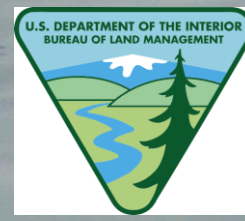
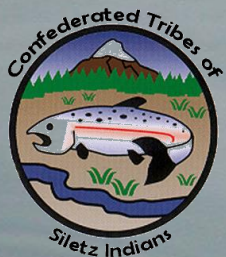


Partnering with the Confederated Tribes of Siletz Indians to restore a threatened seabird



The New Carissa Oil Spill



26 marbled murrelets collected



Oregon Department of Fish and Wildlife
SPILL RESPONSE EVIDENCE TAG

Double bag dead birds and tape bag shut.
Complete this tag and tie on bag.

No. **12320**

Date: **3/12/99 (see notes)**

Number of Birds: **1**

Team Leader: (print below)
Tom Williamson / TEC

Incident: **New Clavissa**

Sector Location: **E4**
Otter Crest Inn

Do these birds have bands or tags?
Y/N **N** **Donald Norman**

Signature: (sign below)
Donald Norman

Carcass Scavenging Study



Searcher Efficiency Study

26 marbled murrelets collected



Oregon Department of Fish and Wildlife
SPILL RESPONSE EVIDENCE TAG

Double bag dead birds and tape bag shut.
Complete this tag and tie on bag.

No. 12320

Date: 3/12/99 (see notes)

Number of Birds: 1
Marbled murrelet

Team Leader: (print below)
Tom Williamson / TEC

Incident: New Clavissa

Sector Location: E4
Otter Crest Inn

Do these birds have bands or tags?
Y/N Donald Norman

Signature: (sign below)
Donald Norman

262 marbled murrelets killed








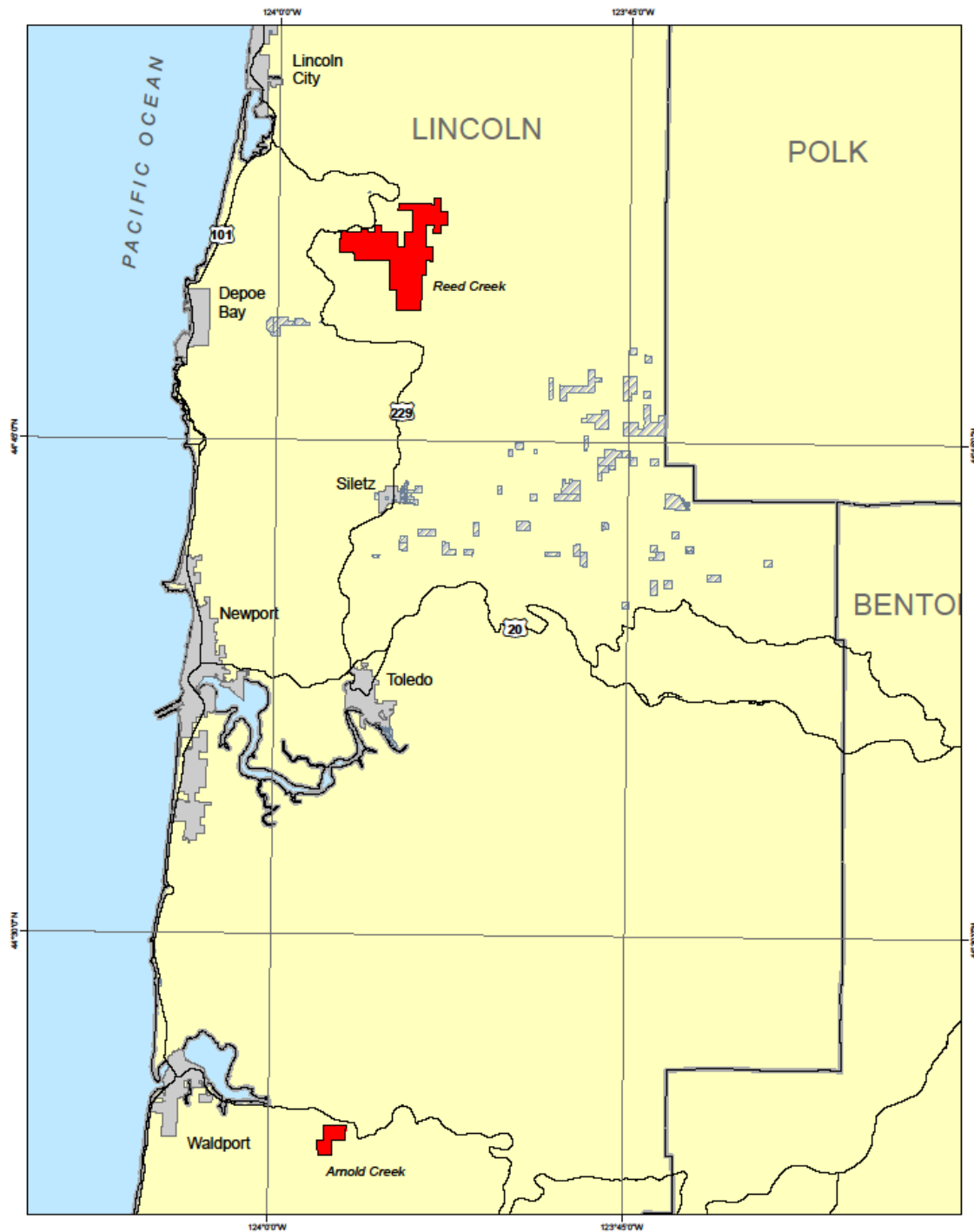


