\$95.8	(D)	\$11.6
Management of companies and enterprises	\$436.5	\$12.6	(D)	\$18.1	(D)	(D)
Administrative and waste services	\$757.3	\$64.0	\$2.6	\$77.4	\$9.7	(D)

<sup>1</sup> Ada, Bannock, Boise, and Canyon Counties in Idaho and Deer Lodge and Park Counties in Montana constitute a secondary study area, as documented in the Chapter 3 text.

<sup>2</sup> Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>3</sup> Personal current transfer receipts are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>4</sup> Residence adjustment represents the net inflow of the earnings of inter-area commuters. A positive number indicates that, on balance, area residents commute outside to find jobs; a negative number indicates that, on balance, people from outside the area commute in to find jobs.

<sup>5</sup> Contributions for government social insurance consist of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans' life insurance; publicly-administered workers' compensation; military medical insurance; and temporary disability insurance.

<sup>6</sup> Earnings by place of work differs from total personal income by the exclusion of dividends, interest, and rent, as well as adjustments to account for net transfer payments (e.g., unemployment benefits and Social Security taxes and payments) and the residential adjustment.

<sup>7</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>8</sup> (L) Less than \$50,000, but the estimates for this item are included in the totals.

<sup>9</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

	Ada, ID <sup>1</sup>	Bannock, ID	Boise, ID	Canyon, ID	Deer Lodge, MT	Park, MT
Educational services	\$104.6	\$7.5	\$0.2	\$48.1	\$0.6	\$3.8
Health care and social assistance	\$1,694.2	\$246.1	\$1.9	\$284.5	\$25.6	\$31.1
Arts, entertainment, and recreation	\$125.1	\$7.9	\$8.0	\$7.0	\$3.2	\$4.4
Accommodation and food services	\$331.3	\$53.5	\$2.6	\$55.1	\$7.5	\$27.7
Other services, except public administration	\$409.2	\$64.3	\$2.5	\$105.3	\$5.0	\$17.5
Federal government	\$637.7	\$69.2	\$15.9	\$68.1	\$9.0	\$9.5
State government	\$635.3	\$193.5	\$0.9	\$47.5	(D)	\$2.9
Local government	\$712.4	\$140.1	\$11.4	\$324.8	(D)	\$28.3
Categories for which data were not disclosed	\$0.0	\$1.6	\$7.2	\$0.0	\$46.3	\$12.7

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

**Table 4. Labor Income Percentages by Industry Sector and County and Non-Labor Income Percentages by County in 2010**

	Adams, ID	Bear Lake, ID	Bingham, ID	Blaine, ID	Bonneville, ID	Butte, ID	Camas, ID	Caribou, ID	Cassia, ID	Clark, ID	Custer, ID
Population	3,954	5,975	45,742	21,334	104,622	2,899	1,108	6,982	23,091	980	4,370
Non-labor income as a proportion of total personal income <sup>1</sup>	56.2%	40.7%	38.2%	55.8%	34.4%	36.5%	32.6%	38.0%	36.8%	21.4%	45.2%
Dividends, interest, and rent as a proportion of total personal income	28.9%	15.4%	15.8%	48.1%	16.7%	14.0%	17.7%	17.5%	16.1%	9.1%	24.8%
Personal current transfer receipts as a proportion of total personal income <sup>2</sup>	27.3%	25.4%	22.4%	7.7%	17.6%	22.5%	14.9%	20.5%	20.7%	12.3%	20.5%
Adjustment for residence as a proportion of total personal income <sup>3</sup>	4.3%	18.2%	7.4%	-1.0%	8.1%	-701.3%	16.2%	-22.1%	-5.3%	-4.4%	-7.5%
Contributions for government social insurance as a proportion of total personal income <sup>4</sup>	6.4%	6.4%	7.9%	6.4%	8.1%	112.3%	5.9%	11.7%	8.0%	9.3%	8.1%
Total personal income by place of residence (\$ millions)	\$109.9	\$172.9	\$1,203.0	\$1,362.9	\$3,626.9	\$93.3	\$38.5	\$215.3	\$725.2	\$38.9	\$142.1
Earnings by place of work (\$ millions) <sup>5</sup>	\$50.5	\$82.0	\$749.5	\$702.7	\$2,381.9	\$818.8	\$21.9	\$206.2	\$555.0	\$35.9	\$100.0
<b>Total earnings by place of work by sector<sup>6,7</sup></b>											
Farm	-2.1%	7.8%	5.3%	1.4%	1.7%	1.3%	29.5%	5.6%	28.2%	31.6%	9.5%
Forestry, fishing, & related activities <sup>8</sup>	6.4%	(D)	(D)	0.2%	(D)	(D)	(D)	(D)	2.3%	(D)	(D)
Mining (including oil and gas)	(L)	(D)	(D)	0.3%	(D)	(L)	(L)	12.7%	0.7%	(L)	(D)
Utilities	(D)	(D)	0.9%	0.4%	0.1%	0.0%	0.0%	1.5%	0.7%	(L)	2.6%
Construction	5.1%	2.9%	6.8%	13.3%	8.8%	0.2%	(D)	(D)	3.7%	(D)	3.5%
Manufacturing	4.1%	3.2%	16.9%	4.3%	4.3%	0.2%	(D)	(D)	10.9%	(D)	0.3%
Wholesale trade	1.7%	3.9%	11.2%	1.7%	11.2%	(D)	(D)	2.1%	3.9%	(D)	1.0%
Retail trade	16.2%	8.5%	4.9%	8.4%	10.3%	0.3%	(D)	3.4%	7.8%	(D)	4.5%
Transportation and warehousing	(D)	(D)	2.7%	1.4%	3.9%	(D)	(L)	1.6%	6.7%	(D)	0.9%
Information	0.6%	0.5%	0.2%	3.2%	2.2%	(D)	(L)	0.3%	1.1%	(D)	1.9%
Finance and insurance	2.7%	2.0%	2.3%	4.6%	3.4%	0.1%	(D)	1.0%	1.8%	4.8%	0.9%
Real estate and rental and leasing	1.2%	0.6%	0.8%	3.8%	1.9%	0.0%	0.5%	1.3%	0.4%	(L)	0.6%
Professional and technical services	6.6%	(D)	(D)	13.8%	9.1%	93.5%	3.1%	2.8%	2.6%	(D)	2.5%
Management of companies and enterprises	0.0%	0.0%	(D)	(D)	0.2%	(D)	(D)	(D)	(D)	0.0%	(D)

<sup>1</sup> Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>2</sup> Personal current transfer receipts are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>3</sup> Residence adjustment represents the net inflow of the earnings of inter-area commuters. A positive number indicates that, on balance, area residents commute outside to find jobs; a negative number indicates that, on balance, people from outside the area commute in to find jobs.

<sup>4</sup> Contributions for government social insurance consist of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans' life insurance; publicly-administered workers' compensation; military medical insurance; and temporary disability insurance.

<sup>5</sup> Earnings by place of work differs from total personal income by the exclusion of dividends, interest, and rent, as well as adjustments to account for net transfer payments (e.g., unemployment benefits and Social Security taxes and payments) and the residential adjustment.

<sup>6</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>7</sup> (L) Less than \$50,000, but the estimates for this item are included in the totals.

<sup>8</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

	<b>Adams, ID</b>	<b>Bear Lake, ID</b>	<b>Bingham, ID</b>	<b>Blaine, ID</b>	<b>Bonneville, ID</b>	<b>Butte, ID</b>	<b>Camas, ID</b>	<b>Caribou, ID</b>	<b>Cassia, ID</b>	<b>Clark, ID</b>	<b>Custer, ID</b>
Administrative and waste services	1.9%	(D)	1.9%	(D)	3.8%	(D)	(D)	(D)	(D)	(D)	(D)
Educational services	(D)	(D)	0.3%	0.9%	0.3%	(D)	(D)	(D)	(D)	(D)	(L)
Health care and social assistance	(D)	(D)	9.7%	7.2%	16.6%	(D)	(D)	(D)	(D)	(D)	2.0%
Arts, entertainment, and recreation	6.3%	0.7%	0.3%	3.0%	0.5%	(L)	(D)	0.2%	0.4%	(L)	3.5%
Accommodation and food services	2.5%	3.7%	1.3%	10.9%	3.0%	0.1%	(D)	1.2%	1.1%	(D)	4.8%
Other services, except public administration	4.8%	4.7%	4.5%	4.7%	4.5%	(D)	(D)	2.1%	3.1%	0.8%	1.8%
Federal government	17.9%	6.7%	3.7%	1.9%	4.4%	2.0%	10.1%	2.5%	3.3%	10.0%	13.2%
State government	(D)	1.4%	2.6%	0.3%	1.5%	0.1%	(D)	0.6%	1.8%	(D)	2.5%
Local government	(D)	29.4%	17.4%	10.1%	7.9%	0.6%	(D)	11.8%	8.8%	(D)	8.9%
Categories for which data were not disclosed	23.8%	23.8%	6.4%	4.3%	0.4%	1.6%	56.9%	49.3%	10.7%	52.7%	35.2%

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.



**Table 4. Labor Income Percentages by Industry Sector and County and Non-Labor Income Percentages by County in 2010 (continued)**

	Elmore, ID	Fremont, ID <sup>1</sup>	Gem, ID	Gooding, ID	Jefferson, ID	Jerome, ID	Lemhi, ID	Lincoln, ID	Madison, ID	Minidoka, ID	Oneida, ID
Population	27,080	13,248	16,669	15,500	26,215	22,461	7,957	5,214	37,602	20,082	4,294
Non-labor income as a proportion of total personal income <sup>2</sup>	28.9%	45.0%	46.7%	30.7%	30.1%	31.6%	56.5%	33.1%	39.0%	37.4%	40.6%
Dividends, interest, and rent as a proportion of total personal income	12.1%	20.0%	17.6%	13.5%	11.6%	12.6%	26.5%	11.5%	15.1%	15.2%	15.3%
Personal current transfer receipts as a proportion of total personal income <sup>3</sup>	16.8%	25.1%	29.2%	17.2%	18.6%	19.0%	30.1%	21.6%	23.9%	22.2%	25.2%
Adjustment for residence as a proportion of total personal income <sup>4</sup>	1.8%	19.1%	25.8%	4.7%	27.8%	0.8%	0.4%	2.3%	-6.6%	8.1%	18.1%
Contributions for government social insurance as a proportion of total personal income <sup>5</sup>	7.4%	5.8%	4.7%	6.0%	5.0%	8.0%	6.5%	6.1%	9.9%	7.0%	5.0%
Total personal income by place of residence (\$ millions)	\$909.7	\$315.3	\$462.5	\$574.3	\$687.9	\$656.2	\$244.0	\$144.4	\$701.3	\$569.8	\$114.7
Earnings by place of work (\$ millions) <sup>6</sup>	\$698.1	\$131.4	\$148.9	\$405.4	\$324.4	\$496.4	\$120.9	\$102.0	\$543.0	\$350.3	\$53.1
<b>Total earnings by place of work by sector<sup>7,8</sup></b>											
Farm	6.6%	-1.1%	6.3%	47.3%	19.9%	28.0%	2.6%	46.0%	-1.1%	24.1%	27.8%
Forestry, fishing, & related activities <sup>9</sup>	(D)	(D)	(D)	(D)	4.2%	4.6%	(D)	(D)	(D)	(D)	(D)
Mining (including oil and gas)	(D)	(D)	(D)	(D)	(L)	(L)	(D)	(L)	(D)	(D)	(D)
Utilities	0.7%	(D)	(L)	0.9%	0.7%	(D)	(D)	(D)	(D)	1.6%	(L)
Construction	2.3%	11.1%	7.8%	2.3%	9.4%	4.8%	10.0%	(D)	4.9%	4.5%	2.0%
Manufacturing	2.1%	2.1%	5.9%	10.4%	14.0%	12.4%	3.1%	(D)	8.2%	17.6%	1.0%
Wholesale trade	0.6%	(D)	4.7%	2.7%	4.2%	(D)	1.7%	(D)	7.8%	8.1%	2.2%
Retail trade	4.2%	6.4%	6.7%	2.6%	5.2%	6.6%	8.3%	2.1%	8.0%	4.1%	4.6%
Transportation and warehousing	1.7%	5.4%	5.3%	7.2%	5.1%	12.5%	(D)	1.5%	(D)	3.7%	6.3%
Information	0.6%	(D)	0.2%	0.1%	0.7%	0.8%	0.6%	(D)	0.4%	1.3%	0.4%
Finance and insurance	1.2%	1.9%	2.3%	0.9%	1.8%	0.9%	1.6%	(D)	2.5%	1.3%	(D)
Real estate and rental and leasing	0.3%	2.1%	1.0%	0.5%	2.0%	0.9%	1.1%	(D)	1.4%	0.6%	(D)

<sup>1</sup> Fremont County includes Yellowstone Park.

<sup>2</sup> Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>3</sup> Personal current transfer receipts are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>4</sup> Residence adjustment represents the net inflow of the earnings of inter-area commuters. A positive number indicates that, on balance, area residents commute outside to find jobs; a negative number indicates that, on balance, people from outside the area commute in to find jobs.

<sup>5</sup> Contributions for government social insurance consist of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans' life insurance; publicly-administered workers' compensation; military medical insurance; and temporary disability insurance.

<sup>6</sup> Earnings by place of work differs from total personal income by the exclusion of dividends, interest, and rent, as well as adjustments to account for net transfer payments (e.g., unemployment benefits and Social Security taxes and payments) and the residential adjustment.

<sup>7</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>8</sup> (L) Less than \$50,000, but the estimates for this item are included in the totals.

<sup>9</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

	Elmore, ID	Fremont, ID <sup>1</sup>	Gem, ID	Gooding, ID	Jefferson, ID	Jerome, ID	Lemhi, ID	Lincoln, ID	Madison, ID	Minidoka, ID	Oneida, ID
Professional and technical services	1.2%	2.1%	3.2%	2.4%	(D)	2.1%	5.5%	(D)	7.1%	1.9%	(D)
Management of companies and enterprises	(L)	0.0%	(D)	0.4%	(D)	0.2%	1.2%	0.0%	(D)	(L)	0.0%
Administrative and waste services	1.5%	1.6%	(D)	0.1%	1.1%	1.1%	2.0%	(D)	(D)	0.2%	(D)
Educational services	0.6%	(D)	(D)	0.0%	(D)	0.4%	0.1%	(D)	(D)	(D)	(L)
Health care and social assistance	2.7%	(D)	(D)	(D)	(D)	4.2%	7.3%	(D)	(D)	(D)	2.8%
Arts, entertainment, and recreation	0.1%	0.6%	0.4%	0.4%	0.8%	1.0%	1.7%	(D)	0.7%	0.5%	(D)
Accommodation and food services	1.9%	3.8%	2.4%	0.9%	1.0%	1.2%	3.7%	(D)	2.8%	2.2%	(D)
Other services, except public administration	2.2%	6.2%	5.4%	3.1%	4.4%	3.3%	7.4%	(D)	3.3%	3.7%	3.4%
Federal government	60.8%	7.4%	6.9%	2.2%	2.6%	1.6%	17.1%	8.6%	2.1%	2.5%	4.5%
State government	0.5%	14.5%	0.9%	1.3%	2.2%	0.8%	4.4%	5.4%	0.5%	0.7%	1.1%
Local government	7.9%	19.1%	19.4%	8.3%	12.1%	7.0%	17.5%	10.4%	14.3%	14.5%	26.2%
Categories for which data were not disclosed	0.4%	16.8%	21.0%	6.0%	8.7%	5.6%	3.0%	26.1%	37.1%	6.9%	17.8%

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

**Table 4. Labor Income Percentages by Industry Sector and County and Non-Labor Income Percentages by County in 2010 (continued)**

	Owyhee, ID	Payette, ID	Power, ID	Twin Falls, ID	Washington, ID	Beaverhead, MT	Gallatin, MT	Madison, MT	Silver Bow, MT
Population	11,491	22,635	7,867	77,490	10,217	9,256	89,616	7,698	34,233
Non-labor income as a proportion of total personal income <sup>1</sup>	34.8%	42.6%	41.3%	40.0%	49.8%	50.9%	36.6%	49.0%	41.0%
Dividends, interest, and rent as a proportion of total personal income	14.7%	16.5%	17.3%	17.3%	19.4%	27.3%	24.3%	29.1%	18.0%
Personal current transfer receipts as a proportion of total personal income <sup>2</sup>	20.1%	26.1%	24.0%	22.7%	30.5%	23.6%	12.4%	19.9%	23.0%
Adjustment for residence as a proportion of total personal income <sup>3</sup>	16.7%	15.8%	-5.5%	0.1%	12.7%	-0.1%	-0.5%	-0.4%	-1.0%
Contributions for government social insurance as a proportion of total personal income <sup>4</sup>	4.6%	6.7%	10.6%	8.3%	6.4%	7.4%	9.3%	8.6%	9.1%
Total personal income by place of residence (\$ millions)	\$331.7	\$607.1	\$193.1	\$2,407.5	\$273.8	\$307.6	\$3,222.0	\$271.5	\$1,256.6
Earnings by place of work (\$ millions) <sup>5</sup>	\$176.0	\$293.6	\$144.3	\$1,643.7	\$120.2	\$173.9	\$2,356.3	\$163.0	\$869.2
<b>Total earnings by place of work by sector<sup>6,7</sup></b>									
Farm	46.9%	8.4%	9.7%	10.9%	7.2%	5.3%	1.1%	1.9%	0.0%
Forestry, fishing, & related activities <sup>8</sup>	(D)	(D)	2.6%	2.0%	3.8%	(D)	0.4%	1.2%	(D)
Mining (including oil and gas)	(D)	(D)	(L)	0.1%	(L)	(D)	0.7%	2.7%	8.6%
Utilities	(D)	3.3%	(D)	1.3%	(D)	(D)	0.5%	0.7%	(D)
Construction	5.4%	7.8%	1.8%	4.7%	4.1%	6.1%	10.9%	12.1%	4.1%
Manufacturing	6.0%	16.4%	32.9%	10.3%	13.6%	0.4%	5.6%	0.6%	4.6%
Wholesale trade	3.2%	3.6%	(D)	4.3%	5.1%	3.2%	4.2%	0.9%	2.8%
Retail trade	3.6%	4.5%	2.9%	9.8%	7.1%	7.2%	10.5%	4.9%	10.8%
Transportation and warehousing	(D)	4.5%	9.0%	4.5%	(D)	(D)	1.9%	3.2%	(D)
Information	0.6%	(D)	(D)	1.6%	3.9%	0.9%	1.4%	0.2%	2.4%
Finance and insurance	(D)	2.8%	1.3%	3.9%	2.0%	5.5%	4.5%	3.4%	2.5%
Real estate and rental and leasing	(D)	1.2%	0.4%	1.1%	0.7%	6.5%	2.4%	6.0%	0.9%
Professional and technical services	(D)	(D)	1.3%	5.4%	3.8%	2.6%	11.5%	(D)	6.2%
Management of companies and enterprises	(D)	(D)	(D)	0.5%	(D)	0.0%	0.4%	(D)	(D)

<sup>1</sup> Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>2</sup> Personal current transfer receipts are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>3</sup> Residence adjustment represents the net inflow of the earnings of inter-area commuters. A positive number indicates that, on balance, area residents commute outside to find jobs; a negative number indicates that, on balance, people from outside the area commute in to find jobs.

<sup>4</sup> Contributions for government social insurance consist of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans' life insurance; publicly-administered workers' compensation; military medical insurance; and temporary disability insurance.

<sup>5</sup> Earnings by place of work differs from total personal income by the exclusion of dividends, interest, and rent, as well as adjustments to account for net transfer payments (e.g., unemployment benefits and Social Security taxes and payments) and the residential adjustment.

<sup>6</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>7</sup> (L) Less than \$50,000, but the estimates for this item are included in the totals.

<sup>8</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.

	Owyhee, ID	Payette, ID	Power, ID	Twin Falls, ID	Washington, ID	Beaverhead, MT	Gallatin, MT	Madison, MT	Silver Bow, MT
Administrative and waste services	2.2%	2.8%	(D)	3.2%	(D)	1.1%	2.2%	2.7%	(D)
Educational services	(D)	(D)	(D)	0.4%	(D)	(D)	0.7%	0.4%	0.4%
Health care and social assistance	(D)	(D)	1.5%	15.0%	(D)	(D)	9.6%	4.7%	15.5%
Arts, entertainment, and recreation	0.2%	0.3%	(D)	0.4%	0.8%	1.0%	1.9%	14.5%	1.3%
Accommodation and food services	1.3%	1.3%	(D)	2.9%	1.8%	4.4%	5.1%	16.6%	4.1%
Other services, except public administration	2.6%	5.7%	3.3%	3.9%	3.6%	4.0%	4.0%	3.8%	3.7%
Federal government	3.6%	2.3%	2.3%	3.2%	4.9%	11.1%	3.5%	3.9%	4.1%
State government	0.8%	1.4%	1.6%	1.4%	0.9%	9.6%	11.0%	0.4%	7.3%
Local government	12.9%	12.5%	16.1%	9.3%	21.8%	9.0%	6.1%	11.4%	7.2%
Categories for which data were not disclosed	10.7%	21.3%	13.3%	0.0%	14.8%	22.2%	0.0%	3.6%	13.7%

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

**Table 4. Labor Income Percentages by Industry Sector and County and Non-Labor Income Percentages by County in 2010 (continued)**

	Ada, ID <sup>1</sup>	Bannock, ID	Boise, ID	Canyon, ID	Deer Lodge, MT	Park, MT
Population	393,466	83,020	7,017	189,410	9,297	15,587
Non-labor income as a proportion of total personal income <sup>2</sup>	31.4%	38.0%	34.9%	42.5%	48.5%	48.6%
Dividends, interest, and rent as a proportion of total personal income	16.9%	14.0%	16.4%	14.2%	17.3%	28.2%
Personal current transfer receipts as a proportion of total personal income <sup>3</sup>	14.5%	24.1%	18.5%	28.3%	31.2%	20.4%
Adjustment for residence as a proportion of total personal income <sup>4</sup>	-4.0%	4.1%	43.9%	8.8%	7.3%	12.5%
Contributions for government social insurance as a proportion of total personal income <sup>5</sup>	10.0%	9.0%	3.5%	7.8%	7.7%	6.4%
Total personal income by place of residence (\$ millions)	\$15,234.3	\$2,373.5	\$252.9	\$4,304.0	\$276.1	\$534.9
Earnings by place of work (\$ millions) <sup>6</sup>	\$12,591.9	\$1,586.7	\$62.3	\$2,429.5	\$143.4	\$242.7
<b>Total earnings by place of work by sector<sup>7,8</sup></b>						
Farm	0.4%	0.6%	0.7%	5.6%	-0.3%	1.0%
Forestry, fishing, & related activities <sup>9</sup>	0.1%	(D)	(D)	1.3%	(D)	(D)
Mining (including oil and gas)	0.1%	(D)	(D)	0.1%	(D)	(D)
Utilities	1.0%	0.7%	(D)	0.6%	(D)	1.7%
Construction	7.2%	7.0%	4.9%	7.2%	11.0%	8.5%
Manufacturing	11.5%	8.4%	1.0%	13.5%	3.3%	5.6%
Wholesale trade	5.2%	3.6%	(D)	5.4%	(D)	0.9%
Retail trade	7.1%	7.9%	4.0%	9.5%	6.5%	8.7%
Transportation and warehousing	2.1%	5.5%	4.0%	5.3%	1.2%	3.4%
Information	1.9%	1.3%	(D)	1.2%	0.4%	1.6%
Finance and insurance	5.7%	5.0%	(D)	2.7%	2.3%	4.3%
Real estate and rental and leasing	1.5%	1.0%	(D)	1.0%	1.0%	2.8%
Professional and technical services	10.0%	4.6%	(D)	3.9%	(D)	4.8%

<sup>1</sup> Ada, Bannock, Boise, and Canyon Counties in Idaho and Deer Lodge and Park Counties in Montana constitute a secondary study area, as documented in the Chapter 3 text.

<sup>2</sup> Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>3</sup> Personal current transfer receipts are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>4</sup> Residence adjustment represents the net inflow of the earnings of inter-area commuters. A positive number indicates that, on balance, area residents commute outside to find jobs; a negative number indicates that, on balance, people from outside the area commute in to find jobs.

<sup>5</sup> Contributions for government social insurance consist of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans' life insurance; publicly-administered workers' compensation; military medical insurance; and temporary disability insurance.

<sup>6</sup> Earnings by place of work differs from total personal income by the exclusion of dividends, interest, and rent, as well as adjustments to account for net transfer payments (e.g., unemployment benefits and Social Security taxes and payments) and the residential adjustment.

<sup>7</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>8</sup> (L) Less than \$50,000, but the estimates for this item are included in the totals.

<sup>9</sup> "Related activities" includes hunting and trapping, as well as agricultural services such as custom tillage.



	Ada, ID <sup>1</sup>	Bannock, ID	Boise, ID	Canyon, ID	Deer Lodge, MT	Park, MT
Management of companies and enterprises	3.5%	0.8%	(D)	0.7%	(D)	(D)
Administrative and waste services	6.0%	4.0%	4.2%	3.2%	6.7%	(D)
Educational services	0.8%	0.5%	0.2%	2.0%	0.4%	1.6%
Health care and social assistance	13.5%	15.5%	3.0%	11.7%	17.9%	12.8%
Arts, entertainment, and recreation	1.0%	0.5%	12.9%	0.3%	2.2%	1.8%
Accommodation and food services	2.6%	3.4%	4.1%	2.3%	5.2%	11.4%
Other services, except public administration	3.2%	4.1%	4.1%	4.3%	3.5%	7.2%
Federal government	5.1%	4.4%	25.5%	2.8%	6.2%	3.9%
State government	5.0%	12.2%	1.4%	2.0%	(D)	1.2%
Local government	5.7%	8.8%	18.3%	13.4%	(D)	11.7%
Categories for which data were not disclosed	0.0%	0.1%	11.5%	0.0%	32.3%	5.2%

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.

**Table 5. Employment Trends by Select Industry Sector and County, 2001-2009<sup>1,2</sup>**

	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Mining</b>									
Adams, ID	(D)	(L)	11	10	(L)	11	16	32	30
Bear Lake, ID	12	(L)	11	(D)	(D)	(D)	(D)	(D)	30
Bingham, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Blaine, ID	139	109	(D)	99	95	112	139	104	87
Bonneville, ID	(D)	47	(D)	48	(D)	(D)	(D)	(D)	180
Butte, ID	12	(L)	12	10	(L)	11	17	36	33
Camas, ID	0	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)
Caribou, ID	340	358	(D)	(D)	350	361	377	352	319
Cassia, ID	131	121	129	173	217	204	187	166	114
Clark, ID	(D)	(D)	12	10	(L)	11	17	36	33
Custer, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Elmore, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fremont, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gem, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gooding, ID	12	(L)	12	10	(D)	(D)	(D)	(D)	(D)
Jefferson, ID	12	(L)	12	10	(L)	11	(D)	(D)	(D)
Jerome, ID	12	(L)	12	10	(L)	11	17	36	33
Lemhi, ID	(D)	(D)	25	(D)	(D)	(D)	(D)	(D)	(D)
Lincoln, ID	12	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)
Madison, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Minidoka, ID	12	(L)	12	10	(D)	(D)	(D)	(D)	(D)
Oneida, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Owyhee, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Payette, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Power, ID	12	(L)	12	10	(L)	11	17	36	33
Twin Falls, ID	(D)	67	80	63	64	72	105	107	75
Washington, ID	12	(L)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Beaverhead, MT	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gallatin, MT	172	129	134	136	186	349	413	429	335
Madison, MT	59	57	51	43	59	102	114	138	114
Silver Bow, MT	(D)	202	195	(D)	(D)	481	473	466	(D)
<b>Socioeconomic Study Area</b>	<b>949</b>	<b>1,090</b>	<b>720</b>	<b>642</b>	<b>971</b>	<b>1,747</b>	<b>1,892</b>	<b>1,938</b>	<b>1,416</b>

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<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than 10 jobs, but the estimates for this item are included in the totals.

	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Farming<sup>1</sup></b>									
Adams, ID	356	355	332	309	291	269	253	253	254
Bear Lake, ID	526	516	506	499	498	490	488	492	489
Bingham, ID	2,450	2,532	2,400	2,361	2,292	2,259	2,187	2,234	2,178
Blaine, ID	463	503	444	406	361	325	284	293	284
Bonneville, ID	1,483	1,527	1,418	1,363	1,301	1,250	1,197	1,214	1,195
Butte, ID	295	290	278	276	271	269	265	270	265
Camas, ID	128	131	127	129	132	134	135	137	135
Caribou, ID	761	797	720	676	626	582	539	549	540
Cassia, ID	1,695	1,728	1,692	1,741	1,732	1,771	1,741	1,814	1,734
Clark, ID	168	162	154	152	147	143	136	142	138
Custer, ID	357	370	341	327	314	302	291	296	294
Elmore, ID	969	970	925	920	891	885	854	882	848
Fremont, ID	808	826	775	756	730	710	686	700	688
Gem, ID	989	1,022	978	944	924	895	879	875	874
Gooding, ID	2,128	2,199	2,129	2,161	2,120	2,147	2,087	2,169	2,071
Jefferson, ID	1,284	1,279	1,264	1,288	1,295	1,317	1,318	1,345	1,311
Jerome, ID	1,798	1,802	1,778	1,837	1,835	1,885	1,858	1,933	1,846
Lemhi, ID	457	464	435	425	413	404	397	400	397
Lincoln, ID	494	479	482	498	504	517	516	532	515
Madison, ID	810	811	754	735	702	683	651	668	651
Minidoka, ID	1,446	1,423	1,393	1,411	1,397	1,411	1,382	1,428	1,375
Oneida, ID	506	514	496	487	482	474	468	472	469
Owyhee, ID	1,242	1,301	1,219	1,190	1,139	1,113	1,064	1,093	1,060
Payette, ID	964	977	954	953	951	951	950	959	942
Power, ID	668	627	629	670	689	722	733	761	733
Twin Falls, ID	2,776	2,800	2,583	2,473	2,327	2,227	2,093	2,136	2,081
Washington, ID	712	694	676	677	679	683	691	693	686
Beaverhead, MT	609	595	560	555	537	533	530	544	529
Gallatin, MT	1,404	1,436	1,328	1,269	1,201	1,143	1,118	1,134	1,122
Madison, MT	686	684	651	640	623	610	613	624	615
Silver Bow, MT	165	165	155	152	149	146	150	150	151
<b>Socioeconomic Study Area</b>	<b>29,597</b>	<b>29,979</b>	<b>28,576</b>	<b>28,280</b>	<b>27,553</b>	<b>27,250</b>	<b>26,554</b>	<b>27,192</b>	<b>26,470</b>

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<sup>1</sup> Farming values sum data for "Farm" and "Agriculture and forestry support activities."

	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Retail trade</b>									
Adams, ID	243	221	236	360	377	377	369	284	316
Bear Lake, ID	414	408	402	408	405	432	438	481	472
Bingham, ID	1,989	1,975	1,999	2,036	2,126	2,225	2,295	2,091	2,052
Blaine, ID	1,919	1,927	1,996	2,101	2,174	2,215	2,325	2,144	1,981
Bonneville, ID	7,341	7,308	7,722	7,696	8,257	8,512	8,709	9,020	8,550
Butte, ID	152	152	146	147	142	149	167	162	160
Camas, ID	31	(D)	(D)	34	(D)	(D)	28	27	(D)
Caribou, ID	432	463	476	483	518	528	565	512	473
Cassia, ID	1,781	1,792	1,788	1,695	1,769	1,779	1,846	1,891	1,835
Clark, ID	52	(D)	(D)	48	(D)	(D)	35	68	(D)
Custer, ID	298	281	299	281	275	276	280	286	291
Elmore, ID	1,440	1,407	1,354	1,384	1,434	1,495	1,545	1,357	1,268
Fremont, ID	431	422	446	416	429	454	481	482	478
Gem, ID	649	624	661	670	727	759	788	683	631
Gooding, ID	577	577	615	640	671	694	707	627	591
Jefferson, ID	863	837	819	833	782	832	858	932	987
Jerome, ID	1,242	1,357	1,319	1,234	1,228	1,281	1,251	1,334	1,246
Lemhi, ID	567	512	535	537	550	578	594	490	460
Lincoln, ID	85	83	82	82	117	118	119	146	159
Madison, ID	1,719	1,798	1,837	1,806	1,825	1,956	2,064	2,087	1,985
Minidoka, ID	745	748	751	803	869	876	851	770	734
Oneida, ID	187	189	177	185	202	220	235	229	229
Owyhee, ID	308	308	331	365	400	412	429	381	351
Payette, ID	884	869	880	882	842	816	797	817	787
Power, ID	321	308	352	351	330	331	343	295	287
Twin Falls, ID	5,533	5,414	5,568	5,338	5,488	5,840	5,952	5,879	5,780
Washington, ID	374	368	375	371	381	410	445	459	416
Beaverhead, MT	602	586	568	548	541	537	579	640	598
Gallatin, MT	7,059	7,241	7,365	7,702	8,010	8,076	8,494	9,026	8,361
Madison, MT	356	390	371	344	362	372	366	398	420
Silver Bow, MT	2,832	2,776	2,751	2,743	2,619	2,683	2,843	2,785	2,606
<b>Socioeconomic Study Area</b>	<b>41,426</b>	<b>41,341</b>	<b>42,221</b>	<b>42,523</b>	<b>43,850</b>	<b>45,233</b>	<b>46,798</b>	<b>46,783</b>	<b>44,504</b>

	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Accommodation and food services</b>									
Adams, ID	162	(D)	(D)	(D)	(D)	(D)	(D)	(D)	95
Bear Lake, ID	192	(D)	(D)	(D)	235	235	(D)	194	205
Bingham, ID	748	741	716	749	854	818	960	932	848
Blaine, ID	2,611	2,580	2,611	2,617	2,744	2,823	2,909	2,876	2,680
Bonneville, ID	3,654	3,661	3,888	4,198	3,820	3,955	4,304	4,404	4,220
Butte, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Camas, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Caribou, ID	175	(D)	153	146	151	168	144	159	187
Cassia, ID	539	(D)	570	534	550	573	510	520	477
Clark, ID	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Custer, ID	244	215	230	230	225	231	255	313	300
Elmore, ID	726	694	725	744	813	838	853	847	822
Fremont, ID	349	370	320	326	287	337	347	331	(D)
Gem, ID	243	244	240	(D)	256	256	255	240	253
Gooding, ID	304	295	303	279	289	269	307	286	301
Jefferson, ID	196	216	219	225	229	265	264	250	246
Jerome, ID	359	385	431	376	419	415	404	441	424
Lemhi, ID	319	310	333	343	362	378	367	332	308
Lincoln, ID	78	79	80	76	71	(D)	(D)	(D)	(D)
Madison, ID	751	802	797	820	1,003	1,036	1,116	1,213	1,098
Minidoka, ID	520	526	548	539	544	568	591	558	532
Oneida, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Owyhee, ID	(D)	(D)	(D)	(D)	160	198	206	210	200
Payette, ID	(D)	(D)	(D)	(D)	341	393	(D)	392	334
Power, ID	130	122	116	98	(D)	(D)	100	(D)	(D)
Twin Falls, ID	2,692	2,686	2,557	2,476	2,543	2,617	2,660	2,863	2,773
Washington, ID	218	198	189	172	193	224	248	208	199
Beaverhead, MT	559	511	515	495	512	527	520	519	533
Gallatin, MT	5,170	5,395	5,585	5,639	5,685	5,859	5,937	6,076	5,897
Madison, MT	895	953	994	1,017	1,093	1,006	1,043	(D)	1,070
Silver Bow, MT	1,914	1,873	1,783	1,891	1,849	1,862	1,903	1,989	1,883
<b>Socioeconomic Study Area</b>	<b>23,775</b>	<b>22,856</b>	<b>23,903</b>	<b>23,990</b>	<b>25,228</b>	<b>25,851</b>	<b>26,203</b>	<b>26,153</b>	<b>25,885</b>
<b>Arts, entertainment, and recreation</b>									
Adams, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	120
Bear Lake, ID	22	(D)	(D)	(D)	32	33	(D)	59	58

	2001	2002	2003	2004	2005	2006	2007	2008	2009
Bingham, ID	197	193	214	206	189	204	211	210	193
Blaine, ID	584	667	701	718	742	781	802	780	829
Bonneville, ID	705	789	839	748	809	937	1,021	944	942
Butte, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Camas, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Caribou, ID	39	(D)	51	(D)	(D)	(D)	50	54	46
Cassia, ID	197	(D)	159	161	175	176	178	159	161
Clark, ID	0	(D)	(D)	(D)	(D)	(D)	(D)	(L)	(L)
Custer, ID	91	96	92	97	84	88	95	94	98
Elmore, ID	84	73	82	83	91	95	101	99	93
Fremont, ID	56	68	65	58	59	64	71	65	(D)
Gem, ID	59	59	66	71	65	(D)	77	82	64
Gooding, ID	(D)	(D)	131	121	127	118	112	110	114
Jefferson, ID	179	183	187	191	230	258	245	289	228
Jerome, ID	123	149	147	147	151	151	163	162	159
Lemhi, ID	120	138	131	118	127	151	142	141	111
Lincoln, ID	15	16	13	14	14	(D)	(D)	(D)	(D)
Madison, ID	197	180	183	203	218	224	201	214	213
Minidoka, ID	56	63	56	60	67	87	83	91	81
Oneida, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Owyhee, ID	(D)	(D)	(D)	(D)	37	43	49	61	60
Payette, ID	(D)	(D)	(D)	(D)	66	75	(D)	92	88
Power, ID	32	38	39	40	(D)	(D)	37	(D)	(D)
Twin Falls, ID	523	524	544	526	531	575	612	567	552
Washington, ID	45	58	60	53	61	65	72	60	62
Beaverhead, MT	(D)	145	153	147	161	200	207	195	187
Gallatin, MT	1,785	1,917	1,925	2,030	2,105	2,271	2,507	2,622	2,526
Madison, MT	269	300	343	411	496	683	851	(D)	618
Silver Bow, MT	491	502	551	544	609	637	692	664	663
<b>Socioeconomic Study Area</b>	<b>5,869</b>	<b>6,158</b>	<b>6,732</b>	<b>6,747</b>	<b>7,246</b>	<b>7,916</b>	<b>8,579</b>	<b>7,814</b>	<b>8,266</b>

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>.



**Table 1. Labor Earnings Trends by Select Industry Sector and County, 2001-2009, presented in 2010 dollars (thousands)<sup>1,2</sup>**

	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Mining</b>									
Adams, ID	(D)	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	\$0.2	(L)	(L)
Bear Lake, ID	\$0.1	\$0.1	\$0.1	(D)	(D)	(D)	(D)	(D)	(L)
Bingham, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Blaine, ID	\$3.3	\$3.4	(D)	\$3.2	\$3.3	\$4.4	\$3.6	\$4.5	\$2.3
Bonneville, ID	(D)	\$1.0	(D)	\$0.8	(D)	(D)	(D)	(D)	\$1.2
Butte, ID	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	(L)	(L)
Camas, ID	\$0.0	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	(L)	(L)
Caribou, ID	\$22.9	\$23.4	(D)	(D)	\$23.6	\$24.5	\$22.2	\$24.8	\$23.5
Cassia, ID	\$4.5	\$5.2	\$5.7	\$7.0	\$8.3	\$8.2	\$6.8	\$6.6	\$4.4
Clark, ID	(D)	(D)	\$0.1	\$0.1	\$0.1	\$0.2	\$0.2	(L)	(L)
Custer, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Elmore, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fremont, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gem, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gooding, ID	\$0.1	\$0.1	\$0.1	\$0.1	(D)	(D)	(D)	(D)	(D)
Jefferson, ID	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	(D)	(D)	(D)
Jerome, ID	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	(L)	(L)
Lemhi, ID	(D)	(D)	\$1.3	(D)	(D)	(D)	(D)	(D)	(D)
Lincoln, ID	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	\$0.1	(L)	(L)
Madison, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Minidoka, ID	\$0.1	\$0.1	\$0.1	\$0.2	(D)	(D)	(D)	(D)	(D)
Oneida, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Owyhee, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Payette, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Power, ID	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	\$0.1	(L)	(L)
Twin Falls, ID	(D)	\$1.3	\$1.0	\$1.3	\$1.2	\$1.5	\$2.0	\$2.7	\$1.6
Washington, ID	\$0.1	\$0.1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Beaverhead, MT	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gallatin, MT	\$5.3	\$4.0	\$3.4	\$4.3	\$7.2	\$20.2	\$19.6	\$18.3	\$15.9
Madison, MT	\$1.0	\$1.4	\$0.7	\$0.8	\$1.4	\$5.0	\$5.1	\$6.0	\$5.9
Silver Bow, MT	(D)	\$26.5	\$20.2	(D)	(D)	\$76.3	\$73.4	\$114.3	(D)
<b>Socioeconomic Study Area</b>	<b>\$37.9</b>	<b>\$67.4</b>	<b>\$33.2</b>	<b>\$18.8</b>	<b>\$46.1</b>	<b>\$141.3</b>	<b>\$133.5</b>	<b>\$177.1</b>	<b>\$54.7</b>

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<sup>1</sup> (D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

<sup>2</sup> (L) Less than \$50,000, but the estimates for this item are included in the totals.

	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Farming<sup>1</sup></b>									
Adams, ID	\$0.3	\$1.8	\$1.4	\$2.5	\$0.7	\$0.0	-\$1.2	-\$1.8	-\$1.7
Bear Lake, ID	\$7.1	\$5.0	\$6.9	\$7.9	\$7.6	\$4.6	\$6.4	\$6.6	\$5.7
Bingham, ID	\$37.3	\$44.1	\$8.2	\$51.1	\$23.1	\$39.0	\$53.3	\$60.8	\$65.0
Blaine, ID	\$10.5	\$13.6	\$9.8	\$12.6	\$10.9	\$12.4	\$10.8	\$12.0	\$12.9
Bonneville, ID	\$14.4	\$20.9	\$4.5	\$27.1	\$22.1	\$34.2	\$36.6	\$56.4	\$49.4
Butte, ID	\$11.0	\$8.7	\$5.9	\$7.8	\$6.2	\$5.4	\$6.5	\$15.9	\$14.4
Camas, ID	\$4.9	\$5.9	\$3.9	\$3.9	\$4.0	\$4.7	\$5.3	\$8.1	\$10.1
Caribou, ID	\$11.2	\$12.3	\$6.9	\$16.8	\$14.0	\$10.9	\$9.8	\$15.6	\$19.2
Cassia, ID	\$128.6	\$125.6	\$118.1	\$145.5	\$150.5	\$123.4	\$172.7	\$204.9	\$157.0
Clark, ID	\$11.2	\$6.8	\$3.0	\$4.9	\$4.2	\$1.6	\$4.2	\$11.9	\$12.5
Custer, ID	\$7.1	\$1.8	\$1.8	\$2.9	\$2.8	\$1.5	\$4.7	\$8.8	\$15.3
Elmore, ID	\$70.0	\$66.8	\$59.1	\$59.9	\$58.5	\$55.3	\$57.7	\$65.2	\$51.0
Fremont, ID	\$11.8	\$14.2	-\$3.0	\$10.0	-\$2.1	\$0.2	-\$2.0	-\$0.8	\$8.5
Gem, ID	\$9.1	\$10.4	\$7.8	\$10.3	\$5.8	\$3.5	\$4.2	\$6.5	\$8.4
Gooding, ID	\$191.0	\$144.0	\$126.1	\$215.6	\$179.9	\$134.0	\$224.1	\$222.1	\$106.4
Jefferson, ID	\$61.4	\$56.2	\$29.8	\$55.4	\$36.3	\$35.8	\$75.9	\$92.1	\$86.5
Jerome, ID	\$171.5	\$129.9	\$119.7	\$169.9	\$156.7	\$144.8	\$198.0	\$185.0	\$130.5
Lemhi, ID	\$7.3	\$4.2	\$2.1	\$4.5	\$1.4	-\$0.2	-\$1.6	\$1.3	\$1.6
Lincoln, ID	\$22.2	\$21.0	\$17.7	\$27.0	\$25.3	\$26.0	\$44.4	\$53.0	\$37.8
Madison, ID	\$6.9	\$4.8	-\$5.1	\$4.6	-\$0.7	\$3.7	\$3.2	\$5.4	\$13.1
Minidoka, ID	\$67.2	\$85.3	\$55.6	\$79.2	\$53.7	\$65.2	\$91.6	\$114.4	\$112.2
Oneida, ID	\$5.9	\$2.5	\$5.0	\$7.3	\$6.0	\$2.9	\$9.9	\$11.5	\$13.0
Owyhee, ID	\$60.3	\$61.3	\$54.5	\$74.5	\$59.7	\$62.2	\$85.3	\$89.0	\$76.3
Payette, ID	\$41.1	\$47.5	\$47.2	\$53.0	\$50.7	\$33.6	\$29.0	\$32.4	\$15.3
Power, ID	\$21.6	\$27.0	\$11.2	\$26.3	\$14.7	\$14.2	\$25.7	\$36.3	\$30.1
Twin Falls, ID	\$134.6	\$127.5	\$109.0	\$184.4	\$167.8	\$148.7	\$215.2	\$220.0	\$170.5
Washington, ID	\$10.1	\$12.9	\$16.6	\$18.5	\$11.4	\$11.0	\$14.6	\$15.5	\$14.6
Beaverhead, MT	\$19.1	\$9.8	\$10.8	\$16.6	\$26.2	\$11.8	\$12.4	\$4.9	\$8.0
Gallatin, MT	\$30.7	\$20.5	\$21.7	\$40.0	\$38.1	\$15.4	\$27.7	\$22.4	\$31.5
Madison, MT	\$3.9	-\$2.9	-\$1.4	\$5.9	\$7.9	-\$1.7	-\$1.0	-\$1.5	\$0.9
Silver Bow, MT	\$0.5	-\$0.7	-\$0.5	\$0.3	\$0.7	\$0.0	\$0.0	-\$0.2	-\$0.1
<b>Socioeconomic Study Area</b>	<b>\$1,189.9</b>	<b>\$1,089.0</b>	<b>\$854.3</b>	<b>\$1,346.0</b>	<b>\$1,144.0</b>	<b>\$1,003.8</b>	<b>\$1,423.2</b>	<b>\$1,574.0</b>	<b>\$1,275.9</b>

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<sup>1</sup> Farming values sum data for "Farm" and "Agriculture and forestry support activities."

	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Retail trade</b>									
Adams, ID	\$3.4	\$3.6	\$3.7	\$8.8	\$9.3	\$9.3	\$8.4	\$6.9	\$7.9
Bear Lake, ID	\$7.9	\$8.1	\$7.9	\$7.9	\$7.7	\$7.7	\$7.9	\$7.5	\$7.1
Bingham, ID	\$41.9	\$42.7	\$44.5	\$43.2	\$45.1	\$48.5	\$48.5	\$40.2	\$37.7
Blaine, ID	\$65.6	\$66.4	\$69.3	\$74.3	\$77.1	\$79.2	\$80.9	\$72.2	\$62.7
Bonneville, ID	\$203.3	\$212.5	\$228.8	\$230.0	\$248.1	\$258.7	\$265.5	\$247.0	\$239.3
Butte, ID	\$2.3	\$2.2	\$2.3	\$2.2	\$2.1	\$2.1	\$2.3	\$1.9	\$2.0
Camas, ID	\$0.3	(D)	(D)	\$0.3	(D)	(D)	\$0.3	\$0.2	(D)
Caribou, ID	\$9.0	\$9.4	\$9.5	\$9.4	\$9.8	\$9.8	\$9.8	\$8.5	\$7.4
Cassia, ID	\$49.6	\$50.1	\$49.3	\$48.3	\$48.4	\$51.5	\$51.2	\$46.0	\$42.0
Clark, ID	\$0.6	(D)	(D)	\$0.6	(D)	(D)	\$0.3	\$0.7	(D)
Custer, ID	\$5.4	\$5.3	\$5.6	\$5.4	\$5.2	\$5.1	\$5.3	\$4.6	\$4.5
Elmore, ID	\$31.4	\$31.3	\$31.1	\$32.1	\$34.2	\$36.6	\$36.0	\$32.1	\$30.3
Fremont, ID	\$9.3	\$9.1	\$9.4	\$9.6	\$9.9	\$10.2	\$10.2	\$9.1	\$8.5
Gem, ID	\$11.3	\$10.6	\$11.0	\$11.1	\$11.7	\$14.0	\$13.9	\$11.9	\$9.7
Gooding, ID	\$10.9	\$11.0	\$13.5	\$13.8	\$14.0	\$13.6	\$13.6	\$13.1	\$12.6
Jefferson, ID	\$15.9	\$15.9	\$16.7	\$17.7	\$16.2	\$17.0	\$17.9	\$16.2	\$15.9
Jerome, ID	\$36.4	\$43.8	\$45.7	\$45.8	\$42.5	\$43.6	\$40.3	\$36.8	\$34.0
Lemhi, ID	\$12.6	\$12.7	\$12.6	\$12.4	\$12.3	\$12.7	\$13.0	\$10.8	\$9.8
Lincoln, ID	\$1.5	\$1.4	\$1.5	\$1.6	\$2.4	\$2.3	\$2.5	\$1.9	\$2.1
Madison, ID	\$39.1	\$42.6	\$44.4	\$44.8	\$46.2	\$49.7	\$50.5	\$48.4	\$44.7
Minidoka, ID	\$15.2	\$15.8	\$16.0	\$16.7	\$17.0	\$15.9	\$14.6	\$14.5	\$14.3
Oneida, ID	\$2.5	\$2.5	\$2.6	\$2.7	\$2.8	\$3.0	\$3.0	\$2.6	\$2.4
Owyhee, ID	\$5.1	\$5.1	\$5.6	\$6.1	\$6.9	\$7.1	\$7.2	\$6.6	\$6.2
Payette, ID	\$19.6	\$19.5	\$20.3	\$21.7	\$20.0	\$21.7	\$19.1	\$15.5	\$13.8
Power, ID	\$5.7	\$5.6	\$6.0	\$6.1	\$5.7	\$5.6	\$5.6	\$5.2	\$4.2
Twin Falls, ID	\$175.0	\$193.2	\$184.7	\$175.0	\$177.6	\$190.2	\$183.2	\$161.5	\$155.8
Washington, ID	\$8.4	\$8.5	\$8.7	\$8.8	\$8.9	\$9.8	\$10.6	\$8.9	\$8.6
Beaverhead, MT	\$12.7	\$12.4	\$12.4	\$12.4	\$11.5	\$11.9	\$13.3	\$13.2	\$12.2
Gallatin, MT	\$189.3	\$205.3	\$216.8	\$232.1	\$241.3	\$247.3	\$262.8	\$256.4	\$242.7
Madison, MT	\$7.2	\$8.7	\$8.9	\$9.1	\$9.3	\$9.4	\$9.0	\$7.4	\$7.8
Silver Bow, MT	\$83.5	\$97.9	\$105.8	\$106.2	\$100.3	\$105.9	\$104.9	\$88.1	\$89.4
<b>Socioeconomic Study Area</b>	<b>\$1,082.1</b>	<b>\$1,153.1</b>	<b>\$1,194.4</b>	<b>\$1,216.1</b>	<b>\$1,243.5</b>	<b>\$1,299.3</b>	<b>\$1,311.8</b>	<b>\$1,195.8</b>	<b>\$1,135.5</b>

	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Accommodation and food services</b>									
Adams, ID	\$2.2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	\$1.2
Bear Lake, ID	\$2.2	(D)	(D)	(D)	\$2.7	\$2.7	(D)	\$2.5	\$2.8
Bingham, ID	\$8.3	\$8.6	\$8.9	\$9.1	\$9.7	\$9.0	\$10.3	\$10.1	\$9.4
Blaine, ID	\$67.1	\$68.5	\$69.2	\$72.5	\$75.4	\$79.2	\$82.8	\$78.3	\$73.1
Bonneville, ID	\$55.0	\$57.5	\$60.8	\$66.1	\$59.3	\$61.9	\$67.4	\$66.6	\$67.9
Butte, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Camas, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Caribou, ID	\$1.8	(D)	\$1.7	\$1.5	\$1.6	\$1.7	\$1.6	\$1.8	\$2.2
Cassia, ID	\$6.7	(D)	\$7.9	\$7.1	\$6.8	\$6.6	\$5.4	\$5.9	\$5.7
Clark, ID	\$0.2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Custer, ID	\$4.1	\$3.8	\$3.8	\$4.0	\$3.9	\$3.9	\$4.3	\$4.7	\$4.5
Elmore, ID	\$11.5	\$12.0	\$11.8	\$12.5	\$14.3	\$14.5	\$13.8	\$13.7	\$12.6
Fremont, ID	\$5.1	\$5.5	\$4.9	\$4.9	\$4.5	\$4.6	\$4.8	\$4.7	(D)
Gem, ID	\$3.0	\$3.2	\$3.2	(D)	\$3.4	\$3.5	\$3.4	\$3.1	\$3.4
Gooding, ID	\$3.8	\$3.5	\$3.6	\$3.3	\$3.6	\$3.3	\$3.4	\$3.1	\$3.3
Jefferson, ID	\$1.8	\$2.0	\$2.3	\$2.5	\$2.4	\$2.9	\$2.8	\$2.5	\$2.5
Jerome, ID	\$4.5	\$5.0	\$5.7	\$5.5	\$5.5	\$5.6	\$5.4	\$5.7	\$5.7
Lemhi, ID	\$4.2	\$4.3	\$4.6	\$4.9	\$5.3	\$5.2	\$5.2	\$4.2	\$3.9
Lincoln, ID	\$1.0	\$0.9	\$0.9	\$0.9	\$0.9	(D)	(D)	(D)	(D)
Madison, ID	\$10.4	\$11.1	\$11.2	\$12.0	\$13.9	\$14.7	\$14.9	\$16.4	\$15.4
Minidoka, ID	\$7.4	\$7.8	\$8.0	\$7.8	\$7.6	\$7.8	\$8.2	\$7.5	\$7.3
Oneida, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Owyhee, ID	(D)	(D)	(D)	(D)	\$2.0	\$2.2	\$2.1	\$2.2	\$2.1
Payette, ID	(D)	(D)	(D)	(D)	\$4.3	\$4.8	(D)	\$4.1	\$3.7
Power, ID	\$1.3	\$1.3	\$1.2	\$1.0	(D)	(D)	\$1.0	(D)	(D)
Twin Falls, ID	\$40.6	\$39.4	\$38.7	\$38.8	\$39.5	\$40.8	\$40.1	\$44.7	\$44.0
Washington, ID	\$2.2	\$2.2	\$2.2	\$2.1	\$2.2	\$2.4	\$2.7	\$2.3	\$2.3
Beaverhead, MT	\$6.6	\$6.5	\$6.6	\$6.8	\$6.5	\$6.7	\$6.7	\$6.9	\$7.1
Gallatin, MT	\$102.8	\$106.0	\$109.7	\$110.6	\$112.5	\$115.9	\$119.4	\$115.2	\$111.7
Madison, MT	\$19.4	\$20.1	\$21.0	\$21.0	\$22.8	\$24.5	\$28.4	(D)	\$25.7
Silver Bow, MT	\$39.9	\$36.2	\$35.3	\$37.4	\$34.9	\$34.4	\$33.1	\$33.0	\$32.6
<b>Socioeconomic Study Area</b>	<b>\$412.7</b>	<b>\$405.2</b>	<b>\$423.2</b>	<b>\$432.4</b>	<b>\$445.4</b>	<b>\$458.8</b>	<b>\$467.3</b>	<b>\$439.4</b>	<b>\$450.2</b>
<b>Arts, entertainment, and recreation</b>									
Adams, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	\$2.9
Bear Lake, ID	\$0.2	(D)	(D)	(D)	\$0.3	\$0.3	(D)	\$0.5	\$0.5

	2001	2002	2003	2004	2005	2006	2007	2008	2009
Bingham, ID	\$1.9	\$2.3	\$2.3	\$2.3	\$1.9	\$2.0	\$2.0	\$2.0	\$2.0
Blaine, ID	\$70.8	\$82.5	\$39.8	\$28.8	\$19.1	\$20.3	\$22.9	\$19.5	\$18.8
Bonneville, ID	\$18.0	\$19.0	\$18.9	\$11.8	\$11.9	\$12.4	\$13.1	\$11.2	\$11.4
Butte, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Camas, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Caribou, ID	\$0.2	(D)	\$0.2	(D)	(D)	(D)	\$0.2	\$0.3	\$0.3
Cassia, ID	\$2.0	(D)	\$2.0	\$2.1	\$1.9	\$2.0	\$1.7	\$2.0	\$2.2
Clark, ID	\$0.0	(D)	(D)	(D)	(D)	(D)	(D)	(L)	(L)
Custer, ID	\$1.8	\$3.9	\$4.8	\$4.9	\$4.0	\$3.6	\$3.4	\$3.4	\$3.4
Elmore, ID	\$1.0	\$1.3	\$0.8	\$1.0	\$0.8	\$0.8	\$0.9	\$0.8	\$1.0
Fremont, ID	\$0.6	\$0.8	\$0.7	\$0.8	\$0.5	\$0.5	\$0.4	\$0.7	(D)
Gem, ID	\$0.5	\$0.5	\$0.5	\$0.5	\$0.4	(D)	\$0.3	\$0.6	\$0.5
Gooding, ID	(D)	(D)	\$1.8	\$1.8	\$1.5	\$1.3	\$1.2	\$1.3	\$1.5
Jefferson, ID	\$2.0	\$2.9	\$2.7	\$3.0	\$2.7	\$2.7	\$2.6	\$2.5	\$2.3
Jerome, ID	\$2.6	\$3.3	\$3.1	\$3.5	\$3.1	\$3.2	\$3.2	\$4.1	\$4.1
Lemhi, ID	\$2.1	\$3.0	\$2.7	\$2.7	\$2.6	\$3.0	\$2.7	\$2.7	\$2.0
Lincoln, ID	\$0.3	\$0.3	\$0.2	\$0.2	\$0.3	(D)	(D)	(D)	(D)
Madison, ID	\$1.1	\$2.3	\$1.9	\$2.3	\$1.9	\$1.9	\$1.4	\$2.5	\$2.7
Minidoka, ID	\$1.0	\$1.3	\$1.1	\$1.3	\$1.1	\$1.2	\$0.9	\$1.4	\$1.5
Oneida, ID	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Owyhee, ID	(D)	(D)	(D)	(D)	\$0.4	\$0.4	\$0.4	\$0.3	\$0.3
Payette, ID	(D)	(D)	(D)	(D)	\$0.6	\$0.6	(D)	\$0.6	\$0.7
Power, ID	\$0.4	\$0.6	\$0.5	\$0.6	(D)	(D)	\$0.2	(D)	(D)
Twin Falls, ID	\$4.3	\$8.1	\$7.4	\$6.8	\$6.3	\$6.8	\$7.2	\$6.5	\$6.8
Washington, ID	\$1.0	\$0.9	\$0.9	\$0.8	\$1.0	\$1.0	\$1.0	\$1.0	\$0.8
Beaverhead, MT	(D)	\$1.7	\$1.4	\$1.4	\$1.4	\$1.6	\$1.7	\$1.6	\$1.7
Gallatin, MT	\$44.9	\$43.7	\$40.9	\$35.3	\$31.5	\$35.8	\$48.6	\$43.0	\$45.1
Madison, MT	\$8.2	\$8.7	\$11.6	\$14.1	\$19.5	\$25.2	\$24.2	(D)	\$19.5
Silver Bow, MT	\$6.7	\$6.0	\$7.7	\$8.1	\$9.4	\$10.0	\$11.6	\$10.1	\$10.2
<b>Socioeconomic Study Area</b>	<b>\$171.4</b>	<b>\$193.0</b>	<b>\$153.8</b>	<b>\$134.2</b>	<b>\$123.9</b>	<b>\$136.7</b>	<b>\$151.6</b>	<b>\$118.8</b>	<b>\$142.2</b>

Source: U.S. Department of Commerce. 2012. Bureau of Economic Analysis, Regional Economic Information System, Local Area Personal Income & Employment. Available at: <http://www.bea.gov/regional/index.htm>. Values reported in 2001 dollars were converted to 2010 dollars using the Consumer Price Index (BLS, 2012a).

**Table 2. Annual Population by County, 2000-2010<sup>1</sup>**

<b>Geographic Area</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010<sup>2</sup></b>
Adams, ID	3,477	3,495	3,559	3,624	3,693	3,817	3,788	3,949	4,021	4,000	3,953
Bear Lake, ID	6,424	6,394	6,219	6,219	6,170	6,077	6,071	6,049	6,027	6,014	5,971
Bingham, ID	41,753	42,073	42,101	42,555	42,702	43,173	43,396	43,816	44,414	45,087	45,769
Blaine, ID	19,115	19,755	20,189	20,557	20,811	20,897	21,082	21,169	21,477	21,590	21,326
Bonneville, ID	82,968	83,907	85,060	86,846	89,514	91,709	94,756	97,890	100,811	103,016	104,592
Butte, ID	2,894	2,853	2,906	2,842	2,812	2,825	2,786	2,838	2,846	2,835	2,907
Camas, ID	968	1,000	1,025	1,029	1,022	1,069	1,073	1,103	1,120	1,133	1,109
Caribou, ID	7,281	7,326	7,161	7,105	7,106	6,963	6,886	6,873	6,840	6,922	6,977
Cassia, ID	21,393	21,557	21,504	21,466	21,323	21,372	21,281	21,568	22,134	22,476	23,088
Clark, ID	1,024	965	948	892	923	925	947	948	981	961	988
Custer, ID	4,336	4,223	4,143	4,116	4,129	4,084	4,155	4,200	4,300	4,363	4,366
Elmore, ID	28,610	27,613	27,047	25,972	26,355	25,919	25,927	26,595	26,930	26,769	27,123
Fremont, ID	11,769	11,891	12,029	12,370	12,640	12,610	12,770	13,005	13,112	13,173	13,251
Gem, ID	15,215	15,393	15,488	15,693	15,925	16,304	16,632	16,833	16,941	16,809	16,675
Gooding, ID	14,196	14,215	14,342	14,483	14,562	14,614	14,749	14,963	15,216	15,270	15,503
Jefferson, ID	19,193	19,322	19,802	20,249	20,842	21,674	22,439	23,475	24,696	25,770	26,236
Jerome, ID	18,493	18,579	18,730	18,971	19,331	19,654	20,111	20,572	21,217	22,039	22,469
Lemhi, ID	7,724	7,593	7,590	7,600	7,660	7,708	7,795	7,780	7,902	7,870	7,957
Lincoln, ID	4,051	4,159	4,242	4,372	4,441	4,694	4,762	4,938	5,041	5,151	5,211
Madison, ID	27,519	27,699	28,478	29,997	31,990	33,807	34,984	35,771	36,564	37,121	37,623
Minidoka, ID	20,103	19,603	19,542	19,389	19,167	19,013	19,046	19,184	19,393	19,884	20,112
Oneida, ID	4,135	4,176	4,125	4,089	4,086	4,137	4,146	4,167	4,201	4,248	4,298
Owyhee, ID	10,690	10,877	10,876	11,033	10,990	10,993	11,114	11,255	11,515	11,547	11,512
Payette, ID	20,624	20,796	20,966	21,133	21,139	21,484	21,916	22,437	22,618	22,665	22,621
Power, ID	7,484	7,422	7,371	7,293	7,432	7,426	7,564	7,532	7,564	7,628	7,879
Twin Falls, ID	64,360	64,556	65,473	67,092	68,309	69,833	71,974	73,738	75,143	76,271	77,517
Washington, ID	9,970	9,936	9,904	9,904	9,947	9,995	10,025	10,027	10,095	10,173	10,205
Beaverhead, MT	9,204	9,058	9,018	8,924	8,908	8,904	9,012	9,028	9,166	9,200	9,253
Gallatin, MT	68,375	70,120	71,824	74,504	77,124	80,310	83,984	86,620	88,932	89,187	89,658
Madison, MT	6,870	6,856	6,935	6,894	6,999	7,211	7,343	7,560	7,674	7,674	7,691
Silver Bow, MT	34,571	33,882	33,636	33,474	33,416	33,414	33,441	33,489	33,812	34,008	34,234
<b>Socioeconomic Study Area</b>	<b>594,789</b>	<b>597,294</b>	<b>602,233</b>	<b>610,687</b>	<b>621,468</b>	<b>632,615</b>	<b>645,955</b>	<b>659,372</b>	<b>672,703</b>	<b>680,854</b>	<b>688,074</b>

<sup>1</sup> Population values provided as of July 1 of each year.



<sup>2</sup> The values for July 1, 2010 were produced by applying estimates of change in the population between April 1 and July 1 of 2010 to the 2010 Census counts. Further details on this methodology are available at [http://www.census.gov/popest/methodology/intercensal\\_nat\\_meth.pdf](http://www.census.gov/popest/methodology/intercensal_nat_meth.pdf).

<b>Geographic Area</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010<sup>2</sup></b>
<b>Idaho</b>	<b>1,299,430</b>	<b>1,319,962</b>	<b>1,340,372</b>	<b>1,363,380</b>	<b>1,391,802</b>	<b>1,428,241</b>	<b>1,468,669</b>	<b>1,505,105</b>	<b>1,534,320</b>	<b>1,554,439</b>	<b>1,571,450</b>
<b>Montana</b>	<b>903,773</b>	<b>906,961</b>	<b>911,667</b>	<b>919,630</b>	<b>930,009</b>	<b>940,102</b>	<b>952,692</b>	<b>964,706</b>	<b>976,415</b>	<b>983,982</b>	<b>990,898</b>
Ada, ID <sup>1</sup>	303,328	313,896	321,616	327,393	334,926	348,755	363,498	375,368	382,618	388,577	393,531
Bannock, ID	75,728	76,296	76,487	76,312	76,834	77,419	78,491	79,338	80,609	81,994	83,071
Boise, ID	6,702	6,733	6,854	6,977	7,004	6,981	7,151	7,229	7,148	7,051	7,032
Canyon, ID	133,082	139,179	145,160	151,395	157,130	163,947	172,188	179,645	184,996	187,357	189,428
Deer Lodge, MT	9,409	9,303	9,238	9,189	9,274	9,274	9,180	9,264	9,351	9,260	9,294
Park, MT	15,710	15,651	15,676	15,539	15,509	15,629	15,690	15,828	15,896	15,738	15,608

Source: U.S. Census Bureau. 2011. Population Estimates, Intercensal Estimates of the Resident Population for Counties: April 1, 2000 to July 1, 2010. Available at: <http://www.census.gov/popest/data/intercensal/county/CO-EST00INT-01.html>.

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<sup>1</sup> Ada, Bannock, Boise, and Canyon Counties in Idaho and Deer Lodge and Park Counties in Montana constitute a secondary study area, as documented in the Chapter 3 text.

## CHAPTER 3

### 3.1. SOCIAL AND ECONOMIC CONDITIONS (INCLUDING ENVIRONMENTAL JUSTICE)

Due to the nature of social, economic, and environmental justice conditions, the social and economic analysis is based on a somewhat different area for analysis than is used for other resources. Specifically, the Socioeconomic Study Area is made up of counties within the Idaho-Southwest Montana sub-region that contain greater sage-grouse habitat and within which social and economic conditions might reasonably be expected to change based on alternative management actions. In addition, BLM reviewed the need to include additional counties within a secondary study area that may not contain greater sage-grouse habitat but are closely linked from an economic and/or social perspective to counties that do contain habitat. This latter category includes what are sometimes called “service area” counties, or counties from which businesses operate that regularly provide critical economic services, such as recreational outfitting or support services for the livestock grazing sector, within the counties that contain habitat (METI Corp / Economic Insights of Colorado, 2012). Including service area counties is important because a change in economic activity in a county containing habitat may result in changes in economic activity within service area counties as well.

The Socioeconomic Study Area contains twenty-seven counties in Idaho: Adams, Bear Lake, Bingham, Blaine, Bonneville, Butte, Camas, Caribou, Cassia, Clark, Custer, Elmore, Fremont, Gem, Gooding, Jefferson, Jerome, Lemhi, Lincoln, Madison, Minidoka, Oneida, Owyhee, Payette, Power, Twin Falls, and Washington; and four counties in Montana: Beaverhead, Gallatin, Madison, and Silver Bow. Each of these counties contains sage-grouse habitat, either Preliminary Priority Habitat (PPH) or Preliminary General Habitat (PGH). A secondary study area is included that contains an additional four counties in Idaho: Ada, Bannock, Boise, and Canyon; and two counties in Montana: Deer Lodge and Park. All of these counties are included in the secondary study area because of identified links to the primary area based on commuter patterns (OMB, 2009; U.S. Census Bureau, 2012b).<sup>1</sup>

Table I shows the share of workers employed in a given county of the Primary and Secondary Socioeconomic Study Areas and that reside in the same county. It also shows other counties that provide labor to the selected primary or secondary study area.

<sup>1</sup> Other counties considered but excluded from the secondary area were: (a) Valley County, ID, which has its main commuter tie to Ada County, ID, a secondary area county; (b) Franklin County, ID, which has its main commuter tie to Cache County, UT, a county outside of the Socioeconomic Study Area; (c) Teton County, ID, which has its main commuter tie to Teton County, MT, a county outside of the Socioeconomic Study Area; (d) Jefferson and Broadwater Counties, MT, both of which have their main commuter ties to Lewis and Clark County, MT, a county outside of the Socioeconomic Study Area; (e) Ravalli County, MT, which has its main commuter tie outside the primary study area, is linked to the Salmon Challis NF or the Beaverhead Deerlodge NF, but is less likely to be affected by sage grouse habitat management alternatives because sage grouse habitat is concentrated in the southeast of Lemhi County, ID, at a distance from Ravalli County; and finally, (d) the counties of Missoula, Granite and Powell (all in MT) were not included in the secondary study area because the Beaverhead Deerlodge NF areas potentially affected by sage grouse habitat management alternatives are located considerably to the south of those counties.



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**Table I. Commuter Patterns in the Socioeconomic Study Area, 2010**

<b>Geographic Area of Employment</b>	<b>Live in Same Area of Employment</b>	<b>Other Counties Where Considerable Share of Workers Live</b>
Primary Socioeconomic Study Area		
Adams County, ID	69.4%	Valley (7.3%), Idaho (6.7%), Washington (3.5%)
Bear Lake County, ID	77.2%	Ada (2.7%), Bannock (2.4%)
Bingham County, ID	64.3%	Bannock (10.2%), Bonneville (9.5%), Ada (2.0%)
Blaine County, ID	70.9%	Ada (6.7%), Lincoln (3.6%), Canyon (2.6%), Twin Falls (2.6%)
Bonneville County, ID	61.0%	Bingham (8.7%), Jefferson (8.3%), Bannock (6.3%), Madison (3.3%), Ada (2.5%)
Butte County, ID	21.5%	Bonneville (40.9%), Bingham (14.2%), Bannock (7.6%), Jefferson (6.5%), Custer (2.1%), Madison (2.0%)
Camas County, ID	58.5%	Gooding (10.9%), Blaine (8.3%), Twin Falls (5.7%), Jerome (3.0%), Ada (2.6%), Elmore (2.6%)
Caribou County, ID	56.8%	Bannock (11.4%), Bear Lake (9.8%), Ada (2.8%), Bonneville (2.8%), Franklin (2.8%)
Cassia County, ID	49.9%	Minidoka (23.8%), Twin Falls (6.8%), Ada (3.0%), Jerome (2.5%), Bonneville (2.1%)
Clark County, ID	51.4%	Bonneville (18.3%), Jefferson (18.3%), Bannock (2.2%), Madison (2.2%)
Custer County, ID	65.7%	Lemhi (13.6%), Butte (2.8%), Bonneville (2.7%), Ada (2.6%)
Elmore County, ID	69.7%	Ada (11.3%), Canyon (4.2%), Twin Falls (2.3%)
Fremont County, ID	70.5%	Madison (10.3%), Bonneville (6.2%), Jefferson (2.9%)
Gem County, ID	60.0%	Ada (15.4%), Canyon (10.7%), Payette (2.7%)
Gooding County, ID	48.5%	Twin Falls (17.3%), Jerome (10.7%), Lincoln (2.5%), Ada (2.3%)
Jefferson County, ID	51.6%	Bonneville (23.7%), Madison (8.4%), Bingham (2.4%)
Jerome County, ID	42.8%	Twin Falls (26.1%), Gooding (8.8%), Ada (3.3%), Cassia (2.4%), Minidoka (2.2%)
Lemhi County, ID	88.1%	Bonneville (2.1%)
Lincoln County, ID	49.7%	Twin Falls (14.2%), Gooding (12.4%), Jerome (7.0%), Minidoka (3.3%), Blaine (2.0%)
Madison County, ID	49.6%	Bonneville (12.9%), Fremont (12.2%), Jefferson (9.5%), Bannock (3.2%), Bingham (2.3%)
Minidoka County, ID	54.9%	Cassia (19.7%), Twin Falls (7.2%), Ada (2.3%), Bannock (2.2%)
Oneida County, ID	78.3%	Bannock (7.0%), Bonneville (2.5%), Box Elder, UT (2.1%)
Owyhee County, ID	42.2%	Canyon (31.5%), Ada (8.2%), Elmore (4.3%),



		Malheur, OR (2.4%),
Payette County, ID	51.3%	Canyon (14.4%), Malheur, OR (10.4%), Ada (8.0%), Washington (4.6%), Gem (3.4%)
Power County, ID	45.5%	Bannock (24.2%), Bingham (6.5%), Twin Falls (5.0%), Ada (2.7%)
Twin Falls County, ID	64.8%	Jerome (7.0%), Ada (5.2%), Gooding (2.6%), Cassia (2.6%), Canyon (2.5%), Minidoka (2.5%)
Washington County, ID	63.4%	Payette (6.3%), Ada (4.7%), Malheur, OR (4.5%), Canyon (4.5%)
Beaverhead County, MT	62.1%	Lewis and Clark (6.9%), Yellowstone (6.7%), Silver Bow (5.7%), Gallatin (3.6%), Missoula (3.2%), Cascade (2.8%)
Gallatin County, MT	77.6%	Yellowstone (3.1%), Park (2.8%), Lewis and Clark (2.9%)
Madison County, MT	67.8%	Gallatin (17.3%), Jefferson (3.0%)
Silver Bow County, MT	64.8%	Missoula (5.8%), Deer Lodge (4.4%), Lewis and Clark (4.4%), Gallatin (3.5%), Jefferson (2.3%), Cascade (2.1%), Yellowstone (2.0%)
<b>Secondary Socioeconomic Study Area</b>		
Ada County, ID	71.9%	Canyon (14.9%)
Bannock County, ID	68.6%	Bonneville (6.5%), Bingham (6.5%), Ada (2.8%), Twin Falls (2.2%)
Boise County, ID	77.0%	Ada (12.2%), Gem (3.4%), Canyon (2.5%)
Canyon County, ID	60.2%	Ada (24.7%), Owyhee (2.7%)
Deer Lodge, MT	52.6%	Silver Bow (14.9%), Lewis and Clark (5.5%), Missoula (4.9%), Powell (3.8%), Gallatin (2.5%), Jefferson (2.1%), Cascade (2.0%)
Park, MT	72.5%	Gallatin (10.7%), Yellowstone (4.1%)

Source: U.S. Census Bureau, 2012b.

Because any effects on the secondary study area would be indirect and sometimes focused on specific sectors, this chapter focuses primarily on the social and economic conditions of the Socioeconomic Study Area and provides what is necessary to convey appropriate context for the impact analysis. The impact analysis in the next chapter will document potential effects on both the primary and the secondary study areas.

Table 2 shows the planning documents that may be altered by the Idaho-Southwest Montana sub-region sage-grouse planning process and the counties containing sage-grouse habitat within the area encompassed by those plans.

**Table 2. BLM and USFS Plans, Management Units, and Counties within the Socioeconomic Study Area**

Agency	Plan or Document	Management Unit	Counties
BLM	Birds of Prey National Conservation Area RMP (2008)	Four Rivers Field Office	Ada, Canyon, Elmore, Owyhee (Idaho)
	Bruneau RMP revision	Bruneau Field Office	Owyhee (Idaho)





3. Affected Environment

Agency	Plan or Document	Management Unit	Counties
	Butte RMP (2009)	Butte Field Office	Beaverhead, Broadwater, Deer Lodge, Gallatin, Jefferson, Lewis and Clark, Park, Silver Bow (Montana)
	Challis RMP (1999)	Challis Field Office	Custer, Lemhi (Idaho)
	Craters of the Moon National Monument RMP (2006)	Shoshone Field Office	Blaine, Butte, Lincoln, Minidoka, Power (Idaho)
	Dillon RMP (2006)	Dillon Field Office	Beaverhead, Madison (Montana)
	Four Rivers RMP revision	Four Rivers Field Office	Ada, Adams, Boise, Canyon, Elmore, Gem, Payette, Valley, Washington (Idaho)
	Jarbridge RMP revision	Jarbridge Field Office	Elmore, Owyhee, Twin Falls (Idaho); Elko (Nevada)
	Lemhi RMP (1987)	Salmon Field Office	Lemhi (Idaho)
	Owyhee RMP (1999)	Owyhee Field Office	Owyhee (Idaho)
	Pocatello RMP revision	Pocatello Field Office	Bannock, Bear Lake, Bingham, Bonneville, Caribou, Cassia, Franklin, Oneida, Power (Idaho)
	Shoshone-Burley RMP revision	Shoshone Field Office, Burley Field Office	Blaine, Camas, Elmore, Jerome, Minidoka, Power (Idaho)
Upper Snake RMP revision	Upper Snake Field Office	Blaine, Bingham, Bonneville, Butte, Clark, Fremont, Jefferson, Madison, Power, Teton (Idaho)	
USFS	Beaverhead-Deerlodge National Forest Plan (2009)	Dillon, Wise River, Wisdom, Butte, Jefferson, Pintler, and Madison Ranger Districts	Granite, Powell, Jefferson, Deer Lodge, Silver Bow, Madison, Gallatin, Beaverhead (Montana)
	Boise National Forest Plan, as amended in 2010	Cascade, Lowman, Emmett, Mountain Home, and Idaho City Ranger Districts	Valley, Boise, Elmore, Gem, Ada (Idaho)
	Caribou National Forest Revised Forest Plan (2003)	Montpelier, Soda Springs, and Westside Ranger Districts	Caribou, Bonneville, Bannock, Bear Lake, Oneida, Franklin, Power (Idaho); Lincoln (Wyoming); Box Elder, Cache (Utah)
	Challis National Forest Plan (1987)	Challis, Lost River, Middle Fork, and Yankee Fork Ranger Districts	Custer, Lemhi, Butte, Valley, Blaine, Clark (Idaho)
	Curlew National Grassland Management Plan (2002)	Westside Ranger District	Oneida, Power (Idaho)



Agency	Plan or Document	Management Unit	Counties
	Salmon National Forest Plan (1988)	Cobalt, Leadore, North Fork, and Salmon Ranger Districts	Idaho, Lemhi, Valley (Idaho)
	Sawtooth National Forest Revised Forest Plan (2003)	Fairfield, Ketchum, Minidoka, and Sawtooth National Recreation Area Ranger Districts	Blaine, Boise, Cassia, Camas, Custer, Elmore, Oneida, Power, Twin Falls (Idaho); Box Elder (Utah)
	Targhee National Forest Plan (1997)	Ashton/Island Park, Dubois, Palisades, and Teton Basin Ranger Districts	Bonneville, Butte, Clark, Fremont, Jefferson, Lemhi, Madison, Teton (Idaho); Lincoln, Teton (Wyoming)

BLM Bureau of Land Management  
RMP Resource Management Plan  
USFS U.S. Forest Service

1 Because of the nature of the Socioeconomic Study Area, the socioeconomic  
2 resources section has a slightly different format than the other resource  
3 analyses in the EIS. Rather than proceeding by Field Office and National Forest,  
4 the section provides information for the entire Socioeconomic Study Area  
5 except where the relevant information or data is tabulated for the specific  
6 geographic area of Field Office or National Forest. In addition, the analysis  
7 presents information about existing conditions and trends within the same  
8 section, because that is the common practice for analysis of social and economic  
9 conditions.

### 10 3.1.1. Indicators

11 Many of the indicators used to characterize social and economic conditions are  
12 quantitative, including population, demographics (e.g., age and gender  
13 breakouts), local industry (e.g., recreation, mineral development), employment,  
14 personal income, and presence of minority and low-income populations. Other  
15 indicators, especially for social conditions, are qualitative.

### 16 3.1.2. Existing Conditions and Trends

#### 17 *Social Conditions*

18 Social conditions concern human communities, including towns, cities, and rural  
19 areas, and the custom, culture, and history of the area as it relates to human  
20 settlement, as well as current social values.

#### 21 Population and Demographics

22 Table 3 shows current and historic populations in the Socioeconomic Study  
23 Area.



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Table 3. Population Growth, 1990-2010

Geographic Area	1990	2000	2010	Percent Change (1990-2010)	Population as Percentage of Study Area Total (2010)
Adams County, ID	3,254	3,476	3,976	22.2%	0.6%
Bear Lake County, ID	6,084	6,411	5,986	-1.6%	0.9%
Bingham County, ID	37,583	41,735	45,607	21.4%	6.6%
Blaine County, ID	13,552	18,991	21,376	57.7%	3.1%
Bonneville County, ID	72,207	82,522	104,234	44.4%	15.2%
Butte County, ID	2,918	2,899	2,891	-0.9%	0.4%
Camas County, ID	727	991	1,117	53.6%	0.2%
Caribou County, ID	6,963	7,304	6,963	0.0%	1.0%
Cassia County, ID	19,532	21,416	22,952	17.5%	3.3%
Clark County, ID	762	1,022	982	28.9%	0.1%
Custer County, ID	4,133	4,342	4,368	5.7%	0.6%
Elmore County, ID	21,205	29,130	27,038	27.5%	3.9%
Fremont County, ID	10,937	11,819	13,242	21.1%	1.9%
Gem County, ID	11,844	15,181	16,719	41.2%	2.4%
Gooding County, ID	11,633	14,155	15,464	32.9%	2.3%
Jefferson County, ID	16,543	19,155	26,140	58.0%	3.8%
Jerome County, ID	15,138	18,342	22,374	47.8%	3.3%
Lemhi County, ID	6,899	7,806	7,936	15.0%	1.2%
Lincoln County, ID	3,308	4,044	5,208	57.4%	0.8%
Madison County, ID	23,674	27,467	37,536	58.6%	5.5%
Minidoka County, ID	19,361	20,174	20,069	3.7%	2.9%
Oneida County, ID	3,492	4,125	4,286	22.7%	0.6%
Owyhee County, ID	8,392	10,644	11,526	37.3%	1.7%
Payette County, ID	16,434	20,578	22,623	37.7%	3.3%
Power County, ID	7,086	7,538	7,817	10.3%	1.1%
Twin Falls County, ID	53,580	64,284	77,230	44.1%	11.2%
Washington County, ID	8,550	9,977	10,198	19.3%	1.5%
Beaverhead County, MT	8,424	9,202	9,246	9.8%	1.3%
Gallatin County, MT	50,484	67,831	89,513	77.3%	13.0%
Madison County, MT	5,989	6,851	7,691	28.4%	1.1%
Silver Bow County, MT	33,941	34,606	34,200	0.8%	5.0%
Socioeconomic Study Area	504,629	594,018	686,508	36.0%	100.0%
Idaho	1,006,734	1,293,953	1,567,582	55.7%	-
Montana	799,065	902,195	989,415	23.8%	-
United States	248,790,925	281,421,906	308,745,538	24.1%	-

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Sources: U.S. Census Bureau, 2010a; U.S. Census Bureau, 2000; U.S. Census Bureau, 1990.

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Since 1990, the population in Idaho has increased by 55.7 percent, more than doubling the United States population growth rate (24.1 percent) during the same time period. In contrast, Montana's population has grown 23.8 percent, more similar to that of the United States as a whole. Both states experienced a higher percentage of population growth from 1990 to 2000 than they did from 2000 to 2010. The Socioeconomic Study Area population growth also outpaced the United States, growing 36 percent between 1990 and 2010.



1 Twin Falls, Idaho, with a population of 44,125 (U.S. Census Bureau, 2010b) is  
 2 the largest city in the Socioeconomic Study Area and the seventh largest city in  
 3 the State of Idaho. It is the county seat and largest city in Twin Falls County  
 4 (NACO, 2012). It is also the principal city of the Twin Falls, ID Micropolitan  
 5 Statistical Area, which includes Jerome and Twin Falls Counties. Twin Falls is the  
 6 hub community of the eight-county south-central Idaho region known as Magic  
 7 Valley (City of Twin Falls, 2012).

8 Bozeman, Montana, with a population of 37,280 (U.S. Census Bureau, 2010b), is  
 9 the largest city in the Montana portion of the Socioeconomic Study Area, and  
 10 the fourth largest city in the State of Montana. It is the county seat of Gallatin  
 11 County (NACO, 2012). Bozeman is home to Montana State University, which is  
 12 also the city's largest employer. Bozeman is served by the Bozeman Yellowstone  
 13 International Airport, and it serves as a gateway community to Yellowstone  
 14 National Park.

15 Butte, Montana, with a population of 33,525 (U.S. Census Bureau, 2010b) is the  
 16 county seat of Silver Bow County. In 1977, the city and county governments  
 17 consolidated to form the sole entity of Butte-Silver Bow. Butte has a long  
 18 history as a mining town, dating back to 1864 when prospectors first struck gold  
 19 in Silver Bow Creek (Butte Montana CVB, 2012). It is home to one of the  
 20 nation's largest National Historic Landmark Districts with over 4,000 historic  
 21 structures (Mainstreet Uptown Butte, 2012). Butte is also the location of one  
 22 of the country's largest Superfund sites, Upper Clark Fork River.

23 Rexburg, Idaho, with a population of 25,484 (U.S. Census Bureau, 2010b), is the  
 24 county seat and largest city in Madison county (NACO, 2012). It is also the  
 25 principal city of the Rexburg, ID Micropolitan Statistical Area. Rexburg is a hub  
 26 for commerce for most communities in the Upper Snake River Valley. Rexburg  
 27 is also well known as the host of the Idaho International Dance and Music  
 28 Festival and the home of Brigham Young University-Idaho (City of Rexburg,  
 29 2012).

30 The "Communities of Place" section below provides more information about  
 31 additional cities and towns in the Socioeconomic Study Area, as well as the  
 32 character and history of the counties. Table 4 shows age and gender  
 33 characteristics of the population in each county of the Socioeconomic Study  
 34 Area.

35 **Table 4. Demographic Characteristics, Share in Total Population**  
 36 **(percent), 2010**

Geographic Area	Women	20 to 64 Years of Age	Under 20 Years of Age	65 Years of Age or Older
Adams County, ID	48.7	58.2	21.0	20.8
Bear Lake County, ID	50.4	52.1	29.5	18.4
Bingham County, ID	49.8	52.8	35.8	11.4





Geographic Area	Women	20 to 64 Years of Age	Under 20 Years of Age	65 Years of Age or Older
Blaine County, ID	49.1	62.4	26.0	11.6
Bonneville County, ID	50.1	55.2	33.9	10.9
Butte County, ID	48.6	52.5	30.0	17.5
Camas County, ID	47.9	61.1	23.0	15.9
Caribou County, ID	49.6	53.3	30.9	15.8
Cassia County, ID	49.4	51.1	36.0	12.9
Clark County, ID	44.7	53.7	33.2	13.1
Custer County, ID	46.9	60.1	21.2	18.7
Elmore County, ID	48.3	58.9	31.1	10.0
Fremont County, ID	47.4	52.2	33.9	13.9
Gem County, ID	50.5	54.4	27.0	18.6
Gooding County, ID	48.3	52.6	32.3	15.1
Jefferson County, ID	49.8	52.2	38.2	9.6
Jerome County, ID	48.9	54.7	34.1	11.2
Lemhi County, ID	49	56.1	21.7	22.2
Lincoln County, ID	48.3	53.9	35.1	11.0
Madison County, ID	51.6	59.1	35.3	5.6
Minidoka County, ID	49.4	53.0	32.2	14.8
Oneida County, ID	48.9	51.1	32.2	16.7
Owyhee County, ID	48.9	54.1	31.9	14.0
Payette County, ID	50.5	53.3	31.4	15.3
Power County, ID	48.5	53.9	34.0	12.1
Twin Falls County, ID	50.6	55.7	30.4	13.9
Washington County, ID	50.8	52.4	27.1	20.5
Beaverhead County, MT	48.8	58.9	24.2	16.9
Gallatin County, MT	48.1	65.5	25.0	9.5
Madison County, MT	48	59.6	19.4	21.0
Silver Bow County, MT	49.5	59.2	24.4	16.4
Socioeconomic Study Area	49.5	56.7	30.8	12.5
Idaho	49.9	57.2	30.4	12.4
Montana	49.8	59.9	25.3	14.8
United States	50.8	60.1	26.9	13.0

Source: U.S. Census Bureau, 2010b.

The Socioeconomic Study Area, Idaho, Montana, and the United States all generally follow the same trend in gender, with approximately half of the population being female. Of the counties within the Socioeconomic Study Area, Clark County, ID (44.7 percent) and Custer County, ID (46.9) have the lowest percentages of women. And only one county, Madison County, ID (51.6 percent) has a higher percentage of women than the nation.

Idaho and the Socioeconomic Study Area have a younger population than the nation: each having 57 percent of the population between 20 and 64 years of age compared to 60 percent of the national population, and more than 30 percent

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1 of the population less than 20 years of age compared to only 27 percent of the  
2 national population. In contrast, Montana has a slightly older population than the  
3 nation, having nearly 15 percent of the population being 65 years or older  
4 compared to only 13 percent of the national population. Of the counties within  
5 the Socioeconomic Study Area, Bingham County, ID, Cassia County, ID,  
6 Jefferson County, ID, Jerome County, ID, Lincoln County, ID, Madison County,  
7 ID, and Power County, ID have the highest percentages of residents under the  
8 age of 20, all at least 7 percentage points higher than the national average (60.1  
9 percent). In contrast, Adams County, ID, Lemhi County, ID, Washington  
10 County, ID, and Madison County, MT have the highest percentages of residents  
11 over the age of 65, all at least 7 percentage points higher than the national  
12 average (13 percent).

#### 13 Interest Groups and Communities of Place

14 There is a range of interest groups in the Socioeconomic Study Area, including  
15 groups that focus advocacy on resource conservation and others that focus  
16 advocacy on resource uses such as livestock grazing. There are also groups that  
17 represent coalitions of interest groups. A list of interest groups that have  
18 requested to receive a copy of the DEIS are provided in Chapter XX. The types  
19 of interest groups identified within the Socioeconomic Study Area include the  
20 following: federal agencies, state agencies, county agencies, local agencies,  
21 congressional representatives, local representatives, academic institutions, civic  
22 organizations, local chambers of commerce, environmental groups, land  
23 conservation groups, outdoors groups, local school boards, farm associations,  
24 Native American groups and Tribal Governments, and various business groups.  
25 Specific types of business interest groups identified include the following: real  
26 estate, tourism, mineral extraction, farms/ranches, textile manufacturers,  
27 livestock growers, and news media.

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30 The Socioeconomic Study Area includes various communities of people who are  
31 bound together because of where they reside, work, visit, or otherwise spend a  
32 continuous portion of their time. Stakeholder groups currently benefitting from  
33 BLM- and FS-managed lands within the Socioeconomic Study Area include those  
34 associated with agriculture and livestock production; forest products; mining;  
35 travel, tourism, and recreation; and local residents (see, for example, BLM,  
36 2005b; BLM, 2008; BLM, 2010; USFS, 2003).

37 A common perception is that there is a dichotomy of values and attitudes  
38 between stakeholder groups in the Study Area between individuals or groups  
39 who feel that resource conservation and non-consumptive uses of public lands  
40 are more important than benefits derived from consumptive type uses, such as  
41 livestock grazing, timber harvesting, and mining. At a more nuanced scale,  
42 however, personal attitudes, interests, and values are quite complex, and these  
43 groupings are not mutually exclusive. The high value that residents and visitors  
44 place on small town character, private property rights, low population density,  
45 scenery and landscape, outdoors and open space, the rural lifestyle, fishing, and  
46 hunting are commonly held throughout the Study Area (see, for example, BLM,  
47 2005b; BLM, 2008; BLM, 2010; USFS, 2003). These values are also commonly  
48 expressed within individual county land use plans, and were also expressed by



1 attendees at both scoping meetings and the Economic Strategies Workshop that  
2 BLM and FS held in Twin Falls, ID, in June 2012.

3 A unifying theme expressed by residents of the Socioeconomic Study Area –  
4 including in previous planning processes – is the concern for the preservation of  
5 rural characteristics and values. For example, a shift toward larger, more  
6 mechanized agricultural operations, as well as the increasing diversification of  
7 local economies, have challenged traditional ways of life in many communities.  
8 These changes are evident in the declining number of mid-sized farms and the  
9 number of workers employed in agriculture and agriculture-based industries  
10 (Blaine County, 1994; Power County, 2009; Headwaters Economics, 2012; U.S.  
11 Department of Commerce, 2012a). Nevertheless, farming and ranching remain  
12 important parts of the economy, society and culture across the Socioeconomic  
13 Study Area.

14 In some areas, particularly those with scenic and recreational amenities,  
15 farmlands and ranches are being sold and used for recreation purposes or  
16 subdivided for homesites. This phenomenon is part of a larger trend in which  
17 many rural communities in the western United States have witnessed "migration  
18 turnaround," a reversal of the rural-to-urban migration that characterized much  
19 of the United States prior to the 1970s. Many rural areas are now experiencing  
20 a significant increase in population after decades of stability or decline (BLM,  
21 2005b). In response to recent commercial and industrial expansion and the  
22 associated demand for affordable, diversified housing, many counties are  
23 encouraging infill development and other strategies to prevent the loss of  
24 agricultural lands and maintain the rural character of their communities  
25 (Caribou County, 2006; Silver Bow County, 2008).

26 Despite population increases across most of the study area, some rural areas  
27 continue to lose population (Idaho Department of Labor, 2011). This is due, in  
28 part, to the out-migration of young people and aging of the population (BLM,  
29 2010; Idaho Commerce & Labor, 2005). In contrast to communities where in-  
30 migration is occurring, residents of these communities may be more concerned  
31 about the economic survival of their communities. Multiple use management of  
32 and access to public lands, which comprise a large portion of lands in many  
33 counties, are cited as paramount concerns in these areas (BLM, 2005b).  
34 Residents expressed some similar themes during public scoping and the June  
35 2012 Economic Strategies Workshop for this planning effort (BLM and USFS,  
36 2012; BLM, 2012d). Comments received from these outreach efforts came from  
37 non-profit or citizen groups; local, state and Federal governments; the  
38 commercial sector and members of the general public. These comments  
39 strongly supported maintaining or expanding access to public lands for grazing  
40 and recreational purposes. Many expressed concern that placing additional  
41 constraints on these activities might create economic hardship within their  
42 communities and alter traditional cultural values and lifestyles. Additionally,  
43 some argued that constraints on livestock grazing would exacerbate existing



1 trends of conversion of ranch lands to agricultural and residential uses, perhaps  
2 with the unintended consequence of decreasing open space and wildlife habitat.  
3 Other issues of concerns cited by residents include the management of invasive  
4 species, fire and fuels, and whether public lands should be opened to wind  
5 energy development.

6 Economic activity and land use patterns in the Socioeconomic Study Area have  
7 been strongly influenced by the region's dramatic geography. Agriculture,  
8 timber harvesting, and mining have historically defined the character and lifestyle  
9 of much of the Study Area. Within the past two decades, however, increasing  
10 urbanization and the growth of service sector industries, including retail trade,  
11 local government, and health care, have been powerful agents of change on the  
12 landscape and local cultures (Headwaters Economics, 2012; U.S. Department of  
13 Commerce, 2012a).

14 The rolling hills and valleys of the Northern Basin and Range, which stretches  
15 across much of southern Idaho, provide ample opportunities for livestock  
16 grazing with occasional croplands, and contains all or substantial parts of  
17 Caribou, Cassia, Oneida, Owyhee, Power, and Twin Falls Counties (McGrath et  
18 al., 2002). The region is still heavily dependent on agriculture and agriculture-  
19 based industries, despite stagnant or declining employment in these sectors  
20 (Headwaters Economics, 2012; U.S. Department of Commerce, 2012a). Twin  
21 Falls is the most populous city in the Socioeconomic Study Area, and serves as  
22 the major commercial and industrial hub of south-central Idaho's Magic Valley  
23 region, so named due to the transformation of the basin into productive  
24 farmland through the construction of extensive irrigation systems in the early  
25 1900s.

26 The broad Snake River Plain that arcs just north of Idaho's Basin and Range  
27 region contains all or substantial parts of Ada, Adams, Bingham, Canyon,  
28 Elmore, Gem, Gooding, Jefferson, Jerome, Lincoln, Madison, Minidoka, Payette,  
29 and Washington Counties. Potatoes, sugar beets, alfalfa, grains, and vegetables  
30 are grown in areas where irrigation and soil depth are suitable for crop  
31 production (McGrath et al., 2002). Other prominent land uses include livestock  
32 grazing, cattle feedlots, and dairy operations. The barren, lava-field landscape of  
33 Craters of the Moon National Monument is a popular visitor attraction  
34 showcasing the region's unique geologic history. Upward trends in population  
35 growth, fueled by expansion in the retail trade and small manufacturing sectors  
36 over the past decade, have left some school districts and governmental service  
37 struggling to provide maintain adequate levels of service (Jefferson County,  
38 2005).

39 Butte, Camas, Clark, Custer, and Lemhi Counties are located in Idaho's Rocky  
40 Mountain region, which rises sharply from the northern edge of the Snake River  
41 Plain. Here, timber harvesting, grazing, and recreation are the predominant land  
42 uses (McGrath et al., 2002). The counties of Bonneville, Butte, Caribou, and





1 Fremont in Idaho and Beaverhead, Silver Bow, Madison, and Gallatin in  
2 southwestern Montana also offer abundant opportunities for outdoor  
3 recreation. Popular activities include fishing, hunting, hiking, horseback riding,  
4 OHV use, skiing, and sightseeing, which attract residents, as well as visitors  
5 from all areas of the United States (BLM, 2005b; BLM, 2008). In many  
6 communities, such as Butte, MT, growth in tourism and recreation industries  
7 has largely outpaced historical land uses. The in-migration of residents who  
8 purchase smaller ranches or farms, but do not depend on the economic return  
9 from these activities as their primary source of income, has created conflict with  
10 long-time rural residents (BLM, 2008).

11 Bear Lake County, which occupies the far southeastern corner of Idaho and the  
12 Wasatch and Uinta Range, has remained largely rural, but serves also as an  
13 important destination for tourists and recreationists.

#### 14 County Land Use Plans

15 BLM/USFS-administered and other federal land in the Socioeconomic Study  
16 Area is intermingled with State and private lands. County governments have  
17 land use planning responsibility for the private lands located within their  
18 jurisdictions. County level land use plans (also referred to as Comprehensive  
19 plans or Growth Policies) were identified for twenty-eight of the thirty-one  
20 counties within the Socioeconomic Study Area (Adams County, 2006; Bingham  
21 County, 2005; Blaine County, 1994; Bonneville County, 2004; Camas County,  
22 2006; Caribou County, 2006; Cassia County, 2006; Clark County, 2010; Custer  
23 County, 2006; Elmore County, 2004; Fremont County, 2008; Gem County,  
24 2010; Gooding County, 2010; Jefferson County, 2005; Jerome County, 2006;  
25 Lemhi County, 2007; Lincoln County, 2008; Madison County, 2008; Minidoka  
26 County, 2001; Owyhee County, 2010; Payette County, 2006; Power County,  
27 2009; Twin Falls County, 2008; Washington County, 2010; Beaverhead County,  
28 2009; Gallatin County, 2005; Madison County, 2006; Silver Bow County, 2008).  
29 Of the counties with identified land use plans, all had some form of economic  
30 development component, such as promotion of specific industrial sectors and  
31 natural resource use.

#### 32 **Economic Conditions**

33 Economic analysis is concerned with the production, distribution, and  
34 consumption of goods and services. This section provides a summary of  
35 economic information, including trends and current conditions. It also identifies  
36 and describes major economic sectors in the Socioeconomic Study Area that  
37 can be affected by management actions. Most likely affected would be those  
38 economic activities that rely or could rely on public lands, such as recreation  
39 and livestock grazing.

#### 40 Economic Sectors, Employment, and Personal Income



The distribution of employment and income by industry sector within the Socioeconomic Study Area is summarized in Table 5 and Table 6 below. See [Appendix X](#) for equivalent data by county.

**Table 5. Employment by Sector within the Socioeconomic Study Area**

Socioeconomic Study Area	Absolute			Percentage of total		Percent Change 2001-2010
	2001	2010	Change 2001-2010	2001	2010	
<b>Total Employment (number of jobs)</b>	<b>352,752</b>	<b>395,236</b>	<b>42,484</b>	<b>100.0%</b>	<b>100.0%</b>	<b>12.0%</b>
<b>Non-services related</b>	<b>87,102</b>	<b>82,972</b>	<b>-4,129</b>	<b>24.7%</b>	<b>21.0%</b>	<b>-4.7%</b>
Farm	29,597	26,909	-2,688	8.4%	6.8%	-9.1%
Forestry, fishing, & related activities	4,615	4,704	89	1.3%	1.2%	1.9%
Mining (including oil and gas)	1,431	2,046	615	0.4%	0.5%	43.0%
Construction	25,636	25,897	262	7.3%	6.6%	1.0%
Manufacturing	25,822	23,416	-2,407	7.3%	5.9%	-9.3%
<b>Services related</b>	<b>200,014</b>	<b>243,372</b>	<b>43,358</b>	<b>56.7%</b>	<b>61.6%</b>	<b>21.7%</b>
Utilities	1,213	1,546	333	0.3%	0.4%	27.4%
Wholesale trade	13,480	13,871	391	3.8%	3.5%	2.9%
Retail trade	41,426	43,618	2,192	11.7%	11.0%	5.3%
Transportation and warehousing	9,619	11,215	1,596	2.7%	2.8%	16.6%
Information	4,381	5,095	714	1.2%	1.3%	16.3%
Finance and insurance	9,319	13,699	4,381	2.6%	3.5%	47.0%
Real estate and rental and leasing	11,339	18,249	6,909	3.2%	4.6%	60.9%
Professional and technical services <sup>1</sup>	23,409	27,865	4,455	6.6%	7.1%	19.0%
Management of companies and enterprises	792	778	-14	0.2%	0.2%	-1.8%
Administrative and waste services	12,976	16,229	3,253	3.7%	4.1%	25.1%
Educational services	2,217	3,618	1,401	0.6%	0.9%	63.2%
Health care and social assistance	21,187	31,292	10,105	6.0%	7.9%	47.7%
Arts, entertainment, and recreation	6,331	8,435	2,103	1.8%	2.1%	33.2%
Accommodation and food services	24,261	26,417	2,157	6.9%	6.7%	8.9%
Other services, except public administration	18,065	21,446	3,382	5.1%	5.4%	18.7%
<b>Government</b>	<b>54,242</b>	<b>57,046</b>	<b>2,804</b>	<b>15.4%</b>	<b>14.4%</b>	<b>5.2%</b>
Federal	12,456	12,265	-191	3.5%	3.1%	-1.5%
State	9,884	10,537	653	2.8%	2.7%	6.6%
Local	31,052	33,807	2,755	8.8%	8.6%	8.9%



1 Sources: Headwaters Economics, 2012; U.S. Department of Commerce, 2012a.

2 <sup>1</sup>Professional and technical services activities require a high degree of expertise and training. Example activities  
3 include: legal advice and representation; accounting, bookkeeping, and payroll services; architectural,  
4 engineering, and specialized design services; computer services; consulting services; research services;  
5 advertising services; photographic services; translation and interpretation services; and veterinary services.

6 With respect to employment by industry sector, the services related sector  
7 accounted for the largest share (61.6 percent) of total employment in the  
8 Socioeconomic Study Area in 2010. This reflects a growth rate of 21.7 percent  
9 from 2001 (compared to an overall employment growth rate for all sectors of  
10 12.0 percent from 2001). Compared to the services related sector, the non-  
11 services related sector and the government sector represented lower levels of  
12 employment, 21.0 percent and 14.4 percent, respectively. At the industry level,  
13 retail trade (11.0 percent) accounted for the largest share of employment of all  
14 industries in the Socioeconomic Study Area in 2010, followed by local  
15 government (8.6 percent), health care and social assistance (7.9 percent), and  
16 professional and technical services (7.1 percent). Although mining contributed a  
17 relatively small share of total employment within the study area in 2010, a  
18 notable proportion of total employment within Caribou County (7.2 percent)  
19 and Clark County (4.1 percent) came from the mining industry. The industries  
20 that demonstrated the largest growth between 2001 and 2010 were educational  
21 services, with an increase of 63.2 percent; real estate rental and leasing, with an  
22 increase of 60.9 percent; and health care and social assistance, with an increase  
23 of 47.7 percent. The only industries to decrease in employment levels from  
24 2001 to 2010 were management of companies and enterprises (decrease of 51.3  
25 percent) and farming (decrease of 9.2 percent).

26 **Appendix X** provides county-level employment figures. The greatest difference  
27 in industry sector proportion between counties in 2010 was in the professional  
28 and technical services industry. Professional and technical services contributed a  
29 low 1.5 percent of total employment in Power County, Idaho but a much larger  
30 percentage in Butte County, Idaho (83.8 percent). Other industries also showed  
31 large variation in shares of employment across counties, including the farm  
32 industry (from 0.7 percent in Silver Bow County, Montana to 25.6 percent in  
33 Gooding County, Idaho) and the manufacturing industry (from 0.6 percent in  
34 Butte County, Idaho to 24.8 percent in Power County, Idaho). Other counties  
35 identified as having relatively high employment shares in the farming industry  
36 include Lincoln County, Idaho (22.5 percent), Oneida County, Idaho (22.6  
37 percent), and Owyhee County, Idaho (25.3 percent). The federal government  
38 industry also showed a high level of variation in shares across counties (from 1.0  
39 percent in Blaine County, Idaho to 35.5 percent in Elmore County, Idaho).  
40 However, in 26 of the 31 counties included in the Socioeconomic Study Area,  
41 the federal government contributed less than 5 percent of employment).  
42 Recreation-related economic activity, including the arts, entertainment and  
43 recreation; retail trade; and accommodation and food services industries, varied  
44 across the counties (by 8.4 percentage points, 12.7 percentage points, and 16.7  
45 percentage points, respectively). Note that these sectors are influenced not only



by recreation but also by many other industries. See [Appendix X](#) for individual county detail.

**Table 6. Labor Income by Sector within the Socioeconomic Study Area (2010 dollars)**

Socioeconomic Study Area	Absolute (Millions)			Percentage of total <sup>1</sup>		Percent Change 2001-2010
	2001	2010	Change 2001-2010	2001	2010	
<b>Total Labor Earnings<sup>2</sup></b>	<b>\$12,847.6</b>	<b>\$15,018.5</b>	<b>\$2,171.0</b>	<b>100.0%</b>	<b>100.0%</b>	<b>16.9%</b>
<b>Non-services related</b>	<b>\$3,633.4</b>	<b>\$3,899.2</b>	<b>\$265.8</b>	<b>28.3%</b>	<b>26.0%</b>	<b>7.3%</b>
Farm	\$1,103.1	\$1,241.9	\$138.8	8.6%	8.3%	12.6%
Forestry, fishing, & related activities	\$139.3	\$136.5	-\$2.8	1.1%	0.9%	-2.0%
Mining (including oil and gas)	\$126.5	\$367.2	\$240.7	1.0%	2.4%	190.3%
Construction	\$1,147.8	\$1,007.2	-\$140.6	8.9%	6.7%	-12.2%
Manufacturing	\$1,116.7	\$1,146.5	\$29.7	8.7%	7.6%	2.7%
<b>Services related</b>	<b>\$6,793.2</b>	<b>\$8,502.3</b>	<b>\$1,709.0</b>	<b>52.9%</b>	<b>56.6%</b>	<b>25.2%</b>
Utilities	\$197.2	\$216.6	\$19.4	1.5%	1.4%	9.8%
Wholesale trade	\$617.9	\$778.1	\$160.2	4.8%	5.2%	25.9%
Retail trade	\$1,082.1	\$1,148.1	\$66.1	8.4%	7.6%	6.1%
Transportation and warehousing	\$468.5	\$542.0	\$73.5	3.6%	3.6%	15.7%
Information	\$203.6	\$228.7	\$25.1	1.6%	1.5%	12.3%
Finance and insurance	\$301.8	\$419.3	\$117.5	2.3%	2.8%	38.9%
Real estate and rental and leasing	\$307.6	\$249.0	-\$58.7	2.4%	1.7%	-19.1%
Professional and technical services	\$1,335.4	\$1,695.5	\$360.1	10.4%	11.3%	27.0%
Management of companies and enterprises	\$53.4	\$94.5	\$41.1	0.4%	0.6%	76.9%
Administrative and waste services	\$281.1	\$413.4	\$132.3	2.2%	2.8%	47.1%
Educational services	\$98.5	\$148.0	\$49.5	0.8%	1.0%	50.3%
Health care and social assistance	\$801.0	\$1,306.4	\$505.4	6.2%	8.7%	63.1%
Arts, entertainment, and recreation	\$178.3	\$204.9	\$26.6	1.4%	1.4%	14.9%
Accommodation and food services	\$416.6	\$486.8	\$70.2	3.2%	3.2%	16.8%
Other services, except public administration	\$450.0	\$570.9	\$120.9	3.5%	3.8%	26.9%
<b>Government</b>	<b>\$2,436.9</b>	<b>\$2,871.8</b>	<b>\$434.9</b>	<b>19.0%</b>	<b>19.1%</b>	<b>17.8%</b>
Federal	\$771.5	\$959.6	\$188.1	6.0%	6.4%	24.4%
State	\$412.1	\$502.4	\$90.3	3.2%	3.3%	21.9%





Socioeconomic Study Area	Absolute (Millions)			Percentage of total <sup>1</sup>		Percent Change 2001-2010
	2001	2010	Change 2001-2010	2001	2010	
Local	\$1,223.5	\$1,393.9	\$170.4	9.5%	9.3%	13.9%
<b>Non-labor Income<sup>3</sup></b>	<b>\$6,007.1</b>	<b>\$8,536.4</b>	<b>\$2,529.2</b>	<b>34.0%</b>	<b>38.8%</b>	<b>42.1%</b>
Dividends, interest, and rent	\$3,473.3	\$4,332.0	\$858.7	19.7%	19.7%	24.7%
Personal current transfer receipts <sup>4</sup>	\$2,533.8	\$4,204.4	\$1,670.6	14.3%	19.1%	65.9%
Contributions to government social insurance <sup>5</sup>	\$1,414.9	\$1,822.9	\$407.9	8.0%	8.3%	28.8%
<b>Total Personal Income<sup>6</sup></b>	<b>\$17,672.2</b>	<b>\$21,980.1</b>	<b>\$4,307.9</b>	<b>100.0%</b>	<b>100.0%</b>	<b>24.4%</b>

Sources: Headwaters Economics, 2012; U.S. Department of Commerce, 2012a. Values reported in 2001 dollars were converted to 2010 dollars using the Consumer Price Index (BLS, 2012a).

<sup>1</sup>Industry earnings are reported as a share of total labor earnings. Dividends, interest, and rent; personal current transfer receipts; and contributions to government social insurance are reported as a share of personal income.

<sup>2</sup>Total labor earnings are reported by place of work.

<sup>3</sup>Non-labor income includes dividends, interest, and rent and personal current transfer receipts.

<sup>4</sup>“Personal current transfer receipts” are benefits received by persons for which no current services are performed. They are payments by government and business to individuals and institutions, such as retirement and disability insurance benefits.

<sup>5</sup>“Contributions for government social insurance” consists of payments by employers, employees, the self-employed, and other individuals who participate in the following government programs: Old-age, Survivors, and Disability Insurance; Medicare; unemployment insurance; railroad retirement; pension benefit guarantee; veterans’ life insurance; publicly-administered workers’ compensation; military medical insurance; and temporary disability insurance (U.S. Department of Commerce, 2012b).

<sup>6</sup>Total personal income is reported by place of residence.

With respect to personal earnings, the services related sector accounted for the largest share (56.6 percent) of personal earnings in the Socioeconomic Study Area in 2010, followed by the non-services related sector (26.0 percent) and the government sector (19.1 percent). In 2010, the individual industries that generated the largest shares of personal earnings included the professional and technical services industry (11.3 percent), the local government industry (9.3 percent), and the health care and social assistance industry (8.7 percent). Mining, management of companies and enterprises, and healthcare and social assistance all showed strong trends of growth since 2001 (a percent change of 190.3 percent, 76.9 percent, and 63.1 percent, respectively); these were the highest growth rates between 2001 and 2010. During the same time period, the real estate, rental and and leasing industry and the construction industry experienced the largest decline in earnings of all the industry sectors (declines of 19.1 percent and 12.2 percent, respectively).

**Appendix X** provides county-level labor earnings figures. The county-by-county patterns are similar to those for employment, with relatively more variation in income from professional and technical services than from other industries; professional and technical services contribute the most to earnings in Butte County, Idaho at 93.5 percent. At the other end of the range, professional and

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1 technical services accounts for only 1.2 percent of earnings in Elmore County,  
2 Idaho and only 1.3 percent in Power County, Idaho. Of the counties for which  
3 data are provided (22 of 31), only three earn more than 10 percent of income  
4 from the professional and technical services industry. Farm income varied from  
5 a low share of -2.1 percent of total earnings in Adams County, Idaho to highs of  
6 47.3 percent in Gooding County, Idaho, followed by 46.9 percent in Owyhee  
7 County, Idaho. Manufacturing income varied in proportion across the counties,  
8 from 0.2 percent of earnings in Butte County, Idaho to 32.9 percent in Power  
9 County, Idaho. Earnings from the mining sector are left undisclosed in 15 of the  
10 31 counties included in the Socioeconomic Study Area due to confidentiality  
11 requirements. Furthermore, mining sector earnings figures are not provided for  
12 nine of the 31 counties because the earnings amounted to less than \$50,000 in  
13 those counties. For the counties for which data are available, earnings from  
14 mining range from 0.1 percent in Twin Falls County, Idaho to a share of 12.7  
15 percent of total earnings in Caribou County, Idaho. Accommodation and food  
16 services contributes 0.1 percent of total earnings in Butte County, Idaho and up  
17 to 16.6 percent in Madison County, Montana. The other recreation and travel-  
18 related industries (i.e., retail trade and arts, entertainment, and recreation)  
19 contribute between 0.1 percent (arts, entertainment, and recreation in Elmore  
20 County, Idaho) and 16.2 percent (retail trade in Adams County, Idaho).

21 In addition to industry shares of labor earnings, another metric – residence  
22 adjustment – provides information about the economic conditions in the  
23 Socioeconomic Study Area. Residence adjustment represents the net inflow of  
24 the earnings of inter-area commuters. A positive number indicates that, on  
25 balance, area residents commute outside to find jobs; a negative number  
26 indicates that, on balance, people from outside the area commute in to find jobs.  
27 Jefferson County, Idaho's residence adjustment represented 27.8 percent of its  
28 total personal income, the highest share of all counties in the Socioeconomic  
29 Study Area. Gem County, Idaho had the second highest share (25.8 percent).  
30 Residence adjustment accounted for the most lowest share of total personal  
31 income in Butte County, Idaho (-701.3 percent), followed by Caribou County,  
32 Idaho (-22.1 percent). See Appendix X for individual county detail.

33 In addition to the 31 counties of the Socioeconomic Study Area, **Appendix X**  
34 provides employment and earnings data for Ada and Canyon Counties in Idaho,  
35 which constitute a secondary study area as discussed in the introduction. In  
36 2010, overall employment in the two-county secondary study area (339,924)  
37 was only slightly smaller than overall employment levels in the 31-county  
38 primary socioeconomic study area (395,236). Earnings in the two-county  
39 secondary study area were \$15,021.40, approximately the same as the earnings  
40 in the primary socioeconomic study area (\$15,018.50). The economies of the  
41 Ada and Canyon Counties are relatively diversified, with no industry capturing  
42 more than 12.3 percent of the workforce. In Ada County, the health care and  
43 social assistance industry dominates, contributing 12.0 percent of total  
44 employment; the next largest contributors are retail trade (11.1 percent) and



administrative and waste services (8.9 percent). In Canyon County, retail trade contributes the largest share of employment (12.3 percent), followed by healthcare and social assistance (11.2 percent) and manufacturing (10.6 percent). Besides retail trade, other industries that are directly and indirectly affected by recreation (e.g., accommodation and food services; arts, entertainment, and recreation) do not contribute significantly to secondary study area counties. The impact analysis in the next chapter will document potential effects on the economy in the secondary study area, as well as for the 31 counties within the primary socioeconomic study area.

Table 7 presents the unemployment rates for each county in the Socioeconomic Study Area, as well as the rates for the counties aggregated and the States of Idaho and Montana. The data show that unemployment in the Socioeconomic Study Area matches or approximates that of the State for each of the years listed. At the county level, in 2011, the unemployment rates in the Socioeconomic Study Area ranged from a low of 5.0 percent in Owyhee County to a high of 17.3 percent in Adams County.

**Table 7. Annual Unemployment, 2007 – 2011**

<b>Geographic Area</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Adams County, ID	5.5%	10.0%	14.0%	16.5%	17.3%
Bear Lake County, ID	2.3%	3.1%	5.0%	6.2%	5.5%
Bingham County, ID	2.6%	3.7%	5.5%	7.0%	7.3%
Blaine County, ID	2.3%	3.6%	7.1%	8.9%	8.8%
Bonneville County, ID	2.1%	3.3%	5.4%	6.6%	7.1%
Butte County, ID	2.4%	4.1%	4.8%	6.2%	7.1%
Camas County, ID	2.4%	4.3%	8.9%	11.2%	11.3%
Caribou County, ID	2.8%	3.4%	5.6%	7.6%	7.6%
Cassia County, ID	3.1%	3.7%	5.0%	6.8%	6.8%
Clark County, ID	2.2%	3.2%	5.1%	8.4%	8.4%
Custer County, ID	3.3%	4.3%	5.2%	7.1%	7.3%
Elmore County, ID	3.8%	5.3%	7.2%	8.5%	9.0%
Fremont County, ID	3.2%	4.7%	7.5%	9.2%	8.2%
Gem County, ID	3.7%	6.7%	9.9%	11.1%	11.4%
Gooding County, ID	2.1%	3.2%	5.3%	6.9%	6.6%
Jefferson County, ID	2.4%	3.6%	5.9%	7.3%	7.2%
Jerome County, ID	2.8%	4.0%	6.0%	8.1%	7.8%
Lemhi County, ID	4.4%	6.4%	7.6%	9.9%	10.9%
Lincoln County, ID	3.3%	5.3%	10.2%	13.0%	12.4%
Madison County, ID	2.1%	3.3%	5.1%	5.8%	6.2%
Minidoka County, ID	3.8%	4.3%	5.7%	7.5%	7.3%
Oneida County, ID	1.7%	3.3%	5.3%	5.0%	5.1%
Owyhee County, ID	1.9%	2.9%	3.7%	4.8%	5.0%
Payette County, ID	4.1%	5.6%	8.4%	9.2%	9.6%
Power County, ID	3.9%	5.0%	6.9%	9.3%	9.2%
Twin Falls County, ID	2.7%	3.8%	5.9%	8.1%	8.0%
Washington County, ID	4.1%	5.4%	8.4%	10.0%	10.1%
Beaverhead County, MT	2.7%	3.6%	4.4%	5.4%	5.7%
Gallatin County, MT	2.5%	3.7%	6.2%	6.7%	6.1%
Madison County, MT	2.8%	3.7%	5.6%	7.0%	6.9%



Geographic Area	2007	2008	2009	2010	2011
Silver Bow County, MT	3.5%	4.3%	5.6%	6.0%	6.3%
Socioeconomic Study Area	2.7%	4.0%	6.1%	7.4%	7.4%
Idaho	3.0%	4.7%	7.4%	8.8%	8.7%
Montana	3.4%	4.5%	6.1%	6.9%	6.8%

Source: BLS, 2012b.

### Recreation

Approximately 34,430 jobs (17.2 percent of total employment in 2010) in the Socioeconomic Study Area are related to travel and tourism, which was 2.1 percentage points higher than the national average (15.1 percent) (Headwaters Economics, 2012). This estimate is based on data from the U.S. Census Bureau County Business Patterns and includes industrial sectors that, at least in part, provide goods and services to visitors, the local economy, and the local population. This estimate includes both full- and part-time jobs. Most of these jobs are concentrated in the “accommodation and food services” and “retail trade” sectors. Jobs related to travel and tourism are more likely to be seasonal and/or part-time and more likely to have lower average annual earnings than jobs in non-travel and tourism-related sectors. The average annual wage per travel or tourism related job was \$15,152 (2010 dollars) in the Socioeconomic Study Area in 2010, compared to \$32,425 for jobs not related to travel and tourism (Headwaters Economics, 2012).

Although much of the recreation use on BLM lands is dispersed and far from counting devices (e.g., trail registers, fee stations, or vehicle traffic counters), approximations of the number of visitors to BLM-administered lands can be obtained from the BLM Recreation Management Information Service (RMIS) database, in which BLM recreation specialists provide estimated total visits and visitor days to various sites within their field office boundaries. Table 8 summarizes BLM visitation data in each field office area for fiscal year (FY) 2011 (i.e., the year ending September 30, 2011), and USFS visitation data from Round 2 of the National Visitor Use Monitoring program (NVUM).

**Table 8. Estimated Annual Visits by Planning Unit**

Field Office or National Forest	Total Individual Visits, FY 2011	Local Individual Visits <sup>1</sup>	Non-local Individual Visits <sup>1</sup>	Non Primary <sup>2</sup> Individual Visits <sup>1</sup>
Bruneau Field Office, ID	24,740	13,360	8,164	3,216
Burley Field Office, ID	642,867	347,148	212,146	83,573
Challis Field Office, ID	217,505	117,453	71,777	28,276
Four Rivers Field Office, ID	235,643	127,247	77,762	30,634
Jarbidge Field Office, ID	39,980	21,589	13,193	5,197
Owyhee Field Office, ID	288,968	156,043	95,359	37,566
Pocatello Field Office, ID	292,275	157,829	96,451	37,996
Salmon Field Office, ID	269,976	145,787	89,092	35,097
Shoshone Field Office, ID	926,637	500,384	305,790	120,463
Upper Snake Field Office, ID	1,174,536	634,249	387,597	152,690
Butte Field Office, MT	1,878,049	1,014,146	619,756	244,146





### 3. Affected Environment

Dillon Field Office, MT	1,431,825	773,186	472,502	186,137
Beaverhead-Deerlodge NF	907,830	490,228	299,584	118,018
Boise NF	1,509,436	815,095	498,114	196,227
Caribou-Targhee NF <sup>3</sup>	1,291,105	697,197	426,065	167,844
Salmon-Challis NF	236,435	127,675	78,024	30,737
Sawtooth NF	1,086,883	586,917	358,671	141,295
Total	12,454,690	6,725,533	4,110,048	1,619,110

NF National Forest

Source: BLM data from BLM (2012c); FS data from USFS (2012b).

<sup>1</sup>Based on national averages for all National Forests. White and Gooding (2012).

<sup>2</sup>Non primary means incidental visits where the primary purpose of the trip was other than visiting the National Forest being surveyed.

<sup>3</sup>Includes Curlew National Grassland

Visitor expenditures can be approximated by using the RMIS and NVUM visitation data in conjunction with data from USFS, which has constructed recreation visitor spending profiles based on years of survey data gathered through the USFS NVUM. Although the data are collected from National Forest visitors, the analysis that follows is based on the NVUM profiles because the BLM has no analogous database. The profiles break down recreation spending by type of activity, day use versus overnight use, local versus non-local visitors, and “non-primary” visits (i.e., incidental visits where the primary purpose of the trip was other than visiting public lands). Table 9 summarizes individual and party visits and expenditures by trip type and estimated direct expenditure.

**Table 9. Visitor Spending from Recreation on BLM and USFS Land in Socioeconomic Study Area, FY 2011**

Trip Type	Percent of Visits <sup>1</sup>	Estimated Number of Individual Visits	Average Party Size <sup>1</sup>	Estimated Number of Party Visits	Party Spending Per Visit (2010 \$) <sup>1</sup>	Estimated direct expenditure (Millions \$)
Non-local Day Trips	10	1,245,469	2.5	498,188	\$63.68	\$31.7
Non-local Overnight on Public Lands	9	1,120,922	2.6	431,124	\$237.27	\$102.3
Non-local Overnight off Public Lands	14	1,743,657	2.6	670,637	\$522.63	\$350.5
Local Day Trips	49	6,102,798	2.1	2,906,094	\$33.56	\$97.5
Local Overnight on Public Lands	4	498,188	2.6	191,611	\$165.14	\$31.6
Local Overnight off Public Lands	1	124,547	2.4	51,895	\$216.48	\$11.2
Non Primary Visits	13	1,619,110	2.5	647,644	\$376.62	\$243.9
Total	100	12,454,690	-	5,397,192	-	\$868.8

NA Not Applicable

<sup>1</sup>Visits on BLM land estimated using the national average distribution of trip types for all national forests, from White and Gooding (2012). Visits on USFS land by trip type are provided in NVUM (USFS, 2012b). Party spending per visit was converted from 2009 to 2010 dollars using the Consumer Price Index (BLS, 2012a).



As Table 9 shows, the estimated total visitor spending on BLM and USFS lands in the Socioeconomic Study Area was about \$868.83 million in FY 2011. It is important to note that this includes expenditures from local residents and from visitors whose use of public lands was incidental to some other primary purpose.

#### Grazing

Farming employed approximately 26,909 people in the Socioeconomic Study Area in 2010, accounting for 6.8 percent of total employment. The average annual wage for a farm job in the Study Area was \$27,448 in 2010. This was lower than the average annual wage for a non-farm job (\$29,268) (Headwaters Economics, 2012).<sup>2</sup>

Table 10 presents the proportion of personal income originating from farm earnings and the farm cash receipts from livestock received throughout the Socioeconomic Study Area and Idaho and Montana as a whole. As shown in Table 10, agricultural services are an important contribution in several counties; however, in some counties the data are not released for confidentiality reasons.

**Table 10. Farm Earnings Detail, 2010 (2010 dollars)**

Geographic Area	Farm Earnings as Share of All Earnings	Agriculture and Forestry Support Activities Earnings as Share of All Earnings <sup>1</sup>	Farm Cash Receipts (Millions)	Share of Farm Cash Receipts from Livestock	Share of Farm Cash Receipts from Crops
Adams County, ID	-2.1%	(D)	\$11.5	80.8%	19.2%
Bear Lake County, ID	7.8%	(D)	\$21.9	74.7%	25.3%
Bingham County, ID	5.3%	2.7%	\$310.0	33.5%	66.5%
Blaine County, ID	1.4%	(D)	\$34.3	39.9%	60.1%
Bonneville County, ID	1.7%	(D)	\$177.8	51.3%	48.7%
Butte County, ID	1.3%	(D)	\$41.6	23.2%	76.8%
Camas County, ID	29.5%	(D)	\$20.0	9.9%	90.1%
Caribou County, ID	5.6%	(D)	\$51.6	43.2%	56.8%
Cassia County, ID	28.2%	2.2%	\$688.7	72.1%	27.9%
Clark County, ID	31.6%	(D)	\$38.0	22.0%	78.0%
Custer County, ID	9.5%	(D)	\$22.6	65.6%	34.4%
Elmore County, ID	6.6%	0.3%	\$349.3	66.7%	33.3%
Fremont County, ID	-1.1%	(D)	\$59.8	19.5%	80.5%
Gem County, ID	6.3%	(D)	\$37.7	53.1%	46.9%
Gooding County, ID	47.3%	2.5%	\$664.4	90.0%	10.0%
Jefferson County, ID	19.9%	(D)	\$247.0	48.3%	51.7%
Jerome County, ID	28.0%	3.5%	\$516.0	75.9%	24.1%
Lemhi County, ID	2.6%	(D)	\$25.4	88.5%	11.5%
Lincoln County, ID	46.0%	(D)	\$147.2	76.2%	23.8%
Madison County, ID	-1.1	1.0%	\$63.5	10.5%	89.5%
Minidoka County, ID	24.1%	(D)	\$290.2	28.5%	71.5%
Oneida County, ID	27.8%	(D)	\$35.9	30.5%	69.5%
Owyhee County, ID	46.9%	(D)	\$263.8	63.5%	36.5%
Payette County, ID	8.4%	(D)	\$165.1	77.6%	22.4%

<sup>2</sup> All dollar values were converted to 2010 dollars using the Consumer Price Index (BLS, 2012a).



### 3. Affected Environment

Geographic Area	Farm Earnings as Share of All Earnings	Agriculture and Forestry Support Activities Earnings as Share of All Earnings <sup>1</sup>	Farm Cash Receipts (Millions)	Share of Farm Cash Receipts from Livestock	Share of Farm Cash Receipts from Crops
Power County, ID	9.7%	2.6%	\$122.2	29.2%	70.8%
Twin Falls County, ID	10.9%	(D)	\$531.5	66.6%	33.4%
Washington County, ID	7.2%	3.5%	\$49.7	54.6%	45.4%
Beaverhead County, MT	5.3%	1.1%	\$81.4	67.3%	32.7%
Gallatin County, MT	1.1%	0.4%	\$114.6	33.8%	66.2%
Madison County, MT	1.9%	1.1%	\$64.7	64.0%	36.0%
Silver Bow County, MT	0.0%	(D)	\$4.6	83.3%	16.7%
Socioeconomic Study Area	8.3%	0.6%	\$5,252.0	61.8%	38.2%
Idaho	4.5%	0.7%	\$6,128.8	59.2%	40.8%
Montana	2.5%	0.4%	3,162.6	43.8%	56.2%

Sources: Headwaters Economics, 2012; U.S. Department of Commerce, 2012a. Values reported in 2001 dollars were converted to 2010 dollars using the Consumer Price Index (BLS, 2012a).

<sup>1</sup>This division is the finest resolution of data provided by the U.S. Department of Commerce's Bureau of Economic Analysis that includes agricultural services.

<sup>2</sup>(D) indicates that the value is not shown to avoid disclosure of confidential information.

Table 10 shows the relative contribution of farm earnings across the counties in the Socioeconomic Study Area. Farm earnings constitute the largest share of total earnings in Camas, Cassia, Clark, Gooding, Jefferson, Jerome, Lincoln, Minidoka, Oneida, Owyhee and Twin Falls Counties. Both livestock and crops provide substantial cash receipts, with some variations across the counties. Though approximately 61.8% of farm cash receipts in the Socioeconomic Study Area come from livestock, many counties have significant percentages of farm cash receipts from crops, including Camas, Caribou, Clark, Gem, Madison, Minidoka, Oneida, Power and Silver Bow Counties.

Table 11 provides information on active and billed Animal Unit Months (AUMs) on BLM and USFS land, for each of the BLM Field Offices and National Forest areas. The estimated gross receipts in the table are calculated from data from the USDA Economic Research Service (ERS), which publishes annual budgets for cow-calf operations for different production regions across the country (USDA ERS, 2012). BLM calculated a ten-year inflation-adjusted average gross receipt per cow-calf operation from the ERS budgets, then converted that information to a per-AUM figure based on average forage requirements for a cow including other livestock (e.g., bulls and replacement heifers) that are needed to support the production from the cow (Workman, 1986). Southwest Montana falls into the Basin and Range region, whereas southern Idaho is in the ERS's Fruitful Rim region. BLM's calculations resulted in a ten-year average gross receipt in the Basin and Range region of \$50.24 per AUM (2010 dollars), and in the Fruitful Rim region of \$30.29 per AUM (2010 dollars). However, BLM used the higher value for both regions, both to err on the side of conservative analysis and because the characteristics of livestock grazing in southern Idaho seem more like those in southwest Montana (and across southeast Oregon, Nevada, and



Utah, which are also in ERS's Basin and Range region) than like those in the remainder of the Fruitful Rim (e.g., much of the California coast, western Oregon, and Washington State).

Thus, the table below reflects a gross receipt value of \$50.24 per AUM, and the last column of the table represents annual gross receipts in the region from livestock operations in 2010 dollars.

**Table 11. Active and Billed Animal Unit Months**

Geographic Area	Active (2011)	% Billed (2011)	Billed (2011)	Cattle (%)	Sheep (%)	Other (%)	Allotments	Acres per AUM	Gross Receipts (millions)
Beaverhead-Deerlodge NF	207,637	79%	163,655	96%	4%	1%	224	11.25	\$10.4
Birds of Prey NCA	47,807	71%	33,773	88%	12%	0%	23	12.3	\$2.4
Boise NF	48,275	86%	41,517	82%	18%	1%	54	25.78	\$2.4
Bruneau FO	128,394	73%	93,760	99%	0%	1%	37	10.9	\$6.5
Burley FO	141,091	73%	102,925	92%	8%	0%	201	6.1	\$7.1
Caribou-Targhee NF (includes Curlew National Grassland)	308,711	72%	221,910	73%	26%	0%	254	7.21	\$15.5
Challis FO	55,107	61%	33,605	98%	0%	2%	63	13.4	\$2.8
Craters of the Moon NM	14,956	28%	4,120	93%	7%	0%	4	7.1	\$0.8
Four Rivers FO	105,328	79%	83,092	93%	7%	0%	305	7.1	\$5.3
Jarbridge FO	182,212	81%	148,129	97%	2%	0%	92	9.0	\$9.2
Owyhee FO	121,975	92%	112,404	98%	2%	1%	145	10.2	\$6.1
Pocatello FO	86,492	86%	74,599	90%	10%	1%	328	6.6	\$4.3
Salmon FO	62,680	80%	50,096	99%	0%	1%	83	7.9	\$3.1
Salmon-Challis NF	142,213	67%	95,976	97%	2%	1%	106	15.36	\$7.1
Sawtooth NF	172,070	77%	131,789	77%	22%	0%	128	9.36	\$8.6
Shoshone FO	187,217	59%	110,342	84%	15%	0%	197	7.7	\$9.4
Upper Snake River FO	210,842	70%	148,638	80%	20%	0%	309	7.5	\$10.6
<b>Total</b>	<b>2,223,007</b>								<b>\$111.7</b>

AUM Animal Unit Month

FO Field Office

N/A Not available

NCA National Conservation Area

NF National Forest

NM National Monument

Sources: BLM, 2012a; USFS, 2012a; USFS, 2012c; Workman, 1986; USDA ERS, 2012.

Gross receipts are calculated based on active AUMs and ten-year average gross receipts, as described in the text.

The data in the table help to demonstrate the importance of livestock grazing throughout the Socioeconomic Study Area. It is important to remember, as





well, that the data are only for forage values on BLM/USFS-administered land; forage on other public lands, and private lands, contribute additional values to the Socioeconomic Study Area. The economic analysis of the alternatives, presented in Chapter 4, addresses additional indirect contributions of livestock grazing (as well as other resource uses) to the regional economy, comparing the alternatives to one another.

Forestry and Wood Products

Approximately 1,972 jobs (1.0 percent of total employment in 2010) in the Socioeconomic Study Area came from timber-related industries, which is 0.3 percentage points higher than the national average of 0.7 percent (Headwaters Economics, 2012). This estimate is based on data from the U.S. Census Bureau County Business Patterns. The proportion of employment associated with timber-related industries varied by county, with a low of zero percent in Butte, Camas, Caribou, Clark, Lincoln, Minidoka, and Power Counties and highs of 23.9 percent in Adams County, 13.7 percent in Washington County, 9.1 percent in Payette County, and 6.7 percent in Owyhee County. These estimates include both full- and part-time jobs and reflect three timber-related industries: “growing and harvesting,” “sawmills and paper mills,” and “wood products manufacturing.”

Average annual earnings for timber-related jobs tend to be higher than for non-timber jobs. The average annual wage per timber-related job in the Socioeconomic Study Area in 2010 was \$33,530 (2010 dollars), compared to \$29,105 for non-timber jobs.<sup>3</sup>

Mining and Minerals

The data in Table 12 show that within the thirty-one counties included in the Socioeconomic Study Area, mining industries employed 1,727 people in 2010 or approximately 0.8 percent of total employment, which is 0.3 percentage points higher than the national average (Headwaters Economics, 2012). Mining industries include “oil and gas extraction,” “coal mining,” “metals mining,” “nonmetallic minerals mining,” and “mining related” industries. The proportion of employment associated with mining industries varied by county, from zero percent in twelve of the counties up to 30.4 percent of total employment in Custer County and 22.7 percent of total employment in Caribou County. The average annual earnings per mining-related job in the Socioeconomic Study Area are higher than non-mining jobs. The average annual wage per job in this sector was \$69,476 (2010 dollars) in the Socioeconomic Study Area in 2010, compared to \$29,763 for non-mining jobs (Headwaters Economics, 2012).

**Table 12. Mining Sector Employment by County**

Geographic Area	Number of Jobs	Percentage of Total Employment
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<sup>3</sup> All dollar values were converted to 2010 dollars using the Consumer Price Index (BLS, 2012a).



<b>Geographic Area</b>	<b>Number of Jobs</b>	<b>Percentage of Total Employment</b>
Adams County, ID	0	0.0%
Bear Lake County, ID	0	0.0%
Bingham County, ID	0	0.0%
Blaine County, ID	13	0.1%
Bonneville County, ID	10	0.0%
Butte County, ID	0	0.0%
Camas County, ID	0	0.0%
Caribou County, ID	643	22.7%
Cassia County, ID	44	0.7%
Clark County, ID	0	0.0%
Custer County, ID	289	30.4%
Elmore County, ID	5	0.1%
Fremont County, ID	3	0.2%
Gem County, ID	13	0.6%
Gooding County, ID	2	0.1%
Jefferson County, ID	2	0.1%
Jerome County, ID	0	0.0%
Lemhi County, ID	15	0.9%
Lincoln County, ID	0	0.0%
Madison County, ID	0	0.0%
Minidoka County, ID	0	0.0%
Oneida County, ID	13	2.3%
Owyhee County, ID	6	0.4%
Payette County, ID	7	0.2%
Power County, ID	13	0.6%
Twin Falls County, ID	31	0.1%
Washington County, ID	0	0.0%
Beaverhead County, MT	66	2.8%
Gallatin County, MT	135	0.4%
Madison County, MT	73	5.3%
Silver Bow County, MT	344	2.6%
Socioeconomic Study Area	1,727	0.8%
Idaho	2,444	0.5%
Montana	5,962	1.8%
U.S.	581,582	0.5%

Source: Headwaters Economics, 2012.

1 Phosphate mining in Caribou County for BLM-administered phosphate raw ore  
2 produced 4.2 million units for a sales total of \$167.4 million in 2011 (ONRR,  
3 2012). Although some of the richest silver-producing regions in the U.S. are in  
4 the northern Idaho panhandle (outside the Socioeconomic Study Area), the  
5 study area does produce some silver, along with industrial minerals such as  
6 molybdenum (Idaho Mining Association, 2010).



1                    Other Values

2                    Public lands provide a range of goods and services that benefit society in a  
3                    variety of ways. Some of these goods and services, such as timber and minerals,  
4                    are bought and sold in markets, and hence have a readily observed economic  
5                    value (as documented in the sections above); others have a less clear connection  
6                    to market activity, even though society derives benefits from them. In some  
7                    cases, goods and services have both a market and a non-market component  
8                    value to society. This section provides an overview of several “non-market”  
9                    values described through a qualitative and quantitative economic valuation  
10                    analysis.

11                    The non-market values associated with public lands can be classified as values  
12                    that derive from direct or indirect use (e.g., recreation) and those that do not  
13                    derive from use, such as existence values held by the general public from self-  
14                    sustaining populations of sage grouse. This section and the related appendix  
15                    describe the use and non-use economic values associated with recreation,  
16                    populations of sage-grouse, and land that is currently used for livestock grazing  
17                    and ranch operations. The sections that follow discuss each of these values in  
18                    turn. **Appendix A** provides more discussion of the concepts and measurement  
19                    of use and non-use non-market values. It is important to note that these non-  
20                    market values are not directly comparable to previous sections that describe  
21                    output (sales or expenditures) and jobs associated with various resource uses  
22                    on BLM and USFS administered lands (see **Appendix A** for more information).

23                    *Values associated with recreation*

24                    Actions that promote the conservation of sage-grouse habitat may result in  
25                    changes in recreation activity, by changing opportunities or access for different  
26                    recreational activities. Opportunities for some activities such as wildlife viewing  
27                    may increase as the amount of habitat may increase for species that depend on  
28                    public lands including sage grouse. The Environmental Consequences analysis  
29                    (Chapter 4) addresses this issue for each of the management alternatives. This  
30                    section documents baseline non-market values visitor receive associated with  
31                    recreation activities. This is measured by what economists call consumer  
32                    surplus, which refers to the additional value that visitors receive over and above  
33                    the price they pay. **Appendix A** provides an explanation of consumer surplus.  
34                    Fees to use public lands for recreation are typically very low or non-existent, so  
35                    the value people place on public land recreation opportunities is not fully  
36                    measured simply by the entrance fees people pay.

37                    Economists estimate the consumer surplus from recreation by measuring how  
38                    the variation in visitors’ travel costs corresponds to the number of visits taken.  
39                    This “travel cost method” has been developed extensively in academic literature  
40                    and is used by federal agencies in economic analyses; the method is explained  
41                    more fully in **Appendix A**. Conducting original travel cost method studies can be  
42                    time-consuming and expensive; for this project BLM and USFS relied on



1 estimates of consumer surplus from prior recreation studies in the same  
2 geographic region, using an established scientific method called “benefit  
3 transfer.” Based on the studies reviewed and cited in [Appendix A](#), visitors to  
4 natural areas, such as lands managed by BLM and USFS, gain values (in excess of  
5 their direct trip cost) ranging from approximately \$32 per day for camping, to  
6 about \$175 per day for mountain biking.

7 To calculate the aggregate “consumer surplus” value of recreation in the study  
8 area, BLM multiplied this per-day value of recreation by the estimated number  
9 of visitor days associated with each activity type. Visitation estimates by activity  
10 are derived based on the BLM Recreation Management Information System  
11 (RMIS) database and the USFS National Visitor Use Monitoring program  
12 (NVUM) for the study area.

13 Accounting for the value per day and the number of days, the total non-market  
14 value of recreation on BLM and USFS lands in the study area was estimated to  
15 be about \$515 million per year (see [Appendix A](#) for details). Based on the  
16 quantity of recreational trips and the economic value of each type of activity, the  
17 largest annual non-market values are associated with hunting, camping, fishing,  
18 hiking, sightseeing, floatboating/ rafting/ canoeing, and pleasure driving. These  
19 categories omit downhill skiing, because there is little or no overlap between  
20 sage-grouse habitat and lands used for downhill skiing. The Environmental  
21 Consequences section (Chapter 4) discusses how recreational visits and total  
22 non-market value for recreation may change under the alternatives being  
23 considered.

#### 24 *Values associated with populations of sage-grouse*

25 The existence and perseverance of the Endangered Species Act and similar acts  
26 reflects the values held by the American public associated with preventing  
27 species from going extinct. Economists have long recognized that rare,  
28 threatened and endangered species have economic values beyond those  
29 associated with active “use” through viewing. This is supported by legal  
30 decisions and technical analysis (see [Appendix A](#) for details), as well as a number  
31 of conceptual and empirical publications that refine concepts and develop  
32 methods to measure these non-use or existence values.

33 The dominant method uses surveys to construct or simulate a market or  
34 referendum for protection of areas of habitat, or changes in populations of  
35 species. The survey asks the respondent to indicate whether they would pay for  
36 an increment of protection, and if so how much they would pay. Economists  
37 have developed increasingly sophisticated survey methods for non-use value  
38 over the last two decades to improve the accuracy of this method. [Appendix A](#)  
39 offers an in-depth discussion of this method of value estimation.

40 Original surveys to estimate non-use values are complex and time-consuming;  
41 rather than perform a new survey, BLM and USFS reviewed existing literature





1 to determine if there were existing non-use value studies for sage-grouse. No  
2 existing studies on valuation specific to the sage-grouse were found. However,  
3 there are several studies published in peer-reviewed scientific journals for bird  
4 species that BLM judged to have similar characteristics with sage-grouse,  
5 including being a candidate for listing as threatened or endangered and being a  
6 hunted species. These studies find average stated willingness to pay of between  
7 \$15 and \$58 per household per year in order to restore a self-sustaining  
8 population or prevent regional extinction (see Appendix A for details). These  
9 values represent a mix of use and non-use values, but the non-use components  
10 of value are likely to be the majority share, since the studies primarily address  
11 species that are not hunted. Since sage-grouse protection is a public good  
12 available to all households throughout the intermountain west, if similar per-  
13 household values apply to the species the aggregate regional existence value  
14 could be substantial.

15 *Values associated with grazing land*

16 Public land managed for livestock grazing provides both market values (e.g.,  
17 forage for livestock) and non-market values, including open space and western  
18 ranch scenery, which provide value to some residents and outside visitors, and  
19 may also provide some value to the non-using public (e.g., the cultural icon of  
20 the American cowboy). Many people who ranch for a living or who otherwise  
21 choose to live on ranches value the ranching lifestyle in excess of the income  
22 generated by the ranching operations. This could be seen as a non-market value  
23 associated with livestock grazing. On the other hand, some residents and  
24 visitors perceive non-market opportunity costs associated with livestock  
25 grazing. Although some scholars and policy makers have discussed non-market  
26 values associated with livestock grazing, the process for incorporating these  
27 values into analyses of net public benefits remains uncertain, and BLM and USFS  
28 did not attempt to quantify these values for the present study.

29 Furthermore, some of the lifestyle value of ranching is likely to be captured in  
30 markets, such as through the property values of ranches adjacent to public lands  
31 with historic leases or permits for grazing on public land. Economists typically  
32 use a method called the hedonic price method to estimate values associated  
33 with particular amenities; this method may be used to explain the factors that  
34 influence the observed sale prices of ranch land. **Appendix A** provides more  
35 information about this method, as well as additional information to address  
36 potential non-market values associated with grazing.

37 **Fiscal**

38 Most of Idaho's tax revenue comes from three sources: income, sales and use,  
39 and property taxes (U.S. Census Bureau, 2010d). The Idaho State Tax  
40 Commission collects income tax and sales and use tax, while property taxes  
41 fund local governments and are imposed and collected by the county where the  
42 property is located. Idaho imposes a sales and use tax of 6 percent, a corporate



1 net income tax of 7.6 percent, and an individual income tax rate that ranges  
 2 from 1.6 percent to 7.8 percent. In addition, Idaho imposes a severance tax  
 3 rate of two percent of the market value of oil and gas produced or sold in the  
 4 state. It also imposes a mine license tax of one percent of the value of ores  
 5 mined or extracted, which accounted for approximately \$2.5 million in tax  
 6 revenue in 2011 (Idaho State Tax Commission, 2011).

7 Idaho's counties receive most of their revenue from property taxes, charges for  
 8 local services and redistribution of State and Federal sources. In 2009/2010,  
 9 Idaho counties received approximately 25% of their revenues from property  
 10 taxes, 25% from charges and 40% from State government intergovernmental  
 11 transfers (U.S. Census Bureau, 2010e). Major sources of state funds received by  
 12 counties include state liquor revenues, highway user taxes and fees, sales taxes  
 13 and education funds and endowments (Idaho Association of Counties, 2011).  
 14 Public elementary and secondary schools received, in 2008-09, approximately  
 15 67% of their resources from State sources, 10% from Federal funds and 23%  
 16 from local funds, mostly property taxes (National Center for Education  
 17 Statistics, 2012).

18 The largest source of revenue in Montana is the individual income tax. The  
 19 second largest source is severance and other taxes (U.S. Census Bureau,  
 20 2010d), although most of the mineral production in Montana is outside the  
 21 Socioeconomic Study Area for this sub-region. Two-thirds of the severance and  
 22 other taxes category is made up of an oil and gas production tax, with the  
 23 remainder of the category being composed of mining taxes and other  
 24 miscellaneous taxes. While it is collected at the state level, about half of the oil  
 25 and gas tax is distributed to local governments and school districts. Montana  
 26 does not have a general sales tax, but selective sales taxes account for about  
 27 14% of state tax revenue (Montana Department of Revenue, 2010).

28 In Montana, local government and school district tax collections come almost  
 29 entirely from property taxes. Local jurisdictions also collect a coal gross  
 30 proceeds tax, a local severance tax that imposes a flat tax on the value of  
 31 production so that all mines pay the same rate (Montana Department of  
 32 Revenue, 2010).

33 The primary government revenues that are directly linked to BLM and USFS  
 34 lands are Payments in Lieu of Taxes (PILT), which are federal government  
 35 payments based on the presence of all federal lands (not just BLM lands) within  
 36 each county. Table 13 shows the PILT payments each county received in 2010.  
 37 The non-taxable status of federal lands is of interest to local governments,  
 38 which must provide public safety and other services to county residents. BLM  
 39 revenue-sharing programs provide resources to local governments in lieu of  
 40 property taxes because local governments cannot tax federally owned lands the  
 41 way they would if the land were privately owned.

42 **Table 13. Payments in Lieu of Taxes Received in the Socioeconomic**  
 43 **Study Area by County in 2010**

Geographic Area	PILT (thousands of dollars)
Adams County, ID	\$179
Bear Lake County, ID	\$373
Bingham County, ID	\$679
Blaine County, ID	\$1,807



Geographic Area	PILT (thousands of dollars)
Bonneville County, ID	\$1,065
Butte County, ID	\$295
Camas County, ID	\$147
Caribou County, ID	\$507
Cassia County, ID	\$1,874
Clark County, ID	\$153
Custer County, ID	\$684
Elmore County, ID	\$2,338
Fremont County, ID	\$591
Gem County, ID	\$220
Gooding County, ID	\$603
Jefferson County, ID	\$452
Jerome County, ID	\$232
Lemhi County, ID	\$874
Lincoln County, ID	\$749
Madison County, ID	\$21
Minidoka County, ID	\$430
Oneida County, ID	\$532
Owyhee County, ID	\$1,209
Payette County, ID	\$153
Power County, ID	\$704
Twin Falls County, ID	\$1,530
Washington County, ID	\$770
Beaverhead County, MT	\$674
Gallatin County, MT	\$1,334
Madison County, MT	\$443
Silver Bow County, MT	\$448
Socioeconomic Study Area	\$22,070

Sources: DOI, 2012.

PILT Payment in Lieu of Taxes

Includes payments received from BLM, USFS, Bureau of Reclamation, National Park Service, and Fish and Wildlife Service.

Other Federal payments to States, counties and public schools associated to the presence of Federal lands include Forest Service revenue transfers and Federal mineral royalties. Since 2008, the Forest Service pays 25% of its receipts to staets for use on roads and schools in the counties where national forests are located. The decline in the sale of timber from Federal lands over time has led to the decline in these payments. However, Secure Rural Schools and Community Self-Determination Act of 2000 has attempted to limit this decline (Congressional Research Service, 2012). Idaho and Montana also receive Federal mineral royalties from mining activities on federal land. In Idaho, 90% of these receipts are distributed to the Public School Income Fund and the other 10% are distributed to the general fund of the counties where the revenue was generated. In Montana, 25% of Federal mineral royalties are distributed to counties (Headwaters Economics, 2011). Other revenues from Federal lands includes fees for grazing, recreation and rents of rights-of way.

**BLM Expenditures and Employment**

BLM offices provide a direct contribution to the economy of the local and surrounding area. BLM operations and management make direct contributions

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to area economic activity by employing people who reside within the area and by spending on project related goods and services. Contracts for facilities maintenance, shuttling vehicles, and projects contribute directly to the area economy and social stability as well. Table 14 provides available information on the BLM expenditures from each field office, including both labor and non-labor expenditures.

**Table 14. BLM and FS Employment and Related Expenditures in the Socioeconomic Study Area**

Agency	State	Field Office	Employment, 2011 (FTEs)	Non-labor Expenditures, 2011 (2010 dollars)
BLM	ID	Bruneau	14.2	\$189,214
	ID	Burley	23.9	\$1,776,536
	ID	Challis	21.9	\$472,283
	ID	Four Rivers	20.8	\$810,326
	ID	Jarbidge	23.5	\$6,072,960
	ID	Owyhee	20.0	\$594,148
	ID	Pocatello	30.9	\$699,083
	ID	Salmon	24.8	\$670,559
	ID	Shoshone	24.1	\$1,902,984
	ID	Upper Snake	30.1	\$1,104,839
	MT	Butte	33.0	\$2,872,889
	MT	Dillon	44.9	\$1,107,213
FS	ID	Boise NF	234	\$11,682,250
	ID, WY, & UT	Caribou-Targhee NF	177	\$8,918,490
	ID	Salmon-Challis NF	159	\$10,828,200
	ID & UT	Sawtooth NF	129	\$6,568,660
	MT	Beaverhead-Deerlodge NF	150	\$6,942,850

Sources: BLM, 2012b - values reported in 2001 dollars (BLM) or 2011 dollars (USFS) were converted to 2010 dollars using the Consumer Price Index (BLS, 2012a); USFS, 2013a; USFS, 2013b.

FTE Full-time equivalent employees (hours worked in relation to hours in a full-time schedule)

NF National Forest

### **Environmental Justice**

Environmental justice pertains to the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. Fair treatment means that no group of people, including racial, ethnic, or socioeconomic groups, should bear a disproportionate share of the adverse environmental consequences resulting





1 from industrial, municipal, and commercial operations or the execution of  
2 federal, state, local, and Tribal programs and policies (BLM, 2005a; USDA,  
3 1997). BLM and USFS incorporate environmental justice into its planning  
4 process, both as a consideration in the environmental effects analysis and by  
5 ensuring a meaningful role in the decision-making process for minority and low-  
6 income populations.

7 Executive Order 12898 requires federal agencies to “identify and address the  
8 disproportionately high and adverse human health or environmental effects of  
9 its programs, policies, and activities on minority populations and low-income  
10 populations.” The BLM Land Use Planning Handbook (BLM, 2005a) reiterates  
11 BLM’s commitment to environmental justice – both in providing meaningful  
12 opportunities for low-income, minority, and Tribal populations to participate in  
13 decision-making, and to identify and minimize any disproportionately high or  
14 adverse impacts on these populations. Similarly, the U.S. Department of  
15 Agriculture’s Departmental Regulation on Environmental Justice (USDA, 1997)  
16 provides direction to agencies for integrating environmental justice  
17 considerations into USDA programs and activities, including those of USFS.  
18 Specifically, the Departmental Regulation on Environmental Justice calls for the  
19 identification, prevention, and/or mitigation of disproportionately high and  
20 adverse human health or environmental effects of USDA programs and activities  
21 on minority and low-income populations and provision for the opportunity for  
22 minority and low-income populations to participate in planning, analysis, and  
23 decision making that affects their health or environment.

24 According to the Council on Environmental Quality (CEQ) Environmental  
25 Justice Guidance Under the National Environmental Policy Act (CEQ, 1997),  
26 “minority populations should be identified where either: (a) the minority  
27 population of the affected region exceeds 50 percent or (b) the minority  
28 population percentage of the affected region is meaningfully greater than the  
29 minority population percentage in the general population or other appropriate  
30 unit of geographic analysis.” The same document states that “In identifying low-  
31 income populations, agencies may consider as a community either a group of  
32 individuals living in geographic proximity to one another, or a set of individuals  
33 (such as migrant workers or Native Americans), where either type of group  
34 experiences common conditions of environmental exposure or effect.”

35 Additionally, the same guidance (CEQ, 1997) advises that “In order to  
36 determine whether a proposed action is likely to have disproportionately high  
37 and adverse human health or environmental effects on low-income populations,  
38 minority populations, or Indian tribes, agencies should identify a geographic  
39 scale, obtain demographic information on the potential impact area, and  
40 determine if there is a disproportionately high and adverse effect to these  
41 populations. Agencies may use demographic data available from the Bureau of  
42 the Census to identify the composition of the potentially affected population.



1 Geographic distribution by race, ethnicity, and income, as well as a delineation  
2 of tribal lands and resources, should be examined.”

3 Minority Populations

4 Table 15 summarizes the percentage of the population made up of ethnic  
5 minority groups in each county of the Socioeconomic Study Area and in the  
6 State of Idaho, the State of Montana, and the United States as a whole.

7 **Table 15. Population Race and Ethnicity, 2010**

Geographic Unit Analyzed	Percent of Total Population									
	Total Population	White	Black or African American	Alaska Native or American Indian	Asian	Native Hawaiian & Other Pacific Islander	Other Race	Two or More Races	Hispanic or Latino <sup>1</sup>	Total Minorities <sup>2</sup>
Adams County, ID	3,976	96.1	0.1	1.0	0.4	0.1	0.7	1.7	2.4	5.3
Bear Lake County, ID	5,986	96.3	0.1	0.5	0.4	0.0	1.6	1.1	3.6	5.2
Bingham County, ID	45,607	80.6	0.2	6.5	0.6	0.1	9.8	2.1	17.2	24.9
Blaine County, ID	21,376	84.9	0.2	0.6	0.9	0.1	11.8	1.5	20.0	22.0
Bonneville County, ID	104,234	90.6	0.6	0.8	0.8	0.1	5.1	2.1	11.4	14.6
Butte County, ID	2,891	95.5	0.2	0.4	0.2	0.2	2.0	1.5	4.1	6.2
Camas County, ID	1,117	94.1	0.3	0.5	0.1	0.0	1.8	3.2	6.7	9.7
Caribou County, ID	6,963	95.3	0.1	0.3	0.2	0.2	2.3	1.5	4.8	6.9
Cassia County, ID	22,952	81.8	0.3	0.8	0.5	0.1	14.2	2.3	24.9	27.1
Clark County, ID	982	72.4	0.7	1.0	0.5	0.0	23.8	1.5	40.5	42.9
Custer County, ID	4,368	96.4	0.2	0.6	0.2	0.1	1.5	1.0	4.0	5.9
Elmore County, ID	27,038	82.2	2.7	1.0	2.8	0.4	6.8	4.1	15.2	24.7
Fremont County, ID	13,242	89.5	0.3	0.7	0.2	0.1	7.6	1.5	12.8	14.8
Gem County, ID	16,719	93.4	0.1	0.6	0.5	0.1	3.1	2.2	8.0	10.9
Gooding County, ID	15,464	80.7	0.2	0.8	0.5	0.1	15.3	2.4	28.1	30.5
Jefferson County, ID	26,140	91.2	0.2	0.8	0.4	0.1	5.8	1.5	10.1	12.3
Jerome County, ID	22,374	80.0	0.3	1.3	0.3	0.1	15.8	2.1	31.0	33.2
Lemhi County, ID	7,936	96.4	0.2	0.7	0.4	0.0	0.6	1.6	2.3	4.9
Lincoln County, ID	5,208	80.1	0.4	0.7	0.4	0.1	16.2	2.2	28.3	30.6
Madison County, ID	37,536	93.9	0.5	0.3	0.9	0.1	2.8	1.5	5.9	8.7
Minidoka County, ID	20,069	80.2	0.4	1.2	0.4	0.0	15.3	2.4	32.4	34.6
Oneida County, ID	4,286	96.7	0.2	0.5	0.5	0.0	1.1	1.0	2.9	4.9
Owyhee County, ID	11,526	76.0	0.2	4.3	0.5	0.0	16.6	2.4	25.8	31.6
Payette County, ID	22,623	88.6	0.2	1.1	0.8	0.1	6.3	2.8	14.9	18.7
Power County, ID	7,817	75.1	0.3	2.3	0.4	0.1	19.5	2.4	29.8	34.0
Twin Falls County, ID	77,230	88.9	0.4	0.8	1.2	0.1	6.3	2.3	13.7	17.4
Washington	10,198	86.6	0.2	1.0	0.9	0.0	9.1	2.2	16.8	19.7



### 3. Affected Environment

Geographic Unit Analyzed	Percent of Total Population									
	Total Population	White	Black or African American	Alaska Native or American Indian	Asian	Native Hawaiian & Other Pacific Islander	Other Race	Two or More Races	Hispanic or Latino <sup>1</sup>	Total Minorities <sup>2</sup>
County, ID										
Beaverhead County, MT	9,246	94.8	0.2	1.4	0.4	0.4	1.2	1.6	3.7	7.3
Gallatin County, MT	89,513	95.1	0.3	0.9	1.1	0.1	0.7	1.9	2.8	6.6
Madison County, MT	7,691	96.8	0.2	0.5	0.3	0.0	0.8	1.4	2.4	4.6
Silver Bow County, MT	34,200	94.4	0.3	1.9	0.5	0.1	0.7	2.1	3.7	7.9
Socioeconomic Study Area	686,508	88.9	0.4	1.3	0.8	0.1	6.4	2.1	12.8	16.5
Idaho	1,567,582	89.1	0.6	1.4	1.2	0.1	5.1	2.5	11.2	15.9
Montana	989,415	89.4	0.4	6.3	0.6	0.1	0.6	2.5	2.9	12.3
United States	308,745,538	72.4	12.6	0.9	4.8	0.2	6.2	2.9	16.3	36.0

Source: U.S. Census Bureau, 2010b.

<sup>1</sup> Individuals who identify themselves as Hispanic or Latino might be of any race; the sum of the other percentages under the “Percent of Total Population” columns plus the “Hispanic or Latino” column therefore does not equal 100 percent, and the sum of the percentages for each racial and ethnic category does not equal the percentage of “total minorities”.

<sup>2</sup> The total minority population, for the purposes of this analysis, is the total population for the geographic unit analyzed minus the non-Latino /Hispanic white population.

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Of the 27 Idaho counties in the Socioeconomic Study Area, 14 have a higher minority population than Idaho as a whole, while none of the four Montana counties in the Socioeconomic Study Area have a higher minority population than Montana as a whole. The percentage of minorities among counties ranges from a low of 4.6 percent in Madison County, Montana, to a high of 42.9 percent in Clark County, Idaho. Several Idaho counties have a Hispanic or Latino population greater than 25 percent, with the highest being Clark County (41 percent). Additionally, Montana as a whole has a high percentage of Alaska Native or American Indian residents (6.3 percent), though none of the Montana counties included in the study area have higher than two percent of its population in this minority group.

#### Low-income Populations

Table 16 summarizes the percentage of the population below the poverty line in each county of the Socioeconomic Study Area and in Montana, Idaho, and the United States as a whole. Following the Office of Management and Budget’s Directive 14, the Census Bureau uses a set of money income thresholds that vary by family size and composition to detect what part of the population is considered to be in poverty (U.S. Census Bureau, 2012a).

**Table 16. Low-Income Populations, 2006-2010 Average**

Geographic Area	Percent Population Below Poverty Level
Adams County, ID	12.4



<b>Geographic Area</b>	<b>Percent Population Below Poverty Level</b>
Bear Lake County, ID	13.9
Bingham County, ID	14.7
Blaine County, ID	9.3
Bonneville County, ID	11.0
Butte County, ID	13.8
Camas County, ID	16.3
Caribou County, ID	8.4
Cassia County, ID	15.4
Clark County, ID	11.3
Custer County, ID	13.8
Elmore County, ID	12.0
Fremont County, ID	8.5
Gem County, ID	14.7
Gooding County, ID	16.5
Jefferson County, ID	10.2
Jerome County, ID	15.5
Lemhi County, ID	20.0
Lincoln County, ID	15.3
Madison County, ID	32.2
Minidoka County, ID	13.1
Oneida County, ID	13.4
Owyhee County, ID	22.2
Payette County, ID	15.7
Power County, ID	11.1
Twin Falls County, ID	13.0
Washington County, ID	13.2
Beaverhead County, MT	15.0
Gallatin County, MT	13.5
Madison County, MT	11.6
Silver Bow County, MT	17.8
Socioeconomic Study Area	14.4
Idaho	13.6
Montana	14.5
United States	13.8

Source: U. S. Census Bureau, 2010c.

Of the 27 Idaho counties in the Socioeconomic Study Area, 14 have a higher percentage of residents below the poverty line than Idaho overall (13.6 percent), and two of the four Montana counties have a higher percentage of residents below the poverty line than Montana as a whole (14.5 percent). Both Idaho and Montana have a higher percentage of residents above the poverty line than the United States as a whole (13.8 percent). The percentage of residents

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1 below the poverty line range from a low of 8.4 percent in Caribou County,  
2 Idaho to a high of 32.2 percent in Madison County, Idaho.

3 Tribal Populations

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5 Five Indian reservations in the State of Idaho are home to federally recognized  
6 tribes. These reservations comprise almost two million acres in trust. The  
7 Shoshone-Bannock Tribe of the Fort Hall Indian Reservation (Bannock, Bingham,  
8 Caribou, and Power Counties) and Shoshone-Paiute Tribe of the Duck Valley  
9 Indian Reservation (Owyhee County) are located within the Socioeconomic  
10 Study Area. Other tribes outside the Socioeconomic Study Area include Coeur  
11 d’Alene in Benewah and Kootenai Counties; Kootenai in Boundary County; and  
12 Nez Perce in Clearwater, Idaho, Latah, Lewis, and Nez Perce Counties  
13 (Rodríguez, 2011).

14 Several major tribes live in Montana: the Blackfeet nation, the Confederated  
15 Salish, the Pend d’Oreille, the Kootenai, the Assiniboine, the Sioux, the  
16 Northern Cheyenne, the Crow Nation, the Gros Ventre, and the Little Shell  
17 Chippewa (Montana Office of Indian Affairs, 2011). However, none of these  
18 tribes’ reservations are located in or near the Socioeconomic Study Area.



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## Soil Resources

Many resources and resource uses, including livestock grazing, wildlife habitat, riparian habitat, special status species, fisheries, recreation, water quality and forestry, depend on suitable soils. Consequently, soil attributes and conditions are important to BLM management decisions.

Soils are defined by the processes that form them. Through time, these processes form unique soil types and influence what plants may grow upon them. Soil surveys indicate that climate and topography are the primary influences on soil formation (NRCS 2000). Soil development processes, such as rock weathering, decomposition of plant materials, accumulation of organic matter, and nutrient cycling, are controlled largely by climate. Soil moisture and temperature strongly affect the rates of addition, removal, translocation, and transformation of material within the soil. Topography influences site conditions, such as precipitation amounts and effectiveness, drainage, runoff, erosion potential, and temperature.

Soils play an integral part in vegetation community development. Plants use soil as an anchor, a means to provide water for growth, and a storehouse for the nutrients needed for growth. Plant communities are most noticeably influenced where soil texture and thickness of soil horizons change, depth to restrictive layers including abrupt soil horizon boundaries exist, and by soil drainage, moisture holding capacity, or depth to water table. Native plant communities require management considerations that include the ability of the soil to produce a healthy ecosystem over the long term. Reducing the risk of erosion from water and air processes, limiting compaction from traffic source or grazing, and allowing the water to infiltrate at a normal rate for the given soil texture will allow vegetative communities to thrive and further protects the soil resources.

The Natural Resources Conservation Service (NRCS) provides soil mapping for individual counties across the United States. Soil information and mapping from the NRCS are provided below under existing conditions to describe soil resources.

## Indicators

Indicators vary by resource and include measureable factors that are used to describe resource conditions. The indicators used to describe current conditions are the same indicators that are used to forecast the potential effects that could result from implementation of any of the proposed alternatives described in Chapter 2. The following indicators for soil resources will be used to characterize soil resources and determine the relative effects on soil resources from management actions proposed by the different alternatives:

- Declining soil surface health, with soils either unable to support vegetation and rusts or not up to the potential for a particular ecological site (e.g., vegetation type, diversity, density, and vigor); and
- The inability to meet Standards for Public Land Health.

Land uses strive to conform to Standards for Public Land Health, which describe conditions needed to sustain public land health and relate to all uses of the public lands.

## Existing Conditions

### Conditions of the Planning area

#### Soil Productivity

Soil productivity within the planning area varies widely due to the diversity of soils and site characteristics, specifically differences in elevation and slope gradient. The soil types in the planning area occur from \_\_\_\_\_ feet above mean sea level in the area of \_\_\_\_ to \_\_\_\_ feet above mean sea level in the higher elevations. The planning area landscape varies greatly from broad valleys to mountains.

The average annual precipitation and temperature in the project area vary greatly by elevation and aspect. Some of the most productive soils are found in well drained valley bottoms, toe-slopes, benches, and broad ridge tops. On uplands where rainfall is moderate to low, medium textured soils may produce favorable conditions, depending on land uses such as livestock grazing. Soils that feature shallow clay pans, hardpans, or salts pose substantial constraints to land use and management

Management practices affect the ability of soils to maintain productivity by influencing disturbances such as displacement, compaction, erosion, and alteration of organic matter and soil organism levels. When soil degradation occurs in semiarid, high desert regions, natural processes are slow to return site productivity. Prevention of soil degradation is far more cost-effective and time effective than remediation or waiting for natural processes. Management practices, such as proper stocking rates for livestock, rotation of grazing, periodic rest from grazing, improved design, construction and maintenance of roads, selective logging, rehabilitation of unneeded surface disturbance, restricting vehicles to roads and trails, rehabilitating mined areas, and control of concentrated recreational activities, have reduced erosion effects and improved soil conditions.

#### Soil Erosion

Erosion is a continuing natural process that can be accelerated by human disturbances. Factors that influence soil erosion include soil texture, structure, length and percent of slope, vegetative cover, and rainfall or wind intensity. Soils most susceptible to erosion by wind or water are typified by bare or sparse vegetative cover, non-cohesive soil particles with slow infiltration rates, and moderate to steep slopes. Wind erosion processes are less affected by slope angle but are highly influenced by wind intensity.

The semi-arid planning area has between \_\_\_\_ and \_\_\_\_ percent natural plant community ground cover, allowing the soils to erode naturally in wind and during infrequent rain events. In addition, management actions affect the rate at which soil erodes. Activities that remove vegetative cover increase the erosion rate. Some soils are particularly vulnerable to soil erosion.

The potential for soil erosion increases with increasing slope. Approximately \_\_\_\_ acres exceed 40 percent slope within the planning area. Steep slopes are concentrated in the areas of \_\_\_\_ within the planning area.

NRCS soil map unit descriptions rate soils in the planning area according to their susceptibility to water and wind erosion. Wind erosion is particularly a hazard when surface litter and vegetation are removed by fire or other disturbances. Soils in the planning area were screened based on several relevant characteristics that indicate potentially fragile soils or high erosion hazards. These characteristics include:

- Soils rated as highly or severely erodible by wind or water, as described in NRCS soil survey reports;
- Landslide areas as identified in NRCS soil survey reports; and
- Soils on slopes greater than 35 percent

Within the planning area, \_\_\_ acres were mapped as fragile soils. Most fragile soils occur in the areas of \_\_\_ within the planning area.

### Soil Types

When making land management decisions based on soil related hazards or limitations, the BLM evaluates soil surveys available from the NRCS. Soils mapped according to the boundaries of major land resource areas, which are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses. Each soil survey describes the specific properties of soils in the area surveyed and shows the location of each kind of soil on detailed maps. BLM evaluates soil map units to make management decisions that would likely affect soils. Each soil survey applicable to the planning area describes soil map units by the individual soil or soils that make up the unit. These descriptions indicate the limitations and hazards inherent in each unit. Descriptions include soil depth, range of elevation, origin, climate, physical properties, runoff capabilities, erosion hazard, associated native vegetation, wildlife habitat use, and capability for community development and other uses.

Third order soil surveys, provided by the NRCS, cover most of the planning area. The NRCS maps over \_\_\_ soil map units in the planning area, making summarization complex.

Soil can be classified in many ways according to a whole host of parameters. For the generalization of soils in the planning area, the taxonomy of soil order is a convenient starting place. Most of the soils in the planning area are part of the largest soil order, Mollisols. This order encompasses approximately \_\_\_ percent of the Greater Sage-Grouse core habitat acres. The Aridisols correspond to \_\_\_ and the Alfisols \_\_\_ percent of the area. The remaining areas are composed of similar young developmental soils in the Inceptisol, Entisol, and Andisol orders with a very small amount of Histisols and Vertisols that have particular properties that may be of importance.

Soil properties can provide information why certain plants may grow in one area and not another, or why erosion occurs by wind and not water. The NRCS provides a suite of risk rating, interpretations, and basic soil data that describes soils resources. The soil texture for most soils across the planning area is a loam as composed of the representative percent of sand, silt and clay. Some greater or lesser amounts of these percentages produce clayey loams and silty loams for the most part. The soils have very low amounts of organic matter (2%), low available moisture contents in the top 10 inches (3.3 inches) and are conserved well drained. The risk to



erosion from water is slight, except in those very steep canyons and exposed bedrock ridges that have a severe to very severe rating. The overall majority of the planning area is considered to be of slight risk for \_\_\_\_\_. The soils are prone to degradation when soil is removed in excess of the ability to rebuild it. In this area of the state, the amount of loss can be significant with wind exposure or increased erosion from water. Only 1 to 2 tons of soil per acre per year needs to be removed in approximately half of the planning area to have a loss of long term productivity. A quarter of the area has the highest level of soil that can be removed (5 tons/acre/year) with the remaining quarter in the middle groups.

When it comes to infiltration of water into the soil surfaces, these soils will take in water very well. The silty and clay nature of the soils cause them to percolate water more slowly than a sandy soil or rocky soil would. But for most of the planning area, percolation rates do not cause standing water to form. The majority of the soils convey water at rates greater than 1 inch per hour. Of particular note are those soils in the low wetland areas in the northwest part of the planning area. They allow infiltration to equal or exceed 2 inches per hour. This is correlated to those same soils that have the highest wind erosion rates across the planning area. Others within the planning area have a very low rate of loss per acre and, therefore, are at low risk to wind erosion.

Hydric (wet) soils, unique biological soil crusts, and prime agriculture land are key soil resources in the planning area.

**Hydric Soils.** Hydric soils constitute only a small portion of the planning area. Hydric soils are associated with riparian areas and wetlands. Riparian-wetland soils are found throughout the planning area along water courses, near springs, seeps, playas, and adjacent to reservoirs. Because of the presence of water, riparian-wetland soils have properties that differ from upland areas. For example, most upland soils are derived from in-place weathering processes and relatively little soil is derived from offsite sources. In contrast, riparian-wetland soils are constantly changing because of the influx of new material being deposited by different storm events and overland flow. As a result, great variability in soil types can occur in short distances. An inventory of these soils has not been completed. Due to the dynamic nature of these soils, they require intensive monitoring and management.

**Biologic Soil Crusts.** Biologic soil crusts (BSC) are made up of tiny living plants and bacteria that grow together on the soil surface. They help keep the soil from washing or blowing away, fix nitrogen from the atmosphere into the soil, help keep out weeds, and promote the health of plant communities. In areas where BSC have been lost, native vascular plants have been replaced by invasive species such as cheat grass or medusa head.

Based on research throughout the west, parameters for the ecology and management of biological soil crusts have been developed by the Department of the Interior. Factors found affecting presence, density, cover, and species diversity of macrobiotic crusts include elevation, soils, and topography, disturbances, timing of precipitation, vascular plant community, ecological gradients and microhabitats.

## Trends

Soil resources change slowly unless catastrophic or larger scale disturbance events such as landslides, floods, volcanoes, or wildfires occur. Then, erosion or deposition would change the ground cover at one point or many. Thus, the degree of change in the planning area would be considered low or insignificant, with the direction of change being the most likely to occur naturally over time. There have been larger wildfire events and to some degree restoration activities that have altered the vegetation communities where juniper has been invading sagebrush communities.

The overall trend for soil resources is to maintain or improve the ability of the soil to support vegetation and allow water and nutrients to be cycled by either macro or microorganisms, all of which promote and improve the health of the land. Degradation by excessive grazing, erosion or land developments will cause a reduction in soil function as one or perhaps many of the soil properties are changed thereby affecting the functions necessary for healthy soils. In the planning area, impacts on soil resources have resulted from energy development, grazing recreation, natural processes, and other activities. The potential for maintaining or restoring these communities and conserving the soil resource depends on the specific soil types and how resource programs are managed.

## Visual Resources

Visual quality of western landscapes is an increasingly sensitive issue. Impacts to visual resources are identified as a significant issue to address in Resource Management Plans, Forest Plans and major EISs such as the renewable energy and transmission programmatic environmental impact statements (PEIS). The general public's increasing awareness of the vertical scale, footprint, character and visible prominence associated with utility scale renewable energy and transmission line development has increasing the need for Visual Resource Management (VRM).

### Bureau of Land Management

BLM manages scenic values using the visual resource management (VRM) program. VRM policy was initially launched in 1976 in response to both NEPA requirements placed on Federal land management, and FLPMA requirements for scenery resource inventory and management. The BLM developed the current VRM policy manual (M-8400) and handbooks (H-8410-1, H-8431-1) in the mid-1980's to guide the Field Offices through an objective and systematic program for managing scenery resources.

Visual resource management requires that BLM Field Offices complete a visual resource inventory of the lands under their management control. The visual resource inventory is a systematic process for determining the visual values on the public lands. The inventory process has three parts: scenic quality evaluation, sensitivity level analysis and delineation of distance zones. Based on the combinations of the three, BLM lands can then be categorized as Class I (most valued and highest quality of scenery) down to Class IV (areas of low scenic quality and sensitivity at most or all distance zones). These inventory classes represent the existing visual resources.

VRM provides a way to inventory and classify visual resources, describe characteristic landscapes, determine contrasts from proposed actions, and potential mitigation from impacts to visual resources.

BLM Handbook 8410 describes the three basic landscape characteristics used to indicate visual resources in VRM: 1) scenic quality; 2) sensitivity levels; and 3) distance zones. Scenic quality is a measure of the visual appeal of a tract of land. Areas can be sub-divided into Scenic Quality Rating Units (SQRU) of similar visual character on the basis of like physiographic characteristics, similar visual patterns, texture, color, variety, etc.; and areas which have similar impacts from man-made modifications. The size of the SQRU may vary from several thousand acres to 100 or less, depending on landscape feature similarities, and the desired inventory detail. Seven key factors determine the scenic quality of a unit: landform, vegetation, water, color, adjacent scenery, scarcity, and cultural modifications. Resource specialists consider these factors when ranking units for scenic quality (A = high, B = medium, C = low).

Visual sensitivity is a measure of public concern for scenic quality. Public lands are assigned high, medium, or low sensitivity levels by analyzing various indicators of public concern, such as: type of user, amount of use, public interest, adjacent land uses, and special areas.

Sensitivity level rankings are not available for the Planning Area.

Landscapes can be divided into three distance zones based on relative visibility from travel routes or observation points. They are foreground-middleground, background, and seldom seen. The foreground-middleground zone includes areas seen from highways, rivers, or other viewing locations that are less than five miles away. The background zone is generally between five and 15 miles away. The seldom-seen zone includes areas usually hidden from view.

During the resource management planning process, BLM determines how the visual landscape will be managed in the future. The VRM decisions that are made in the planning process result in areas being assigned a VRM management class. VRM management classes determine how much change will be allowed in the landscape. VRM Class I areas are managed to preserve the existing character of the landscape and allow for limited management activity. Class II allows for low levels of landscape change that do not attract attention of the casual observer. Class III allows for moderate changes to the landscape that may attract attention but are not dominant and Class IV areas allow for high levels of landscape change.

The BLM uses a VRM contrast rating system that addresses form, line, color and texture of the landscape to determine if proposed projects are in compliance with the designated visual resource management class.

These management classes are separate from the visual resource inventory classes and guide management irrespective of the underlying visual resource i.e. areas that have an inventory class II could be designated and managed as a VRM management class IV to allow for major changes in the landscape.

In the past, especially in older management framework plans, BLM Field Offices would often adopt the VRM inventory classes as the management class. In some plans, BLM did not make any decisions regarding the VRM management classes. In such cases, the VRM inventory class has generally been used as the management class. A majority of the BLM managed lands within the planning area do not have a current visual resource inventory.

BLM Visual Resource Management Class Acres  
(approximate for offices with designated VRM classes)

VRM Class	Class I	Class II	Class III	Class IV
Acres	510,924	2,058,432	3,983,572	2,052,936

US Forest Service Visual Management System

Forest Service Manual 2380.3 requires the agency to “inventory, evaluate, manage, and, where necessary, restore scenery as a fully integrated part of the ecosystems of National Forest System lands through the land and resource management and planning process. Scenery must be treated equally with other resources. The US Forest Service (Forest Service) developed a visual management system to provide a mechanism for inventory and analysis of landscape resources and the effects of land management activities on those resources.

The Forest Service established the VMS in 1974 to inventory, evaluate, and manage scenic resources. The VMS is described in Agriculture Handbook No. 462, National Forest Landscape Management (USFS 1974). Using an established physiographic character type as a frame of reference, the VMS determines the inherent scenic quality based on the different degrees of landscape variety within an area.

Inherent scenic quality is a measure of the natural landscape's scenic beauty based on attributes, such as landform, vegetation, water features, and rock formations. The basic assumption of the VMS is that all landscapes have some inherent value, but those with the most variety or diversity have the greatest potential for "high scenic value." Three variety classes, designated "A", "B," and "C", represent inherent scenic quality.

Sensitivity levels are identified in the VMS and are defined as the measure of people's concern for the scenic quality of the landscape. Basically, all viewed landscape is rated for a level of sensitivity. Sensitivity levels are overlaid with distance zones to identify all the viewed and unseen landscape within a given area. The VMS defines distance zones—that is, the distance from which a landscape is viewed—as foreground, middleground, and background. Distance zones are important in evaluating how change is perceived in the landscape because the closer the features in the landscape are to the viewer, the more pronounced they appear and the more detail is observed.

Visual quality objectives (VQOs) are determined in the VMS by combining the sensitivity levels and scenic quality. VQOs are assigned to the landscape to describe the degree of acceptable alteration of the natural landscape. The VQO classifications are Preservation, Retention, Partial Retention, Modification, and Maximum Modification. Preservation allows for ecological changes only, while Maximum Modification allows for landscape changes that may dominate the natural landscape character.

#### Scenery Management System

The VMS process has been updated as the Scenery Management System (SMS), which is being incorporated into respective Forest Management Plans. SMS is described in Landscape Aesthetics: A Handbook for Scenery Management (USFS 1995). Adoption of the SMS is to occur as each National Forest revises its land management plan and RMP. For National Forests not currently undergoing the forest-plan revision process, or for those requiring extensive time for revision, application of the SMS will occur at the subforest or Project level.

In general, the SMS differs from the VMS in that it is integrated with ecosystem management and addresses landscape character, constituent preferences, scenic integrity, and landscape visibility as key aesthetic considerations. Landscape character describes the visual patterns of form, line, color, texture, dominance, scale, and diversity of elements in the landscape and the cultural attributes that make the landscape identifiable and give it a "sense of place." Constituent preferences convey the aesthetic experience of forest visitors, communities, and tourists and the significance of scenic quality to these user groups.

Scenic management criteria are described below.

The SMS entails identifying the landscape character, visual sensitivity, and scenic integrity. The SMS provides an overall framework for the orderly inventory, analysis, and management of

scenery. It is a tool for integrating the benefits, values, desires, and preferences regarding aesthetics and scenery for all levels of land management planning. The SMS also considers Concern Levels, which are a categorization of the importance of scenic resources to forest visitors.

Three concepts of the SMS are of key importance: (1) Scenic Attractiveness, (2) Landscape Character, and (3) Scenic Integrity. These concepts and landscape character are defined below:

Scenic Attractiveness is the primary indicator of the scenic importance of a landscape based on human perceptions of the intrinsic beauty of landforms, rock outcrops and forms, waterforms, vegetation patterns, and cultural features. It reflects varying visual perception attributes of variety, unity, vividness, intactness, coherence, uniqueness, harmony, balance, and pattern. The frame of reference for scenic attractiveness (generally at the section scale) is landscape character. Three levels of scenic attractiveness are identified during the scenery inventory process: (A) Distinctive, (B) Common or Typical, and (C) Undistinguished (Forest Service Manual [FSM] 2380 – Landscape Management).

Landscape Character is a combination of physical, biological, and cultural images that gives an area its visual and cultural identity and helps to define a "sense of place." Landscape character provides a frame of reference from which to determine scenic attractiveness and to measure scenic integrity (FSM 2380 – Landscape Management).

Scenic Integrity Objectives, referred to as SIOs, define the degrees of deviation from the landscape character that occur at any given time by using the process described in Agriculture Handbook 701, Landscape Aesthetics: A Handbook for Scenery Management (FSM 2380 – Landscape Management). When discussing SIOs, the degree of alteration is measured in terms of visual contrast with the surrounding natural landscape. The objectives of each SIO classification are included below:

- Very High – Management activities, except for very low visual-impact recreation facilities, are prohibited. Allows for ecological changes only. The existing landscape character and sense of place is expressed at the highest possible level.
- High – Management activities are not visually evident to the casual observer. The landscape character appears intact. Deviations may be present but must repeat the form, line, color, texture, and pattern common to the landscape character so completely and at such scale that they are not evident. Changes in the qualities of size, amount, intensity, direction, pattern, etc., should not be evident.
- Moderate – Management activities remain visually subordinate to the characteristic landscape being viewed. Activities may repeat form, line, color, or texture common to the characteristic landscape but may not change in their qualities of size, amount, intensity, direction, pattern, etc.

- Low – Management activities begin to visually dominate the original characteristic landscape. However, activities of vegetative and landform alteration must borrow from naturally established form, line, color, or texture so completely and at such a scale that its visual characteristics are those of natural occurrences within the surrounding area or character type. Structures must remain visually subordinate to the proposed composition.

- Very Low – Management activities of vegetative and landform alterations may dominate the characteristic landscape. While alterations may not borrow from attributes such as size, shape, edge effect, and pattern of natural openings, vegetative type changes, or architectural styles within or outside the landscape being viewed, they must be shaped and blended with the natural terrain so that elements such as unnatural edges, roads, landings, and structures do not dominate the composition.

Forest Service Acres of Scenic Management


Visual Management Classes

For both BLM and USFS, where management decisions have been made to preserve and protect the visual characteristics of the landscape, these areas are likely to provide better habitat and protection for sage grouse.

References:

BLM Manual 8400 - Visual Resource Management

Agriculture Handbook No. 462, National Forest Landscape Management (USFS 1974)

Landscape Aesthetics: A Handbook for Scenery Management (USFS 1995)



## Water Resources

Water on public lands is regulated by the Clean Water Act, Safe Drinking Water Act, Public Land Health Standards, and other laws, regulations, and policy guidance at the federal, state, and local levels. Water resources in Idaho are regulated by the US Environmental Protection Agency (EPA) and the Idaho Department of Environmental Quality (DEQ).

The Idaho DEQ has granted designated management agency status to the BLM. As a designated management agency, the BLM must: (1) implement and enforce natural resource management programs for the protection of water quality on Federal lands under its jurisdiction; (2) protect and maintain water quality where it meets or exceeds applicable state and Tribal water quality standards; (3) monitor activities to assure that they meet standards and report the results to the State of Idaho; and (4) meet periodically to recertify water quality best management practices (BMPs). BMPs include methods, measures, or practices to prevent or reduce water pollution, including but not limited to structural and nonstructural controls, operations, and maintenance procedures. BMPs are applied as needed to projects.

## Indicators

Indicators vary by resource and include measurable factors that are used to describe resource conditions. The indicators used to describe current conditions are the same indicators that are used to forecast the potential effects that could result from implementation of any of the proposed alternatives described in Chapter 2. The following indicators for water resources will be used to characterize water resources and determine the relative effects on water resources from management actions proposed by the different alternatives:

- Alter the physical characteristics of water sources that influence Greater Sage-Grouse to a point in which these resources are not properly functioning or sustainable.
- Meet state and federal water quality standards for surface waters.
- Impair water quality to a degree that could affect the survival of Greater Sage-Grouse or aquatic/riparian species.
- Alter water resources habitat for mosquitoes

## Existing Conditions

The discussion of existing conditions includes a description of water resources for the planning area, regardless of land ownership. Where appropriate, it also includes a more detailed description of water resources for just BLM administered lands within the planning area. For this, the description is limited to describing water resources associated with Great Sage-Grouse and their habitat. Wetlands and livestock water developments are important sources of water that can influence Greater-Sage Grouse and their habitat.

## Conditions of the Planning Area

The BLM is the overwhelming land manager in the planning area. The Forest Service, US Fish and Wildlife Service, Bureau of Indian Affairs, and State of Idaho all have lands within the planning area that also contain a suite of water resources.



The average yearly precipitation for this area ranges from \_\_\_ to \_\_\_ inches. Within the planning area, the major water features, are streams, lakes, wetlands, playas, and dry lakes. Streams can be ephemeral, intermittent, or perennial. Ephemeral streams do not flow during an average water year, but do flow in response to large precipitation events. Intermittent streams flow during spring runoff for an average water year, but generally dry up later in the summer. Perennial streams contain some water all year for an average water year. Lakes can be permanent or temporary. Wetlands and floodplains vary in extent and depth throughout the year. Permanent waters can also be in the form of ponds and reservoirs developed for human or livestock consumption.

Stream channels and floodplains are important because their shape and condition affect how rapidly water flows through a river system, how much water is stored within the basins, the quality of the water, and how much erosion occurs. These functions, in turn, affect fish and wildlife habitat, agriculture, recreation, and the susceptibility of local communities and landowners to floods.

As early land management reduced vegetation in the watershed, overland flow of water increased and stream channels deepened to match the increased supply of water and sediment. Major flood events in the late 1800s were the likely immediate cause of the deepening channels. Channel incisions eventually lead to bank failures and subsequent channel widening. As channel widening and bank failures continued, new low flow channels began to form in the debris from bank failure. Many of the stream channels in the planning area were in the process of this initial buildup in the 1980s. The result of this process is that new channels are usually lower than pre-disturbance channels, and the old floodplain now functions primarily as a terrace. Some terraces may be the result of climatic variations and associated changes in flow and sediment supply. The final stage of channel evolution results in a new bankfull channel and active floodplain at a new, lower elevation. Many stream channels in the planning area have new, lower elevation channels and floodplains.

#### Surface Water

The United States is divided and sub-divided into successively smaller hydrologic units called regions, sub-regions, accounting units (basins), and cataloging units (sub-basins). Each hydrologic unit is identified by a unique hydrologic unit code (HUC) consisting of two to eight digits. The fourth level of classification (sub-basin) is represented by an 8 digit HUC.

Sub-basin Name	8 digit HUC	Sub-basin Size (acres)	Sub-basin size within planning area (acres)	BLM administered lands in sub-basin within planning area (acres)	Length of streams in sub-basin within planning area (miles)	Length of streams crossing BLM lands in sub-basin within planning area (miles)

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The historic scarcity of stream flow in the planning area has led to increased flow regulation by the state of Idaho. Projects for irrigation, livestock, human use, and flood control have significantly altered natural flow regimes. This has changed habitat conditions, channel stability and timing of sediment and organic material transport. Stream flow has been altered by management activities such as water impoundments, water withdrawals, road construction, vegetation manipulation, grazing, fire suppression, and timber harvesting.

Most surface runoff in the planning area is from snowmelt or rainfall producing peak discharges in the spring and early summer. Many of the streams in the lower elevation semi-arid areas are either intermittent, with segments of perennial flow near springs, or ephemeral, with flow only during spring runoff and intense summer storms.

Water developments are also influential sources of water for Greater Sage Grouse. Water developments can function for multiple uses. They provide additional and alternative sources of water for wildlife and livestock, and can decrease use of riparian areas. Within the planning area, the BLM maintains \_\_\_ water developments, \_\_\_ of which are for Greater Sage Grouse.

#### Riparian Areas and Wetlands

Riparian areas are ecosystems that occur along rivers, streams or water bodies. These area exhibit vegetation or physical characteristics reflective of a permanent surface or subsurface water influence. Typical riparian areas are land along, adjacent to, or contiguous with perennially and intermittently flowing rivers, streams, and shores of lakes and reservoirs with stable water levels. Excluded are such sites as ephemeral streams, or washes that do not exhibit vegetation dependent on free water in the soil. Wetlands are areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support and which under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands include marshes, swamps, lake shores, lakeshores, sloughs, bogs, wet meadows, and riparian areas. Even through riparian and wetlands areas occupy only a small percentage of the planning area, these area provide a wide range of functions critical to many different wildlife species, improve water quality, provide scenery, and recreational opportunities.

The BLM uses proper functioning condition (PFC) assessments for evaluating riparian-wetland areas and uses it to supplement existing stream channel and riparian area evaluations and assessments. Each riparian-wetland has to be judged against its capability and potential. The capability and potential of natural riparian-wetland areas are characterized by the interaction of hydrology, vegetation, and erosion/deposition. PFC is defined separately for lotic (moving water systems, such as rivers, streams, and spring and lentic (standing water systems, such as lakes, ponds, seeps, and wet meadows). If a riparian or wetland area is not in PFC, it is placed into one of three other categories; functional at risk, non-functional, or unknown.

The majority of BLM stream channels and floodplains within the planning area are not meeting the BLM standard of PFC. However relatively few stream channels are non-functioning. More

intermittent stream channels are in non-functioning condition than perennial streams but they also have more miles of stream at potential and PFC.

## Water Quality

Water quality as defined by the CWA, includes all the physical, biological, and chemical characteristics which affect existing and designated beneficial uses. The state of Idaho is required to identify which beneficial uses a water body currently supports or could support in the future. Water quality standards are established to protect the beneficial uses of the State's waters. Beneficial uses in planning area are public and private domestic water supplies, industrial water supply, irrigation, livestock watering, fish and aquatic life, and recreation.

The State of Idaho is required by section 303(d) of the CWA to identify waters which are water quality impaired because of failing to meet their designated beneficial uses. Section 303(d) requires that each state develop a list of water bodies that fail to meet water quality standards and delineate stream segments and listing criteria for all streams. The 303(d) list of impaired waters is updated biannually, and the State is required to develop a total maximum daily load allocation for each pollutant of concern.

Water quality is evaluated based on the ability of a water body to support beneficial uses of the water. Generally, key water qualities are those that support native fish and wildlife and support human uses such as agriculture, recreation, and domestic water supply.

The major water quality concern for streams in the planning area has been water temperature. These water temperature concerns correlate to the beneficial use of fish spawning and rearing habitat. Conditions that affect stream temperature can be summarized as amount of near stream vegetation, channel shape, and hydrology. Many of these conditions are interrelated and many vary considerably across the landscape. For example, channel width measurements can change greatly over even small distances along a stream. Some conditions vary daily and or seasonally. Stream orientation from a north-south to an east-west can change solar heating considerably when stream width and vegetation type remain the same.

Removal of riparian vegetation and the shade it provides contributes to elevated stream temperatures. Channel widening can similarly increase solar loading. The principal source of heat energy delivered to the water column is solar energy striking the stream surface directly. Exposure to solar radiation can cause an increase in stream temperature. The ability of riparian vegetation to shade the stream throughout the day depends on aspect and vegetation height, width, density, and position relative to the stream, as well as aspect the stream flows.

Causes of stream degradation are removal of riparian vegetation and destabilization of streambanks. The land use most commonly associated with these problems in the planning area is livestock grazing. Other land uses associated with degraded streams include roads, trails, water withdraw, reservoir storage and release, altered physical characteristics of the stream and wetlands alteration.

## Groundwater

Groundwater is used for irrigation, domestic use, and livestock use. The quality of the groundwater is a function of the chemical makeup of the underground formation containing the water. Most of the planning area contains good quality water but the water is usually hard and contains moderate amounts of dissolved minerals.

The BLM maintains \_\_\_ potable water wells in the planning area. These wells are monitored to ensure the State of Idaho requirements for public water systems are met.

Springs and seeps occur in areas where water from aquifers reaches the surface. Many springs begin in stream channels others flow into small ponds or marshy areas that drain into channels. Some springs and seep area form their own channels. That reach flowing streams, but other springs lose their surface expression and recharge alluvial fill material or permeable stratum.

Springs and seeps are important to aquatic habitats because of the perennial base flow they provide to a stream. The outflow from springs in summer usually helps to maintain lower water temperatures. In winter, especially in small streams, base flow helps to maintain an aquatic habitat in an otherwise frozen environment.

#### Water Quantity

Water balance across the United States is approximately 30% runoff and 70% evaporation. This may be different across the planning area due to higher temperatures and lower relative humidity in some areas.

There are numerous gauging stations within the planning area and the highest volumes of water are produced in \_\_\_\_\_. The peak flows are connected with the spring runoff and snow melt with a decrease to near base flow during the month of July. Stream flow is measured in cubic feet per second (cfs) or amount of flow required to pass one cubic foot of water in one second. The average annual flow across the planning area is \_\_\_\_\_. Seasons and years of low water yield are particularly crucial periods for most of the planning area's beneficial uses.

The annual flow patterns may have changed since the 19<sup>th</sup> century. Historical descriptions indicate that streams were relatively stable with good summer streamflow and good water quality and heavy riparian cover. Stream banks were covered with dense growths of aspen, poplar, and willow; cottonwood galleries were thick and wide; and beaver were abundant. Now peak flows are greater and late season flows are diminished. This may be the normal condition of larger flowing streams in the planning area. It is suspected that these effects are due to reduced rates of soil infiltration, reduced capacity for groundwater/riparian storage and loss of in channel storage in beaver ponds.

#### Trends

Demands on water resources have increased over the past few decades. Although most early water rights were established for irrigation and mining, today's demand includes municipal water supplies, commercial and industrial supplies, and maintenance of adequate streamflow for fish, recreation, and water quality.

The availability of water in much of the planning area is limited and may hamper additional developments that depend on water. Future water development for wildlife, recreation, and livestock would require a State of Idaho water right before project implementation could occur.

## Wild and Scenic Rivers

The National Wild and Scenic Rivers System was created by Congress in 1968 (Public Law 90-542; 16 U.S.C. 1271 et seq.) to preserve certain rivers with outstanding natural, cultural, and recreational values in a free-flowing condition for the enjoyment of present and future generations. The Act is notable for safeguarding the special character of these rivers, while also recognizing the potential for their appropriate use and development. It encourages river management that crosses political boundaries and promotes public participation in developing goals for river protection.

*It is hereby declared to be the policy of the United States that certain selected rivers of the Nation which, with their immediate environments, possess outstandingly remarkable scenic, recreational, geologic, fish and wildlife, historic, cultural or other similar values, shall be preserved in free-flowing condition, and that they and their immediate environments shall be protected for the benefit and enjoyment of present and future generations. The Congress declares that the established national policy of dams and other construction at appropriate sections of the rivers of the United States needs to be complemented by a policy that would preserve other selected rivers or sections thereof in their free-flowing condition to protect the water quality of such rivers and to fulfill other vital national conservation purposes. (Wild & Scenic Rivers Act, October 2, 1968)*

Rivers may be designated by Congress or, if certain requirements are met, the Secretary of the Interior. Each river is administered by either a federal or state agency. Designated segments need not include the entire river and may include tributaries. For federally administered rivers, the designated boundaries generally average one-quarter mile on either bank in the lower 48 states and one-half mile on rivers outside national parks in Alaska in order to protect river-related values.

### River Classification

Rivers are classified as *wild*, *scenic*, or *recreational*.

**Wild River Areas** – Those rivers or sections of rivers that are free of impoundments and generally inaccessible except by trail, with watersheds or shorelines essentially primitive and waters unpolluted. These represent vestiges of primitive America.

**Scenic River Areas** – Those rivers or sections of rivers that are free of impoundments, with shorelines or watersheds still largely primitive and shorelines largely undeveloped, but accessible in places by roads.

**Recreational River Areas** – Those rivers or sections of rivers that are readily accessible by road or railroad, that may have some development along their shorelines, and that may have undergone some impoundment or diversion in the past.

Regardless of classification, each river in the National System is administered with the goal of protecting and enhancing the values that caused it to be designated. Designation neither prohibits development nor gives the federal government control over private property. Recreation, agricultural practices, residential development, and other uses may continue. Protection of the river is provided through voluntary stewardship by landowners and river users and through

regulation and programs of federal, state, local, or tribal governments. In most cases not all land within boundaries is, or will be, publicly owned, and the Act limits how much land the federal government is allowed to acquire from willing sellers. Visitors to these rivers are cautioned to be aware of and respect private property rights.

The Act purposefully strives to balance dam and other construction at appropriate sections of rivers with permanent protection for some of the country's most outstanding free-flowing rivers. To accomplish this, it prohibits federal support for actions such as the construction of dams or other instream activities that would harm the river's free-flowing condition, water quality, or outstanding resource values. However, designation does not affect existing water rights or the existing jurisdiction of states and the federal government over waters as determined by established principles of law.

The Forest Service manages two designated rivers within the planning boundary. The Middle Fork of the Salmon is wholly within the planning boundary whereas only a portion of the Salmon River is within the planning boundary.

The BLM manages 16 designated rivers that are wholly within the planning boundary. All of the 16 rivers are within wilderness areas. Where the wilderness policy is more restrictive than the Wild and Scenic Rivers policy regarding actions within wilderness, the wilderness policy takes precedence.

#### FS Managed Wild and Scenic Rivers

<b>Name</b>	<b>Classification</b>	<b>River Miles</b>
Salmon River	Wild	Xx
	Recreational	xx
Middle Fork of the Salmon River	Wild	103
	Scenic	1

#### BLM Managed Wild and Scenic Rivers

<b>Name</b>	<b>Classification</b>	<b>River Miles</b>
Battle Creek	Wild	23.4
Big Jacks Creek	Wild	35
Bruneau River	Recreational	0.6
	Wild	39.3
West Fork Bruneau River	Wild	0.35
Cottonwood Creek	Wild	2.6
Deep Creek	Wild	13.1
Dickshooter Creek	Wild	9.25
Duncan Creek	Wild	0.9
Jarbidge River	Wild	28.8
Little Jacks Creek	Wild	12.4
North Fork Owyhee River	Recreational	5.7

	Wild	15.1
Owyhee River	Wild	67.3
South Fork Of The Owyhee River	Recreational	1.2
	Wild	31.4
Red Canyon	Wild	4.6
Sheep Creek	Wild	25.6
Wickahoney Creek	Wild	1.5

References:

BLM Manual 6400 Wild and Scenic Rivers- Policy and Program Direction for Identification, Evaluation, Planning and Management 2012

Interagency Wild and Scenic River Council website ([www.rivers.gov](http://www.rivers.gov))



## Wilderness

In 1964, the Wilderness Act (the Act) established the National Wilderness Preservation System to be managed by the U.S. Forest Service, National Park Service, and U.S. Fish and Wildlife Service. In 1976, with the passage of the Federal Land Policy and Management Act (FLPMA), Congress made the Bureau of Land Management (BLM) the fourth agency with wilderness management authority under the Wilderness Act. Section 603(c) of FLPMA directed that for BLM lands “designated [by Congress] for preservation as wilderness, the provisions of the Wilderness Act that apply to national forest wilderness areas shall apply with respect to the administration and use of such designated area.”

Section 4(b) of the Act further sets forth the agencies’ responsibilities in administering wilderness areas and states that the preservation of wilderness character is the primary management mandate. In the relevant part, the Act states: “Except as otherwise provided in this Act, each agency administering any area designated as wilderness shall be responsible for preserving the wilderness character of the area.”

As set forth in Section 2(c) (“Definition of Wilderness”) of the Wilderness Act, wilderness character is composed of four mandatory qualities and a fifth, optional, quality. These are:

i. *Untrammeled*. The Wilderness Act states that wilderness is “an area where the earth and its community of life are untrammeled by man.” A “trammel” is literally a net, snare, hobble, or other device that impedes the free movement of an animal. Here, used metaphorically, “untrammeled” refers to wilderness as essentially unhindered and free from modern human control or manipulation. This quality is impaired by human activities or actions that control or manipulate the components or processes of ecological systems inside wilderness.

ii. *Natural*. The Wilderness Act states that wilderness is “protected and managed so as to preserve its natural conditions.” In short, wilderness ecological systems should be as free as possible from the effects of modern civilization. Management must foster a natural distribution of native wildlife, fish, and plants by ensuring that ecosystems and ecological processes continue to function naturally. Watersheds, water bodies, water quality, and soils are maintained in a natural condition; associated ecological processes previously altered by human influences will be allowed to return to their natural condition. Fire, insects, and diseases are allowed to play their natural role in the wilderness ecosystem except where these activities threaten human life, property, or high value resources on adjacent non-wilderness lands. Additional guidance on this is provided in section 1.6.C of this manual, which addresses the management of specific activities in wilderness. This quality may be affected by intended or unintended effects of human activities on the ecological systems inside the wilderness.

iii. *Undeveloped*. The Wilderness Act states that wilderness is an area “of undeveloped Federal land retaining its primeval character and influence, without permanent improvements or human habitation,” “where man himself is a visitor who does not remain,” and “with the imprint of man’s work substantially unnoticeable.” Wilderness has minimal evidence of modern human occupation or modification. This quality is impaired by the presence of structures or installations, and by the use of motor vehicles, motorized equipment, or mechanical transport that increases people’s ability to

occupy or modify the environment. More detail on the activities that impair this quality is found in Section 1.6.B of this policy.

iv. *Solitude or Primitive and Unconfined Recreation.* The Wilderness Act states that wilderness has “outstanding opportunities for solitude or a primitive and unconfined type of recreation.” Wilderness provides opportunities for people to experience: natural sights and sounds; remote, isolated, unfrequented, or secluded places; and freedom, risk, and the physical and emotional challenges of self-discovery and self-reliance. Any one wilderness does not have to provide all these opportunities, nor is it necessary that they be present on every acre of a given wilderness. Where present, however, the preservation of these opportunities is important to the preservation of wilderness character as a whole. This quality is impaired by settings that reduce these opportunities, such as visitor encounters, signs of modern civilization, recreation facilities, and management restrictions on visitor behavior.

v. *Unique, Supplemental, or Other Features.* The Wilderness Act states that wilderness areas “may also contain ecological, geological, or other features of scientific, educational, scenic, or historical value.” Though these values are not required of any wilderness, where they are present they are part of that area’s wilderness character, and must be protected as rigorously as any of the four required qualities. They may include historical, cultural, paleontological, or other resources not necessarily considered a part of any of the other qualities. These values are identified in a number of ways: in the area’s designating legislation, through its legislative history, by the original wilderness inventory, in a wilderness management plan, or at some other time after designation.

Section 4(b) of the Wilderness Act states that: “Except as otherwise provided in this Act, wilderness areas shall be devoted to the public purposes of recreational, scenic, scientific, educational, conservation, and historical use.” In most cases the public purposes reflect one or more qualities of wilderness character and are administered so as to preserve the wilderness character of the area.

Section 4(c) of the Wilderness Act lists uses and activities that are specifically prohibited in wilderness: “Except as specifically provided for in this Act, and subject to existing private rights, there shall be no commercial enterprise and no permanent road within any wilderness area designated by this Act and, except as necessary to meet minimum requirements for the administration of the area for the purpose of this Act (including measures required in emergencies involving the health and safety of persons within the area), there shall be no temporary road, no use of motor vehicles, motorized equipment or motorboats, no landing of aircraft, no other form of mechanical transport, and no structure or installation within any such area.”

The BLM Wilderness Manual 6340 states: Wildlife management within wilderness is guided by all relevant laws, including the Wilderness Act, acts designating specific wilderness areas, the Endangered Species Act, the Migratory Bird Treaty Act, Native American treaty rights, 43 CFR 6300 (Management of Designated Wilderness Areas), 43 CFR 24 (Department of the Interior Fish and Wildlife Policy: State-Federal Relationships), and applicable State laws and policies regarding wildlife.

Many wilderness areas provide important habitat for federally listed threatened or endangered wildlife species. The BLM will manage wilderness areas to protect and recover known populations of federally listed threatened or endangered species and to aid in their recovery in previously occupied habitat.

To protect or recover threatened, endangered, or candidate species necessary actions, including habitat manipulation and special protection measures, may be implemented in wilderness to a degree greater than for unlisted species. Nevertheless, any wilderness-impairing actions must be necessary for the protection or recovery of the species and it must be demonstrated that the actions cannot be done as effectively outside wilderness. In coordination with the U.S. Fish and Wildlife Service and applicable State wildlife agencies, the BLM will use the Minimum Requirements Decision Guide to determine the actions that least impair wilderness character.

Threatened and endangered species may be transplanted into previously occupied habitat within wilderness. By policy, all transplants will require approval by the BLM in coordination with the applicable State wildlife agencies through the use of the Minimum Requirements Decision Guide and subsequent NEPA analysis. The BLM’s NEPA analysis will evaluate the impacts of the activity on wilderness character.

When alternative areas outside of wilderness offer equal or better opportunities for habitat improvement for species protection, recovery actions will be taken outside of wilderness first, in cooperation, as applicable, with the U.S. Fish and Wildlife Service and State wildlife agencies.

BLM has six wilderness areas within the planning boundary. These six areas are all within Owyhee County and were designated by Congress in 2009 through the Omnibus Public Lands Management Act.

<b><u>BLM Wilderness Name</u></b>	<b><u>Wilderness Acres</u></b>
Big Jacks Creek Wilderness	52,826
Bruneau-Jarbidge Rivers Wilderness	89,966
Little Jacks Creek Wilderness	50,929
North Fork Owyhee Wilderness	43,413
Owyhee River Wilderness	267,328
Pole Creek Wilderness	12,533
<i>Total BLM Wilderness</i>	<i>516,995</i>

A wilderness management plan for the six BLM wilderness areas will be released in draft in February 2013. A final plan should be completed by mid to late 2013.

#### US Forest Service

The Forest Service, National Park Service and BLM manage wilderness areas under the same legislation; the 1964 Wilderness Act. The agencies have similar objectives and policies related to wilderness. Below is text from the Forest Service wilderness manual.

Wilderness is a unique and vital resource. In addition to offering primitive recreation opportunities, it is valuable for its scientific and educational uses, as a benchmark for ecological studies, and for the preservation of historical and natural features.

Manage the wilderness resource to ensure its character and values are dominant and enduring. Its management must be consistent over time and between areas to ensure its present and future availability and enjoyment as wilderness. Manage wilderness to ensure that human influence does not impede the free play of natural forces or interfere with natural successions in the ecosystems and to ensure that each wilderness offers outstanding opportunities for solitude or a primitive and unconfined type of recreation. Manage wilderness as one resource rather than a series of separate resources (FSM 2300 sec. 2320.6).

## **Objectives**

1. Maintain and perpetuate the enduring resource of wilderness as one of the multiple uses of National Forest System land.
2. Maintain wilderness in such a manner that ecosystems are unaffected by human manipulation and influences so that plants and animals develop and respond to natural forces.
3. Minimize the impact of those kinds of uses and activities generally prohibited by the Wilderness Act, but specifically excepted by the Act or subsequent legislation.
4. Protect and perpetuate wilderness character and public values including, but not limited to, opportunities for scientific study, education, solitude, physical and mental challenge and stimulation, inspiration, and primitive recreation experiences.
5. Gather information and carry out research in a manner compatible with preserving the wilderness environment to increase understanding of wilderness ecology, wilderness uses, management opportunities, and visitor behavior.

## **Policy**

1. Where there are alternatives among management decisions, wilderness values shall dominate over all other considerations except where limited by the Wilderness Act, subsequent legislation, or regulations.
2. Manage the use of other resources in wilderness in a manner compatible with wilderness resource management objectives.
3. In wildernesses where the establishing legislation permits resource uses and activities that are nonconforming exceptions to the definition of wilderness as described in the Wilderness Act, manage these nonconforming uses and activities in such a manner as to minimize their effect on the wilderness resource.

4. Cease uses and activities and remove existing structures not essential to the administration, protection, or management of wilderness for wilderness purposes or not provided for in the establishing legislation.

5. Because wilderness does not exist in a vacuum, consider activities on both sides of wilderness boundaries during planning and articulate management goals and the blending of diverse resources in forest plans. Do not maintain buffer strips of undeveloped wildland to provide an informal extension of wilderness. Do not maintain internal buffer zones that degrade wilderness values. Use the Recreation Opportunity Spectrum (FSM 2310) as a tool to plan adjacent land management.

6. Manage each wilderness as a total unit and coordinate management direction when they cross other administrative boundaries.

7. Use interdisciplinary skills in planning for wilderness use and administration.

8. Gather necessary information and carry out research programs in a manner that is compatible with the preservation of the wilderness environment.

9. Whenever and wherever possible, acquire non-Federal lands located within wildernesses, as well as non-Federal lands within those areas recommended for inclusion in the system.

The Forest Service manages eight wilderness areas that are either all or portions of within the planning area.

<u>FS Wilderness Name</u>	<u>Wilderness Acres</u>
Sawtooth	217,088 acres
Frank Church River of No Return	
Anaconda Pintler	
Gates of the Mountains	28,562 acres
Lee Metcalf	254,635 acres
Red Rock Lakes	32,350 acres
Absaroka Beartooth	

#### National Park Service

The following is from the National Park Service Wilderness Management Policy 2006: The National Park Service will manage wilderness areas for the use and enjoyment of the American people in such a manner as will leave them unimpaired for future use and enjoyment as wilderness. Management will include the protection of these areas, the preservation of their

wilderness character, and the gathering and dissemination of information regarding their use and enjoyment as wilderness. The purpose of wilderness in the national parks includes the preservation of wilderness character and wilderness resources in an unimpaired condition and, in accordance with the Wilderness Act, wilderness areas shall be devoted to the public purposes of recreational, scenic, scientific, educational, conservation, and historical use.

Craters of the Moon National Monument manages one wilderness area within the planning boundary.

NPS Wilderness Name	Wilderness Acres
Craters of the Moon National Wilderness	43,243 acres

#### References

BLM Manual 6340—Management of BLM Wilderness 2012

FS Manual 2300 Recreation, Wilderness, and Related Resource Management Chapter 2320

Wilderness Management

NPS Wilderness Preservation and Management 2006

Wilderness.net

## Wilderness Study Areas (WSAs)

Section 603 of FLPMA directed the BLM to carry out a wilderness review of the public lands. The wilderness inventory was conducted from 1978 to 1980, and excluded Alaska and Oregon and California Grant Lands Act of 1937 (O&C Act) lands managed primarily for timber production. The original inventory focused on roadless areas of public lands of 5,000 acres or more and on roadless islands, but also included areas of less than 5,000 acres that had wilderness characteristics in association with contiguous roadless lands managed by another agency, and areas of less than 5,000 acres that had wilderness characteristics and could practicably be managed to keep those characteristics in an unimpaired condition. Additional WSAs were designated through the BLM land use planning process under the authority of Sections 201,202, and 302 of FLPMA after the reports to Congress were completed in 1993

The inventory phase identified areas that were found to have the characteristics of wilderness enumerated by Congress in Section 2 (c) of the Wilderness Act of 1964:

"A wilderness...(1) generally appears to have been affected primarily by the forces of nature, with the imprint of man's work substantially unnoticeable; (2) has outstanding opportunities for solitude or a primitive and unconfined type of recreation; (3) has at least five thousand acres of land or is of sufficient size as to make practicable its preservation and use in an unimpaired condition; and (4) may also contain ecological, geological, or other features of scientific, educational, scenic, or historical value." When these characteristics were found within a defined boundary, the presence of the wilderness resource was documented and the area was classified as a WSA.

During the study phase, all values, resources, and uses occurring within each WSA were analyzed, pursuant to the National Environmental Policy Act (NEPA), through legislative environmental impact statements. When the study was completed, recommendations as to the suitability or unsuitability of each WSA for designation as wilderness were submitted to the President through the Secretary of the Interior, and then from the President to Congress.

The BLM's management policy is to continue resource uses on lands designated as WSAs in a manner that maintains the area's suitability for preservation as wilderness. The BLM's policy will protect the wilderness characteristics of all WSAs in the same or better condition than they were on October 21, 1976 until Congress determines whether or not they should be designated as wilderness. When managers are in doubt as to a course of action in a WSA, this should serve as a guiding principle.

To keep WSAs suitable for wilderness designation, BLM manages them under the "non-impairment" standard. The non-impairment standard requires the BLM to review all proposals for uses and/or facilities within WSAs to ascertain whether the proposal would impair the suitability of the WSA for preservation as wilderness. While there are some exceptions, in

general, all uses and/or facilities must meet the non-impairment standard (i.e. must be both temporary and not create surface disturbance), as described in the following detailed criteria:

a. The use or facility is temporary. The use or facility is needed for a defined time period to respond to a temporary need, and would be terminated and removed prior to or upon wilderness designation. A chronic, repeated short-term use does not meet this definition of “temporary.” Uses, activities, or facilities that create a demand for uses that would be incompatible with wilderness management also do not meet the definition of temporary.

b. The use or facility will not create new surface disturbance. There is no new disruption of the rock, soil, or vegetation, including vegetative trampling, that would necessitate reclamation, rehabilitation, or restoration in order for the site to appear and function as it did prior to the disturbance. Uses or facilities that would require only passive natural restoration may still be considered surface disturbing. For example, cross-country vehicle use off boundary roads or existing primitive routes is surface disturbing because the tracks created by the vehicle leave depressions or ruts, compact the soils, and trample or compress vegetation. Landing fixed wing aircraft is considered surface disturbing unless it is on an existing airstrip or primitive route open to other motorized use (i.e. identified and documented to exist prior to passage of FLPMA). Certain activities allowed in wilderness areas, such as recreational hiking, use of pack stock, or domestic livestock grazing, are recognized as acceptable within a WSA, although, in the literal sense, they cause surface disturbance.

BLM currently manages approximately 770,000 acres of WSAs within the planning boundary. This includes 10 WSAs in the Dillon Field Office and 34 WSAs in the Idaho Field Offices.

There are XXX,000 acres of WSA within PPH.

Reference:

BLM Manual 6330 Management of Wilderness Study Areas (2012)



## West Nile Virus Synopsis for NEPA Analyses

### Affected Environment:

West Nile virus (WNV) is a mosquito-borne flavivirus that can cause fatal disease in sage-grouse (Naugle et al. 2004) and many other bird species in North America (Kramer et al. 2008). Individual sage-grouse that do not die as a result of direct mortality may suffer persistent symptoms that reduce subsequent survival, reproduction, or both. The virus is replicated generally in a mosquito-bird-mosquito infection cycle. Local and regional population declines have been observed in sage-grouse and other bird species susceptible to the virus in North America.

WNV has acted as an important source of mortality for sage-grouse and the virus was an important relatively new source of mortality in low and mid-elevation sage-grouse populations range-wide from 2003–2007 (Naugle et al. 2004, 2005; Walker et al. 2004, 2007b; Aldridge 2005; Kaczor 2008; Walker 2008). The highest confirmed elevation at which sage-grouse have been infected with WNV is ~2,300 m (7,500 feet) in the Lyon-Mono population of eastern California (Naugle et al. 2005). Individual sage-grouse in populations exposed to the virus during July-August 2003 were 3.3 times more likely to die than birds in uninfected populations (Naugle et al. 2004). WNV mortality of sage-grouse has been documented as ranging from 5 to 44 percent with most mortality occurring in July and August (Walker and Naugle 2011). In Idaho, WNV has been documented in sage-grouse in Owyhee and Twin Falls counties in 2006 (USGS 2006). The sage-grouse hunting season was closed in western Owyhee County due to concerns of WNV impacts (Idaho Sage-grouse Advisory Committee 2008).

The long-term response of different sage-grouse populations to WNV is expected to vary markedly depending on factors that influence susceptibility including: (1) annual and seasonal temperature-precipitation profiles, (2) land uses that influence the distribution of surface water, (3) population size, (4) genetic diversity, and (5) connectivity with other populations. Small, isolated, or genetically depauperate populations and those on the fringe of the species' range as in eastern California, Washington, North and South Dakota, Alberta, and Saskatchewan, are likely at higher risk. WNV outbreaks in small populations are more likely to reduce population size below a threshold from which recovery is unlikely and the likelihood of demographic or genetic rescue by adjacent populations is low (Morris and Doak 2002). Large, intact, low- to mid-elevation populations affected annually by WNV in northern Nevada, southeastern Idaho, central Montana, may absorb impacts of WNV if the quality and extent of available habitat still supports positive population growth (Walker and Naugle 2011).

WNV infection has been documented in several genera of mosquitoes (*Culex*, *Aedes*, *Ochlerotatus*, *Culiseta*; (Goddard et al. 2002, Doherty 2007) and at least one other biting midge (*Culicoides sonorensis*) (Naugle et al. 2004), in sagebrush habitats of western North America. However, *Culex tarsalis* is the dominant vector of WNV in sagebrush habitats (Goddard et al. 2002, Naugle et al. 2004, Doherty 2007). This species of mosquito prefers sites with submerged vegetation on which to deposit eggs and warm, standing water that promotes rapid larval development, including ephemeral puddles, vegetated pond edges, and water-filled hoof prints



(Milby and Meyer 1986, Buth et al. 1990, Doherty 2007). Dense stands of emergent plants physically obstruct access to mosquitoes (larvae and pupae) by predators and hinder mosquito control efforts (Knight et al. 2003). Open water areas provide unsuitable habitats for mosquito larvae and pupae due to increased wave action and increased vulnerability to predation by native predators of mosquitoes (Laird 1988).

Mosquito larvae and pupae are subject to greater loss by direct solar radiation where there is little cover in water, resulting in fluctuating water temperatures. Larvae and pupae have been shown to be more sensitive to temperature fluctuations, so a habitat that provides a shady resting place from the heat of the day is more likely to have a higher survival rate of larvae/pupae than a habitat with little vegetation or little water. Open water environments without cover also provide increased availability of mosquito larvae to aquatic predators such as backskimmers (Laird 1988). Vegetation or debris provides shelter from predators, leading to a greater survival of mosquito larvae and a greater population of adults. These invertebrate predators can substantially impact mosquito populations by consuming high numbers of mosquito larvae, as well as reducing egg laying by adult female mosquitoes (Laird 1988).

Sage-grouse congregate in mesic habitats in mid- to late summer (Connelly et al. 2000) and often use ponds, springs, and other standing water sources during hot weather (Dalke et al. 1963, Connelly and Doughty 1989). *Culex tarsalis* uses these same habitats for breeding (Goddard et al. 2002, Doherty 2007) and the risk of exposure to WNV may be elevated at this time.

WNV transmission is also regulated by environmental factors, including temperature, precipitation, and distribution of anthropogenic water sources that support breeding mosquito vectors (Brust 1991, Dohm et al. 2002, Reisen et al. 2006a, Zou et al. 2006a, b). It has been suggested in ecosystems other than sagebrush that high temperatures associated with drought conditions increases West Nile virus transmission (Epstein and Defilippo 2001, Shaman et al. 2005). Higher temperatures facilitate greater nocturnal host-seeking activity by mosquitoes, more rapid larval development, and shorter extrinsic incubation periods for the virus—the time it takes for the virus to replicate inside the mosquito and invade its salivary glands (Reisen et al. 2006a). Man-made water sources may also facilitate the spread of WNV within sage-grouse habitats (Zou et al. 2006b, Doherty 2007, Walker et al. 2007). All documented WNV-related mortality to sage-grouse has occurred from mid-May to through mid-September (Walker et al. 2007b, Walker 2008, Walker and Naugle 2011).

The addition of artificial water sources that increase the distribution and abundance of *Culex tarsalis* may contribute to the spread of WNV if they have attributes beneficial to *Culex tarsalis*. Man-made water sources known to support breeding *Culex tarsalis* in sage-grouse habitat include overflowing stock tanks, stock ponds, seep and overflow areas below earthen dams, irrigated agricultural fields, and ponds constructed for coal-bed natural gas development (Zou et al. 2006b, Doherty 2007). Also, habitat or range improvement projects that create mesic zones around stock tanks or ponds may inadvertently contribute to the WNV problem, because *Culex tarsalis* readily takes advantage of water-filled hoof prints around tanks and ponds for breeding (Doherty 2007).



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### 3.2 CULTURAL RESOURCES

In this section the term “cultural resources” is used to encompass the broad scope of resources that must be considered by the BLM and as further defined below. A cultural resource is a definite location of human activity, occupation, or use identifiable through field survey, historical documentation, or oral evidence (BLM Manual 8100). The term cultural resources is inclusive and has been adopted and widely used to refer to the diverse human record found in sites, structures, objects and places created and/or used by people. These may comprise archaeological, historic, or architectural sites, structures, objects, or places, and may include locations of traditional cultural or religious importance to a particular social and/or cultural group, often referred to as Traditional Cultural Properties (TCP). The term includes “historic properties,” as defined in the National Historic Preservation Act of 1966, as amended (NHPA), and the implementing regulations found in the Code of Federal Regulations (CFR) at 36 CFR 800. Historic properties are cultural resources determined to be eligible for listing on the National Register of Historic Places (NRHP). The term also includes “archaeological resources” as defined in the Archaeological Resources Protection Act of 1979, and other sites, structures, objects, items and places as addressed in other statutes/regulations (e.g., American Indian Religious Freedom Act of 1978, the Antiquities Act of 1906, the National Environmental Policy Act of 1969 (NEPA), the Native America Graves Protection and Repatriation Act of 1990 and the National Trails System Act of 1968).

Cultural resources are represented by the full temporal range of human occupation of the continent, from the first peoples’ arrival and settlement in the region over 13,000 years ago and subsequent tribal groups expansion and use throughout all of the sub-region and other parts of the West to more recent incursions of fur trappers, homesteaders and miners and ranchers of the last 200 years. Cultural resources can include surface and buried artifacts and cultural features made and left by human cultures in archaeological sites; items built by past cultures (e.g., houses/house remains and activity areas); and places associated with traditional cultural uses.

#### **Considering Effects to Cultural Resources Pursuant to Section 106 of the NHPA**

Cultural resources are most frequently identified and recorded through federal compliance with Section 106 of the NHPA and subsequent consultation with Indian tribes and State Historic Preservation Offices (SHPO). Section 106 requires that federal agencies that fund, approve, authorize, license, or permit actions or undertakings to consider effects to “historic properties” that could occur due to the proposed undertaking(s). It is important to emphasize again that the term “historic property” has a specific meaning under the NHPA, referring only to those properties determined to be eligible for and/or listed in the NRHP regardless of property type or period of use (e.g., TCP or archaeological site, historic versus prehistoric).

Federal regulations define specific criterion for NRHP eligibility and provide the measures for evaluating cultural resources for their eligibility. These criteria are found at 36 CFR 60.4. Once a cultural resource has been determined to be eligible for the NRHP the agency must consider the potential effects of the proposed action on the historic property and provide measures to either reduce or mitigate any adverse effects. Consequently, compliance with Section 106 provides a primary mechanism for federal agencies to assess and take into account the effects of proposed federal actions or undertakings on cultural resources during NEPA reviews.

BLM follows alternative procedures, defined in state specific Protocols, for meeting its Section 106 obligations allowed for and pursuant to the implementing regulations of the NHPA (36 CFR 800.14). In collaboration with the Advisory Council on Historic Preservation (ACHP) and the National Conference of State Historic Preservation Officers (NCSHPO), the BLM developed alternative procedures that define the manner in which the agency will comply with Section 106 of the NHPA. These procedures are defined in a national Programmatic Agreement (nPA), revised in 2012, between the three parties. The

nPA procedures are implemented by the state specific Protocol agreements with each state's SHPO. The Protocols further define how BLM will coordinate with the SHPO in each state to fulfill Section 106 responsibilities.

Prior to initiating proposed actions for protection and enhancement of sage grouse and sage grouse habitat, the responsible manager shall determine the area of potential effect; review existing information on known/anticipated historic properties that could be affected; seek information (in coordination with environmental review and land use planning processes) from Indian tribes and other parties likely to have knowledge of or concern with historic properties (including places of traditional cultural and/or religious significance); determine the need for field surveys or other actions to identify historic properties; make a good faith effort to identify and evaluate historic properties; assess and determine effects to historic properties; and identify measures to avoid, lessen or mitigate adverse effects to historic properties.

As the various types of sage grouse/habitat improvement projects are identified, effects to cultural resources can be assessed on a case by case or programmatic level; however, given current information, it is assumed that all future actions will require separate NHPA analyses. Any programmatic procedures not covered by the nPA or state Protocols will require either (a) separate NHPA analysis and/or (b) a separate Section 106 agreement.

### **3.2.1 Indicators**

- Number of Archaeological Sites within the PPH and PGH areas
- Number of traditional cultural properties/traditional use areas within PPH and PGH areas
- Number of cultural resources determined eligible/listed within PPH and PGH areas
- Causal factors that affect resource condition (whether by preserving, stabilizing or deteriorating the resource)

### **3.2.2 Existing Conditions**

#### **Conditions of the Planning Area**

The planning area includes federal lands administered by the BLM Boise, Twin Falls and Idaho Falls Districts in Idaho and the Dillon Field Office of the Western Montana District in Montana. National Forest lands include lands administered by the Boise, Sawtooth, Salmon-Challis and Caribou-Targhee National Forests in Idaho and the Beaverhead-Deerlodge National Forest in Montana. A majority of the habitat is sagebrush steppe on BLM with upland sagebrush steppe and sub-alpine habitat or ecotones located on National Forest lands. The Snake and Salmon Rivers, and the headwaters of the Missouri river, are three major watershed systems within the planning area.

In general, and as extrapolated from BLM survey and site location data, on average 15% of public lands within the planning area have been inventoried resulting in the recordation of 17,801 archaeological resources (Table 1), including prehistoric and historic sites. This data indicates that on average 6-8 sites occur per square mile on public lands within the planning area. Formal determinations of eligibility have not been completed for most sites in the planning area; however as matter of course recorded resources are treated as eligible until determined otherwise. Based on logged eligibility determinations for known sites on public lands, roughly 14% of recorded sites have been determined to be eligible for listing on the NRHP. These data indicate that over 2,492 of the recorded sites on public lands are eligible for the NRHP. Several well-known historic properties and districts occur in the planning area, as listed by Field Office in Table 2. These historic properties along with other eligible properties in the planning area would need evaluation for the effects of proposed undertakings for sage grouse habitat improvement prior to implementation. Areas not previously inventoried would be subjected to full cultural resources analysis for ground disturbing actions.

	<b>Idaho BLM Surveys</b>	<b>Idaho BLM Resources</b>	<b>Montana BLM Surveys</b>	<b>Montana BLM Resources</b>	<b>Planning Area Totals</b>
<b>PPH</b>	2,057 surveys	12,517	596 surveys	723	
	692,778 acres		25,514 acres		
<b>PGH</b>	1,226 surveys	4,561	538 surveys	564	
	739,277 acres		23,893 acres		
<b>Totals</b>	<b>1,432,055 acres</b>	<b>17,078</b>	<b>49,407 acres</b>	<b>1,287</b>	<b>1,481,462 acres</b> <b>18,365 Resources</b>

Table 1. Recorded Cultural Resource Surveys and Sites within Sage Grouse Habitat in Planning Area

### Cultural Use of the Planning Area

Three “cultural areas” are subsumed within the planning area. Cultural areas have often been correlated to physiographic regions, with the planning area falling within the northern Great Basin, southeastern Plateau and western Plains regions. These cultural areas roughly correspond to distinctly different indigenous groups with different languages and moderately different resource-based economic systems and social structures. While these areas are associated to cultural groups and distinct tribes, cultural boundaries are fluid and overlapping. The main homelands and cultural traits of tribal groups that inhabit the region are generally defined by the cultural areas. Tribes that inhabit the region today and in the past include Great Basin groups such as the Shoshone-Paiute Tribes, Shoshone-Bannock Tribes, and the Eastern Shoshone; the Plateauan Nez Perce, Coeur d’Alene, Pend d’Oreille, Confederated Salish-Kootenai Tribes, Confederated Tribes of the Colville Reservation, Confederated Tribes of the Umatilla Reservation; and Plains groups including the Blackfoot Tribe, Chippewa Cree Tribes, and the Crow.

Tribal members actively use BLM lands for traditional resource procurement. The planning area contains populations of economically important plant and animal resources to tribal groups and individuals with certain species dominating depending on the region and the particular preferences of tribes or individuals. The sagebrush steppe and rocky upland flats are likely to support populations of plants such as bitterroot, biscuit root, Indian carrot, Indian rice grass and needle grass and other important root plants, such as camas in wetland areas. Modern traditional food plant gathering focuses almost entirely on root crops and wild fruits especially if they are found near the various reservations. Other types of cultural food plants such as seeds are not collected today to the degree they were collected in former times. Cultural plants for weaving appear to be collected wherever they are found. Medicinal cultural plants are undoubtedly collected today but practitioners of indigenous healing methods may not share the type(s) of species used as readily as those collecting plants for subsistence and weaving. Rabbits, deer, elk and fish are also important animal resources in the planning area.

The most common type of prehistoric site or cultural resource in Idaho and southwestern Montana is the lithic scatter. These types of sites contain mainly flaked stone (debitage) and/or stone tools left during the process of creating or repairing bifacial tools, such as arrow points, spear points, dart points, knives or scrapers. Lithic scatters often represent the remnants of prehistoric tool manufacturing/maintenance, locales created during subsistence pursuits, including hunting camps, animal butchering sites, or quarries. The “ubiquitous” lithic scatter comprises approximately 70 percent or more of recorded prehistoric sites in the planning area. Other site types may include habitation sites with remnants of house pits, house rings and hearths, as well as milling and storage equipment, such as pottery and basketry, and stone circles and wickiups in far eastern Idaho and Montana. Ceremonial sites may also occur in the planning area, but only few may leave an archaeological signature, such as cairns, pits (e.g., eagle catching, fasting) or stacked rock of a vision quest site, or medicine wheels, and may require tribal consultation with practitioners and elders to identify. Other site types include trails, such as the Oregon National Historic Trail (NHT) and Nez Perce NHT, petroglyphs and pictographs, hunting drivelines and blinds, rock shelters, and caves.

<b>Field Office (FO)</b>	<b>Key National Register Listed or Eligible Properties</b>
Dillon FO	The Bannack National Historic Landmark Big Hole National Battlefield Everson Creek/Black Canyon Quarry District Muddy Creek Archaeological District Lewis and Clark National Historic Trail Oregon National Historic Trail Historic mining districts, including Argenta, Bannack, Blue Wing, Ermont, Melrose, Rochester, Silver Star, Utopia, and Virginia City
Burley FO	California National Historic Trail Castle Rocks TCP City of Rocks National Historic Landmark Kelton Road and the
Bruneau FO	Camas and Pole Creeks Archaeological District Shoofly Rock Alignments Little Blue Table complex Five Fingers & Y "Buffalo" Jumps Hole in Rock Pictographs
Challis FO	Challis Springs Historic District Ima Mine White Knob Mining District Crystal City Double Springs Challis Bison Jump Bayhorse Mining District Donkey Hills horse trap
Four Rivers FO	Oregon National Historic Trail
Jarbridge FO	Toana Freight Wagon Road Devil Creek Complex Bruneau River/DryLakes Complex Browns Bench Obsidian Complex
Owyhee FO	Oregon National Historic Trail Silver City Historic District Delamar Historic District
Pocatello FO	Oregon National Historic Trail California National Historic Trail
Salmon FO	Lewis and Clark National Historic Trail Jaguar Cave Rag Town Buckhorn Mine Elmira Mine
Shoshone FO	Oregon National Historic Trail Wilson Butte Cave Richfield Pumphouse
Upper Snake FO	Birch Creek Rockshelters Oregon National Historic Trail Nez Perce National Historic Trail Bobcat Cave Jackknife Cave Black Canyon Rock Art Sites

Table 2. Well Known Historic Properties within the Planning Area.

While researchers in Idaho and Montana have developed varying cultural chronologies for prehistoric human use of the region, the general periods of use are similar and are discussed in very general terms here to outline prehistoric use of the planning area. The prehistoric cultural chronology for both Idaho and Montana include five general periods, the Early Prehistoric (PaleoIndian), ca. 13,500-8,000 B.P., three sub-periods of the Middle Prehistoric 8,000-300 B.P. and the Protohistoric/Early Historic 300-150 B.P. General overviews of archeological research in the region are provided in studies by Butler (1978, 1986), Meatte (1990), and Plew (2008), for southern Idaho, and Deaver and Deaver (1990) and Foor (1996) in southwestern Montana.

The most common type of historic cultural resource in the planning area relates to the mining of gold, silver, lead, and copper during the latter part of the 19th century and the early part of the 20th century. Such properties include mining camp remnants, ghost towns, miner's cabins, mining shafts, adits, mills, smelters, and an assortment of other mining related buildings, structures, and landscape features. Several comprehensive overviews of historic metal mining in Idaho and Montana have been produced in recent years, and provide the important context with which to evaluate such properties (McKay 2011; Godfrey 2003; Warhank 1999; Herbort 1995a and 1995b). Other historic period sites include transportation networks, trails, including the Oregon and California NHTs and associated side trails (e.g., Goodale's and Hudspeth Cutoffs) and the Lewis and Clark NHT, notable Lewis and Clark campsites, lumber mills, fur trapping shelters and cabins, homesteads, historic cemeteries, irrigation ditches, cow/sheep camps, shepherd cairns, stage stops and trash dumps.

### **3.2.3 Trends**

Federal lands will continue to be managed for the protection and preservation of cultural resources pursuant to regulation and policy. More concerted government-to-government consultation with tribes is occurring to address tribal resources and concerns. Prehistoric and historic resources are non-renewable and overtime have been diminished by unauthorized collection, looting and cumulative project impacts. However, efforts have increased in public education and outreach creating awareness about our nation's cultural heritage and tribal interests. These efforts have improved public understanding and awareness, resulting in increased preservation of cultural resources.

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### ***Acronyms***

National Environmental Policy Act (NEPA)

National Historic Preservation Act (NHPA)

National Historic Trail (NHT)

National Register of Historic Places (NRHP)

national Programmatic Agreement (nPA)

State Historic Preservation Officer (SHPO)

Traditional Cultural Properties (TCP)



### **3.3 Tribal Rights and Interests (Sant & Gilbert 2012):**

The federal government has a unique and distinctive relationship with federally recognized American Indian Tribes as set forth in the Constitution of the United States, treaties, statutes, Executive Orders, judicial decisions, and agreements. This relationship is different from the federal government's relationship with state and local governments or other entities. The United States government has a trust responsibility to federally recognized American Indian tribes that covers lands, resources, money, or other assets held by the federal government in trust and the ability of those tribes to exercise their tribal rights. The United States recognizes American Indian tribes as sovereign nations. The tribes maintain active interests in the planning area. Tribal members use public lands to gather plants or other native materials (e.g., stone for flint-knapping), hunt animals, and fish.

Indian treaties are negotiated contracts made pursuant to the Constitution of the United States and are considered the "supreme law of the land." They take precedence over any conflicting state laws because of the supremacy clause of the Constitution (Article 6, Clause 2). Treaty rights are not gifts or grants from the United States, but are bargained for concessions. These rights are grants-of-rights from the tribes rather than to the tribes. The reciprocal obligations assumed by the federal government and Indian tribes constitute the chief source of present-day federal Indian law.

The BLM, and other federal agencies, have the responsibility to identify and consider potential impacts of project alternatives identified for sage grouse planning on Indian trust resources, including fish, game, and plant resources, and on off-reservation, treaty-reserved fishing, hunting, gathering, and similar rights of access and resource use on public lands. This also includes rights of access and use for ceremonial and other traditional cultural practices. The BLM, as lead federal agency, also has the responsibility to ensure that meaningful consultation and coordination concerning sage grouse planning is conducted on a government-to-government basis with federally recognized tribes to consider tribal treaty rights and trust resources. Public lands retain social, economic, and traditional value for tribal people, as well as contemporary and ongoing spiritual and cultural uses. Through consultation with the tribes, BLM is aware of their treaty and trust obligations and the tribes' desire to capitalize on opportunities that maintain or enhance resources critical to the exercise of treaty rights, traditional customs, subsistence, and cultural uses of the land.

BLM consultation with American Indian Tribes, as it pertains to tribal interests, treaty rights and trust responsibilities, is conducted in accordance with the following direction:

- Bureau Manual Handbook H-8120-1 – Guidelines for Conducting Tribal Consultation (Transmitted 12/03/04).
- The National Historic Preservation Act of 1966 as amended (P.L. 89-665; 80 Stat. 915; 16 U.S.C. 470)
- Archaeological Resources Protection Act of 1979 (P.L. 96-95; 93 Stat. 721; 16 U.S.C. 470aa et seq.) as amended (P.L. 100-555; P.L. 100-588)
- American Indian Religious Freedom Act of 1978 (P.L. 95-431; 92 Stat. 469; 42 U.S.C. 19960)
- Native American Graves Protection and Repatriation Act of 1990 (P.L. 101-601; 104 Stat. 3048; 25 U.S.C. 3001)
- Executive Order No. 12898 – Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, February 11, 1994.
- Executive Order No. 13007 – Indian Sacred Sites, May 24, 1996.
- Executive Order No. 13084 – Consultation and Coordination with Indian Tribal Governments, May 14, 1998.
- Government-to-Government Relations with Native American Tribal Governments (Memorandum signed by President Clinton; April 29, 1994).

- Order No. 3175 – Departmental Responsibilities for Indian Trust Resources (Section 2 of Reorganization Plan No. 3 of 1950 – 64 Stat. 1262; November 8, 1993).

The planning area is within the traditional and/or historical use area of the Blackfoot Tribe, Chippewa Cree Tribe, Confederated Salish-Kootenai Tribes, Confederated Tribes of the Colville Reservation, Confederated Tribes of the Umatilla Reservation, Crow Tribe, Eastern Shoshone Tribe, Nez Perce Tribe, Shoshone-Bannock Tribes, and the Shoshone-Paiute Tribes. These tribes lived, hunted, fished, gathered plant foods, buried their dead, and conducted religious ceremonies on lands within the planning area.

During the 1850s and 1860s, the United States negotiated treaties with some tribes in order to acquire Indian lands for homesteading. The treaties that apply to the project area include the Crow Treaty, Fort Benton Treaty, Fort Bridger Treaty, Hell Gate Treaty, Nez Perce Treaty, and WallaWalla, Cayuse, and Umatilla Treaty. More information on these specific treaties is presented below. No tribal treaties were afforded to the Chippewa Cree and the Confederated Tribes of the Colville Indian Reservation. The Shoshone-Paiute Tribes of the Duck Valley Indian Reservation assert aboriginal rights to their traditional homelands; however, the Boise Valley Treaty of 1864 and the Bruneau Valley Treaty of 1866 were never ratified. The Shoshone-Paiute Tribes believe that title to these lands was not relinquished and they continue to claim title, rights, and interests associated with these lands.

On May 7, 1868, the Crow Tribe and the United States signed the Treaty with the Crows, 1868, referred to as the Crow Treaty (15 Stat. 649). In the Crow Treaty, the tribes relinquished ownership of thousands of acres of land to the United States. The treaty also guaranteed a permanent homeland for the Crow Tribe in southeastern Montana, which became known as the Crow Reservation. Article 4 of the treaty also states the tribe’s right to “hunt on the unoccupied lands of the United States so long as game may be found thereon.”

On October 17, 1855, the Blackfeet and the United States signed the Blackfeet Treaty of Fort Benton, 1855, referred to as the Fort Benton Treaty (11 Stat. 657). In the Fort Benton Treaty, a great majority of the land was designated as common hunting ground for the Blackfeet and neighboring tribes. In 1888, lands were set aside in north-central Montana for the Blackfeet Indian Reservation.

On July 3, 1868, the Eastern Band Shoshone and Bannock Tribes and the United States signed the Treaty with the Eastern Band Shoshoni and Bannack, 1868, referred to as the Fort Bridger Treaty (15 Stat. 673). In the Fort Bridger Treaty, the tribes relinquished ownership of approximately 20 million acres to the United States. The Eastern Band Shoshone were guaranteed a permanent homeland in western Wyoming, which has become known as the Wind River Indian Reservation. The Bannock and other bands of Shoshone were guaranteed a permanent homeland as well which ended up being in southeast Idaho, known as the Fort Hall Indian Reservation. Article 4 of the treaty also retains the tribes’ rights to hunt, fish, and gather natural resources (including timber), and provides other associative rights necessary to effectuate these rights on the unoccupied lands of the United States.

On July 16, 1855, the confederated tribes of the Flathead, Kootenay (sic), and the Upper Pend d’Oreilles Indians and the United States signed the Treaty with the Flatheads, etc., 1855, referred to as the Hell Gate Treaty (12 Stat. 975). The treaty guaranteed a permanent homeland for the confederated tribes in northwestern Montana, which has become known as the Flathead Reservation. Article 3 of the treaty also retains the tribes, “privilege of hunting, gathering roots, and berries, and pasturing their horses and cattle upon open and unclaimed lands.”

On June 11, 1855, the Nez Perce Tribe and the United States signed the Treaty with the Nez Perces, 1855, referred to as the Nez Perce Treaty (12 Stat. 957). In the Nez Perce Treaty, the tribes relinquished ownership of millions of acres of land to the United States. The treaty also guaranteed a permanent

homeland for the Nez Perce Tribe in northern Idaho, which became known as the Nez Perce Reservation. Article 3 of the treaty also asserts the tribe's right to "take fish at all usual and accustomed places in common with citizens of the [Washington] Territory; and of erecting temporary buildings for curing, together with the privilege of hunting, gathering roots and berries, and pasturing their horses and cattle upon open and unclaimed land."

On June 9, 1855, the Walla Walla, Cayuses, and Umatilla tribes and the United States signed the Treaty with the Walla Walla, Cayuse, etc., 1855 (12 Stat. 945). In the treaty, the tribes relinquished 6.4 million acres of land to the United States. The treaty also guaranteed a permanent homeland for the Walla Walla, Cayuse, Umatilla, and other tribes in northeastern Oregon, which became known as the Confederated Tribes of the Umatilla Indian Reservation. Article 1 of the treaty also retained the tribes' right to "hunt, gather roots and berries, and pasture stock on unclaimed lands of the United States."

BLM manages portions of these "unoccupied or unclaimed lands". Members of the interested tribes to this proposed action exercise their hunting, fishing, and gathering rights on federal lands outside of the boundaries of their reservations. Currently, there is little specific information available on the exact animal species hunted, plant species gathered, or locations used by American Indians exercising their treaty rights within the boundaries of the project area.

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2012 Tribal Rights and Interests, in Administrative Draft 3 Environmental Impact Statement, Mountain States Transmission Intertie.

## Terrestrial Wildlife (Non-Federal Listed or Sensitive Species)

### Laws, Regulations, and Policies

Wildlife habitat management on public lands administered by the BLM and FS are directed by the following laws, executive orders, and policies applicable to this document:

- Federal Land Policy and Management Act of 1976
- National Forest Management Act of 1976
- National Environmental Policy Act of 1969
- Fish and Wildlife Coordination Act of 1958
- Water Quality Act of 1987, as amended from the Federal Water Pollution Control Act of 1977
- Public Rangelands Improvements Act of 1978
- Sikes Act of 1974
- Bald Eagle Protection Act of 1940
- Eagle Protection Act of 1962
- Endangered Species Act of 1973
- Migratory Bird Treaty Act of 1918
- Taylor Grazing Act of 1934
- Emergency Wetland Resources Act of 1986
- Fish And Wildlife Conservation Act of 1980
- Streamside Management Zone Law
- Montana Stream Protection Act
- Idaho Stream Channel Protection Act of 1971
- Executive Order 11514, Protection and Enhancement of Environmental Quality
- Executive Order 11988, Floodplain Management
- Executive Order 11990, Protection of Wetlands
- Executive Order 11987, Exotic Organisms
- Executive Order 11989, Off-Road Vehicles
- Executive Order 13186, Migratory Birds
- Interior Department Manual 520 – riparian habitat
- Title 43 Code of Federal Regulations, Part 24—Department of the Interior Fish and Wildlife Policy: State-Federal Relationship
- BLM Manual 1737 – riparian habitat BLM Manual 6500 - wildlife, fish and plant resources
- BLM Manual 6840 – special status species
- Memorandum of Understanding April 2010 – FWS and BLM-migratory bird conservation
- Memorandum of Understanding May 2008 – WAFWA, USFWS, BLM, and USFS—sage grouse conservation
- Memorandum of Understanding May 1986 – Coordination with BLM/Idaho Department of Fish and Game
- Memorandum of Understanding October 1977 – BLM/Coordination with Montana FWP

**Commented [ETR1]:** Brent, see this site for noxious weed laws and policies. Need to address Montana's also.  
<http://www.agri.state.id.us/Categories/PlantsInsects/NoxiousWeeds/Documents/Idaho%20Invasive%20Species%20Strategy%202012-2016.pdf>

- Memorandum of Understanding October 1971 – BLM/Coordination with Montana FWP
- Need MOU with Utah Division of Wildlife Resources if appropriate (FS only)
- Need MOU with Nevada Division of Wildlife(BLM)
- Need other MOUs and policy documents from FS

Commented [ETR2]: Brent, need these items.

### Indicators

Potential impacts to terrestrial and riparian habitat are associated with the following indicators:

- Availability and amount of sagebrush steppe and riparian habitats
- Size, number, and connectivity of sagebrush steppe habitat patches
- Description of the landscape matrix in which patches are imbedded that describe fragmentation
- Anthropogenic disturbances that can be measures as the number, length, or area of the features

### Affected Environment:

The BLM and Forest Service generally manage wildlife habitat, and the state wildlife management agencies manage wildlife populations. These habitats reflect the influence of a variety of past and ongoing human activities and disturbances, resulting in increases in some species populations, declines in others, and the modification of large blocks of habitat. These habitats and the wildlife species that rely on them rarely exist solely on BLM or Forest Service lands, and often extend across administrative boundaries to other federal, state, and private lands.

The BLM and Forest Service administered lands in the Idaho/southwest Montana planning area provide a variety of habitats. Public land ownership ranges from mostly sagebrush habitats in Owyhee County, Idaho, to scattered public lands with intermingled private and state lands composed of sagebrush habitats in southwestern Montana. On public lands, these habitats can be segregated into four major habitats groups: sagebrush steppe, riparian/wetlands, non-native grasslands, and conifer woodlands/forests. These habitats serve as a basis, to the extent practical, for describing existing conditions, and for developing and comparing management alternatives throughout the planning effort.

### Sagebrush Steppe Habitats

Sagebrush steppe habitats in the planning area are found in the Snake River Plain and minor portions in the Wyoming Basins floristic provinces identified by West (1983) and Kuchler (1970).

These sagebrush habitats are the dominant habitat within the planning area. Riparian/wetland habitats, non-native grasslands and conifer/woodland forest habitats are interspersed within and adjacent to sagebrush habitats.

Sagebrush habitats occur from lower elevation (2,500 ft.) drier salt desert shrub communities to mountain shrub communities at 10,100 feet in elevation. Sagebrush habitats support a wide diversity of generalist wildlife species, as well as sagebrush-dependent wildlife species.

At mid to lower elevations, Wyoming big and basin sagebrush are the dominant habitat types that provide important winter habitat for mobile wildlife species such as mule deer, pronghorn, and sage-grouse, and localized yearlong habitat by sagebrush-obligate species such as pygmy rabbit. Much of the basin big sagebrush habitats are limited to deeper soils near ephemeral drainages. Intermingled occurrences of basin big sagebrush, mountain big sagebrush, tall three-tip sagebrush, and several low sagebrush's such as low (little) and black sagebrush add to the diversity of vegetation and habitat structure. At higher elevations, moist mountain big sagebrush communities provide elk calving and sage-grouse brood-rearing habitat along with dispersed spring, summer and fall habitat for numerous other species, often in association with conifer woodland/forested habitat. Mixed sagebrush communities and localized dominance by other sagebrush species on specific sites within the broader sagebrush types often support uniquely dependent wildlife uses, such as pygmy rabbits.

Many sagebrush steppe habitats have been modified or disturbed throughout the planning area during the past 150 years; therefore the species dependent upon them have usually been negatively affected. Primary factors causing change in sagebrush steppe habitats are wildfire and changes in fire regimes, invasive species, anthropogenic development, and livestock grazing (Miller et al. 2011, Knick et al. 2011). Wildfire and changes in fire regimes effects xeric sagebrush steppe and is highly influenced by the spread of invasive species, especially exotic annual grasses such as cheatgrass or medusahead. In these lower elevation habitats, fire return intervals are greatly shortened and prevent the reestablishment of sagebrush. Large areas of the Snake River Plain in southern Idaho have undergone these habitat changes, thus making habitats less suitable for wildlife.

Past management activities that reduce sagebrush habitats include herbicide application, plowing, or other techniques followed by seeding of non-native perennial grasses. These land treatments or burned areas following wildfire have historically been seeded to highly competitive introduced species such as crested wheatgrass, desert wheatgrass, and Siberian wheatgrass. The characteristics that made these introduced species effective for seeding establishment also created communities dominated by near monocultures, which resulted in

poor quality habitats for wildlife lacking sagebrush or forbs (Pyke 2011). Recent policies have encouraged native seed mixes but many times native seed supplies are limited or not affordable in current budgets. Seed in some seed mixes used in these treatments may have been selected for other wildlife species and not specifically for sage-grouse (Knick et al. 2011).

In higher elevations of sagebrush steppe, conifer woodlands/forests have encroached into sagebrush habitats. Miller and Rose (1999) identified that the encroachment of conifer woodlands/forests was the result of longer fire return intervals that permitted woodland expansion to occur into sagebrush steppe. Conifers greater than 50 years old on productive sites and greater than 90 years on nonproductive sites results in reduced fire frequency, permitting the establishment of conifers on the site (Burkhardt and Tisdale 1976, Bunting 1984, Miller and Rose 1999). A number of studies identified a widespread decline in fires at the sagebrush/conifer interface with the coincidence of large numbers of livestock in the late 1800s (Miller and Rose 1999, Heyerdahl et al. 2006, Swetnam et al. 2001). These large numbers of cattle may have reduced the current year's fuel loads and changed the structure and abundance of fuels, thus reducing the frequency of wildfires (Miller et al. 2011). Increased tree dominance by conifers results in a decline of cover by sagebrush and other shrubs.

Anthropogenic development has reduced the amount and quality of sagebrush steppe habitat across the much of the planning area. Much of the activities have occurred on private lands but infrastructure to support urbanization and agriculture along the Snake River Plain and other waterways has occurred on public lands. Many of these types of facilities or uses include railroads, roads, power lines, pipelines, irrigation canals, communication towers, military training, and off-highway vehicle use (Knick et al. 2011).

Livestock grazing is the most widespread land use across sagebrush steppe habitats from the 1880's to present. Livestock numbers and use of these habitats was greatest from the late 1880's through the 1930's. During this period the greatest change occurred to these habitats as a result of heavy livestock use and drought that resulted in loss of soil and depleted native vegetation communities that greatly impacted these habitats (Knick et al. 2011). From the 1940's until the 1980's, plowing, herbicides, and burning followed by seeding non-native perennial grasses to increase forage for livestock production occurred, thus impacting many sagebrush habitats in southern Idaho.

### **Riparian/Wetland Habitats**

Riparian habitats are regarded as one of the most important habitats for wildlife due the availability of water and the structural diversity of the vegetation communities. Approximately

75 percent of all wildlife species utilize riparian habitats for at least some portion of their annual life cycle (EPA 1990). Riparian habitats are estimated to make up approximately one percent of all habitats in the planning area. The riparian habitats in the planning area are composed of lotic systems that are associated with running water or lentic/wetland habitats associated with standing water.

Riparian habitats in the planning area have been subject to many activities that have affected their functionality and their ability to support wildlife. These activities include dewatering for irrigation, domestic cattle grazing, road construction, dam construction, and land treatments. The impacts from these activities include changes in plant species composition and structure, vegetative cover, sedimentation, changes in water quality and temperature, streambank alteration, and duration of available water.

Currently XX percent of riparian habitats are in proper functioning condition (See Vegetation section). Wildlife habitat values are degraded on riparian habitats with functional-at-risk or nonfunctional conditions.

**Big Game**

The planning area hosts a wide variety of big game species including mule deer, pronghorn, and elk that use habitats associated with sagebrush steppe and riparian habitats. Other big game species that are found in these habitats but in lesser amounts include bighorn sheep, moose, and white-tailed deer. Table XXX identifies the approximate number of acres of big game habitat by species in the planning area. The planning area provides habitat for all seasonal use periods for mule deer, pronghorn, elk, bighorn sheep, and other species. These species are generally widespread across the entire planning area.

Table XXX Big Game Habitat

Species	On All Lands Within the Planning Area (acres)	On BLM and FS Administered Lands in the Planning Area (acres)
Mule Deer		
Pronghorn		
Elk		
Bighorn Sheep		

Commented [ETR3]: Need GIS data to complete table.

Mule deer are the most abundant and widely distributed big game animal. Mule deer populations and mule deer habitat have changed greatly during the past 100 years. Loss of steppe habitats, conversion of native landscapes to agriculture or residential development, and



past and current grazing management are key management issues for mule deer populations throughout the planning area (Cox et al. 2009).

Within the planning area mule deer populations vary greatly from current population objectives. In southeast Idaho populations have undergone declines following the winters of 1992-1993 and have been slow to respond to changes in management activities (IDFG 2011a). This has resulted in Idaho Department of Fish and Game developing an initiative to target this area of the state to modify management strategies and improve habitat conditions for mule deer. In other portions of the planning area, including south-central Idaho and southwest Montana, populations appear to be stable or increasing but are below levels observed in the late 1980s and early 1990s (IDFG 2011a).

Mule deer are primarily browsers and their diet is composed mostly of leaves and twigs of shrubs, especially during the winter. Grasses and forbs are also crucial components of their diet in the spring and summer. The quality and quantity of nutritious forage in spring (April-July) has major implications on the production and survival of fawns. Summer-fall ranges are important because this is where deer produce fat reserves that will allow survival through winter. The quality of summer-fall forage also directly influences pregnancy and ovulation rates and, therefore, fawn production. Much of Idaho's historic mule deer winter range has been developed for other uses and is now occupied by man. Residential, commercial, and industrial developments located in the foothills and at lower elevations have eliminated winter range (IDFG 2011a).

Pronghorn distribution has changed relatively little since the early 1980's but numbers have trended downward since the winters of 1993-1994 (IDFG 2011b). Pronghorn are typically associated with sagebrush habitats, but readily use grasslands if there are adequate amounts of forbs (Yoakum 2004a). In sagebrush habitats, pronghorn diets consist of sagebrush and other shrubs during all seasons, but particularly in the fall and winter (Yoakum 2004a). Forbs are preferred by pronghorn when available (Yoakum 2004b). The availability of forbs in sagebrush habitats may have important implications for pronghorn because they are rich in nutritional values required for reproduction (Pyrah 1987, Yoakum, 2004b). Large landscape level fires have reduced the availability of sagebrush in parts of their range. In portions of the planning area extensive fencing has contributed to the inability of some populations to access otherwise suitable habitats. Noxious weeds, livestock grazing, and drought has also impacted current pronghorn populations and their habitat.

Elk are found throughout the planning area in sagebrush steppe and associated conifer/forested woodlands. Elk are considered generalists and are not totally dependent upon

sagebrush steppe, but they do require food, water, and where hunted, hiding cover and security areas. The combination of the resources determines the distribution and number of elk within sagebrush steppe. Elk populations in the planning area are generally at or above state wildlife management agencies objectives (IDFG 2011c).

Other big game species, such as moose, bighorn sheep, and white-tailed deer are also found in the planning area. Moose and white-tailed deer are generally associated with riparian/wetland habitats. Bighorn sheep usually are found near escape terrain composed of steep rugged slopes and make use of sagebrush steppe year round in southwest Idaho. In east central Idaho and southwest Montana bighorn sheep generally make use of sagebrush steppe near escape terrain during the winter and spring.

#### **Migratory Birds**

There are at least XXX species of migratory birds that occur on the planning area during part of the year, including over 40 species of greatest conservation need in Idaho (IDFG 2005). These birds are as diverse as the Calliope hummingbird, green-tailed towhee, Brewer's sparrow, ferruginous hawk, mallard, and sandhill crane. Most of these birds are summer residents that use habitats ranging from low elevation wetlands to high elevation forests for breeding and raising young. Some species such as American robin and mallard are migratory, but small populations may be present yearlong depending on seasonal conditions. Winter residents such as the rough-legged hawk, snow buntings, and rosy-crowned gray finches arrive from arctic breeding grounds, or high elevation alpine areas to utilize winter habitats in sagebrush steppe, seasonally replacing summer residents.

The 1988 amendment to the Fish and Wildlife Conservation Act mandates the U.S. Fish and Wildlife Service to "identify species, sub species, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become candidates for listing under the Endangered Species Act of 1973." Birds of Conservation Concern 2008 (USDI-FWS 2008) is the most recent effort to carry out that mandate and identifies those species in greatest need of conservation action in specific geographic bird conservation regions (BCR). The planning area overlaps three bird conservation regions. These regions include the Great Basin, Northern Rockies, and a very small portion of the Southern Rockies/Colorado Plateau. The list of species likely to occur in sagebrush steppe and riparian/wetlands of this planning area for these three conservation regions can be found in Appendix XXX. This mandate was emphasized with the issuance of Executive Order 13186 directing federal land management agencies to develop cooperative plans to protect and manage habitat for all migratory birds. Expansion of funding opportunities under the North American Wetlands Conservation Act and other

partnership opportunities through the North American Bird Conservation Initiative will support increased management consideration for these species.

#### **Furbearers/Upland Game/Non-Game**

A large variety of other wildlife species occur within the planning area that utilize both sagebrush steppe, riparian/wetland habitats, and non-native grasslands and conifer woodland/forests habitats within and adjacent to sagebrush steppe. Furbearers commonly found in these habitats include red fox, bobcat, muskrat, beaver, and mink. River otter may be present but generally in low numbers as they are generally associated with larger river riparian systems. Cottontail and pygmy rabbits are found throughout the planning area and their numbers are variable as populations are cyclic. Pygmy rabbits, a species of greatest conservation need in Idaho, are found in big sagebrush habitats with relatively deep, loose soils that provide food and shelter. Upland game birds common or locally abundant in the planning area include Columbian sharp-tailed grouse, chuckar, gray partridge, California quail, dusky (blue) grouse, and ruffed grouse.

Many other species of non-game wildlife have limited information on their distribution or life history requirements. Information on these species is maintained by the Idaho, Montana, Utah, and Nevada Natural History Programs within each state. Site specific inventories have not been made for many of the species but information about species distribution and relative abundance continues to be modified as funding becomes available. Appendix XXX identifies wildlife species likely to occur in sagebrush steppe and riparian/wetland habitats in the planning area.

#### **Amphibians/Reptiles**

Amphibians have been recognized as important indicators of ecosystem health as many populations are declining in the western United States. Amphibians are generally found near some form of water. There are 8 species of salamanders, frogs, and toads found in the planning area including three species of greatest conservation need in Idaho (IDFG 2005). Appendix XXX identifies the species that are likely to occur in or adjacent to sagebrush habitats and riparian/wetland habitats.

There are 16 species of reptiles occurring in sagebrush habitats and riparian/wetland habitat in the planning area. These include seven lizards, one turtle, and eight species of snakes. The sagebrush lizard and short-horned lizard are two of the most common species associated with sagebrush habitats. Two snake and two reptile species found in the planning area are species of greatest conservation need in Idaho (IDFG 2005). Appendix XXX identifies the species that are likely to occur in or adjacent to sagebrush habitats.

## **Insects**

Insect occurrence and distribution are not generally specifically considered in land management activities. Three species of insects that are identified as sensitive species due to their limited distribution occur in or immediately adjacent to sagebrush habitats. These species include Idaho pointheaded grasshopper, St. Anthony Sand Dunes tiger beetle, and Bruneau Dunes tiger beetle. See Sensitive Species section.

Insects provide important food sources for many species of wildlife including adult and juvenile sage-grouse. Although there are thousands of species of insects occurring in sagebrush and riparian/wetland habitats, species in the *Scarabaeidae* and *Tenebrionidae* (beetle) families, *Formicidae* (thatch ants) family, and *Orthoptera* (grasshopper) family play a crucial role in the diet of many wildlife species (including sage-grouse) as a high protein food source (Klebenow and Gray 1968, Peterson 1970, Johnson and Boyce 1990, Pyle 1993, Fischer 1994, Drut et al. 1994).

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## LIVESTOCK GRAZING

The foremost authority that provides for grazing of public lands administered by the BLM is the “Taylor Grazing Act” (TGA) which was passed on June 28, 1934, to protect public rangelands and their resources from degradation, to provide for orderly use to improve and develop public rangelands, and to stabilize the livestock industry. Following various homestead acts, the TGA established a system for allotting grazing privileges. The Federal Land Management Policy Act (FLPMA, 1976) and the Public Rangeland Improvement Act (PRIA 1978) also provide authority for managing grazing on public rangelands managed by the Bureau of Land Management. BLM grazing administration exclusive of Alaska is governed by 43 Code of Federal Regulations (CFR) subpart 4100.

Authority to regulate grazing and issue permits on “forest reserves” was authorized by Congress as early as 1897 with the passage of the Organic Administration Act. With the establishment of the U.S. Forest service in 1905, authority to protect, manage, and administer grazing of lands administered by the agency is provided for in the Granger-Thye Act of 1950, which authorizes the Forest Service to issue grazing permits and use grazing receipts for range improvements and provides direction on establishment of local grazing advisory boards and other purposes. The Multiple Use-Sustained Yield Act of 1960 and Federal Land Policy and Management Act of 1976 establish the policy and purpose of the National Forests to provide for multiple-use and sustained yield of products and services including the regulation of grazing fees and permits. The Forest Rangeland Renewable Resources and Planning Act of 1974 and the National Forest Management act of 1976 authorize long-range planning to ensure the future supply of forest resources, and the availability of lands and their suitability for resource management. The Public Rangelands Improvement Act of 1978 defines the current grazing fee formula and establishes rangeland monitoring and inventory procedures. Forest Service grazing administration is primarily governed by 36 CFR Part 222, Subpart A.

The BLM grazing administration regulations were revised in 1995 to include Fundamentals of Rangeland Health and Standards and Guidelines for Grazing Administration (43 CFR § 4180). In accordance with 43 CFR § 4180.2, both the Idaho Standards for Rangeland Health and Guidelines for Livestock Grazing Management, and the Standards for Rangeland Health and Guidelines for Livestock Grazing Management for Public Lands Administered by the Bureau of Land Management for Montana and the Dakotas were placed in effect on August 12, 1997 (Appendix XX) and subsequently apply to grazed BLM lands in the planning area. Standards are integrated into the BLM’s land management through incorporation into land use plans, as a basis for environmental assessments and through NEPA analysis, and as a basis for monitoring. Guidelines are integrated into land management by incorporating them into livestock grazing authorizations and management practices. The standards and guidelines provide a clear statement of agency policy and direction for those who use public lands for livestock grazing and for those who are responsible for their management and accountable for their conditions. In accordance with 43 CFR part 4180, if it is determined that grazing management practices or levels of grazing are significant factors in failing to achieve the standards and conform with the guidelines, appropriate action shall be taken prior to the next grazing season to make progress towards Standards and conform to the Guidelines.

3.2.1 Indicators

The indicator for rangelands and livestock grazing are:

- Change in acres available for grazing;
- Change in AUMs permitted on allotments; and
- Types of livestock authorized on allotments.
- Acres or allotments meeting or making progress towards meeting Rangeland Health Standards (BLM lands)
- Allotments managed under current grazing decisions/NEPA review less than 10 years old

Existing Conditions

On BLM lands, a grazing permit is the document which authorizes livestock grazing use of the public lands within an established grazing district, whereas a grazing lease is the document which authorizes livestock grazing use of public lands outside an established grazing district (43 CFR § 4100.0-5). The kind and number of livestock, the period of use (seasonal), the allotment to be used, and the amount of use in animal unit months (AUMs) are mandatory terms and conditions of every grazing permit or lease (43 CFR § 4130.3). An AUM is the amount of forage necessary for the sustenance of one cow or its equivalent for one month and an allotment is an area of land designated and managed for grazing of livestock (43 CFR § 4100.0-5). The BLM manages livestock grazing on 2,750 allotments comprising approximately 12,385,137 acres on BLM-managed land in the planning area (see Figure 19 3-X, Grazing Allotments).

Grazing on USFS lands is permitted through term grazing permits that authorize grazing on National Forest System lands. The holding of such permits is a privilege, not a property right and permit holders may not assign or transfer grazing privileges in whole or part (36 CFR § Subpart A 222.1-4). The term grazing permit authorizes the number, kind, and class of livestock as well as the period of use and grazing allotment on which livestock are permitted to graze. There are XX allotments comprising XX acres on USFS-managed land in the planning area (see Figure 19 3-X, Grazing Allotments).

Table 3-X, Idaho/Southwest Montana Subregion Planning Area – Allotments, provide information on the allotments managed in the planning area. Of the XX allotments managed in the planning area, XX contain preliminary general habitat, preliminary priority sage grouse habitat or both.

District or Forest	Allotments	Acres (public land Acres?)	Active AUMs	Non Habitat	PGH	PPH
BLM Boise District						
BLM Idaho Falls District						
BLM Twin						

**Commented [KMW1]:** Should there be an indicator associated with range improvements needed to manage livestock?

I don't fully understand the indicators listed and how these will be used to describe the current condition and effects of the alt.

**Commented [KMW2]:** Include temporary suspended AUMs?



Falls District						
USFS -						
TOTAL						

Facilities for livestock management on public lands in the planning area occur at varying densities based upon management needs, land ownership patterns and other factors. These facilities include, but are not limited to fences, cattleguards, corrals, pipelines, water troughs, wells and reservoirs. Fences are used to delineate allotment boundaries, pastures within allotments, land ownerships, and to exclude the impact of ungulate grazing from certain resources. Corrals are smaller fenced areas that are occasionally located on public lands for the purposes of gathering, sorting and handling livestock. Watering facilities are used to improve livestock distribution in areas where naturally occurring surface water is not available, and to reduce livestock use of naturally occurring springs and streams. In addition, supplemental salt, mineral and protein may be provided for livestock grazing on public lands.

As of 2012, an assessment of rangeland health standards and guidelines has been made on 2,219 BLM allotments comprising 9,978,899 acres within the planning area. Of the allotments which have been assessed; 1,403 allotments comprising 3,509,733 acres are meeting all applicable standards and guidelines. An additional 451 allotments comprising 4,581,851 acres are not achieving one or more of the applicable standards and guidelines due to livestock grazing management, but management actions have been implemented to correct the identified issues. On 61 allotments comprising 660,901 acres, standards are not being achieved due to livestock management, but management actions have not yet been taken to make progress towards meeting standards. On 293 allotments comprising 1,226,179 acres, one or more applicable standards was not met due to factors other than livestock management. Standards and guidelines assessments have not been completed on 528 allotments comprising 2,406,238 acres within the planning area.

Evaluation of the Standard and Guidelines have been completed on 2,219 BLM Allotments comprising 9,978,899 acres. Following is a breakdown of the attainment of the standards by number of allotments.

Standard	# of Allotments			
	Meeting	Not-meeting (Not livestock)	Not-meeting due to livestock	Not Present (N/A)
1	1,403	293	512	0
2	800 (?)	50?	500	869
3	300	50	150	
4				
5				
6				
7				
8				

(Disclaimer: a portion or all of a specific standard above may not be meeting, however for this analysis if a portion of the standard recorded as not being met in the evaluation, then the entire allotment was noted as not being met in the table above.)

- Actions have been taken on # allotments not meeting due to livestock

**Commented [KMW3]:** Are we planning on putting in a table that identifies the estimated miles of wire fences, there condition? Let-down fences vs. permanent fences (this could change the effects analysis, because if it is a let-down fence in winter habitat, then there would be minimal effect to SG vs a permanent fence). I would think we wouldn't want to include wood or steel rail fences. Number of wells and associated pipelines, developed springs with pipeline/trough and of those how many are currently floated vs overflow systems. A good description of the current environment/situation of the existing range improvements here will make it easy to identify effects... (ex. How many miles of fence are high collision hazard, moderate (letdown), low (wood rail). How many miles may need to be modified to reduce collision haz.

**Commented [KMW4]:** If we are talking about the standards, then somewhere all of the standards should be described/identified (in the appendix?)

I think its important to remember that the standards apply to the resource and that there are numerous activities that could be causing them to not be met. I think the following sections in the affected environment should touch on their applicable standard: Vegetation section = standard 1,4,5,6; water resources = standards 3,7,2?.

**Commented [KMW5]:** I'm trying to figure out how the acre figures were reached? If 1,000 acre allotment was not meeting one of the standards, did the entire 1,000 acres fall into not meeting? I could see this rational for Standards 1 (watershed), 4 (Native plant communities), possibly 8 (T&E); however if the 1,000 acre allotment is not meeting a standard related to water (standard 2,3,7) I don't think we want to say 1,000 acres is not meeting when we claim those not meeting units in miles of stream or if we did claim acres of riparian not meeting it would be significantly smaller than the 1,000 acres allotment. If standard 5 (seedings) is not meeting, then we should only equate the acres to the seeding not the entire allotment.

Possibly it would be better to get away from acres and discuss # of standards being met across the assessed allotments. See example

If we continue to want to quantify the amount of area not meeting the standard, then I think we would have to identify total miles of stream, acres of riparian, acres of seedings, acres of exotic plant communities, acres of native plant communities. The only standard that would apply to the total acres assessed (9,978,899) would be standard 1 watersheds.

**Commented [KMW6]:** Under this structure, the acres or miles of streams not meeting or meeting could be described under the resource to which the standard applies. (# of miles not meeting standard would be described in the water resource section).

- 528 allotments comprising 2,406,238 acres within the planning area has not had S&G evaluations completed.

**Acronyms**

AUM - Animal Unit Month

BLM - Bureau of Land Management

CFR - Code of Federal Regulations

FLPMA - Federal Land Policy and Management Act of 1976

GTA – Granger-Thye Act of 1950

NEPA - National Environmental Policy Act of 1969

PGH - preliminary general habitat

NFMA – National Forest Management Act of 1976

PL - Public Law

PPH - preliminary priority habitat

PRIA - Public Rangelands Improvement Act of 1978

TGA - Taylor Grazing Act of 1934

## CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS

### **3.2 Energy and Minerals**

The BLM reviewed the LUPs being amended under this RMPA/EIS and other relevant information sources (such as LUP amendments, maps and state Greater Sage-Grouse conservation assessments) for existing conditions and trends in Minerals-related activities with respect to Greater Sage-Grouse and their habitat. The Affected Environment is discussed in terms of indicators, existing conditions, and trends, and is summarized in the following section as it relates to Minerals.

#### **3.2.1 Indicators**

Indicators are factors that help focus the description of the existing conditions on specific characteristics relevant to establishing context for evaluating impacts and for addressing the issue statements raised during scoping. Indicators for evaluating impacts from mineral-related activities on sage grouse habitat in the planning area are:

- The number of mineral operations currently authorized in sage grouse habitat;
- The size of mineral operations in sage grouse habitat;
- The types of uses and intensity of uses associated with mineral exploration and development;
- The restrictions that can be placed on locating, leasing, and/or purchasing various mineral commodities that occur on public lands in the planning area;
- The amount of land made unavailable for mineral resource exploration and development;
- The potential for the occurrence of mineral exploration and development on the lands.

#### **3.2.2 Existing Conditions**

##### ***Fluid Leasable Minerals***

The right to drill for and develop fluid minerals, namely oil and gas and geothermal resources, on Federal land may only be acquired through a mineral lease, offered and administered by the BLM in accordance with the Mineral Leasing Act of 1920, as amended and supplemented (30 U.S.C. 181 *et seq.*). An oil and gas lease can be up to 2560 acres in size, while a geothermal lease can be up to 5280 acres in size. Both types of leases are issued for an initial 10-year term, which is renewable if the lease is developed diligently. The BLM can modify the right conveyed by a lease by attaching a stipulation, which is an enforceable condition of the lease. During the leasing process, BLM may apply stipulations (for example No Surface Occupancy, Controlled Surface Use, and Timing Limitations) to all or parts of a lease in order to protect a wide range of resources including soils, watersheds, cultural resources, and wildlife (e.g., sage grouse).

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Stipulations may impact the availability of fluid mineral resources on a lease by restricting the timing and/or location of exploration and development activities.

The issuance of a lease does not, in and of itself, authorize any surface disturbing activities. If a lessee wishes to conduct exploratory drilling, an application for permit to drill (APD) must be submitted to BLM. An environmental analysis is conducted and as a result, BLM may attach additional, site-specific and activity-specific conditions, called Conditions of Approval or Best Management Practices, to the drilling permit. BLM cannot deny operations on a lease unless the operation would violate other nondiscretionary statutes, such as the Endangered Species Act (ESA) or the Clean Water Act. In cases where surface operations would have unacceptable environmental impacts, BLM's authority to deny operations on the lease, if not specified in a particular statute, must be established in the lease through the use of lease stipulations.

All leases, regardless of whether they have additional stipulations, are offered with standard terms and conditions. In accordance with a 2002 Instruction Memorandum from the BLM Washington Office, all fluid mineral leases must include the following stipulation:

#### **Endangered Species Act Section 7 Consultation Stipulation**

The lease area may now or hereafter contain plants, animals or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. 1531 et seq., including completion of any required procedure for conference or consultation.

All geothermal and oil and gas leases in Idaho contain the ESA consultation stipulation. There is also a mandatory cultural resource protection stipulation applied to all leases.

Stipulations to protect other resources, such as sage grouse, are developed during the land use planning process. Stipulations must be necessary and justifiable: If a lessee is to be prevented from extracting oil and gas on a lease and the prohibition is not mandated by a specific, nondiscretionary statute such as the ESA, the stipulation is necessary and is to be used. A stipulation is justifiable if there are resource values, uses, and/or users present that cannot coexist with fluid mineral operations, cannot be adequately managed and/or accommodated on other lands for the duration of operations, and provide a greater benefit to the public than that of the fluid mineral operations. If a ground disturbing activity is proposed on the lease during any given year, the authorized officer may modify or waive restrictions if actual conditions do not warrant them.

## **CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

### **Conditions of the Planning Area**

#### **Oil and Gas-**

There has never been a single producing oil and gas well in the entire state of Idaho, despite the drilling of over 150 wildcat wells in the state since the early 1900's. As of January 18, 2013, Idaho BLM has four Federal O&G leases- two are located on split estate and BLM lands on the Bear Lake Plateau, and two are located on split estate lands near Gray's Lake in Bonneville County. The leases were issued in 2006 for an initial term of 10 years. No drilling or exploration has occurred on any of the leases nor has any activity been proposed, however a wildcat well was drilled on private land near the Gray's Lake leases in 2007. The well was drilled to approximately 11,000 feet without encountering an economically viable hydrocarbon source. Additionally, a company has drilled numerous wells on private lands in the New Plymouth area of southwest Idaho, and is planning to develop a natural gas field. BLM-administered lands are located near this field and have been nominated for leasing, however leasing is being deferred until completion of the Four Rivers RMP. There is no sage grouse habitat in this area.

The two leases on the Bear Lake Plateau are located in sage grouse habitat and each have the following stipulation (as well as several others not directly related to sage grouse):

In order to protect important seasonal wildlife habitat (sage grouse leks, sage grouse brood rearing, sage grouse winter range, and deer winter range), exploration drilling and other development activity will be allowed only during the period from 7/1 to 11/30. This limitation does not apply to maintenance and operation of producing wells. Exceptions to this limitation in any year may be specifically authorized in writing by the Authorized Officer of the BLM.

The Dillon FO has 63 active oil and gas leases, none of which are producing, according to the Dillon RMP. None of the leases appear to be located in sage grouse habitat, however many leases likely contain timing limitations for other wildlife species, as the Dillon RMP (Map 21) shows that much of the field office is covered by stipulations restricting activities during critical seasons for other wildlife species or prohibiting all surface occupancy.

#### **Geothermal-**

Idaho's prospects for development of geothermal resources are better than those for oil and gas. There are currently 25 Federal leases in Idaho, covering approximately 60,000 acres. Leases are scattered across southern Idaho, but are primarily located near Raft River, Crane Creek, and Parma, Idaho. There are no active leases currently in the Dillon FO. Seventeen of Idaho's 25 geothermal leases are located in sage grouse habitat, and all have existing stipulations protecting sage grouse habitat during critical seasons (as well as having stipulations to protect crucial habitat for other species):

### **CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

- Each of the nine leases at Raft River have a stipulation restricting exploration and development work in sage grouse strutting/brood-rearing habitat from April 1 through June 15.
- Each of the four leases at Crane Creek contain a stipulation requiring that a survey be conducted for the presence of active sage grouse leks in key habitat, prior to authorization of surface disturbing activities. If active leks are present (defined as being used at least once in a 5-year period), two stipulations will apply. One is a timing limitation precluding exploration or drilling activities between March 15 and May 1 from 6 pm to 9 am within two miles of an active lek. The other stipulation precludes construction of wells, geothermal plants, powerlines, pipelines, or other such permanent structures that would fragment or degrade nesting habitat within two miles of an active lek.
- Both of the geothermal leases located west of Weiser have the following stipulations:
  1. Controlled surface and timing limitation use near sage-grouse leks and/or nesting/early brood rearing habitat: Potentially disruptive major construction and maintenance activities (e.g., infrastructure/energy development and similar projects), shall be avoided within 6.4 km (~ 4 miles) of occupied or undetermined status sage grouse leks from February 15 to June 30 to reduce disturbance to lekking birds, or April 15 to June 30 for nesting grouse (and/or hens with early broods). Major construction and maintenance activity will be avoided in sage grouse winter range from December 1 to February 15. Specific dates may be earlier or later, depending on local breeding chronology. The spatial buffer may be increased or decreased based on site-specific factors analyzed and documented in an EA or EIS and authorized via the appropriate Decision document. Exceptions may be granted for activities involving only infrequent, short term disturbance (less than 1 hour within a 24-hour period in a specific area); or if there are intervening topographic features or line-of-site screening that buffer the lek or nesting habitat from disturbance; or if recent (within the past 5 years) site-specific studies or local expertise suggest that leks or nesting hens are unlikely to be present within the 6.4 km zone surrounding the project activity.
  2. For smaller-scale human disturbances, (e.g., water pipeline construction, routing fence maintenance, facility maintenance, etc., of a minor nature), a 1.0 km (0.62 mile) lek disturbance buffer will apply between approximately March 15- May 1 in lower elevations and March 25 through May 15 in higher elevations, from 6:00 pm to 9:00 a.m. in a specific area to minimize disturbance to lekking grouse.
- The two geothermal leases located on the north side of Magic Reservoir have the same stipulations (concerning sage grouse) as the leases west of Weiser.

Geothermal exploration and development activity on Federal lands in Idaho has been sporadic, due largely to economic factors. Idaho now has one 10 mW geothermal power plant currently operating, as of 2007. It is located on private land at Raft River, south of Burley, Idaho. Nine Federal leases surround the plant and extend up the southeast flank of Jim Sage Mountain. BLM

**CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

approved 5 geothermal drilling permits on a lease at Raft River in 2010, however to date no drilling has occurred. The drilling permits have several Conditions of Approval attached to protect wildlife. These include fencing reserve pits and safeguarding migratory birds from hazards associated with pits and treatment facilities, including but not limited to pit screening or netting, and placing protective cones over vent stacks. In addition, drilling is prohibited during the sage grouse strutting and brood-rearing season (lease stipulation).

***Mineral Materials***

Mineral materials include sand, gravel, most building and landscaping stone, pumice and other common variety materials that are not subject to mineral leasing or location under the mining laws. The Materials Act of 1947, as amended (61 Stat. 681) authorizes disposal of mineral materials on public lands through a sales system, and provides for free use of material by government agencies, municipalities or non-profit organizations, if the material is not to be used for commercial purposes. Permitting the removal or extraction (i.e. disposal) of mineral materials on public lands is a discretionary activity. BLM will not authorize the disposal of mineral materials if it is determined that the aggregate damage to public lands and resources would exceed the public benefits that BLM expects from the proposed disposal; nor will BLM dispose of mineral materials from areas identified in land use plans as not appropriate for mineral materials disposal (43 CFR 3601.11 and 3601.12).

**Condition of the Planning Area**

Most public land in Idaho is available for consideration of mineral material disposal, however existing guidance in many of the LUPs in the planning area encourages the use of existing disposal sites until the material is depleted. Within the planning area there are the following numbers of mineral material disposal cases (as of January 18, 2013):

**EXISTING MINERAL MATERIALS CASES AS OF 1-18-2013**

Field Office	# Comm. Pits	# FUPs	# Negotiated Sales	Total # sites in SG Hab.
Owyhee	9 (all in SG. 4 CPs closing)	13	2	Assume all in SG
Bruneau	5 (all in SG)	10	2	Assume all in SG
Four Rivers	6 (2 in SG)	43	4	
Burley	12 (7 in SG)	31	2	
Shoshone	17 (9 in SG)	22	0	
Jarbidge	9 (4 in SG)	25	0	
Pocatello	4 (2 in SG)	19	0	
Challis	20 (~20 in SG)	51	5	Assume all in SG
Salmon	6 (6 in SG)	11	2	Assume all in SG
Dillon, MT.	4 (2 in SG)	0	1	
<b>TOTAL</b>	<b>88 (64 in SG)</b>	<b>225</b>	<b>17</b>	

## **CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

Community pits are sites established by BLM for the public to acquire mineral materials by purchasing a short-term permit over-the-counter at the field office. Free Use Permits are usually sand and gravel pits, and are requested by county highway districts and non-profit organizations for road construction and maintenance of county roads. A negotiated sale is an exclusive site proposed by a single party, often commercial, as the party must now pay for BLM to process the permit.

The number of sales out of a community pit varies by site, from less than one to more than 50 per year. Many of the most popular community pits are for landscaping rock and building stone that is simply picked up by hand from the ground surface or from a talus slope. Most of these sales are for less than one ton. Most Free Use Permit sites are used sporadically and may be scattered throughout a field office, so that when the county needs material it has a nearby source, thereby reducing haul costs. A pit may be inactive for several years before it is needed for a road project in the area.

A gravel pit is initially developed by scraping off the vegetation and topsoil, which is then stockpiled for future reclamation. Most gravel pits are 5 to 15 acres in size. No infrastructure other than an access road is needed for mineral materials disposals. Most mineral material removal activity occurs during the summer months and during daylight hours.

Very few mineral material sites have mitigation measures protecting sage grouse habitat. One exception is the St. Anthony Sand Dune Community Pit, which has a provision stating "Proposals to remove sand between March 1st and June 15th will be evaluated to determine if breeding birds are utilizing the area."

### ***Locatable Minerals***

Under the General Mining Law of 1872 (17 Stat. 91), any U.S. citizen may stake a mining claim for locatable minerals on open, available Federal lands, giving the claimant a possessory right to develop the locatable mineral resource. The staking of a mining claim is a non-discretionary activity: As long as the lands are open to locatable mineral entry, and as long as the claimant maintains the mining claim on an annual basis in accordance with regulations at 43 CFR Parts 3830 through 3838, the mining claim is considered active. If the claimant fails to properly locate or maintain the claim on an annual basis, the claim is forfeited. BLM's role is limited to recording and adjudicating the location notices and maintenance filings, and preventing undue or unnecessary degradation of the lands under FLPMA.

If a claimant wants to perform mining operations other than casual use on BLM-administered lands, a Notice of Plan, filed under 43 CFR 3809, must be filed with the BLM (or 43 CFR 3802, if the claim is located on lands under wilderness review. USFS has different minerals management regulations, under 36 CFR 228). The purpose of these regulations is to prevent unnecessary or undue degradation of public lands by operations authorized by the mining laws. The subparts establish procedures and standards to ensure that operators and mining claimants meet their obligation to prevent undue or unnecessary degradation and to reclaim disturbed areas.



### CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS

#### Condition of the Planning Area

The existing land use plans identify areas that are closed to mineral entry but are silent on mitigation measures to be taken in sage grouse habitat.

As of 12-14-2012, the following numbers of 3809 Plans and Notices were authorized or pending-

District	3809 Plans of Operations		3809 Notices		Sage Grouse Habitat?
	Authorized	Pending	Authorized	Pending	
Boise District	13	3	17	4	8 Plans in PH
Twin Falls	4	5	5	4	7 Plans in PH
Idaho Falls	5	1	6	3	4 Plans in PH
Dillon FO	5	1	21	3	No Plans in SG Hab.
TOTAL	32	9	28	11	19 Plans in SG Habitat

The Boise District currently has eight 3809 Plans in sage grouse habitat, mostly small operations for zeolite and bentonite along the Owyhee Front. Three of the Plans are located in the Castle Creek drainage south of Oreana (zeolite, bentonite); two Plans are located close to the Oregon border near U.S. Highway 95 (both for zeolite); and two Plans on the Owyhee Plateau near the Upper Deep Creek area.

The Twin Falls District currently has seven 3809 Plans in sage grouse habitat. Six are building stone operations south of Oakley, and one is the Eskridge pumice pit north of Magic Reservoir. At least three companies operate quarries on Middle Mountain south of Oakley, extracting a variety of micaceous quartzite called Oakley Stone. Oakley Stone is highly prized as a building and flooring material, as it has very high tensile strength and can be split into large, thin sheets. Building stone quarry operations have been active on Middle Mountain for over sixty years in the vicinity of active sage grouse leks. The operations are confined to discrete quarries located at mid-elevation on the west slope of Middle Mountain. The quarries expand very slowly over the years, and no infrastructure such as powerlines or pipelines, etc., are required. Very little mechanical equipment is used, as the stone is split to the desired thickness using only small hand tools such as pry bars, hammers and chisels, and is then placed on pallets by hand. Light blasting is used occasionally, with very little disturbance, as heavier blasting would destroy the stone. Most of the quarry workers are employed seasonally and are housed on-site, thereby reducing traffic and dust. The quarries are strung out north-south along Middle Mountain such that each quarry has a separate road to access the Goose Creek road, an improved gravel road that leads to Oakley. During the field season (roughly May to November), semi-truck traffic, hauling pallets of Oakley Stone, can be fairly intense- on the order of 10 to 20 round trips per day- on the Goose Creek road. One of the operations has a millsite adjacent to the Goose Creek Road where stone is split and palletized for shipping. All of the operations shut down in the winter, so in the fall pallets of stone are brought off the mountain and stockpiled in Oakley. Several of the quarries have been patented and are therefore privately-owned. No stipulations

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pertaining to sage grouse are currently applied to the Plans of Operations for any of these quarries. Altogether, the quarries employ approximately 100 people year-round and approximately 600 seasonal workers (<http://southernidaholiving.com/features/oakley-rocks/>, July 2012).

The Eskridge pumice pit is located north of Magic Reservoir, on both sides of U.S. Highway 20. The mining claimants have mined pumice for landscaping material since the 1940's. Current operations are located on the south side of the highway, where disturbance consists of 15 acres of quarry and staging area. A few years ago, the claimant moved the operation from the north side of the highway, and reclaimed (sloped and seeded) 34 acres of previous disturbance. The operation is active throughout the year, but activities rotate approximately every three years, depending on demand for the material. In the first year of the cycle, bulldozers are used to rip the material from the quarry face. In the second year, the material is classified based on size and color, and stockpiled. In the third year, the stockpiles are loaded into belly dump trucks and transported to Gooding, where it is loaded onto train cars and shipped to Rexburg, where it is sold. The BLM currently holds a reclamation bond for \$83,000.

The Idaho Falls District currently has four 3809 Plans located in sage grouse habitat, all in the Challis Field Office. Two Plans are for building stone (including Three Rivers Stone) and 2 are for zeolite. The Three Rivers Stone quarry is a large building stone quarry operation situated along the south side of U.S. Highway 93, east of the confluence of the East Fork and the Main Salmon rivers. The quarry is operated in a similar manner as those on Middle Mountain: The stone (a variegated argillaceous quartzite) is split into thin sheets using hand tools and is palletized at the quarry. The pallets are hauled to the millsite adjacent to the highway, from which they are shipped. At peak production in 2007, there were 99 people employed by the quarry's operator, L&W Stone. In January, 2013, however, the company announced that it would be shutting down production at the quarry while it undergoes bankruptcy proceedings.

In the Dillon Field Office, there are currently no 3809 Plans located in sage grouse habitat. Eight out of twenty-four 3809 Notices are in sage grouse habitat.

On the Raft River division of the Sawtooth NF in Utah, there are several quarries of Oakley Stone. They are located on the southern slopes of the Raft River Range, in sage grouse habitat.

#### **NON-ENERGY SOLID LEASABLE MINERALS**

The Pocatello Field Office has a large non-energy solid leasable mineral program, as the phosphate resource in that field office is significant. The goal in the Pocatello RMP is to manage the Federal mineral estate while minimizing adverse impacts to resource values. The 2012 Pocatello RMP does not have any stipulations or minerals guidance for non-energy leasable minerals which specifically address sage grouse.

#### **Existing Condition:**

Phosphate has been mined in southeast Idaho for over one hundred years. Of the 86 Federal phosphate leases that BLM administers in Idaho, only ten are located in sage grouse habitat.

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These are located north and west of Blackfoot Reservoir. None of these leases have had active mining operations on them, nor is any mining planned on the leases in the next 5 to 10 years. Most of the leased acreage around Blackfoot Reservoir is split estate (privately-owned or state-owned surface with federal minerals). One additional lease is located in priority sage grouse habitat northwest of Bear Lake near Paris, Idaho. Exploration drilling was conducted in 2012 on lease, and on the private lands and unleased split estate lands surrounding the small lease. Timing restrictions for sage grouse were applied to the approval for the drilling. If developed, this property would likely be developed as an underground mine, due to geologic factors. The Dillon Field Office has one non-energy solid leasable lease, for phosphate. It is not located in sage grouse habitat.

### COAL

No economically viable coal resources have ever been discovered in Idaho, and most plans are silent on the subject. The Dillon RMP states its goal is to make coal resources available on a site-by-site basis. A plan amendment would be required to lease coal, along with the appropriate level of NEPA analysis. No specific mitigation measures for sage grouse are identified in any of the land use plans.

### 3.2.3 Trends

#### Oil and Gas-

Interest in oil and gas leasing in Idaho has been sporadic over time, and it is expected to remain so. Many leases were held in the 1970s and 1980s through-out much of Idaho, when leasing was done under a non-competitive system. After passage of the FOGLRMA in the early 1980's, leasing became a competitive process, and BLM's standards for leasing became more rigorous. Lease nominations dropped dramatically in Idaho and for many years, BLM's oil and gas program in Idaho was non-existent. With passage of the Energy Policy Act in 2005, Idaho BLM experienced an uptick in leasing interest, with over 400,000 acres of Federal land nominated since that time<sup>1</sup>. (Insert map of lands nominated for oil and gas leasing in Idaho, from scoping report).

Interest in leasing remains high in the Payette area, due to the discovery of natural gas and planned development in that area (181,000 acres nominated for leasing, overlapping). Much of land nominated for leasing is split estate, and only the northernmost nominated parcels are located in sage grouse habitat. The Bear Lake area has been nominated for leasing by several parties, most recently in 2012 (59,700 acres, overlapping acreage). Interest in leasing the Bear Lake Plateau was at its highest in the early 1980's, when a discovery of gas was made just south of the Idaho/Utah state line, and in adjoining areas in Wyoming. Several wells were drilled in Idaho at that time, but were reported to be dry. Other areas that have been nominated for leasing recently include approximately 90,000 acres in Twin Falls County, south of Rogerson, and approximately 60,000 acres in Clark County, on the Idaho-Montana border in the Targhee NF. All of these nominated lands have sage grouse habitat.

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<sup>1</sup> Some of this acreage overlaps, due to multiple nominations for the same land

### CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS

Several geophysical surveys have been conducted recently in the Payette area (2D and 3D seismic surveys). It is likely that additional geophysical surveys will be conducted in the planning area. Seismic reflection surveys are the most commonly used geophysical tool. Very little surface disturbance is associated with a seismic survey, as no excavating or drilling is involved. All that is required is a seismic energy source and an array of receptors. The most common type of survey seen in Idaho involves mechanically vibrating or “thumping” the ground using truck-mounted equipment. This creates seismic waves that are recorded by a series of receptors placed on the ground surface along a 3- to 5-mile line. This process requires a crew of about 10 to 15 people and five to seven vehicles. No reclamation is usually required.

Despite the occasional interest in leasing in Idaho, no drilling permits have ever been filed on public lands in Idaho. This trend is expected to continue, however for the sake of this analysis, a description of the drilling process is included in this report, since the issuance of a lease commits those lands to the possibility of exploration and development of the oil and gas resource.

Exploration drill holes for oil and gas range in depth from a few thousand feet to many thousands of feet, but in much of Idaho would probably be 7,000 to 11,000 feet deep. These wells are 30 inches in diameter or larger at the surface, then narrow (telescope) to 12 inches at the bottom of the well. In order to drill these deep, large-diameter holes, a large drilling rig would be utilized. The top of the drill rig derrick could be as much as 155 feet above the ground surface, and the rig floor could be at least 25 feet above the ground surface. These rigs are typically equipped with diesel engines, fuel and drilling mud storage tanks, mud pumps, and other ancillary equipment. Blow-out prevention equipment would be utilized while drilling to prevent uncontrolled flow at the surface if a pressurized thermal pocket is encountered.

Temporary roads would likely be needed to transport and maintain the drill rig and other heavy equipment. Either existing roads would be improved or new roads would be constructed to accommodate the traffic. Typically, roads are constructed with a 20-foot wide graveled running surface with adjacent ditches and berms, for a total disturbance width of about 40 feet. It may be necessary to haul in gravel to obtain a good road base, as well as a base for the well pad. Based on the road density in the planning area, it is assumed that access to the drill pads may require up to one mile of road construction or improvement. Surface disturbance from construction of one mile of road equals about 5 acres.

Getting the rig and ancillary equipment to the site may require 15 to 20 trips by full-sized tractor-trailers, with a similar amount for de-mobilizing the rig. There would be 10 to 40 daily trips for commuting and hauling in equipment. Drilling operations would likely occur 24 hours a day and seven days a week. It takes approximately one month to drill one well. A drilling operation generally has from 10 to 15 people on-site at all times, with more people coming and going periodically with equipment and supplies.

During this exploratory or wildcat phase of drilling, it is likely that a drill pad, to accommodate the rig and equipment, would be required at each well location. A drill pad is usually 2.5 acres in size (300' x 350'). In order to obtain a level pad, cut and fill of the site may be required. Topsoil would first be removed from the well pad site and stored on site for reclamation. In addition to the drill rig, the well pad may house a reserve pit for storage or disposal of water,

**Commented [k1]:** This section (RFDS) could be removed and placed in an appendix. I could pare it down, too, if needed.

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drill mud, and cuttings; several mud pits and pumps, a tool shed, drill pipe rack, a fuel tank, a water tank, a generator and several compressors, equipment storage, and several trailers for temporary lab and office quarters. Depending on the contents of the reserve pit and environmental sensitivity of the site, it may be lined or unlined.

Well drilling also requires water. As much water as possible is recycled on site, yet about 5,000 to 15,000 gallons of water may be needed each day depending on well conditions. Initially, water would need to be provided, either by wells or trucked in, to meet demands. Many oil or gas wells encounter water at depth when drilling for oil and/or gas, as it may be part of the oil and gas reservoir, and can be utilized when production is ongoing. Any water rights required would likely need to be filed in the name of the BLM.

Various tests are then run down the hole and data is collected to determine whether the well is capable of production. At the conclusion of well testing, if paying quantities of oil and gas are not discovered, the operator is required to plug the well according to Federal and State standards. Cement plugs are placed above and below water-bearing units with drilling mud placed in the space between plugs. When abandonment is complete, the site is reclaimed, which includes pad and road recontouring, topsoil replacement, and seeding with approved mixtures. Erosion control measures would be incorporated into the reclamation design as needed.

The drilling site could be active for approximately one year, from the start of drill pad and access road construction; through drilling and well testing; to completion of plugging the hole and reclamation of the surface, which usually involves removing all infrastructure; disposal of any waste generated, reshaping pads and roads, and re-seeding. The total surface disturbance expected from the drilling of a single exploratory well and the construction of one mile of access road is approximately 8 acres.

If a producible quantity of oil or gas is discovered, additional development wells would be drilled to confirm the discovery, establish the limits of the field, and drain the field. Depending on the field characteristics, well spacing may be from 40 to several hundred acres per well.

The speed at which a field is developed is dependent on the anticipated productivity. It may take from one to three years to fully develop an oil or gas field. Large fields with several operators may be unitized to reduce surface impacts. In addition, directional drilling may allow for drilling more than one well per pad.

During field development, the road system may be greatly expanded. Temporary roads are usually improved to accommodate more traffic and increased duration of use. Improvements may include crowning, capping, and implementing additional erosion controls. New roads would also be constructed. Depending on well location and topography, a main access road is built with smaller secondary roads running to each pad. In addition to roads, other facilities may also be installed including power lines, tank farms, pipelines, oil/water separators, and injection wells.

Where oil and gas flow to the surface naturally, control valves and collection pipes are attached to the well head. Otherwise pumps are installed. Oil is typically produced along with water and

### **CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

gas. Separation facilities are constructed on site to remove water, carbon dioxide, and hydrogen sulfide. The oil and natural gas are then separated. Water, usually saline, is disposed of either through surface discharge, evaporation ponds or re-injection into the producing formation.

If gas is present in economic quantities and a pipeline is located within close proximity, a network of pipelines would likely be constructed to collect and transport the gas. If not, gas would likely be re-injected into the reservoir. Oil would be collected in a similar manner and stored in tanks in a central location. Well operators would likely have service operations (e.g., cementing, logging, bits, testing, etc.) provided by established oil field service companies in Wyoming or Utah.

The producing life span of an oil or gas field varies depending on field characteristics. A field may produce for a few years to many decades. Commodity price, recovery technique, and the political environment also affect the life of a field. Well abandonment may begin as soon as it is depleted, or it may be rested for a period of time and put back into production.

#### Geothermal

Interest in geothermal is sporadic in Idaho, depending on factors such as the economy, political climate, government incentive programs, such as the renewable energy tax credit, and technological advances.

#### Mineral Materials

Demand for mineral materials is expected to remain fairly steady, although the collapse of the housing industry in 2008 definitely resulted in fewer sales throughout the planning area. The implementation of full cost recovery for individual sales has caused a decline in that casetype.

#### Locatables

While Idaho's mining claim numbers fluctuate with the price of gold, the number of Plans and Notices remains fairly steady. Production of building stone in the Middle Mountain area remains steady, however it was recently reported that L&W Stone's Three River Stone quarry near Clayton has been shut down due to bankruptcy.

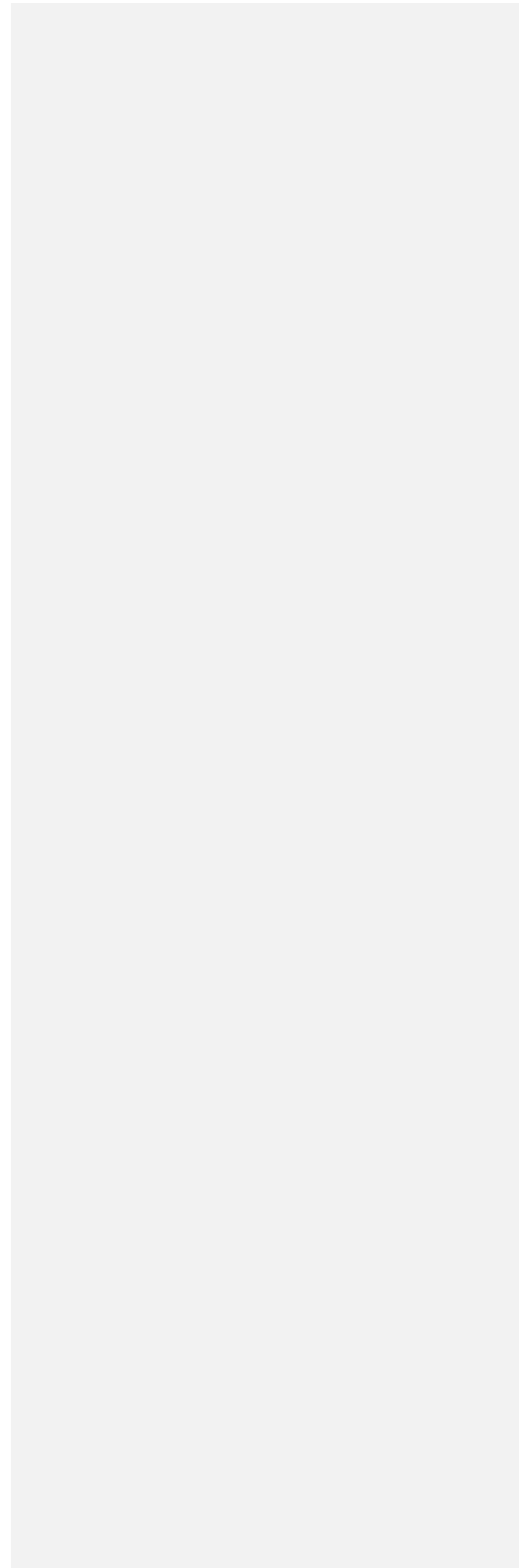
#### Non-Energy Solid Leasable Minerals

Demand for phosphate remains high, and the companies that mine in southeast Idaho continue to develop new mines as old ones are reclaimed and are slowly being remediated. There is no indication that the leases in sage grouse habitat will be developed soon, however it is possible that an underground operation could be developed near Paris, Idaho.

**CHAPTER THREE- AFFECTED ENVIRONMENT- MINERALS**

Coal-

| It is highly unlikely that any coal exploration or development will occur in Idaho.



**Table XX.** Special status species that may be affected by the proposed action and public lands where the designations apply.

Scientific Name	Status*	Federal Land	
		BLM	Forest Service
<b>Mammals</b>			
Grizzly Bear ( <i>Ursus arctos</i> )	ESA Threatened	X	X
Canada Lynx ( <i>Lynx canadensis</i> )	ESA Threatened	X	X
Southern Idaho Ground Squirrel ( <i>Spermophilus brunneus endemicus</i> )	ESA Candidate	X	X
Gray wolf ( <i>Canis lupus</i> )	BLM & FS Sensitive	X	X
Pygmy rabbit ( <i>Brachylagus idahoensis</i> )	BLM & FS Sensitive	X	X
Piute ground squirrel ( <i>Spermophilus mollis artemisiae</i> )	BLM Sensitive	X	
California bighorn sheep ( <i>Ovis canadensis californiana</i> )	BLM Sensitive	X	
Rocky Mountain bighorn sheep ( <i>Ovis canadensis</i> )	FS Sensitive		X
Cliff chipmunk ( <i>Tamias dorsalis</i> )	BLM Sensitive	X	
Uinta Chipmunk ( <i>Tamias umbrinus</i> )	BLM Sensitive	X	
Merriam's ground squirrel ( <i>Spermophilus canus vigilis</i> )	BLM Sensitive	X	
Wyoming ground squirrel ( <i>Spermophilus elegans nevadensis</i> )	BLM Sensitive	X	
Little pocket mouse ( <i>Perognathus longimembris</i> )	BLM Sensitive	X	
Dark kangaroo mouse ( <i>Microdipodops megacephalus</i> )	BLM Sensitive	X	
Kit fox ( <i>Vulpes velox</i> )	BLM Sensitive	X	
<b>Birds</b>			
Greater sage grouse ( <i>Centrocercus urophasianus</i> )	ESA Candidate	X	X
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	BLM & FS Sensitive	X	X
Upland sandpiper ( <i>Bartramia longicauda</i> )	BLM Sensitive	X	
Peregrine falcon ( <i>Falco peregrinus anatum</i> )	BLM & FS Sensitive	X	X
Prairie falcon ( <i>Falco mexicanus</i> )	BLM Sensitive	X	
Ferruginous hawk ( <i>Buteo regalis</i> )	BLM Sensitive	X	
Columbia sharp-tailed grouse ( <i>Tympanuchus phasianellus columbianus</i> )	BLM & FS Sensitive	X	
Mountain quail ( <i>Oreotyx pictus</i> )	BLM & FS Sensitive	X	X
Calliope hummingbird ( <i>Stellula calliope</i> )	BLM Sensitive	X	
Loggerhead shrike ( <i>Lanius ludovicianus</i> )	BLM Sensitive	X	
Sage sparrow ( <i>Amphispiza belli</i> )	BLM Sensitive	X	
Brewer's sparrow ( <i>Spizella breweri</i> )	BLM Sensitive	X	
Black-throated sparrow ( <i>Amphispiza bilineata</i> )	BLM Sensitive	X	
<b>Reptiles</b>			
Mojave black-collared lizard ( <i>Crotaphytus bicinctores</i> )	BLM Sensitive	X	
Longnose snake ( <i>Rhinocheilus lecontei</i> )	BLM Sensitive	X	
Western ground snake ( <i>Sonora semiannulata</i> )	BLM Sensitive	X	
Common garter snake ( <i>Thamnophis sirtalis</i> )	BLM Sensitive	X	
<b>Amphibians</b>			
Western toad ( <i>Bufo boreas</i> )	BLM Sensitive	X	
Woodhouse toad ( <i>Bufo woodhousii</i> )	BLM Sensitive	X	
<b>Invertebrates</b>			
Idaho point-headed grasshopper ( <i>Acrolophitus pulchellus</i> )	BLM Sensitive	X	
St. Anthony sand dunes tiger beetle ( <i>Cicindela arenicola</i> )	BLM Sensitive	X	X
Bruneau Dunes tiger beetle ( <i>Cicindela waynei waynei</i> )	BLM Sensitive	X	X
<b>Plants</b>			
Slickspot peppergrass ( <i>Lepidium papilliferum</i> )	ESA Proposed	X	X
Goose Creek milkvetch ( <i>Astragalus anserinus</i> )	ESA Candidate	X	X
Packard's milkvetch ( <i>Astragalus cusickii</i> var. <i>packardiae</i> )	ESA Candidate	X	
Christ's Indian Paintbrush ( <i>Castilleja christii</i> )	ESA Candidate		X
Aase's onion ( <i>Allium aaseae</i> )	BLM Sensitive	X	
Lemhi milkvetch ( <i>Astragalus aquilonius</i> )	BLM & FS Sensitive	X	X
Starveling milkvetch ( <i>Astragalus jejunus</i> var. <i>jejunus</i> )	BLM & FS Sensitive	X	X
Mulford's milkvetch ( <i>Astragalus mulfordiae</i> )	BLM Sensitive	X	
Cusick's false yarrow ( <i>Chaenactis cusickii</i> )	BLM Sensitive	X	
Welsh's buckwheat ( <i>Eriogonum capistratum</i> var. <i>welshii</i> )	BLM & FS Sensitive	X	X
Hooker's buckwheat ( <i>Eriogonum hookeri</i> )	BLM Sensitive	X	



Scientific Name	Status*	Federal Land	
		BLM	Forest Service
Simple Kobresia ( <i>Kobresia simpliciuscula</i> )	BLM Sensitive	X	
Packard's desert parsley ( <i>Lomatium packardiae</i> )	BLM Sensitive	X	
Smooth stickleaf ( <i>Mentzelia mollis</i> )	BLM Sensitive	X	
Saint Anthony evening-primrose ( <i>Oenothera psammophila</i> )	BLM Sensitive	X	
Obscure Phacelia ( <i>Phacelia inconspicua</i> )	BLM Sensitive	X	
Alkali primrose ( <i>Primula alcalina</i> )	BLM Sensitive	X	
Woven-spore lichen ( <i>Texosporium sancti-jacobi</i> = <i>Cyphellium sancti-jacobi</i> )	BLM Sensitive	X	
Douglas's clover ( <i>Trifolium douglasii</i> )	BLM Sensitive	X	
Owyhee clover ( <i>Trifolium owyheense</i> )	BLM Sensitive	X	
Idaho range lichen ( <i>Xanthoparmelia idahoensis</i> )	BLM & FS Sensitive	X	X
King's angelica, Great Basin angelica ( <i>Angelica kingii</i> )	BLM Sensitive	X	
Coral lichen ( <i>Aspicilia rogerii</i> )	BLM Sensitive	X	
Challis milkvetch ( <i>Astragalus amblytropis</i> )	BLM Sensitive	X	
Lost River milkvetch ( <i>Astragalus amnis-amissi</i> )	BLM & FS Sensitive	X	X
Barren milkvetch ( <i>Astragalus cusickii</i> var. <i>sterilis</i> )	BLM Sensitive	X	
Meadow milkvetch ( <i>Astragalus diversifolius</i> )	BLM & FS Sensitive	X	X
Payson's milkvetch ( <i>Astragalus paysonii</i> )	BLM & FS Sensitive	X	X
King's desert grass ( <i>Blepharidachne kingii</i> )	BLM Sensitive	X	
Blue gramma ( <i>Bouteloua gracilis</i> )	BLM Sensitive	X	
Mahala mat ( <i>Ceanothus prostratus</i> )	BLM Sensitive	X	
Short-spored jelly lichen ( <i>Collema curtisporum</i> )	BLM Sensitive	X	
Uinta Basin cryptantha ( <i>Cryptantha breviflora</i> )	BLM Sensitive	X	
Sepal-tooth dodder ( <i>Cuscuta denticulata</i> )	BLM Sensitive	X	
Silver-skin lichen ( <i>Dermatocarpon lorenzianum</i> )	BLM Sensitive	X	
Least phacelia, Small-flower phacelia ( <i>Phacelia minutissima</i> )	BLM & FS Sensitive	X	X
Doublet ( <i>Dimeresia howellii</i> )	BLM Sensitive	X	
Harlequin calicoflower, Parti-color Downingia ( <i>Downingia insignis</i> )	BLM Sensitive	X	
Windward's goldenbush ( <i>Ericameria discoidea</i> var. <i>winwardii</i> = <i>Ericameria winwardii</i> )	BLM Sensitive	X	
Great Basin desert buckwheat ( <i>Eriogonum desertorum</i> )	BLM & FS Sensitive	X	X
Railroad Canyon buckwheat ( <i>Eriogonum soliceps</i> )	BLM Sensitive	X	
Cronquist's forget-me-not ( <i>Hackelia cronquistii</i> = <i>H. patens</i> )	BLM Sensitive	X	
Marsh felwort ( <i>Lomatogonium rotatum</i> )	BLM Sensitive	X	
Indian apple, Wild Crab apple ( <i>Peraphyllum ramosissimum</i> )	BLM Sensitive	X	
Malheur Yellow Phacelia ( <i>Phacelia lutea</i> var. <i>calva</i> )	BLM Sensitive	X	
Idaho twinpod, Salmon Twin bladderpod ( <i>Physaria didymocarpa</i> var. <i>lyrata</i> )	BLM & FS Sensitive	X	X
Small-flowered ricegrass ( <i>Piptatherum micranthum</i> = <i>Oryzopsis micrantha</i> )	BLM Sensitive	X	
Turtleback, Annual Brittlebrush ( <i>Psathyrotes annua</i> = <i>Bulbostylis annua</i> )	BLM Sensitive	X	
Thinleaf goldenhead ( <i>Pyrrocoma linearis</i> = <i>Haplopappus uniflorus</i> var. <i>howellii</i> )	BLM Sensitive	X	
Snake River goldenweed, Radiate goldenweed ( <i>Pyrrocoma radiata</i> = <i>Haplopappus raidatus</i> )	BLM & FS Sensitive	X	X
White grouse pellet lichen ( <i>Rhizoplaca idahoensis</i> )	BLM Sensitive	X	
Least snapdragon ( <i>Sairocarpus kingie</i> )	BLM Sensitive	X	
False mountain willow ( <i>Salix pseudomonticola</i> )	BLM Sensitive	X	
Wavy-leaf thelypody ( <i>Thelypodium repandum</i> )	BLM & FS Sensitive	X	X
Plumed clover ( <i>Trifolium plumosum</i> var. <i>amplifolium</i> )	BLM Sensitive	X	
Pink agoseris, Mill Creek agoseris ( <i>Agoseris lackschewitzii</i> )	BLM & FS Sensitive	X	X
Two-grooved milkvetch ( <i>Astragalus bisulcatus</i> var. <i>bisulcatus</i> )	BLM Sensitive	X	
Stiff milkvetch, Idaho milkvetch ( <i>Astragalus conjunctus</i> )	BLM Sensitive	X	
Tufted milkvetch, Plains milkvetch ( <i>Astragalus gilviflorus</i> )	BLM Sensitive	X	
Park milkvetch ( <i>Astragalus leptaleus</i> )	BLM & FS Sensitive	X	X
Cusick's camas ( <i>Camassia cusickii</i> )	BLM & FS Sensitive	X	X
Winged-seed evening primrose ( <i>Camissonia pterosperma</i> = <i>Oenothera pterosperma</i> )	BLM Sensitive	X	
Birchleaf mountain-mahogany ( <i>Cercocarpus montanus</i> )	BLM Sensitive	X	
Lancefeaf springbeauty ( <i>Claytonia multiscapa</i> var. <i>flava</i> = <i>C. lanceolata</i> var. <i>multiscapa</i> )	BLM Sensitive	X	
Tufted cryptantha ( <i>Cryptantha caespitosa</i> )	BLM Sensitive	X	
Malheur cryptantha ( <i>Cryptantha propria</i> = <i>Oreocarya propria</i> )	BLM Sensitive	X	

Scientific Name	Status*	Federal Land	
		BLM	Forest Service
Silky cryptantha ( <i>Cryptantha sericea</i> = <i>Oreocarya sericea</i> )	BLM Sensitive	X	
Ibapah springparsley ( <i>Cymopterus ibapensis</i> = <i>Epallageiton ibapensis</i> )	BLM Sensitive	X	
Pointed draba, Beavertip draba, Rockcress draba ( <i>Draba globosa</i> = <i>D. apiculata</i> )	BLM & FS Sensitive	X	X
White false tickhead ( <i>Eatonella nivea</i> )	BLM Sensitive	X	
Swamp willow-herb ( <i>Epilobium palustre</i> )	BLM Sensitive	X	
Rabbitbrush goldenweed, Bloomer's goldenweed ( <i>Ericameria bloomeri</i> = <i>Haplopappus bloomeri</i> )	BLM Sensitive	X	
Winward's goldenbush ( <i>Ericameria discoidea</i> var. <i>winwardii</i> = <i>Ericameria winwardii</i> )	BLM Sensitive	X	
Cushion cactus/spinystar ( <i>Escobaria vivipara</i> var. <i>vivipara</i> = <i>Coryphantha vivipara</i> )	BLM Sensitive	X	
Cooper's rubber-plant ( <i>Hymenoxys cooperi</i> var. <i>canescens</i> = <i>Actinea canescens</i> )	BLM Sensitive	X	
Large Canadian St. John's wort ( <i>Hypericum majus</i> = <i>H. canadense</i> var. <i>majus</i> )	BLM Sensitive	X	
Thick-leaf pepperweed ( <i>Lepidium integrifolium</i> )	BLM Sensitive	X	
Middle Butte bladderpod ( <i>Lesquerella obdeltata</i> )	BLM Sensitive	X	
Sacajawea's bitterroot ( <i>Lewisia sacajaweana</i> )	BLM & FS Sensitive	X	X
Inch-high lupine ( <i>Lupinus uncialis</i> )	BLM Sensitive	X	
Green needlegrass ( <i>Nassella viridula</i> = <i>Stipa viridula</i> )	BLM Sensitive	X	
Challis crazyweed ( <i>Oxytropis besseyi</i> var. <i>salmonensis</i> = <i>O. nana</i> var. <i>salmonensis</i> )	BLM & FS Sensitive	X	X
Creeping nailwort ( <i>Paronychia sessiliflora</i> )	BLM Sensitive	X	
Short-lobed penstemon ( <i>Penstemon seorsus</i> )	BLM Sensitive	X	
Cusick's primrose ( <i>Primula cusickiana</i> A/complex)	BLM Sensitive	X	
Lost River silene ( <i>Silene scaposa</i> var. <i>lobata</i> )	BLM Sensitive	X	
Basin goldenrod ( <i>Solidago spectabilis</i> )	BLM Sensitive	X	
Rush aster ( <i>Symphyotrichum boreale</i> = <i>Aster junciformis</i> )	BLM Sensitive	X	
Malheur princesplume ( <i>Stanleya confertiflora</i> = <i>S. annua</i> , <i>S. rara</i> , <i>S. viridiflora</i> )	BLM Sensitive	X	
Picabo milkvetch ( <i>Astragalus oniciformis</i> )	BLM Sensitive	X	
Mudflat milkvetch ( <i>Astragalus yoder-williamsii</i> )	BLM Sensitive	X	
Twisted/Alkali cleomella ( <i>Cleomella plocasperma</i> )	BLM Sensitive	X	
Greeley's wavewing ( <i>Cymopterus acaulis</i> , var. <i>greeleyorum</i> )	BLM Sensitive	X	
Calcareous buckwheat ( <i>Eriogonum ochrocephalum</i> var. <i>calcareum</i> )	BLM Sensitive	X	
Bug-leg goldenweed ( <i>Haplopappus insecticuriis</i> = <i>H. integrifolius</i> )	BLM & FS Sensitive	X	X
Spreading gilia ( <i>Ipomopsis polycladon</i> = <i>Gilia polycladon</i> )	BLM Sensitive	X	
Davis' peppergrass ( <i>Lepidium davisii</i> = <i>L. montanum</i> )	BLM Sensitive	X	
Idaho penstemon ( <i>Penstemon idahoensis</i> )	BLM & FS Sensitive	X	X
Janish's penstemon ( <i>Penstemon janishiae</i> )	BLM Sensitive	X	
Tall dropseed ( <i>Sporobolus compositus</i> var. <i>compositus</i> = <i>Sporobolus asper</i> )	BLM Sensitive	X	
Scapose townsendia ( <i>Townsendia scapigera</i> )	BLM Sensitive	X	
Two-headed onion ( <i>Allium anceps</i> )	BLM Sensitive	X	
Mourning milkvetch ( <i>Astragalus astratus</i> var. <i>inseptus</i> )	BLM Sensitive	X	
Newberry's milkvetch ( <i>Astragalus newberry</i> var. <i>castoreus</i> )	BLM Sensitive	X	
Snake River milkvetch ( <i>Astragalus purshii</i> var. <i>ophiogenes</i> = <i>A. ophiogenes</i> )	BLM Sensitive	X	
Four-wing milkvetch ( <i>Astragalus tetrapterus</i> = <i>A. cinerascens</i> )	BLM Sensitive	X	
Fringed redmaids ( <i>Calandrinia ciliata</i> )	BLM Sensitive	X	
Earth lichen ( <i>Catapyrenium congestum</i> = <i>Heteroplacidium congestum</i> )	BLM Sensitive	X	
Desert pincushion ( <i>Chaenactis stevioides</i> )	BLM Sensitive	X	
California damasonium ( <i>Damasonium californicum</i> = <i>Machaerocarpus californicus</i> )	BLM Sensitive	X	
Bacigalupi's downingia ( <i>Downingia bacigalupii</i> )	BLM Sensitive	X	
Packard's buckwheat ( <i>Eriogonum shockleyi</i> var. <i>packardiae</i> )	BLM Sensitive	X	
Shockley's matted buckwheat ( <i>Eriogonum shockleyi</i> var. <i>shockleyi</i> )	BLM Sensitive	X	
White-margined wax plant ( <i>Glyptopleura marginata</i> )	BLM Sensitive	X	
United blazingstar ( <i>Mentzelia congesta</i> )	BLM Sensitive	X	
Rigid threadbush ( <i>Nemacladus rigidus</i> )	BLM Sensitive	X	
Simpson's hedgehog cactus ( <i>Pediocactus simpsonii</i> )	BLM Sensitive	X	
Spine-noded milkvetch ( <i>Peteria thompsoniae</i> = <i>P. nevadensis</i> )	BLM Sensitive	X	
American wood sage ( <i>Teucrium canadense</i> var. <i>occidentale</i> )	BLM Sensitive	X	
Beautiful bryum ( <i>Bryum calobryoides</i> )	FS Sensitive		X
Idaho douglasia ( <i>Douglasia idahoensis</i> )	FS Sensitive		X

Scientific Name	Status*	Federal Land	
		BLM	Forest Service
Sacajawea's bitterroot ( <i>Lewisia sacajaweanae</i> )	FS Sensitive		X
Cache beardtongue ( <i>Penstemon compactus</i> )	FS Sensitive		X
Payson bladderpod ( <i>Lesquerella paysonii</i> )	FS Sensitive		X
Douglas' biscuitroot ( <i>Cymopterus douglasii</i> )	FS Sensitive		X
Guardian buckwheat ( <i>Eriogonum meledonum</i> )	FS Sensitive		X
Idaho pennycress, Stanley thlaspi ( <i>Noccaea idahoensis var. aileeniae</i> )	FS Sensitive		X
Marsh's bluegrass ( <i>Poa abbreviate ssp. marshii</i> )	FS Sensitive		X
Stanley's whitlow-grass ( <i>Draba trichocarpa</i> )	FS Sensitive		X
White Cloud milkvetch ( <i>Astragalus vexilliflexus var. nubilus</i> )	FS Sensitive		X
Puzzling halimolobos ( <i>Halimolobos perplexa var. perplexa</i> )	FS Sensitive		X
Short-style tofieldia ( <i>Triantha occidentalis ssp. brevistyla</i> )	FS Sensitive		X
Tobias' saxifrage ( <i>Saxifraga bryophora var. tobiasiae</i> )	FS Sensitive		X
Tolmie's saxifrage ( <i>Saxifraga tomiei var. ledifolia</i> )	FS Sensitive		X
Cottam cinquefoil ( <i>Potentilla acottamii</i> )	FS Sensitive		X
Davis' wavewing ( <i>Cymopterus davisii</i> )	FS Sensitive		X
Centennial rabbitbrush ( <i>Chrysothamnus parryi ssp. montanus</i> )	FS Sensitive		X
Serpentine draba ( <i>Draba oreibata var. serpentine</i> )	FS Sensitive		X

Montana – to incorporate

**Sensitive Species List**

<b>MAMMALS</b>	<b>Common Name</b>	<b>Scientific Name</b>
	Black-tailed prairie dog	<i>Cynomys ludovicianus</i>
	Fisher	<i>Martes pennanti</i>
	Fringed myotis	<i>Myotis thysanodes</i>
	Fringe-tailed myotis	<i>Myotis thysanodes pahasapensis</i>
	<sup>1)</sup> Gray Wolf	<i>Canis lupus</i>
	Great Basin pocket mouse	<i>Perognathus parvus</i>
	<sup>2)</sup> Grizzly Bear	<i>Ursus arctos horribilis</i>
	Long-eared myotis	<i>Myotis evotis</i>
	Long-legged myotis	<i>Myotis volans</i>
	Meadow jumping mouse	<i>Zapus hudsonius</i>
	North American wolverine	<i>Gulo gulo luscus</i>
	Northern myotis	<i>Myotis septentrionalis</i>
	Pallid bat	<i>Antrozous pallidus</i>
	Pygmy rabbit	<i>Brachylagus idahoensis</i>
	Swift fox	<i>Vulpes velox</i>
	Townsend's big-eared bat	<i>Corynorhinus townsendii</i>
	White-tailed prairie dog	<i>Cynomys leucurus</i>

<b>BIRDS</b>	<b>Common Name</b>	<b>Scientific Name</b>
	Baird's sparrow	<i>Ammodramus bairdii</i>
	<sup>3)</sup> Bald Eagle	<i>Haliaeetus leucocephalus</i>
	Black tern	<i>Chilodonia niger</i>
	Black-backed woodpecker	<i>Picoides arcticus</i>
	Black-crowned night heron	<i>Nycticorax nycticorax</i>
	Blue-gray gnatcatcher	<i>Polioptila caerulea</i>
	Bobolink	<i>Dolichonyx orysivorus</i>
	Brewer's sparrow	<i>Spizella breweri</i>
	Burrowing owl	<i>Athene cunicularia</i>
	Chestnut-collared longspur	<i>Calcarius ornatus</i>
	Common loon	<i>Gavia immer</i>
	Dickcissel	<i>Spiza americana</i>
	Ferruginous hawk	<i>Buteo regalis</i>
	Flammulated owl	<i>Otus flammeolus</i>
	Franklin's gull	<i>Larus pipixcan</i>
	Golden eagle	<i>Aquila chrysaetos</i>
	Great gray owl	<i>Strix nebulosa</i>
	Greater sage-grouse	<i>Centrocercus urophasianus</i>
	Harlequin duck	<i>Histrionicus histrionicus</i>
	LeConte's sparrow	<i>Ammodramus leconteii</i>
	Loggerhead shrike	<i>Lanius ludovicianus</i>
	Long-billed curlew	<i>Numenius americanus</i>
	Marbled godwit	<i>Limosa fedoa</i>
	McCown's longspur	<i>Calcarius mccownii</i>

	Mountain plover	Charadrius montanus
	Nelson's sharp-tailed sparrow	Ammodramus nelsoni
	Northern goshawk	Accipiter gentiles
	Peregrine falcon	Falco peregrinus
	Red-headed woodpecker	Melanerpes erythrocephalus
	Sage sparrow	Amphispiza belli
	Sage thrasher	Oreoscoptes montanus
	Sedge wren	Cistothorus platensis
	Sprague's pipit	Anthus spragueii
	Swainson's hawk	Buteo swainsoni
	Three-toed woodpecker	Picoides tridactylus
	Trumpeter swan	Cygnus buccinator
	White-faced ibis	Plegadis chihi
	Yellow rail	Coturnicops noveboracensis
	Yellow-billed cuckoo	Coccyzus americanus
<b>REPTILES</b>		
	Greater short-horned lizard	Phrynosoma hernandesi
	Milk snake	Lampropeltis triangulum
	Snapping turtle	Chelydra serpentine
	Spiny softshell	Apalone spinifera
	Western hog-nosed snake	Heterodon nasicus
<b>AMPHIBIANS</b>		
	Coeur d'Alene salamander	Plethodon idahoensis
	Great Plains toad	Bufo cognatus
	Northern leopard frog	Rana pipiens
	Plains spadefoot	Spea bombifrons
	Western toad	Bufo boreas
<b>FISH</b>		
	Arctic grayling (fluvial population)	Thymallus arcticus montanus
	Northern redbelly X Finescale dace	Phoxinus eos x Phoxinus neogaeus
	Paddlefish	Polyodon spathula
	Pearl dace	Margariscus margarita
	Sauger	Stizostedion canadense
	Sturgeon chub	Macrhybopsis gelida
	Westslope cutthroat trout	Oncorhynchus clarki lewisi
	Yellowstone cutthroat trout	Oncorhynchus clarki bouvieri
<b>INSECTS</b>		
	Dakota skipper	Hesperia dacotae

- 1) Gray wolf will be moved to the Bureau sensitive list if delisted by the USFWS
- 2) Grizzly bear has been delisted for the Greater Yellowstone ecosystem. In that area it is a Bureau sensitive species.
- 3) Bald eagle has been delisted so has been moved to sensitive list.

Plants	Scientific name	Species Code	Common Name
	<i>Agastache cusickii</i>	AGCU	Cusick's horse-mint
	<i>Ageratina occidentalis</i> = <i>Eupatorium occidentale</i>	AGOC2	Western boneset
	<i>Allium acuminatum</i>	ALAC4	Tapertip onion
	<i>Aquilegia formosa</i>	AQFO	Sitka columbine
	<i>Arabis demissa</i> var. <i>languida</i>	ARDEL	Daggett rock cress
	<i>Arabis fecunda</i>	ARFE6	sapphire rockcress
	<i>Asclepias stenophylla</i>	ASST	narrowleaf milkweed
	<i>Astragalus aretioides</i> = <i>Orophaca aretioides</i>	ASAR3	Sweetwater milkvetch
	<i>Astragalus barrii</i>	ASBA	Barr's milkvetch
	<i>Astragalus ceramicus</i> var. <i>apus</i>	ASCEA	painted milkvetch
	<i>Astragalus convallarius</i> var. <i>convallarius</i> = <i>A. junciformis</i>	ASCOC9	lesser rushy milkvetch
	<i>Astragalus geyeri</i>	ASGEG	Geyer's milkvetch
	<i>Astragalus grayi</i>	ASGR4	Gray's milkvetch
	<i>Astragalus oreganus</i>	ASOR2	Wind River milkvetch
	<i>Astragalus scaphoides</i>	ASSC4	Bitterroot milkvetch
	<i>Astragalus terminalis</i>	ASTE9	railhead milkvetch
	<i>Balsamorhiza macrophylla</i>	BAMA4	large-leafed balsamroot
	<i>Botrychium paradoxum</i>	BOPA	Peculiar moonwort
	<i>Braya humilis</i>	BRHU	low northern -rockcress
	<i>Brickellia oblongifolia</i>	BROB	Mohave brickellbush
	<i>C. idahoa</i> = <i>C. parryana</i> ssp. <i>idahoa</i>	CAID	Idaho sedge
	<i>Carex stenoptila</i>	CAST4	Small-winged sedge
	<i>Camissonia andina</i> = <i>Oenothera</i> <i>andina</i>	CAAN14	obscure evening-primrose
	<i>Camissonia parvula</i> = <i>Oenothera</i> <i>parvula</i>	CAPA39	small camissonia
	<i>Carex crawei</i>	CACR3	Crawe's sedge
	<i>Castilleja exilis</i>	CAEX6	annual Indian paintbrush
	<i>Cleome lutea</i>	CLLU2	yellow bee plant
	<i>Cryptantha fendleri</i>	CRFE3	Fendler cat's-eye
	<i>Cryptantha scoparia</i>	CRSC2	miner's candle
	<i>Cyperus schweinitzii</i>	CYSC3	Schweinitz' flatsedge
	<i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i>	DIOLS	Scribner's panic grass
	<i>Draba globosa</i> = <i>D. apiculata</i>	DRGL6	beavertip draba
	<i>Draba ventosa</i>	DRVE	Wind River draba
	<i>Elodea bifoliata</i> = <i>E.</i> <i>longivaginata</i>	ELBI2	long sheath waterweed
	<i>Eleocharis rostellata</i>	ELRO2	beaked spikerush
	<i>Erigeron asperugineus</i>	ERAS	Idaho fleabane
	<i>Erigeron linearis</i>	ERLI	linearleaf fleabane
	<i>Erigeron ochroleucus</i> var. <i>ochroleucus</i> = <i>E. parryi</i>	EROCO	buff fleabane

	<i>Eriogonum caespitosum</i>	ERCA8	matted buckwheat
	<i>Eriogonum soliceps</i>	ERSO	Railroad Canyon wild buckwheat
	<i>Eriogonum visherii</i>	ERV14	Visher's buckwheat
	<i>Gentianopsis simplex</i>	GESI3	hiker's gentian
	<i>Grayia spinosa</i>	GRSP	spiny hopsage
	<i>Grindelia howellii</i>	GRHO	Howell's gumweed
	<i>Heliomeris multiflora</i> var. <i>multiflora</i> = <i>Viguiera multiflora</i>	HEMUM	showy goldeneye
	<i>Hutchinsia procumbens</i>	HUPR	prostrate hutchensia
	<i>Ipomopsis congesta</i> ssp. <i>crebrifolia</i>	IPCOC	ballhead ipomopsis
	<i>Kobresia simpliciuscula</i>	KOSI2	simple bog sedge
	<i>Kochia americana</i>	KOAM	green molly
	<i>Leptodactylon caespitosum</i>	LECA	mat prickly phlox
	<i>Lesquerella carinata</i> var. <i>languida</i>	LECAL3	Idaho bladderpod (same as keeled)
	<i>Lesquerella lesicii</i>	LELE26	Pryor Mountain bladderpod
	<i>Lesquerella pulchella</i>	LEPU15	beautiful bladderpod
	<i>Leymus flavescens</i> = <i>Elymus</i> <i>flavescens</i>	LEFL4	sand wildrye
	<i>Lobelia spicata</i>	LOSP	Pale-spiked lobelia
	<i>Lomatium attenuatum</i>	LOAT	taper-tip desert-parsley
	<i>Lomatium nuttallii</i>	LONU3	Nuttall desert-parsley
	<i>Lomatogonium rotatum</i>	LORO	marsh felwort
	<i>Malacothrix torreyi</i> = <i>M.</i> <i>sonchoides</i> v. <i>torreyi</i>	MATO2	Torrey's desert dandelion
	<i>Mentzelia nuda</i>	MENU	bractless mentzelia
	<i>Mentzelia pumila</i>	MEPU3	dwarf mentzelia
	<i>Mimulus nanus</i>	MINA	dwarf purple monkeyflower
	<i>Mimulus primuloides</i>	MIPR	primrose monkeyflower
	<i>Mimulus ringens</i>	MIRI	square-stem monkeyflower
	<i>Nama densum</i>	NADE2	leafy nama
	<i>Nuttallanthus texanus</i>	NUTE	Blue toadflax
	<i>Pedicularis crenulata</i>	PECR	meadow lousewort
	<i>Penstemon angustifolius</i>	PEAN4	narrowleaf penstemon
	<i>Penstemon lemhiensis</i>	PELE8	Lemhi beardtongue
	<i>Penstemon whippleanus</i>	PEWH	Whipple's beardtongue
	<i>Phacelia incana</i>	PHIN9	hoary phacelia
	<i>Phacelia thermalis</i>	PTH	Hot Spring phacelia
	<i>Phlox andicola</i>	PHAN4	plains phlox
	<i>Phlox missoulensis</i>	PHMI13	Missoula phlox
	<i>Physaria brassicoides</i>	PHBR5	double bladderpod
	<i>Physaria didymocarpa</i> v. <i>lanata</i>	PHDIL	common twinpod
	<i>Plagiobothrys leptocladus</i>	PLLE	slender-branched popcorn flower
	<i>Poa arnowiae</i> = <i>P. curta</i>	POAR21	short-leaved bluegrass
	<i>Polygonum douglasii</i> sp. <i>Austinae</i>		Austin's knotweed
	<i>Potentilla plattensis</i>	POPL	Platte cinquefoil
	<i>Primula alcalina</i>	PRAL6	alkali primrose



	<i>Primula incana</i>	PRIN	mealy primrose
	<i>Pseudostellaria jamesiana</i> = <i>Stellaria jamesiana</i>	PSJA2	James stitchwort
	<i>Psilocarphus brevissimus</i>	PSBR	dwarf wooly-heads
	<i>Pediomelum hypogaeum</i>	PEHYH	Indian breadroot
	<i>Puccinellia lemmonii</i>	PULE	Lemmon's alkaligrass
	<i>Pyrola picta</i>	PYPU2	white-veined wintergreen
	<i>Pyrrocoma carthamoides</i> var. <i>subsquarrosa</i> = <i>Haplopappus</i> <i>carthamoides</i> v. <i>subsquarrosus</i>	PYCAS2	Beartooth large-flowered goldenweed
	<i>Quercus macrocarpa</i>	QUMA	bur oak
	<i>Ranunculus pedatifidus</i>	RAPE	Northern buttercup
	<i>Rorippa calycina</i>	ROCA	persistent-sepal yellow-cress
	<i>Schoenoplectus heterochaetus</i> = <i>Scirpus heterochaetus</i>	SCHE5	slender bulrush
	<i>Shoshonea pulvinata</i>	SHPU	shoshonea
	<i>Solidago velutina</i> = <i>S. sparsifolia</i>	SOVE6	few-flowered goldenrod
	<i>Sphaeralcea munroana</i>	SPMU	white-stemmed globe-mallow
	<i>Sphaeromeria argentea</i>	SPAR2	silver chicken sage
	<i>Stenogonum salsuginosum</i> = <i>Eriogonum salsuginosum</i>	STSA3	smooth buckwheat
	<i>Stephanomeria spinosa</i> = <i>Lygodesmia spinosa</i>	STSP6	thorn skeletonweed
	<i>Suckleya suckleyana</i>	SUSU2	Poison suckleya
	<i>Taraxacum eriophorum</i>	TAER2	Rocky Mountain dandelion
	<i>Thalictrum alpinum</i>	THAL	alpine meadowrue
	<i>Thelypodium sagittatum</i> ssp. <i>sagittatum</i>	THSAS	arrow thelypody
	<i>Thlaspi parviflorum</i>	THPA2	meadow pennycress
	<i>Townsendia florifera</i>	TOFL2	showy townsendia
	<i>Viburnum lentago</i>	VILE	Nannyberry



**Federally Listed and Candidate Species**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Federal status</b>
Black-footed ferret	Mustela nigripes	E
<sup>1)</sup> Gray wolf	Canis lupus	E
Whooping crane	Grus americana	E
Least tern	Sterna antillarum	E
Pallid sturgeon	Scaphirhynchus albus	E
<sup>2)</sup> Grizzly bear	Ursus arctos horribilis	T
Piping plover	Charadrius melodus	T, CH
Bull trout	Salvelinus confluentus	T, CH
Canada lynx	Lynx canadensis	T, CH
Dakota skipper	Hesperia dacotae	C
Yellow-billed cuckoo	Coccyzus americanus	C

E = endangered

T = threatened

CH = critical habitat identified

C = candidate

- 1) Gray wolf will be moved to the Bureau sensitive list if relisted by the USFWS
- 2) Grizzly bear has been delisted for the Greater Yellowstone ecosystem. In that area it is a Bureau sensitive species.

**Special status wildlife species occurring within Dillon Field Office.\***

<b>List of all Special Status Species that are known to occur within the watershed.</b>	<b>Current Management Status of the Species.</b>	<b>Occurrence: Resident (R) Transient (T)</b>	<b>Preferred habitat</b>
Canada Lynx ( <i>Lynx canadensis</i> )	Threatened	T	Sub-alpine forest
Greater Sage Grouse ( <i>Centrocercus urophasianus</i> )	Sensitive/Candidate	R	Sagebrush shrubland
Grizzly Bear ( <i>Ursus arctos horribilus</i> )	Threatened	T	Forest
North American Wolverine ( <i>Gulo gulo luscus</i> )	Sensitive/Candidate	T	Forest
Gray Wolf ( <i>Canis lupus</i> )	Sensitive	R	All
Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	Sensitive	R	Riparian/wetland
Fluvial arctic grayling ( <i>Thymallus arcticus</i> )	Sensitive	R	Streams
Baird's Sparrow ( <i>Ammodramus bairdii</i> )	Sensitive	R	Grassland
Black-backed Woodpecker ( <i>Picoides arcticus</i> )	Sensitive	R	Forest
Black Tern ( <i>Chlidonias niger</i> )	Sensitive	R	Wetland
Brewer's sparrow ( <i>Spizella breweri</i> )	Sensitive	R	Sagebrush shrubland
Bobolink ( <i>Dolichonyx orysivorus</i> )	Sensitive	R	Grassland
Boreal/Western toad ( <i>Bufo boreas</i> )	Sensitive	R	Riparian/wetland/forest
Burrowing Owl ( <i>Athene cunicularia</i> )	Sensitive	T	Sagebrush shrubland /grassland
Common Loon ( <i>Gavia immer</i> )	Sensitive	T	Wetland
Ferruginous Hawk ( <i>Buteo regalis</i> )	Sensitive	R	Sagebrush shrubland
Fisher ( <i>Martes pennanti</i> )	Sensitive	T	Forest
Flammulated Owl ( <i>Otus flammeolus</i> )	Sensitive	R	Forest
Franklin's Gull ( <i>Larus pipixcan</i> )	Sensitive	T	Wetland
Fringed myotis ( <i>Myotis thysanodes</i> )	Sensitive	T	Grassland/woodland
Golden Eagle ( <i>Aquila chrysaetos</i> )	Sensitive	R	Riparian/wetland Sagebrush shrubland
Great Basin pocket mouse ( <i>Perognathus parvus</i> )	Sensitive	R	Sagebrush shrubland
Great Gray Owl ( <i>Strix nebulosa</i> )	Sensitive	R	Forest
Harlequin Duck ( <i>Histrionicus histrionicus</i> )	Sensitive	R	Streams
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Sensitive	R	Sagebrush shrubland
Long-billed Curlew ( <i>Numenius americanus</i> )	Sensitive	R	Grassland
Long-eared Myotis ( <i>Myotis evotis</i> )	Sensitive	R	Grassland/woodland
Long-legged myotis ( <i>Myotis volans</i> )	Sensitive	R	Forest/ Riparian
Marbled Godwit ( <i>Limosa fedoa</i> )	Sensitive	T	Wetlands
McCown's longspur ( <i>Calcarius mccownii</i> )	Sensitive	R	Grasslands

List of all Special Status Species that are known to occur within the watershed.	Current Management Status of the Species.	Occurrence: Resident (R) Transient (T)	Preferred habitat
Northern Goshawk ( <i>Accipiter gentilis</i> )	Sensitive	R	Forest
Northern leopard frog ( <i>Rana pipiens</i> )	Sensitive	R	Riparian /wetland
Peregrine Falcon ( <i>Falco peregrinus anatum</i> )	Sensitive	R	Riparian/ Wetland
Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )	Sensitive	R	Sagebrush shrubland
Sage thrasher ( <i>Oreoscoptes montanus</i> )	Sensitive	R	Sagebrush shrubland
Sage Sparrow ( <i>Amphispiza belli</i> )	Sensitive	R	Sagebrush shrubland
Swainsons Hawk ( <i>Buteo swainsoni</i> )	Sensitive	R	Wetland
Three-toed Woodpecker ( <i>Picoides tridactylus</i> )	Sensitive	R	Riparian/wetland Sagebrush shrubland
Townsend's Big-eared Bat ( <i>Corynorhinus townsendii</i> )	Sensitive	R	Forest
Trumpeter Swan ( <i>Cygnus buccinator</i> )	Sensitive	R	Forest
Westslope cutthroat trout ( <i>Oncorhynchus clarki lewisi</i> )	Sensitive	R	Wetland

\*SS list from 2009 revision

**ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES  
MONTANA COUNTIES\*  
Endangered Species Act**

**November 2012**

C = Candidate  
 LT = Listed Threatened  
 LE = Listed Endangered  
 P = Proposed  
 PCH = Proposed Critical Habitat  
 CH = Designated Critical Habitat  
 XN = Experimental non-essential population

\*Note: Generally, this list identifies the counties where one would reasonably expect the species to occur, not necessarily every county where the species is listed

County/Scientific Name	Common Name	Status
<b>BEAVERHEAD</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Thymallus arcticus</i>	Arctic Grayling (Upper Missouri River DPS)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>BIG HORN</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>BLAINE</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>BROADWATER</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C

County/Scientific Name	Common Name	Status
<b>CARBON</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>CARTER</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>CASCADE</b>		
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>CHOUTEAU</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>CUSTER</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>DANIELS</b>		
<i>Grus americana</i>	Whooping Crane	LE
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>DAWSON</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>DEER LODGE</b>		
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Thymallus arcticus</i>	Arctic Grayling (Upper Missouri River DPS)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>FALLON</b>		
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>FERGUS</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C

County/Scientific Name	Common Name	Status
<b>FLATHEAD</b>		
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Silene spaldingii</i>	Spalding's Campion	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Lednia tumana</i>	Meltwater Lednian Stonefly	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>GALLATIN</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>GARFIELD</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>GLACIER</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Lednia tumana</i>	Meltwater Lednian Stonefly	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>GOLDEN VALLEY</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<b>GRANITE</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>HILL</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>JEFFERSON</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Lynx canadensis</i>	Canada Lynx	LT
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Pinus albicaulis</i>	Whitebark Pine	C

County/Scientific Name	Common Name	Status
<b>JUDITH BASIN</b>		
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>LAKE</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Howellia aquatilis</i>	Water Howellia	LT
<i>Silene spaldingii</i>	Spalding's Campion	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>LEWIS AND CLARK</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>LIBERTY</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>LINCOLN</b>		
<i>Acipenser transmontanus</i>	White Sturgeon (Kootenai River Pop.)	LE
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Silene spaldingii</i>	Spalding's Campion	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>MADISON</b>		
<i>Spiranthes diluvialis</i>	Ute Ladies' Tresses	LT
<i>Lynx canadensis</i>	Canada Lynx	LT
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Thymallus arcticus</i>	Arctic Grayling (Upper Missouri River DPS)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>McCONE</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C

County/Scientific Name	Common Name	Status
<b>MEAGHER</b>		
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>MINERAL</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>MISSOULA</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Howellia aquatilis</i>	Water Howellia	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Coccyzus americanus</i>	Yellow-billed cuckoo (western pop.)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>MUSSELSHELL</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>PARK</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>PETROLEUM</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>PHILLIPS</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE, XN
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>PONDERA</b>		
<i>Charadrius melodus</i>	Piping Plover	LT
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C



County/Scientific Name	Common Name	Status
<b>POWDER RIVER</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>POWELL</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>PRAIRIE</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>RAVALLI</b>		
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Coccyzus americanus</i>	Yellow-billed cuckoo (western pop.)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>RICHLAND</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>ROOSEVELT</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>ROSEBUD</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<b>SANDERS</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<i>Silene spaldingii</i>	Spalding's Campion	LT
<b>SHERIDAN</b>		
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Grus americana</i>	Whooping Crane	LE
<i>Anthus spragueii</i>	Sprague's Pipit	C

County/Scientific Name	Common Name	Status
<b>SILVER BOW</b>		
<i>Salvelinus confluentus</i>	Bull Trout	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Thymallus arcticus</i>	Arctic Grayling (Upper Missouri River DPS)	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>STILLWATER</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>SWEET GRASS</b>		
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>TETON</b>		
<i>Ursus arctos horribilis</i>	Grizzly Bear	LT
<i>Lynx canadensis</i>	Canada Lynx	LT, CH
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C
<b>TOOLE</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>TREASURE</b>		
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>VALLEY</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Charadrius melodus</i>	Piping Plover	LT, CH
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>WHEATLAND</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<i>Gulo gulo luscus</i>	Wolverine	C
<i>Pinus albicaulis</i>	Whitebark Pine	C

County/Scientific Name	Common Name	Status
<b>WIBAUX</b>		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
<b>YELLOWSTONE</b>		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C

## Acronyms and Abbreviations

### Vegetation

The composition and distribution of plant communities in the planning area are influenced by many factors, including climate, elevation, topography, soils, drought, insects, fire, cultivation, invasive plants, livestock grazing, etc. As a result, a wide variety of plant communities occur, many of which play a role in providing habitat for sage-grouse whether as a main component of the habitat or as a seasonal component. The major plant communities providing sage-grouse habitat are further detailed below. These plant communities vary greatly in their relative ecological health as a result of stressors that influence the distribution and abundance of the plant components within the general community. Sage-grouse are a sagebrush obligate species and rely on a variety of sagebrush dominated communities to meet various needs throughout their lifecycle (Miller et al. 2011). In winter, sage-grouse feed almost exclusively on sagebrush leaves (Patterson 1952, Wallestad et al. 1975). A healthy vegetative understory complete with perennial grasses and a variety of forbs provide important components of nesting and brood rearing habitat (Barnett and Crawford 1994, Gregg et al. 1994). These vegetative communities also support a wide variety of insects which provide additional food sources for rearing habitat. Some plant communities play a role in seasonal habitat such as riparian areas, or in the case of annual grasses, or conifer stands, may influence the quality and abundance of habitat over time.

### Indicators

Acres of suitable sage-grouse habitat within pph/pgh

Acres and description of vegetation communities important to Sage-grouse within pph/pgh

Acres of cheatgrass potential within sage-grouse habitat in the planning area

Acres of conifer encroachment within sage-grouse habitat

### Conditions of the Planning Area

#### Northern Sagebrush- Steppe

Two major sagebrush biomes that provide sage-grouse habitat occur within the planning area. The Snake River Plain sagebrush biome makes up the vast majority of the habitat with a small portion of the Wyoming Basin biome on the eastern side of the planning area. These biomes are considered part of the northern sagebrush-steppe where sagebrush typically co-dominates with perennial bunchgrasses (Miller et al. 2011). Human alterations, uses and impacts coupled with natural variability (e.g., drought) have changed the extent, condition and distribution of sagebrush-steppe and the ecosystem services these biomes provide (Meinke et al. 2009); current sage-grouse range is estimated to be 56% of historic (pre-European settlement) distribution. Three of the fundamental characteristics of the sagebrush biome that have been altered from pre-settlement conditions include: (1) the total area of sagebrush shrublands has been reduced; (2) the composition and structure of sagebrush communities has been changed by diffuse forms of stress, including increased abundance and performance of invasive species and decreased abundance and performance of native species (3), fragmentation created by roads, power-lines, fences, energy developments, urbanization and other anthropogenic features. (Connelly et al. 2004). Much of the sagebrush-steppe occurring on private lands with deeper soils has been converted to agricultural croplands (Connelly et al. 2004). Intense, historic land-use in the late 19<sup>th</sup> and early 20<sup>th</sup> centuries, reduced the dominance of native grasses, trampled microbiotic crusts and encouraged expansion of Eurasian grasses (Anderson and Inouye 2001, Ponzetti et al. 2007, Root and

McCune 2012). These changes are most intense at low elevations near valley floors and may have disproportionate effect on sage-grouse populations reliant on these habitats during critical portions of the year (Leu and Hanser 2011).

Some portions of the planning area contain relatively in-tact sagebrush-steppe communities. Plant communities such as these are in good to excellent ecological condition and maintain adequate forb and perennial grass in the understory to provide habitat requirements for sage-grouse.

Data available for analysis in this effort are limited to general overstory vegetation classes of tall shrub (e.g. basin big sagebrush, Wyoming big sagebrush, mountain big sagebrush, etc.) and low shrub (e.g. black sagebrush, low sagebrush, etc.). This information can be further stratified based upon landscape characteristics to approximate the relative proportion of the various types of sagebrush plant communities. Data is not widely available concerning the relative ecological health of the plant communities within the project area.

### **Riparian and Wetlands**

Riparian vegetation includes plants that require higher amounts of available water supply than those found in adjacent upland areas and are generally associated with water courses and wet meadow areas. These plant communities are valuable for sage-grouse late summer brood rearing as they are where succulent forbs and insects would be available later into the summer when upland habitats are drying out and plants are moving toward summer senescence. These communities make up a small percentage of the vegetation in relation to other types but are quite important in providing the seasonal habitat mentioned.

### **Forest and Woodland**

This vegetation type is an element in sage-grouse management as conversion of sagebrush-steppe communities into conifer woodlands is a factor contributing to sage-grouse habitat decline in portions of the planning area. These plants also increase raptor perch sites, which makes sage-grouse more vulnerable to predation. Conifer expansion is generally attributed to fire suppression reducing fire frequency and allowing conifers to expand into riparian areas, shrublands, and grasslands. This conversion is mostly an issue in the mountain big sagebrush types where reduced fire frequency has allowed the invasion of juniper (Utah, Rocky Mountain or Western) and in some areas douglas-fir and pine may be expanding into shrub habitats.

### **Noxious weeds and Invasive Species**

Noxious weeds and invasive species include plants listed as “noxious” by state laws and also those plants known to be altering the dynamics of native plant communities either by replacing native plants through competition or altering some ecological process to the detriment of the native plant community such as in the case of annual bromes increasing fire frequency.

Specific noxious weeds causing localized impacts within the planning area include rush skeletonweed, leafy spurge diffuse knapweed, and spotted knapweed. Although not yet well established in the planning area, yellow starthistle is known to have a similar range as cheatgrass, and many of the areas currently supporting annual grass communities could support this noxious weed. Other weeds listed as noxious occur within the planning area but are not as widespread or impactful as those listed.

Invasion by exotic annual grass species has resulted in dramatic increases in number and frequency of fires with widespread, detrimental effects on habitat conditions (Young and Evans 1978, West and Young 2000, West and Yorks 2002, Connelly et al. 2004). Increased fire frequency typically results in removal of the sagebrush canopy in affected areas with replacement by annual species that provide little, to no, habitat value (Knapp 1996, Epanchin-Niell et al. 2009, Rowland et al. 2010, Baker 2011, Conden et al. 2011). Invasive annuals include numerous species of annual bromes, most notably cheatgrass (*Bromus tectorum*) as well as medusahead rye (*Taeniatherum caput-medusae*). An annual species that may be a threat in higher elevation communities providing sage-grouse habitat is ventenata (*Ventenata dubia*). Wyoming sagebrush plant communities are particularly susceptible to conversion to annual grasslands after fire when the understory contains higher densities of annual grass.

Once converted to exotic annual grasses, these plant communities have crossed a threshold that precludes their returning to traditional plant community composition through normal plant succession processes. These areas are essentially lost in their ability to provide sage-grouse habitat unless significant investment in restoration inputs are undertaken. Even then, these projects may fail if conditions do not exist for successful establishment of desired species. The potential for cheatgrass occurrence has been modeled, which can help discern locations and habitats that have the greatest risk of cheatgrass dominance after disturbance events such as fire. **Incorporate BER table 20 and perhaps figure 27 here.**

### **Modified Grasslands**

Some portions of the planning area that formerly were composed of sagebrush plant communities have been modified for various reasons and currently support introduced perennial bunchgrasses or in some cases a mixture of introduced and native bunch grasses. These communities can include common native forbs and over time may develop a sagebrush overstory. Introduced bunchgrasses that may inhabit these areas include numerous crested wheatgrass varieties (Fairway, Ephraim, Douglas, Nordan, Hycrest, etc.) as well as Siberian wheatgrass and in the case of higher precipitation zones pubescent or intermediate wheatgrass. In some cases these species were utilized in plantings to increase livestock forage, but they also have proven to be better adapted in competing with invasive annual grasses and can be utilized to reduce annual grass dominance. These plant communities provide habitat for sage-grouse when the overstory of sagebrush is re-established.

### **Permanent Conversion**

Within the planning area, portions have been permanently converted to uses that preclude them from providing sage-grouse habitat. This includes conversion to agricultural lands as well as development or urbanization. In much of the Snake River Plain, these lands were at one time supporting sagebrush plant communities.

### **Conditions on BLM-Administered Lands**

The most broad-scale way to describe habitat on BLM lands that is important to this planning effort is the overstory vegetation component. As described above, sage-grouse are a sagebrush obligate species so an overstory component of sagebrush is a good indicator of potential habitat. Perennial grasslands are also an important component to track as they are still capable of providing habitat, if the overstory of sagebrush is returned. Tracking the relative expansion or reduction in annual grass dominated lands is also a potential indicator of our success in protecting sage-grouse habitat. These broad-scale



vegetation types are currently being tracked through various efforts. Figure XX the Idaho sage-grouse habitat map reflects current conditions on all lands within the Idaho portion of the planning area within PPH and PGH. This planning map is developed utilizing Landfire v1.01 land cover dataset.

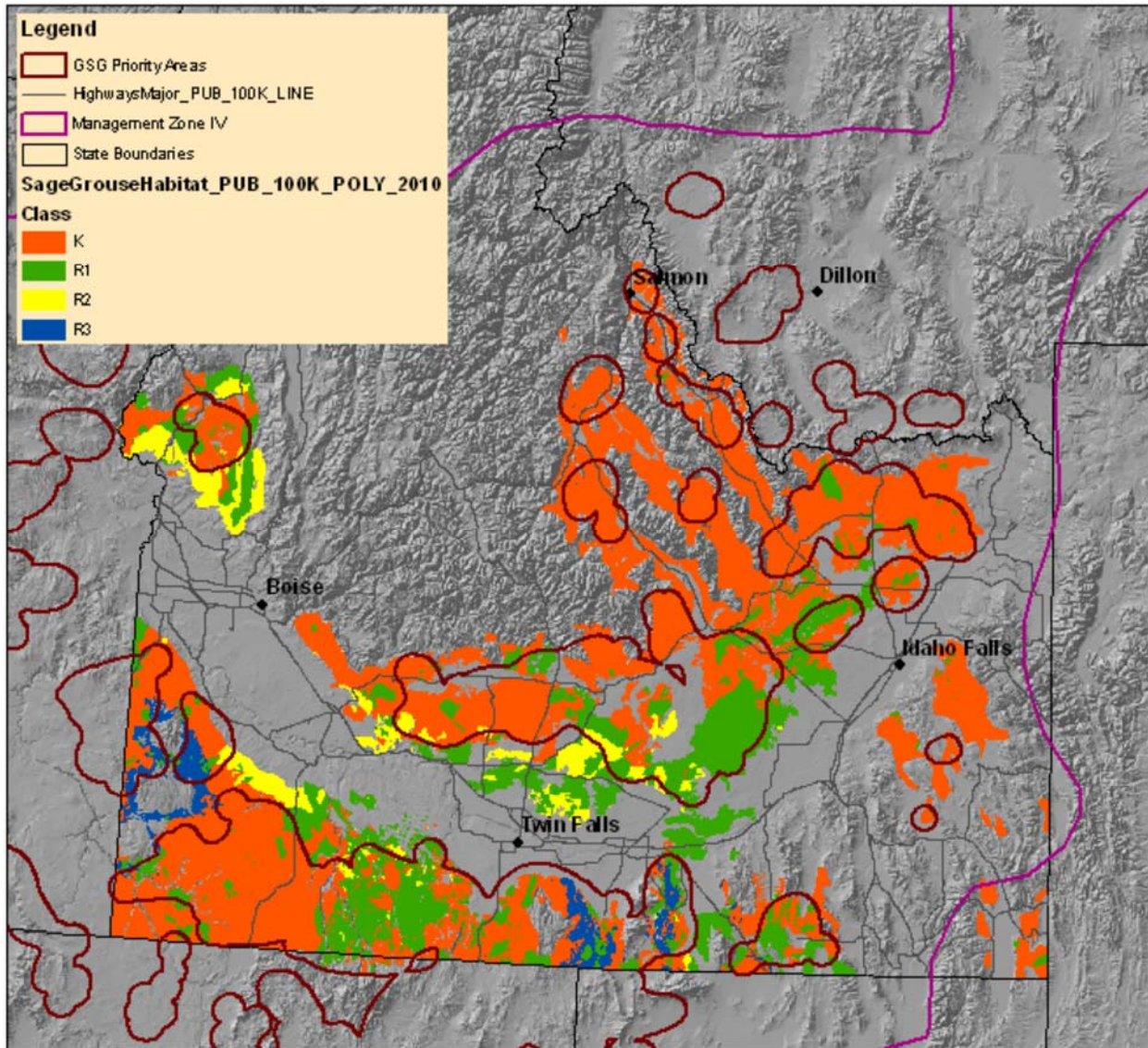


Figure XX – 2010 Idaho Sage-grouse Habitat Planning Map (BLM 2012). The red areas show key habitat (areas of generally in-tact sagebrush that provide habitat for sage-grouse at some point during the year). The green, yellow, and blue areas respectively show areas of perennial grassland, annual grassland and conifer encroachment restoration potential.

Table XX Details the acreages in each cover type for BLM and FS lands within the planning area.

**Table Error! No text of specified style in document.- I  
Acres of Vegetation Communities within PPH and PGS on BLM and FS Administered lands  
within the Planning Area**

Vegetation Type	PGH acres - FS	PGH acres - BLM	PPH Acres - FS	PPH Acres - BLM
Sagebrush	x	x	x	x
Low Sage				
Tall Sage				
Perennial Grass				
Annual Grass				
Conifer Encroachment				
Riparian				

#### Conditions on Forest Service-Administered Lands

Sagebrush communities on National Forest System lands are generally at higher elevations (e.g. above 6,000 feet), and are comprised primarily of mountain sagebrush community types (e.g. *Artemisia tridentata* var. *pauciflora*, *A. t.* var. *vaseyana*, *A. spiciformes*). The Curlew National Grassland is the exception, with the entire Grassland occurring at lower elevation with the dominant sagebrush as basin big sagebrush, (*Artemisia tridentata* var. *tridentata*)

Although some Forest Service units include Greater sage-grouse habitats that are used for wintering, breeding and nesting; the majority of Forest Service habitats more likely function as summer/brood-rearing habitat. Forest Service administered lands tend to be at the elevation periphery for sage-grouse. Habitats may be locally important because of the higher number and abundance of forbs that comprise the herbaceous layer in sagebrush dominated stands, which are important to sage-grouse during the late brood rearing period.

In general the plant communities and disturbance factors that influence them are the same on FS lands as on BLM lands. As a general rule, the lands under FS management playing a role in sage-grouse habitat tend to be on the higher end of the precipitation and elevational gradient. Therefore, the relative proportion of sagebrush plant communities on FS managed lands would be higher for the mountain big sagebrush plant communities, at the higher elevation and precipitation gradient, and lower for Wyoming big sagebrush plant communities which occur at the lower end of the precipitation range for big sagebrush. Due to the more resilient nature of mountain big sagebrush communities after disturbance, it is less likely they will be impacted by invasive annual grass and convert to annual grass plant communities.



## Trends

The main disturbance factors with the potential to alter vegetation providing sage-grouse habitat over a majority of the planning area include conversion to annual grassland following fire disturbance, modification of plant communities due to livestock grazing, and the potential impacts of climate change. To a lesser extent, some permanent conversion to agriculture or urbanization may occur, but typically these areas are already highly disturbed and not likely to be providing high-quality sage-grouse habitat.

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## WILD HORSES AND BURROS

The Wild Free-Roaming Horses and Burros Act of 1971 (WFRHBA), as amended by the Federal Land Policy and Management Act of 1976 and the Public Rangeland Improvement Act of 1978, directs the protection and management of wild horses and burros on public lands. Both the BLM and USFS have responsibility for managing Wild and Free Roaming Horses and Burros. Under the WFRHBA, the BLM identified herd areas (HAs) as places used as habitat by a herd of wild horses at the time the Act was passed. To carry out its duties under the 1971 law, the BLM periodically evaluates each HA to determine if it has adequate food, water, cover, and space to sustain healthy and diverse wild horse and burro populations over the long-term. The areas that meet these criteria are then designated as Herd Management Areas (HMAs), where horses or burros can be viably managed as a component of the public lands. The BLM designates an appropriate management level (AML) and specifies an allowable range in horse numbers for each HMA based upon available forage and other resources necessary to sustain the horse or burro populations, as well as resource objectives and other designated uses of the public lands.

Wild horse and burro management areas on USFS lands are called territories. However, no Active territories exist within the planning area. There are two Inactive territories in Idaho on the Challis NF. They no longer have any wild horses and are not shown on the National territory map.

### 3.2.1 Indicators

The indicator for Wild Horses and Burros include:

- Change in acres designated as HMAs or HAs;
- Change in AML within designated HMAs;
- Horse populations within HMAs

### Existing Conditions

Within the planning area, BLM manages six HMAs, all in the state of Idaho: four in the Boise District, one in the Twin Falls District, and one in the Idaho Falls District. Additionally, there are nine HAs within the planning area, five of which are in southwestern Montana, and four of which are in Idaho. The HMAs encompass approximately 378,070 acres of public lands, and support between 424 and 617 head of horses when populations are within AML. Approximately 551 horses are on public lands within these HMAs based upon current population estimates.

Herd Management Area	AML Range	Population Estimate
Black Mountain	30-60	55
Challis	185-253	185
Fourmile	60 <sup>2</sup>	65
Hardtrigger	66-130	141
Sands Basin	33-64	65
Saylor Creek	50 <sup>3</sup>	40
<sup>1</sup> Population estimates current as of November, 2012		

<sup>2</sup>

<sup>3</sup>AML not established, but is currently managed for 50 horses in accordance with the 1987 Jarbidge Resource Management Plan.

The USFS does not manage any wild horses or burros within the planning area.

**Acronyms**

AML – Appropriate Management Level

BLM - Bureau of Land Management

FLPMA - Federal Land Policy and Management Act of 1976

HA – Herd Area

HMA – Herd Management Area

PGH - preliminary general habitat

PL - Public Law

PPH - preliminary priority habitat

USFS – United States Forest Service

WFRHBA - Wild Free-Roaming Horses and Burros Act of 1971

## Chapter 3: FORESTRY AND WOODLAND PRODUCTS

The National Environmental Policy Act of 1969 (42.U.S.C. 4321-47; 83 Stat. 852; P.L. 91-190), the Federal Land Policy and Management Act of 1976 ( FLPMA) (943 U.S.C. 1701 et seq.; 90 Stat. 2743; P.L. 94-579), the Water Quality Act of 1987, as amended from the Federal Water Pollution Control Act (Clean Water Act) of 1977 (33 U.S.C. 1251 et seq.; 91 Stat. 1566-111; P.L. 95-217), the Endangered Species Act of 1973 (16 U.S.C. 809) , and the Archaeological Resources Protection Act of 1979 (16 U.S.C. 470a-47011) direct the protection and management of forest management and woodland products on public lands. The 1976 Act directs that public lands be managed on the basis of multiple use and sustained yield without the permanent impairment of the productivity of the land and the quality of the environment. In 1989, the Director approved a policy for guidance and management of forest vegetation on Public Lands administered under FLMPA. This guidance applies to those “forested” lands containing what is traditionally referred to as “timber lands”, capable of producing in excess of 20 cubic feet per acre per year; as well as “woodlands”, those forested lands producing less than 20 cubic feet per acre per year; and “other vegetative material” or those lands containing cactus and other salable vegetation which were not previously covered by management policy. Other salable vegetation includes Christmas trees and plant seed. BLM forest management policy and regulations are identified in the BLM Forestry Manual (Title 43 Code of Federal Regulations Part 5000) and the BLM Forestry Handbook (Title 43 Code of Federal Regulations Part 5400)

In the analysis area there are approximately: 368,000 acres of BLM forest land; 250,000 acres of BLM forest land (timberland) available for commercial management; 353,000 acres of BLM woodland; and 197,000 acres of BLM woodland available for commercial management.

### 3.2.1 Indicators

The indicators for Forestry and Woodland products include:

- Quantities of BLM commercial forest products sold per year from commercial timberlands.
- Quantity of BLM special forest product sold per year

In the analysis area, annual production of commercial product from timberlands has averaged approximately 2,877 MBF (thousand board feet) per year. Annual production of special forest products (wood) in the past ten years has averaged approximately: 4 MBF per year for sawtimber; 490 MBF for fuel wood; 8 MBF per year for fence posts; 11 MBF per year for fence poles; and 1 MBF per year for other wood products (such as mine timbers and teepee poles). Annual production of special forest products (non-wood) (such as Christmas trees) in the past ten years has averaged approximately 379 tickets per year.

*(Concept suggestion: GIS mapping compare BLM Idaho commercial forest acres and commercial woodland acres with sage grouse PPH acres and PGH acres in the analysis area.)*

## Chapter 3: Sage-grouse portion of Special Status Species. Working Copy

### Indicators

#### *Greater Sage-Grouse*

Stiver et al., (2010) provide a framework for assessing and conserving Greater Sage-Grouse habitats at hierarchical or nested spatial scales that correspond with four orders of habitat selection (Johnson 1980). Each scale encompasses particular aspects of habitat suitability, ecological processes and population dynamics, and are described as 1) broad-scale (rangewide distribution), 2) mid-scale (populations and sub-populations), 3) fine-scale (home ranges and associated seasonal habitats), and 4) site-scale (detailed vegetation characteristics within seasonal ranges). For purposes of subregional land use planning and this analysis, the mid-scale is the most appropriate focal extent since decisions arising from the various subregional plan amendments will collectively promote and complement the conservation of greater sage-grouse rangewide. Fine- and site-scales are more appropriately addressed at the activity planning or permit level, and beyond the scope of this analysis. Mid-scale habitat indicators include (adopted from Stiver et al. 2010):

- 1) Suitable habitat: The availability of sagebrush and sagebrush/grassland habitats within [or associated with] sage-grouse populations have connected mosaics that allow for dispersal movements across subpopulations. Anthropogenic disturbances that can disrupt dispersal or cause mortality are generally not wide-spread or are absent.
- 2) Marginal habitat: Marginal habitats within landscapes have patchy, fragmented or low quality sagebrush shrublands or are not well-connected for dispersal between portions of subpopulations. Anthropogenic disturbances that disrupt dispersal or cause mortality are common throughout all or portions of the landscape.
- 3) Unsuitable habitat: Includes former sagebrush shrubland habitat that has been converted to grasslands or woodlands or other land uses. These areas are unoccupied or nearly unoccupied by sage-grouse but have the potential to become occupied in the foreseeable future through plant succession or restoration.

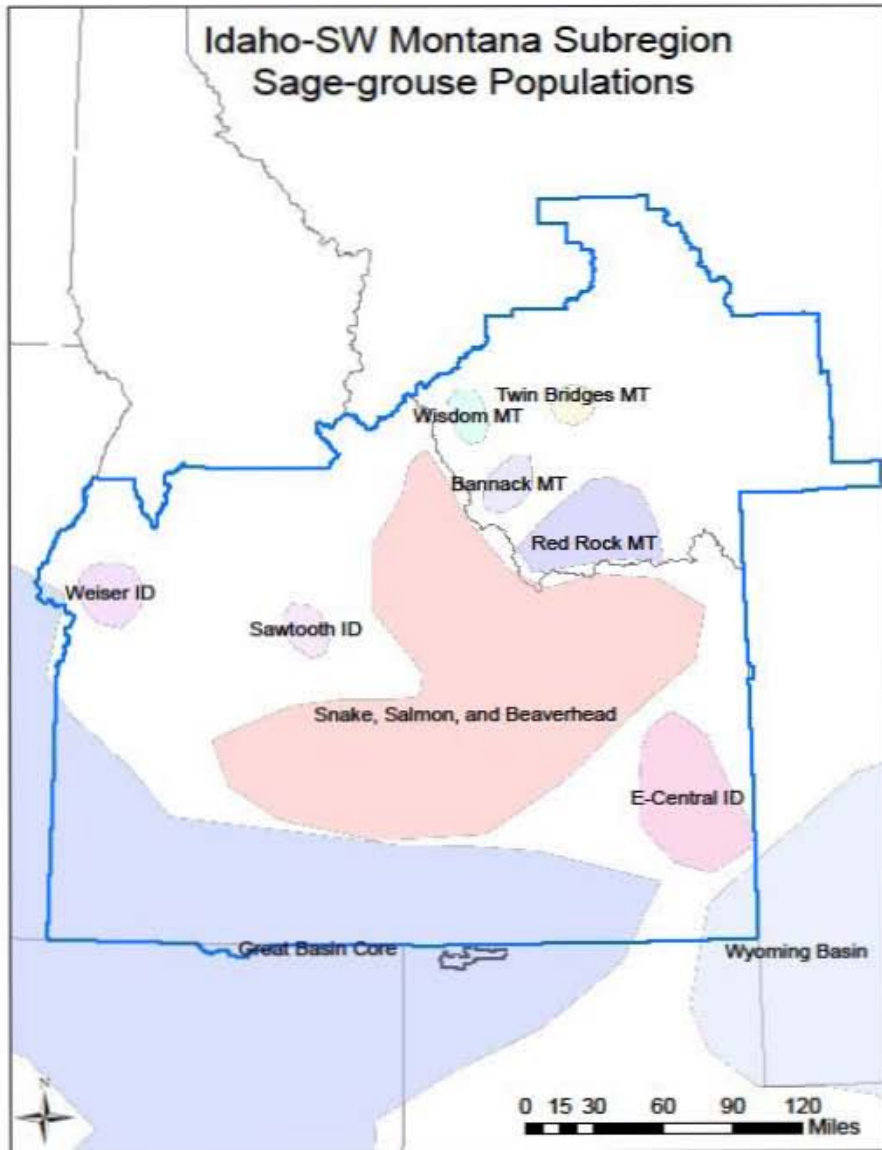
### Existing Conditions of the Planning Area

#### *Greater Sage-Grouse*

The vast majority of the Idaho/Southwestern Montana planning subregion lies within Western Association of Fish and Wildlife Agencies' Sage-grouse Management Zone IV (Stiver et al. 2006); a small portion of southeastern Idaho, occurs within MZ II and is associated with the Wyoming Basin population. Populations of sage-grouse in MZ IV are estimated to decline by 55% from 2007 to 2037, and by 66% in MZ II, if current trends in populations and habitat activities continue (USFWS 2010 citing Garton et al. 2011).

Within the subregion, greater sage-grouse occupy all or portions of ten populations described in Connelly et al (2004) (Figure 3.XX). Two populations (Great Basin Core, Wyoming Basin) encompass portions of adjacent states.

Figure 3.X. Idaho/Southwest Montana Subregion and Sage-grouse Populations (Connelly et al. 2004).



Minimum population estimates are not available for all sage-grouse populations due to limited data in some areas, however Garton et al. (2011) estimated a minimum male sage-grouse population in 2007 of 9,114 for the Northern Great Basin population (analogous to the Great Basin Core population and inclusive of habitats in ID and associated portions of NV, OR and UT), and 5,457 for the Snake-Salmon-Beaverhead population. Estimates for the Bannack and Red Rocks MT populations were 304 and 448 males respectively. Sage grouse in southwestern Montana are migratory, moving between separate summer and winter areas. Migratory movements of sage grouse also have been documented between eastern Idaho and southwest Montana from the Bannack and Red Rock populations. Telemetry data from 1999-2012 shows that seasonal movements - distance and duration - vary significantly between groups of sage grouse.

### *Availability of sagebrush habitat (Mid-Scale Indicator)*

The distribution of sage-grouse is closely aligned with the distribution of sagebrush-dominated landscapes (Schroeder et al. 2004). Occupancy by sage-grouse is strongly associated with measures of sagebrush abundance and distribution. Sagebrush area was the single best discriminator between occupied and extirpated ranges among 22 variables evaluated by Wisdom et al. (2011). In the subregion, large expanses of sagebrush still occur in portions of southwestern and southcentral Idaho, in association with the Northern Great Basin population shared with Nevada, Oregon and Utah, as well as in portions of the Snake-Salmon-Beaverhead population north of the Snake River.

In 2012 BLM completed the delineation of Preliminary Priority Habitat and Preliminary General Habitat rangewide in cooperation with respective State wildlife agencies. BLM national office Instruction Memorandum 2012-043 defined PPH as sage-grouse habitat having the highest conservation value to maintaining sustainable greater sage-grouse populations; PGH includes areas of occupied seasonal or year-round habitat outside of priority habitat (USDI BLM 2012). At finer scales, PPH and PGH encompass areas of in-tact sagebrush, suitable for sage-grouse habitat needs as well as areas of conifer encroachment and perennial grass dominated areas, generally occupied by grouse or potentially suitable for future restoration.

In Idaho, PPH/PGH was identified by BLM based on a model incorporating sage-grouse breeding bird density and lek connectivity models, informed with additional ancillary broadscale habitat data, seasonal habitat maps, connectivity information/expert opinion, population persistence model, local priority areas and agriculture/conifer filters (Makela and Major 2012).

In Montana, PPH was delineated based on Montana Fish, Wildlife and Park's prior modeling of sage-grouse Core areas using a lek-centric model based on male lek attendance and refined with seasonal habitat, telemetry, connectivity information and field review. Documentation for the Montana Core area analysis is summarized at:

[http://www.mt.nrcs.usda.gov/technical/ecs/biology/sagegrouse/sagegrouse\\_strategy\\_attachments/appendix1.html](http://www.mt.nrcs.usda.gov/technical/ecs/biology/sagegrouse/sagegrouse_strategy_attachments/appendix1.html). Montana PGH was mapped based on the Schroeder (2004) sage-grouse distribution map.

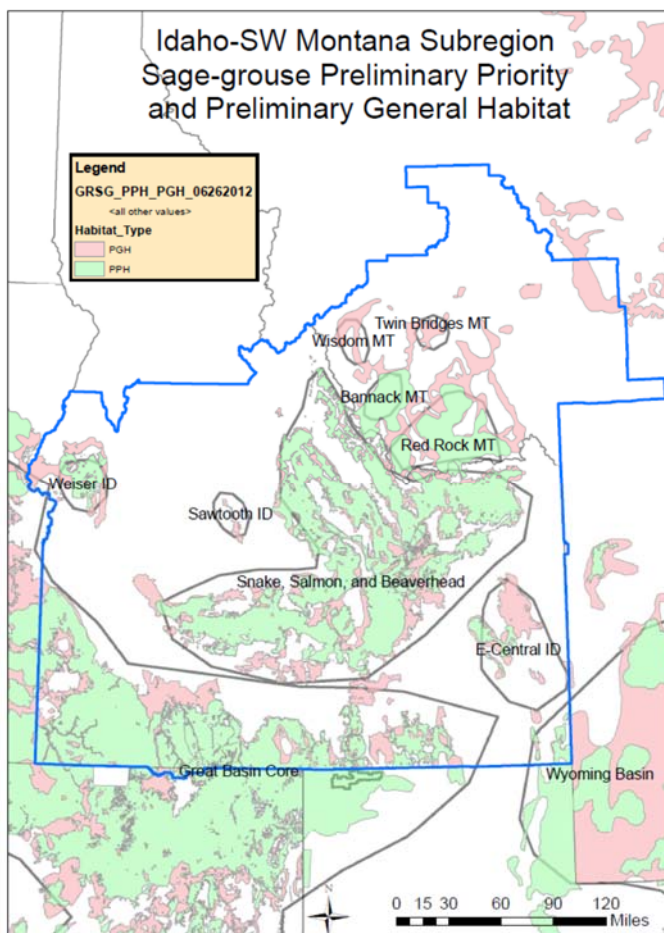
Sagebrush steppe habitat across southwest Montana consists of diverse species and multiple successional stages, providing for all life stages. Species or subspecies composition consists primarily of mountain big sagebrush, Wyoming big sagebrush, three-tip sagebrush, basin big sagebrush, and low sagebrush as well as multiple other species at lower densities. These occur in mixed as well as pure stands throughout



southwest Montanan. Tilling and aerial spraying over 12,000 acres in the 1960s and early 1970s reduced sagebrush canopy on large areas of public land, mostly in the Bannack Population. These areas were reseeded to non-native herbaceous species that further altered natural communities. Sagebrush canopy has recovered but the herbaceous understory composition is a mix of native species and non-native wheat grasses. Large areas of sagebrush in the DFO appear to provide suitable habitat for sage grouse but are unoccupied.

A general overview of PPH and PGH across the subregion is shown in figure 3.XX

Figure 3.XX. Idaho/Southwest Montana Sage-grouse Preliminary Priority and Preliminary General Habitat and Populations.

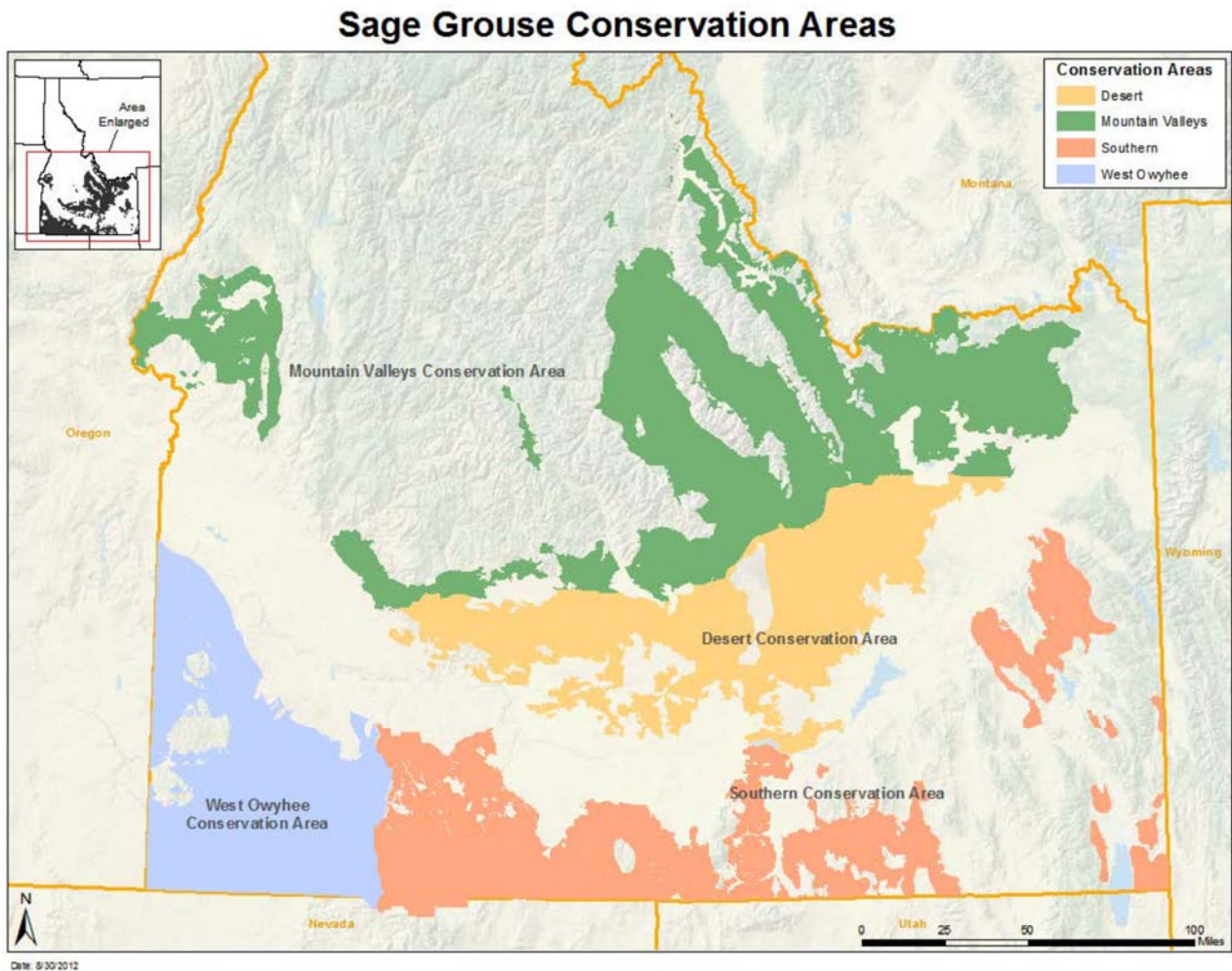


In 2012, the State of Idaho Governor’s Sage-grouse Task Force identified four relatively broad-scale sage-grouse “Conservation Areas” (CAs) in the state, that reflect general habitat or threat similarities (Figure 3.XXX) (Idaho Governor’s Task Force 2012). These CAs including the West Owyhee, Southern, Mountain Valleys, and Desert, are useful for readily summarizing habitat geographically in Idaho, given the number of both large and small populations involved. The four identified sage-grouse populations in southwestern Montana, however, occupy comparatively smaller geographic areas, and for this analysis were aggregated. Due to differences in mapping scales and approaches used in delineating sage-grouse

populations (Connelly et al. 2004, Garton et al. 2011) and PPH/PGH, habitats in the subregion occur both within as well as outside of the mapped population areas. In this analysis for the existing environment, all PPH or PGH associated with or near the relevant populations/analysis areas were included.

Based on GIS analysis, there are approximately 17,744,445 acres of PPH and PGH, inclusive of all land ownerships in the subregion analysis area (Table 3.X). This is inclusive of habitats in Idaho, southwestern Montana, and small portions of northern Nevada and Utah administered by Idaho BLM and the Sawtooth National Forest, respectively. Overall, within the subregion amendment area, BLM administers approximately 63% of PPH and 38% of PGH. The US Forest Service administers approximately 8% of PPH and 16% of PGH.

Figure 3.XXX. Idaho Sage-grouse Conservation Areas (Idaho Governor’s Sage-grouse Task Force 2012).



**Table 3.X.** Acres of greater sage-grouse habitat by analysis area and population, within the Idaho/Southwestern Montana planning subregion.

<b>Analysis Area</b>	<b>Population (Connelly et al. 2004) Associated with the Analysis Area</b>	<b>Acres PPH by Ownership in Analysis Area</b>	<b>Acres PGH by Ownership in Analysis Area</b>	<b>Acres PPH and PGH Combined by Ownership in Analysis Area</b>
<b>Idaho- West Owyhee</b>	Great Basin Core	BLM 1,803,286	BLM 428,485	BLM 2,231,771
		USFS 0	USFS 0	USFS 0
		OTHER 499,820	OTHER 123,069	OTHER 622,889
		SUM 2,303,106	SUM 551,554	SUM 2,854,660
<b>Idaho- Southern</b>	G. Basin Core, E. Central Idaho, Bear Lake Plateau portion of the Wyoming Basin	BLM 1,402,700	BLM 514,177	BLM 1,916,877
		USFS 244,582	USFS 214,494	USFS 459,076
		OTHER 645,589	OTHER 705,902	OTHER 1,351,491
		SUM 2,292,871	SUM 1,434,573	SUM 3,727,444
<b>Idaho- Desert</b>	Snake/Salmon/Beaverhead	BLM 1,536,098	BLM 436,224	BLM 1,972,322
		USFS 3,385	USFS 809	USFS 4,193
		OTHER 580,584	OTHER 601,431	OTHER 1,182,015
		SUM 2,120,067	SUM 1,038,464	SUM 3,158,530
<b>Idaho- Mountain Valleys</b>	Snake/Salmon/Beaverhead, Sawtooth, Weiser	BLM 2,271,972	BLM 589,948	BLM 2,861,920
		USFS 509,473	USFS 452,246	USFS 961,719
		OTHER 1,036,335	OTHER 478,196	OTHER 1,514,531
		SUM 3,817,780	SUM 1,520,390	SUM 5,338,170

<b>Analysis Area</b>	<b>Population (Connelly et al. 2004) Associated with the Analysis Area</b>	<b>Acres PPH by Ownership in Analysis Area</b>	<b>Acres PGH by Ownership in Analysis Area</b>	<b>Acres PPH and PGH Combined by Ownership in Analysis Area</b>
<b>Utah- Admin by Sawtooth Nat. Forest</b>	G. Basin Core	BLM 0 USFS 72,066 OTHER 0 SUM 72,066	BLM 0 USFS 0 OTHER 0 SUM 0	BLM 0 USFS 72,066 OTHER 0 SUM 72,066
<b>Montana- BLM Dillon Field Office and Beaverhead National Forest</b>	Bannack Red Rocks, Wisdom, Twin Bridges	BLM 458,880 USFS 165,003 OTHER 724,951 SUM 1,348,834	BLM 221,568 USFS 236,104 OTHER 787,069 SUM 1,244,741	BLM 680,448 USFS 401,107 OTHER 1,512,020 SUM 2,593,575
<b>TOTALS</b>  <b>For Amendment area. Not inclusive of Butte Field Office, MT</b>	N/A	<b>BLM 7,472,936 (63%)</b> <b>USFS 994,509 (8%)</b> <b>OTHER 3,487,279 (29%)</b> <b>SUM 11,954,724</b>	<b>BLM 2,190,402 (38%)</b> <b>USFS 903,653 (16%)</b> <b>OTHER 2,695,667 (47%)</b> <b>SUM 5,789,722</b>	<b>BLM 9,663,338 (55%)</b> <b>USFS 1,898,161 (11%)</b> <b>OTHER 6,182,946 (35%)</b> <b>SUM 17,744,445</b>
<b>Butte Field Office.</b>  <b>Within Subregion boundary but LUP not being amendmend. Information is for cumulative purposes only.</b>	Belt Mountains and adjacent areas.	BLM 0 USFS 0 OTHER 0 SUM 0	BLM 25,825 USFS 496 OTHER 394,408 SUM 420,729	BLM 25,825 USFS 496 OTHER 394,408 SUM 420,729

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Acres PPH by Ownership in Analysis Area	Acres PGH by Ownership in Analysis Area	Acres PPH and PGH Combined by Ownership in Analysis Area
<b>TOTALS Within Subregion and inclusive of Butte Field Office</b>	N/A	BLM 7,472,936 (63%)	BLM 2,216,227 (36%)	BLM 9,689,163 (53%)
		USFS 994,509 (8%)	USFS 904,149 (15%)	USFS 1,898,657 (10%)
		OTHER 3,487,279 (29%)	OTHER 3,090,075 (50%)	OTHER 6,577,354 (36%)
		SUM 11,954,724	SUM 6,210,451	SUM 18,165,164

***Habitat conditions and trends***

The general condition and trend of habitats on BLM and FS administered lands varies by geographic area within the subregion, and is a result of various threats that are currently occurring or that have occurred historically.

In Idaho, nineteen threats to sage-grouse were ranked by an independent science panel and addressed in the *Conservation Plan for the Greater Sage-grouse in Idaho* (Idaho Sage-grouse Advisory Committee 2006). Highest ranking threats, in order of relative score, included wildfire, infrastructure, annual grasslands, livestock impacts, human disturbance and West Nile virus. Additional habitat-associated threats of concern in portions of southern Idaho included conifer encroachment, seeded perennial grasslands, sagebrush control, urban and exurban development, and mines, landfills and gravel pits. In 2012, the Idaho Governor’s Sage-grouse Task force reiterated concerns about wildfire, invasive species and infrastructure, as well as recreation, improper livestock grazing and West Nile virus (Idaho Governor’s Sage-grouse Task Force 2012). Landscape conditions and trend of BLM and FS lands in the subregion are summarized in Table 3.XXX.

Table 3.XXX. Habitat conditions, trends and primary threats to sage-grouse habitat in the Idaho/Southwestern Montana planning subregion.

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
<b>Idaho- West Owyhee</b>	Great Basin Core	<p>Large, intact areas of native sagebrush are present, and contiguous with Nevada and Oregon</p> <p>Relatively low level of infrastructure development</p> <p>Constitutes the largest remaining intact sagebrush area in the subregion.</p> <p>Trend is that wildfires continue to impact sagebrush acreage but at a smaller scale and frequency than other areas. Juniper control efforts by BLM and others likely are not keeping pace with expansion.</p>	N/A	<p>Wildfire</p> <p>Juniper encroachment in the western portion</p> <p>Invasives (cheatgrass, mainly)</p> <p>Infrastructure associated with proposed new transmission lines.</p> <p>Potential for wind energy development in higher elevations such as the Owyhee Mountains.</p> <p>Potential for geothermal energy development in the Bruneau Field Office.</p>
<b>Idaho- Southern</b>	G. Basin Core, E. Central Idaho, Bear Lake Plateau portion of the Wyoming Basin	<p>Lower elevation, drier Wyoming big sagebrush habitats are fragmented heavily in many areas due to frequent large wildfires.</p> <p>Cheatgrass poses a risk in most lower elevations.</p> <p>Higher elevation, mountain big sagebrush sites are generally in good condition.</p> <p>Portions contain large perennial grasslands</p>	<p>Habitats are higher elevation mountain big sagebrush, in relatively good condition, however, they are smaller, fragmented, disjunct, fringes of sagebrush with steeper slopes interspersed between other habitat types.</p> <p>High to moderate risk of near term infrastructure development due to interest in wind energy.</p>	<p>Wildfire poses a substantial threat. Significant acreages within the Jarbidge Field Office, in particular, have burned in the past two decades.</p> <p>High interest in wind development on higher elevation BLM and FS lands (e.g., Cotterel, South Hills, S. Twin Falls County, Pocatello/ American Falls etc.).</p>

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
		<p>pending recovery of sagebrush.</p> <p>Trend is toward continuing, rapid loss of sagebrush at relatively large scales in the western portion due to wildfire.</p>	<p>Trend in habitat condition (sagebrush) is relatively stable due to lower frequency and smaller scales of wildfires. However, while less frequent, a trend toward larger wildfires in sagebrush (when they occur) has continued during the last decade.</p>	<p>Urban expansion; potential for oil/gas development in the Bear Lake Plateau.</p> <p>Conifer encroachment, mainly Utah juniper, in the Burley Field Office.</p> <p>Cheatgrass expansion in lower elevations (i.e., Wyoming big sagebrush.</p> <p>Juniper encroachment is considered a primary threat in many locations on FS lands south of the Snake River.</p>
<b>Idaho- Desert</b>	Snake/Salm on/ Beaverhead	<p>Substantial portions of the Big Desert and Minidoka Desert areas have burned in the past two decades due to large scale, fast-moving wildfires. Some large areas of sagebrush remain in the western and northern portions, but are at risk of wildfire.</p> <p>Most Wyoming big sagebrush habitats are at risk of cheatgrass expansion though some intact areas remain.</p> <p>The trend is for continued rapid loss of large acreages of sagebrush and recent restoration efforts, due to</p>	N/A. Minimal FS lands involved.	<p>Wildfire poses a significant risk to all habitats in the area.</p> <p>Cheatgrass in lower elevation habitats is at risk of advancing or proliferating following wildfire.</p> <p>Infrastructure development, mainly from proposed transmission lines poses a risk, generally near the fringe of PPH and PGH.</p> <p>There is some potential for geothermal development in portions of the Shoshone Field Office.</p>



Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
		continuing wildfires.		
<b>Idaho-Mountain Valleys</b>	Snake/Salmon/Beaverhead, Sawtooth, Weiser	<p>Sagebrush habitats including both lower and higher elevations, are generally in-tact and at lower risk of invasives and wildfire.</p> <p>In the northern portion (e.g., Challis, Salmon Field Offices, understories of Wyoming big sagebrush habitats have shifted in some areas to predominance by Sandberg’s bluegrass in past decades. Trend is static in the absence of restoration seeding efforts. Higher elevation areas are generally in-tact, though may be at risk to encroachment by Douglas-fir.</p> <p>In the eastern portion (Upper Snake area) mountain big sagebrush may be exceeding desired densities in some areas, although there is also concern to retain sagebrush due to losses elsewhere.</p> <p>In the western portion (Weiser area) there is a relatively isolated sage-</p>	<p>Higher elevation lands are typically more resilient, and generally in-tact.</p> <p>Conifer encroachment is a threat in areas adjacent to conifer forests such as Douglas-fir and juniper.</p>	<p>Recreation and Travel Management are of concern due to high interest in recreational pursuits.</p> <p>Infrastructure development, mainly transmission, poses as risk. Habitats in the Challis/Salmon portion also tend to be more linear in configuration due to the orientation of associated mountain ranges and valleys. Impacts from infrastructure development, roads etc., could be more concentrated as a result.</p>



Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
		grouse population facing rapid exurban expansion, interest in gas and geothermal development and wildfire risk.		
<b>Utah- Admin by Sawtooth Nat. Forest</b>	G. Basin Core	N/A.	Sagebrush habitats are generally composed of mountain big sagebrush and low sagebrush. Understories are generally intact and include native grasses and forbs. Cheatgrass in lower elevation habitats is at risk of advancing or proliferating following wildfire.	Pinyon-Juniper encroachment is considered a primary threat in many locations on FS and private lands.  Interest in wind development on higher elevation BLM and FS lands
<b>Montana- BLM Dillon Field Office and Beaverhead National Forest</b>	Bannack Red Rocks, Wisdom, Twin Bridges	Diverse habitat conditions are present and are widely interspersed across various ownerships. In areas that were of tilled, sprayed and seeded, sagebrush canopy has recovered but the herbaceous understory composition is a mix of native species and non-native wheat grasses. There has been little disturbance in sagebrush canopy cover in the last 40 years the field office. Over all habitat conditions are improving due to changes in livestock management in	Pending Beaverhead-Deerlodge NF input	Wildfire, (Acres lost to wild fire in the past 50 years has been minimal, but the treat is ever present.)  Invasive plant species (primarily along travel corridors - spotted knapweed, leafy spurge, hounds tongue and some cheatgrass)  Conifer colonization in to sagebrush steppe habitat (primarily Douglass Fir)  Infrastructure/Anthropogenic disturbances, (fences, roads, power lines, pipelines)

Analysis Area	Population (Connelly et al. 2004) Associated with the Analysis Area	Landscape Conditions and Trends on BLM Lands	Landscape Conditions and Trends on FS Lands	Primary Threats <sup>a</sup>
		the past ten years as well.		<p>Improper grazing</p> <p>Habitat conversion for agricultural needs on private lands.</p> <p>energy/mineral exploration and development,</p>
<p><b>Butte Field Office.</b></p> <p><b>Within Subregion boundary but LUP not being amended.</b></p>	<p>Belt Mountains and adjacent areas.</p>	<p>Historically, this species was present, but not documented breeding since 1992. Habitat is present but sparse.</p> <p>The Big Belts are an isolated mountain range on the east side of the Missouri River adjacent to Canyon Ferry reservoir. Foothills are drier with scattered Rocky Mountain juniper and limber pine and a variety of shrubs on some sites. At the lowest elevations the habitat is dominated by grasslands and scattered big sagebrush. Many of these habitats have been converted to dry land grain production and irrigated cropland</p>	<p>Following is per MT BLM. Pending Beaverhead-Deerlodge NF input</p> <p>Timber harvest has occurred throughout this area, particularly on the north end. There are high road densities in some locations.</p> <p>Fire suppression has led to an increase in forest density and high insect populations as well as colonization of shrublands by juniper and Douglas-fir.</p> <p>The area is dominated by livestock grazing.</p> <p>Many private ranches have sold and subdivided their land.</p>	<p>Habitat fragmentation from urban development and roads.</p> <p>Wildfire</p> <p>Douglas-fir and juniper colonization of sagebrush stands.</p> <p>Invasives (mainly Dalmatian toadflax, spotted knapweed and leafy spurge)</p> <p>Livestock grazing</p> <p>Fences</p> <p>Potential oil and gas development from Birch Creek to Deep Creek, in the Mount Baldy area and the Horseshoe Hills.</p>

<sup>a</sup> Sources: Conservation Plan for the Greater Sage-grouse in Idaho (Idaho Sage-grouse Advisory Committee (2006), Idaho Governor’s Sage-grouse Task Force (September 5,2012 Version)

Federal Alternative for Greater Sage-grouse Management in Idaho, Management Plan and Conservation Strategies for Sage Grouse in Montana (2005), Dillon Resource Management Plan (2006), Butte resource Management Plan (2009), and interdisciplinary team expert opinion.

## Wildland Fire Management

The wildland fire management program encompasses the full range of hazardous fuels, an appropriate preplanned response to unplanned ignitions of wildland fires, and the rehabilitation of lands affected by these unplanned ignitions.

The wildfire suppression program utilizes a coordinated effort to respond to all unplanned ignitions (wildfire) with a preplanned, appropriate response. Each response is guided by resource management plan and fire management plan direction. As the severity and number of wildfires escalates, the further response and prioritization of fire suppression resources becomes a collaborative effort between field, district, and state managers working closely with interagency partners.

Analyzing fire occurrence and drawing any direct or indirect correlation between supplied data is a far from perfect science. Some generalizations can be roughly interrupted such as an average length of fire season in days for current districts, the number of fires that could be reasonably expected annually, and the number of acres that are burned on an average year.

Trend analysis of fire starts and acres burned in the sage steppe ecosystem is very general and dependent predominately upon weather and fuels conditions. The relative fuel conditions of live fuel moistures and fine fuel loadings coupled with weather conditions such as relative humidity, wind speed, and days since last rainfall drive large fire growth in the grass fuel type.

Fire occurrence is weighed towards human causes, especially around urban centers and along major highway corridors. (insert/provide ID BLM fire occurrence map, showing both human and lightning starts??) However, lightning is the major contributor to multiple large fire days and high numbers of BLM acres burned. Lightning storms generally track from Southwestern towards Eastern Idaho, leaving successive lightning starts across all three southern districts, often times in remote or difficult to reach areas. These lightning events are commonly associated with strong winds which contribute to rapid large fire growth. Summer storms commonly lack significant rainfall. It should be reasonably expected that the majority of large fire days correspond to high percentile BI days.

Since 2006, emphasis upon the protection of sage-grouse habitat during suppression actions has taken center stage in planning and operational discussions. High numbers of PPH and PGH acres were burned in 2007 and 2012. XXX PPH and XXX PGH acres have been burned from 2006 through 2012. Again, the majority of these acres were burned during corresponding high BI days or periods.

Burning Index (BI)--A number related to the contribution of fire behavior to the effort of containing a fire. The BI is an index that rates fire danger related to potential flame length over a fire danger rating area.

<b>Historical Large Fires (300 Acres and Greater) 1980 to 2012</b>			
	Average Date of First Large Fire Per Year	Average Date of Last Large Fire Per Year	Average Days Between First and Last Large Fires
Boise District	6/12	9/18	96
Idaho Falls District	7/13	9/10	57
Twin Falls District	6/26	10/2	96

<b>BLM Fire Data 1980 to 2012</b>					
		Fires	BLM Acres Burned	Non-BLM Acres Burned	Total Burned Acres
Fires Occurring on BLM Lands and Suppressed by BLM	Human	3,373	1,140,029	525,949	1,665,978
	Natural	2,728	4,610,547	1,198,145	5,808,693
	Totals	6,101	5,750,577	1,724,095	7,474,672
Fires Threatening BLM Lands Where Action is Taken By BLM to Prevent Spread to BLM	Human	1,792	341,094	246,680	587,774
	Natural	522	53,783	203,884	257,667
	Totals	2,314	394,877	450,564	845,441
Total Fires Affecting BLM Acres		9,623	6,249,279	2,183,453	8,432,732

## Fire Regime Condition Class:

### Natural Fire Regime:

A natural fire regime is a general classification of the role fire would play across a landscape without

modern human mechanical intervention.<sup>1,2</sup> The five natural fire regimes are classified based on average

number of years between fires (fire frequency) combined with the severity of the fire on the dominant

overstory vegetation (amount of vegetation replacement). These five regimes include:

I – 0 to 35 year frequency and low (surface fires most common) to mixed (less than 75% of the dominant overstory vegetation replaced) severity;

II – 0 to 35 year frequency and high severity (greater than 75% of the dominant overstory vegetation replaced);

III – 35 to 100+ year frequency and mixed severity (less than 75% of the dominant overstory vegetation replaced);

IV – 35 to 100+ year frequency and high severity (greater than 75% of the dominant overstory vegetation replaced);

V – 200+ year frequency and high severity (greater than 75% of the dominant overstory vegetation replaced).

### Fire Regime Condition Class (FRCC):

A fire regime condition class (FRCC) is a classification of the amount of change in fire

frequency and severity from the natural fire regime.<sup>3</sup> The three classes are based on low (FRCC

1), moderate (FRCC 2), and high (FRCC 3) change from the natural fire regime.<sup>4,5</sup> The change in natural fire regime results from changes to one or more of the following fire regime attributes:

Vegetation characteristics (i.e., species composition, structural stages, stand age, canopy closure, and mosaic pattern); Fuel composition; Fire frequency, severity, and pattern; and Other associated disturbances (e.g., insect and diseased mortality, grazing, and drought).

Characteristic vegetation and fuel conditions are considered to be those that occurred within the natural fire regime. Uncharacteristic conditions are considered to be those that did not occur within the natural fire regime. Examples of uncharacteristic conditions include invasive species (e.g. weeds, insects, and diseases) or excessive vegetation removal. The amount of change is based on comparison of the fire regime attributes as identified above to the natural fire regime. The amount of change is then classified to determine the FRCC.

<sup>1</sup> Agee, J.K. 1993. Fire ecology of Pacific Northwest Forests. Island Press, Wash. DC. <sup>2</sup> Brown, J.K. 1995. Fire regimes and their relevance to ecosystem management. Pages 171-178 *In* Proceedings of Society of American Foresters National Convention, Sept. 18-22, 1994, Anchorage, AK. Society of American Foresters, Wash. DC. <sup>3</sup> Hann, W.J., Bunnell, D.L. 2001. Fire and land

management planning and implementation across multiple scales. *Int. J. Wildland Fire*. 10:389-403. <sup>4</sup> Hardy, C.C., Schmidt, K.M., Menakis, J.M., Samson, N.R. 2001. Spatial data for national fire planning and fuel management. *International Journal of Wildland Fire* 10:353-372. <sup>5</sup> Schmidt, K.M., Menakis, J.P. Hardy, C.C., Hann, W.J., Bunnell, D.L. 2002. Development of coarse-scale

spatial data for wildland fire and fuel management. General Technical Report, RMRS-GTR-87, U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO.

### **Current Conditions:**

The Hazardous Fuels Reduction Program (HFR) involves a variety of treatments to modify vegetation to provide for firefighter safety, reduce the potential of wildfire spread, reduce the detrimental effects of wildfire on a landscape, protect private holdings and infrastructure, and decrease the costs of rehabilitation efforts after a wildfire has occurred. Depending on the specifics of the overall project, multiple treatment types may be involved over several years to obtain the specifications for the project. One example of this would be: For an annual grass dominated area, prescribed fire will be used to remove existing layers of the annual grass and reduce the seed source. Chemical application(s) would be utilized to further reduce the seed source and the resulting new annual grass plants. Mechanical seeding(s) of perennial (native or non-native, grass/shrub/forb) mixtures would occur, pending the most successful time of year for application(s).

### ***Examples of treatment types:***

**Prescribed Fire (Treatment)** – An HFR Treatment Category for any fire ignited by management actions to meet specific objectives and to achieve Fire Management Plans.

**Mechanical (Treatment)** – An HFR Treatment Category that describes work that manually or mechanically removes or modifies fuel load structures to achieve Fire Management Plans.

**Other (Treatment)** – An HFR Treatment Category that describes work involving the use of chemicals and biological methods to achieve Fire Management Plans.

In Idaho, the HFR Program has been in place since the start of the 2000 National Fire Plan identified the need and funding source to develop and maintain the program. Within the last 5 years, which would represent the most current treatments on the existing landscape, the following acreage and types of treatments are shown below. The prescribed fire acreages have decreased from historical levels due to multiple large scale wildfires accomplishing the removal of undesirable vegetation in areas planned for future projects. Mechanical treatments have increased in, both, seeding and mechanical reductions of conifer encroachment throughout PPH and PGH areas. The use of chemical or “Other” types of treatments has grown to increase the probability of success of seeding(s) of perennial (native or non-native, grass/shrub/forb) mixtures by removing the dominance and competitiveness of the undesirable annual grass and weed species. Biological or “Other” treatments (insects, goat, specific pathogens) have recently been of interest in very specific areas due to the “high risk” in areas that may have significant values should accidents occur during implementation of mechanical treatments (rocks, windows, etc.).

## **Trends:**

### **Treatment type and acreages over the past 5 years:**

**Prescribed Fire:** 2008-11,199 acres, 2009- 8,647 acres, 2010- 7,189 acres, 2011- 6,398 acres, 2012- 3,021 acres.

**Mechanical:** 2008- 46,073 acres, 2009- 38,992 acres, 2010- 33,975 acres, 2011- 30,987 acres, 2012- 30,725 acres.

**Other:** 2008- 59,003 acres, 2009- 47,991 acres, 2010- 36,500 acres, 2011- 39,895 acres, 2012- 71,666 acres.

Over the past few years, the focus of the HFR program was to treat acreages within the Wildland Urban Interface (WUI). This was specific to protecting private in-holdings in the attempt to decrease the detrimental effects of wildfire to human structures and the associated infra-structure for the communities. Direction was to focus the majority of expenditures in the WUI and expend minimal amounts on landscape level treatments. Budgetary erosion and increased costs are forcing decisions in the fire management arena to decrease the capability of the proactive HFR program to maintain the reactive suppression and rehabilitation efforts. If this trend continues it is forecasted that the HFR program will be non-existent by 2018. The side effects of this trend is that areas, regardless of ownership, would be left untreated or maintained and landscapes will have minimal treatments to: Reduce fire growth in areas of conifer encroachment, invasive annual grasses and weeds, habitats of concerned species, watersheds of communities and fuel breaks to compartmentalize fire growth.



## Emergency Stabilization and Rehabilitation (ES&R)

Alteration to the historic fire regime has substantially reduced the sagebrush steppe communities of the Sub Unit and the larger Great Basin. The exclusion of wildfire within the upper elevations shrub steppe communities (primarily mountain big sagebrush) has converted approximately XXX acres of sage-grouse habitat into juniper woodland.

The greatest loss of sage-grouse habitat however has been from cheatgrass proliferation and wildfire within the lower elevation sagebrush communities (primarily Wyoming big sagebrush). Historically, wildfire was not a common occurrence on these sites. Current literature estimates the fire interval at approximately 100 years. Historically, these sites are believed to have consisted of perennial bunch grasses, scattered sagebrush, and biologic soils crusts which armored and protected the soil. The discontinuous fuels provided by these life forms did not lend themselves to extensive fires. When these sites did burn, the fires were typically small and discontinuous.

In the late 1800's, unregulated livestock grazing allowed cheatgrass and other inadvertently introduced exotic annual grasses to be occupying these disturbed areas. The uniform fine fuels which dry out early in the growing season make these grasses highly flammable, resulting in more frequent and extensive wildfires. Frequently, fires were set deliberately by sheep herders to provide early spring cheatgrass forage for lambs. Each recurring fire set the stage for further cheatgrass expansion, resulting in an ever increasing cheatgrass/fire cycle and loss of sage-grouse habitat. The exponential increase in fires throughout the last century has converted XXXX % of the Sub Unit into a fire maintain annual grass dominated landscape. In much of this area, fire-return intervals have been shortened to between two and four years (Whisenant 1990).

Most of the subunits lower elevation shrub steppe communities (even those containing minimal cheatgrass understories) will cross a threshold into fire maintained cheatgrass dominated communities unless they are successfully rehabilitated within the first couple years following wildfire. Such areas are also highly susceptible to noxious weed invasion. Therefore, successfully reestablishing perennial vegetation within this narrow time frame is essential for reducing the loss of low elevation sage-grouse habitat.

Fire rehabilitation consists of mitigating damaging effects from wildfire and in restoring vegetative structure and function to recently burned fire damaged areas which cannot recover on their own. These efforts consist primarily of seeding perennial grasses, shrubs, and forbs. Seeding technique are based largely on seed size. Most grasses (which have relatively large seeds) are drill seeded to effectively cover the seed, whereas sagebrush and many forbs (which consist of small seeds) are most successful broadcast seeded.

Drought and invasive annual grass competition are the two biggest challenges to reestablishing perennial vegetation following wildfire on the low elevation sites. Seedings are most successful during years of adequate precipitation and on sites where cheatgrass competition is minimal such as recently burned sagebrush stands in good condition, or sagebrush stands with cheatgrass in the understory which burn hot enough consume cheatgrass seed lying on the soil

surface underneath the sagebrush canopy. The higher the density of sagebrush cover prior to the burn, the greater the likelihood for seedings success. Because sagebrush fires burn hotter and slower than grassland fires, the cheatgrass seed lying on the soil surface underneath the sagebrush canopy is usually consumed, whereas the seed lying outside of the sagebrush canopy or other shrub free areas (such as previously burned cheatgrass dominated sites) is not consumed and remains viable. Accordingly, the areas underneath the burned sagebrush canopy create a cheatgrass free "clean" seedbed which allows seeded species to establish relatively free of cheatgrass competition. Although the areas outside of the canopies will remain dominated by cheatgrass, the established seeded plants underneath the former sagebrush canopy will usually out compete the adjacent cheatgrass over time with proper grazing management. However, strong wind driven fires often prevent consumption of cheatgrass seed, thereby requiring cheatgrass control. Seeding previously burned cheatgrass-dominated sites devoid of a brush overstory, is not usually successful because these rapid cheatgrass driven fires do not provide enough heat to consume cheatgrass seed lying on the soil surface.

Herbicides have proven to be the most effective and noninvasive method for controlling annual grasses prior to seeding. Before 1991, the use of herbicides to control invasive annual grasses was prohibited on public land. Therefore, various tilling methods such as plowing and disking were the only available options. Unfortunately, these treatments obliterated remaining native vegetation and biologic soil crusts, increased site susceptibility to wind erosion and often resulted in seed being drilled too deeply, thereby opening the site for total cheatgrass domination when seedings were unsuccessful. Prescribed fire was used in attempts to kill cheatgrass seed while still on the plant. Although such fires kill some seed still on the plant, they do not burn hot enough to kill cheatgrass seed on the soil surface.

Intensive livestock grazing is often suggested for controlling cheatgrass competition. Although targeted grazing may have some applications for fuels management, it is not effective in reducing cheatgrass competition. During the short time when cheatgrass is highly palatable in the spring, a sufficient number of livestock cannot be concentrated on a small enough area to reduce the cheatgrass seed significantly or reduce cheatgrass seed lying on the soil surface. Recurring intensive grazing would be required to exhaust the seed source (which can remain viable for many years). This type of grazing is detrimental to existing perennial grasses, thereby opening the site up for further cheatgrass expansion in the future.

BLM is authorized to use various approved contact and pre-emergent herbicides for controlling invasive annual grasses. Both types of herbicides have their advantages and shortcomings.

Glyphosate (a contact herbicide) has been widely and successfully used within the Twin Falls District. These herbicides must be applied during the short period that cheatgrass is actively growing, and before seed development occurs. When numerous cheatgrass crops occur on a given year, repeated applications are required. Additionally, application rates must be tuned to minimize damage to existing perennial plants while effectively controlling the invasive annuals.

Glyphosate is quickly absorbed into the soil and therefore has no potential for offsite non-target damage from moving soil particles

Preemergent herbicides such as imazapic and sulfometuron methyl are highly effective in controlling invasive annual grasses while having minimal impacts to most established perennial species. They are also classified as nontoxic to fish and wildlife. These herbicides do not require the specific application timing needed with glyphosate, and their residual action in the soil controls annual grasses whenever they happen to germinate. The residual action lasts from one to three years, depending on soil moisture, pH, and temperature. In addition to controlling invasive annual grasses prior to seeding, these herbicides could be used to help maintain and protect existing native plant communities which have been invaded with annual grasses. Such treatments would allow the natives to gain a competitive advantage over the exotic annuals, and the associated reduction in annual grass fuels would reduce the site's risk to wildfire. A limitation of these herbicides is their potential to damage crops at extremely low concentrations. Accordingly, these herbicides cannot be used near agricultural areas or on unstable soils.

Recent research on naturally occurring fungi and bacteria for controlling cheatgrass is encouraging and may prove to be an effective future control method.

Selecting plant materials which can establish and persist in these arid cheatgrass competitive environments is essential for restoring sagegrouse habitat lost through wildfire. Prior to 1986, fire rehabilitation funds could not be used for sagebrush seeding. Since that time, sagebrush is included in most fire rehabilitation seedings on its respective ecological sites. Occasionally, during busy fire years, sagebrush seed shortages restrict its use to priority burned sage-grouse habitat.

Native grasses and forbs are preferred over introduced species when they can meet the above requirements. Historically, few adapted native grass seed was available which could persist in these desert environments, thereby requiring the use of durable introduced species such as crested wheatgrass. Over time, selections of native blue bunch wheatgrass, basin wildrye, Snake River wheatgrass, squirreltail, Indian ricegrass, and Sandberg bluegrass have become increasingly available and are now used extensively in fire rehabilitation seedings for areas that receive at least 10" of annual precipitation in recently burned sagebrush communities. For the past ten years, BLM has been funding the interagency Great Basin Native Plant Selection and Increase Project for increasing native seed availability, especially native forbs important to sage-grouse, and to improve the success of land managers in establishing native plants (<http://www.fs.fed.us/rm/boise/research/shrub/greatbasin.shtml>)

However, some important native grasses (such as Thurber's Needlegrass) are still not widely available and or effective in competing with cheatgrass in the harshest environments. In these areas, durable introduced species as Siberian wheatgrass and Russian wild rye are still the only viable option. Even those species are often unsuccessful on those sites. Additionally, restoring native plant communities in repeatedly burned annual dominated grasslands has proven largely

unsuccessful. Considerable speculation and research has attempted to understand why. A lack of mycorrhiza, soil nutrients, and other changes to the soil environment from years of invasive annual grass domination is believed to be at least partially responsible.

The theory of “assisted succession” is suggested as a method for ultimately restoring these areas by first vegetating with resilient introduced species to break the fire cycle, removing annual grass dominance and deplete annuals’ seed source, and restore soil characteristics which may in time make the site more hospitable to restoring the native community, followed by eventual seeding with natives. Accordingly, this is a long term costly process which cannot begin to be implemented until the fire cycle has been broken. Until the majority of annual grass dominated landscapes can be rehabilitated to less fire prone species in the long-term, these short fire cycles will result in a continual loss of these investments, and in the remaining native sagebrush steppe communities.

Seeded areas require rest from livestock use to become fully established, followed by livestock management which will maintain plant health and vigor. BLM policy traditionally prescribes a minimum of two years rest period (from livestock grazing), and until plant establishment objectives are met. Depending on moisture and other site conditions, longer rest is often needed grazing can be resumed. A true native restoration could require years of rest from grazing to become successfully established (depending on plant materials used and site characteristics). Such large scale treatments could have significant impacts to grazing permittees, and may also necessitate more restrictive management to maintain the native seeded species over the long term.

The ability to protect these areas from recurring wild fire is crucial to maintaining the reestablished sagebrush component. Successful fire rehabilitation seeding contributes partially to this goal by changing the fuels from highly flammable annual grasses with high fuel continuity, into less fire prone perennial bunch grasses which stay greener longer and which provide much less fuel continuity. Accordingly, when fire does return to these rehabilitated areas, the fires are often spotty which leave substantial unburned sagebrush islands and a seed source for naturally reestablishing sagebrush. Additionally, the burned perennial grasses quickly re-sprout and compete effectively with annual weeds.

Also needed is a system of effectively managed fuels breaks consisting of durable fire resistant vegetation (such as forage kochia) placed primarily along roads to reduce the wildfire size, and provide lines of defense for fire suppression efforts, and to reduce the occurrence of roadside ignited fires.

# CHAPTER 3

## AFFECTED ENVIRONMENT - Lands and Realty

### 3.2 LANDS AND REALTY

The primary goal of the BLM Lands and Realty program is to enhance the administration of public land ownership to provide the most effective configuration of lands and interests in land, consistent with land use plans developed through a full and open public involvement process, and to further the purposes of FLPMA.

Lands and realty actions can be divided between land tenure adjustments and land use authorizations. Land tenure adjustments focus on land exchange, acquisition (including purchase and easement acquisition), disposal, and withdrawals. Land use authorizations consist of rights-of-ways (ROWs), utility corridors, and other leases or permits.

#### 3.2.1 Indicators

Indicators are measurable factors that are used to describe resource conditions or levels of use. The indicators used to describe current conditions are the same indicators used to predict the potential effects that could result from implementation of any of the proposed alternatives described in **Chapter 2**.

The indicators for land and realty are:

- Number and type of land tenure adjustments, and;
- Number, acres/miles, and type of land use authorizations.

#### 3.2.2 Existing Conditions

The lands within the planning area are owned and/or managed by multiple federal, state, and local agencies, as well as private landowners. The configuration of land ownerships and their proximity to each other is an important factor when considering land tenure adjustments and evaluating land use authorization applications. The planning area contains lands owned by XX, XX, XX, and XX. **Table X-X**, Surface Ownership in Planning Area, shows the acreage and overall percent ownership for each land owner in the planning area.

**Table X-X**  
**Surface Ownership in Planning Area**

Land Owner	Acres	Percent of Planning Area
BLM		
Forest Service		
etc		

Source:

Within the planning area, public lands have been classified for retention or disposal pursuant to Section 7 of the Taylor Grazing Act (43U.S.C. 315f), Federal Land Policy and Management Act (FLPMA), and 43 C.F.R. 2400 and 2500; public lands and also been identified as ROW exclusion or avoidance areas, and ROW corridors, pursuant to FLPMA and 43 CFR 2800. **[Add FS planning designations and**

**regulation references]**

**Table X-X**, Land Classifications/Designations in the Planning Area, lays out the number of acres identified with land tenure classifications and ROW designations in the planning area.

**Table X-X**  
**Land Classifications/Designations in Planning Area (Acres)**

<b>Land Status</b>	<b>Acres within Planning Area</b>
Disposal by sale	XXX
Disposal by exchange	XXX
Retention	XXX
ROW Avoidance	XXX
ROW Exclusion	XXX
ROW Corridor	XXX

Source: XXXX

**Land Tenure Adjustments**

Land ownership (or land tenure) adjustment refers to those actions that result in the disposal or withdrawal of public land, or the acquisition by the BLM of nonfederal lands or interests in land. Section 102(a) of FLPMA requires that public land be retained in Federal ownership unless, as a result of land use planning, it is determined that disposal of certain parcels will service in the national interest. In all land tenure adjustments, keeping the surface and mineral estate intact on both the lands disposed of and acquired would benefit the future owners and their use of the land.

*Disposals*

Disposal areas include tracts of land that are economically difficult to manage, and/or parcels that could serve important public objectives, including, but not limited to, expansion of communities and economic development. These lands are usually disposed of through exchanges or land sales. Tracts of land that are designated in BLM land use plans as potentially available for disposal are more likely to be conveyed out of federal ownership through an exchange rather than a sale. This preference toward exchange over sale is established in BLM policy.

There are approximately XXXX acres of BLM-managed land is identified for disposal in the planning area identified through land use plans [list RMP's by name (reference)]. XXXX of these acres lie within PPH, while XXXX acres lie within PGH.

Exchanges. Exchange is the process of trading lands or interests in lands and serves as a viable tool for the BLM to accomplish its goals and mission. Exchanges must be in the public interest and conform to applicable BLM land use plans. The lands to be exchanged must be of approximately equal monetary value and located within the same state. Public lands may be exchanged for lands or interests in lands owned by corporations, individuals, or government entities. Except for those exchanges that are congressionally mandated or judicially required, exchanges are voluntary and discretionary transactions with willing landowners.

Exchanges are the primary means by which land acquisition and disposal are carried out.

Land exchanges are used to (1) bring lands and interests in land with high public resource values into public ownership, (2) consolidate land and mineral ownership patterns to achieve more efficient management of resources and BLM programs, and (3) dispose of public land parcels identified for disposal through the planning process.

There are **XX** pending land exchanges within the planning area: [list the RMPs, the number of acres to dispose and acquire and how many of those acres are within PPH/PGH or outside of sage grouse habitat].

Land Sales. Section 203 (a) of FLPMA provides for sale of public lands if one of the following criteria is met: (1) the tract is difficult and uneconomic to manage as part of the public lands and is not suitable for management by another Federal agency; (2) such tract was acquired for a specific purpose and the tract is no longer required for that or any other Federal purpose; or (3) disposal of such tract will serve important public objectives, including but not limited to, expansion of communities and economic development that cannot be achieved prudently or feasibly on land other than public land. Public lands that have been identified for consideration for disposal by sale in the approved LUPs meet one or more of these criteria. Public lands must be sold at not less than fair market value.

Section 209 of FLPMA authorizes the conveyance of federal minerals through sale and specifies the conditions under which the mineral rights would be conveyed. The mineral rights could be sold with the land surface, sold as a separate transaction, or retained. Conveyance of mineral rights has occurred only in conjunction with the sale of land.

There are **XXX** pending land sales within the planning area: [list the RMPs, the number of acres to be sold and how many of those acres are within PPH/PGH or outside of sage grouse habitat].

Withdrawal - Withdrawal are formal actions that accomplish one or more of the following actions:

- Transfers total or partial jurisdiction of Federal land between Federal agencies.
- Segregates (closes) Federal public lands to appropriation under public land laws including mineral laws.
- Dedicates public land for a specific public purpose.

There are three major categories of formal withdrawals: (1) congressional withdrawals, (2) administrative withdrawals, and (3) Federal Power Act or Federal Energy Regulatory Commission (FERC) withdrawals.

- Congressional withdrawals are legislative withdrawals made by Congress in the form of public laws (acts of Congress).
- Administrative withdrawals are made by the President, Secretary of the Interior, or other authorized officers of the executive branch of the Federal government.
- Federal Power Act or FERC withdrawals are power project withdrawals established under the authority of the "Federal Power Act" of 1920. Such withdrawals are automatically created upon filing an application for a hydroelectric power development project with FERC.

Federal policy now restricts all withdrawals to the minimum time and acreage required to serve the public interest, maximize the use of withdrawn lands consistent with their primary purpose, and eliminate all withdrawals that are no longer needed. Management and adjustment of withdrawals focuses on the establishment, management, modification, and revocation of withdrawals.



There are currently XXX withdrawals in the planning area, encompassing XXXX acres of federal land. These withdrawals are used for [add a list of purposes, such as “military use, public water reserves, administrative sites, research natural areas, and wildlife reserves, etc” (add reference)]. Of these withdrawals, X reside on PPH (XXXX acres) and X reside on PGH (XXXX acres).

#### *Acquisition*

Acquisition of and interests in lands are important components of the BLM’s land tenure adjustment strategy. Acquisition of lands can be pursued to facilitate various resource management objectives. Acquisitions, including easements, can be completed through exchanges (see above), land purchases, donations, or receipts from the Federal Land Transaction Facilitations Act sales or exchanges. Lands and interests in lands are acquired for the following actions:

- improve management of natural resources through consolidation of federal, state, and private lands.
- secure key property necessary to protect endangered species, promote biological diversity, increase recreational opportunities, and preserve archeological and historical resources.
- implement specific acquisitions authorized or directed by acts of Congress.

Purchases. The BLM has the authority, under Section 205 of FLPMA, to purchase lands or interests in lands. Similar to other acquisitions, purchase is used to acquire key natural resources or to acquire legal ownership of lands that enhance the management of existing public lands and resources. Acquiring lands and interests in lands through purchase helps consolidate management areas to strengthen resource protection. Purchases are used primarily to enhance recreational opportunities and acquire crucial wildlife habitats.

There are XX pending land purchases within the planning area: [list the RMPs, the number of acres to be purchased and how many of those acres are within PPH/PGH or outside of sage grouse habitat]

#### **Land Use Authorizations**

The most common form of authorization to permit uses of BLM-managed public lands by commercial, private, or governmental entities is the ROW. A ROW grant is an authorization to use a specific piece of public land for certain projects such as roads, pipelines, transmission lines, or communication sites. Some uses of BLM-managed public lands are short-term uses and authorized through land use permits such as filming activities or apiary sites. See **Table X-X** for the Active Land Use Authorizations within the Planning Area.

Authorizations grant rights and privileges for a specific use of the land for a specific period of time. It is the BLM's objective to grant land use authorizations to any qualified individual, business, or government entity, and to direct and control the use of authorizations on public lands in a manner that:

- protects the natural resources associated with public lands and adjacent lands, whether private or administered by a government entity;
- prevents unnecessary or undue degradation to public lands;
- promotes the use of authorizations in common, considering engineering and technological compatibility, national security, and area RMPs; and
- coordinates, to the fullest extent possible, all BLM actions with local, State, Native American Tribal, and other Federal agencies; interested individuals; and appropriate quasi-public entities



(43 CFR 2801.2).

**Table X-X**  
**Active Land Use Authorizations within the Planning Area**

Type	Number of Authorizations	Size (Acres)
Road		
Railroad		
Power		
Telephone		
Water facilities		
Oil and gas		
Communication sites		
Other		
Total		

Source: LR2000

#### *ROW Avoidance and Exclusion Areas*

Areas closed to mineral leasing, having a no surface occupancy restriction, or otherwise identified as unsuitable for surface disturbance or occupancy are generally identified as avoidance or exclusion areas for ROWs. Restrictions and mitigation measures could be modified on a case-by-case basis for avoidance areas, depending on impacts on resources, while exclusion areas are strictly prohibited from ROW development. See **Table X-X, Land Classifications/Designations in Planning Area** (above) for the number of acres currently identified as ROW avoidance and exclusion areas. **XXX** acres are within PPH, **XXX** acres are within PGH, and **XXX** acres are outside of Sage-Grouse habitat.

#### *ROW Corridors*

Utility corridors were developed to concentrate the effects of utility lines in manageable locations on public lands managed by the BLM often provide suitable locations for utility transmission lines. The corridors may contain power lines, transcontinental fiber optic communication cables, and trans-state gas pipelines. See **Table X-X, Land Classifications/Designations in Planning Area** (above) for the number of acres currently identified as ROW avoidance and exclusion areas.

There are **XXX** major ROW corridors presently traversing the planning area. **[List what the corridors contain and the general location and XXX acres are within PPH, XXX acres are within PGH, and XXX acres are outside of Sage-Grouse habitat. .]**

#### *Renewable Energy*

Solar, wind, biomass, and geothermal (which is managed as a fluid leasable mineral) are considered renewable energy resources. Renewable energy resources all have different requirements related to economic development; however, some issues are common to all renewable energy resources, including connection to the existing power transmission facilities and compatibility with existing Federal land use.

Wind and solar resource facilities are permitted with ROWs, through the Lands and Realty Program. Geothermal resources, as mentioned above, are considered fluid leasable minerals. As a result, management actions related to the Lands and Realty Program and leasable minerals could affect renewable energy resources. Special management designation areas, such as ACECs and VSAs, could also affect the use of renewable energy resources by limiting the location of these facilities.

There are X approved ROWs for renewable energy within the planning area, including X within PPH (XXXX acres), X within PGH (XXXX acres), and X outside of Sage-Grouse habitat (XXXX acres).

### 3.2.3 Trends

#### **Land Tenure Adjustments**

[need to add BLM/FS info on land tenure adjustment trends currently happening]

#### **Land Use Authorizations**

Land use authorization requests are customer driven. Over the last six years in the planning area, BLM has received a number of applications for major transmission line projects to traverse the state. Prior to that time, it had been over 20 years since major transmission line applications were received by BLM. BLM has not received any applications for utility-scale solar production in the planning area, nor are there solar resources comparable to the areas where utility-scale solar production projects are being proposed or built.

#### **References**

LR2000

GIS Data

#### **Acronyms**

ROW Right-of-way

## Lands with Wilderness Characteristics (LWC)

Section 201 of FLPMA requires the BLM to maintain on a continuing basis an inventory of all public lands and their resources and other values, which includes wilderness characteristics. It also provides that the preparation and maintenance of the inventory shall not, of itself, change or prevent change of the management or use of public lands. Regardless of past inventory, the BLM must maintain and update as necessary, its inventory of wilderness resources on public lands. In some circumstances conditions relating to wilderness characteristics may have changed over time, and an area that was once determined to lack wilderness characteristics may now possess them. The BLM determines when it is necessary to update its wilderness characteristics inventory.

Under the following circumstances, the BLM considers whether to update a wilderness characteristics inventory or conduct a wilderness characteristics inventory for the first time:

1. The public or the BLM identifies wilderness characteristics as an issue during the National Environmental Policy Act (NEPA) process.
2. The BLM is undertaking a land use planning process.
3. The BLM has new information concerning resource conditions, including wilderness characteristics information submitted by the public that meets the BLM's minimum standard described in the Wilderness Characteristics Inventory Process section of this policy.
4. A project that may impact wilderness characteristics is undergoing NEPA analysis.
5. The BLM acquires additional lands.

There also may be other circumstances in which BLM will find it appropriate to update its wilderness characteristics inventory.

The primary function of an inventory is to determine the presence or absence of wilderness characteristics.

BLM has completed LWC inventory in the Four Rivers, Bruneau, Jarbidge, Pocatello, and Upper Snake Field Offices. Partial inventories have been completed in Owyhee, Shoshone, Burley, Challis and Salmon Field Offices.

Pocatello and Upper Snake Field Offices inventory found those offices have no lands with wilderness characteristics.

Four Rivers, Bruneau, and Jarbidge inventories found areas that do contain lands with wilderness characteristics.

Owyhee, Shoshone, Burley, Challis and Salmon Field Offices do not have final inventory reports.

There are XX,000 acres of lands with wilderness character within the planning area boundary.

Reference:

BLM Manual 6310 Conducting Wilderness Characteristics Inventory on BLM Lands 2012  
BLM Manual 6310 Considering Lands with Wilderness Characteristics in the BLM  
Land Use Planning Process 2012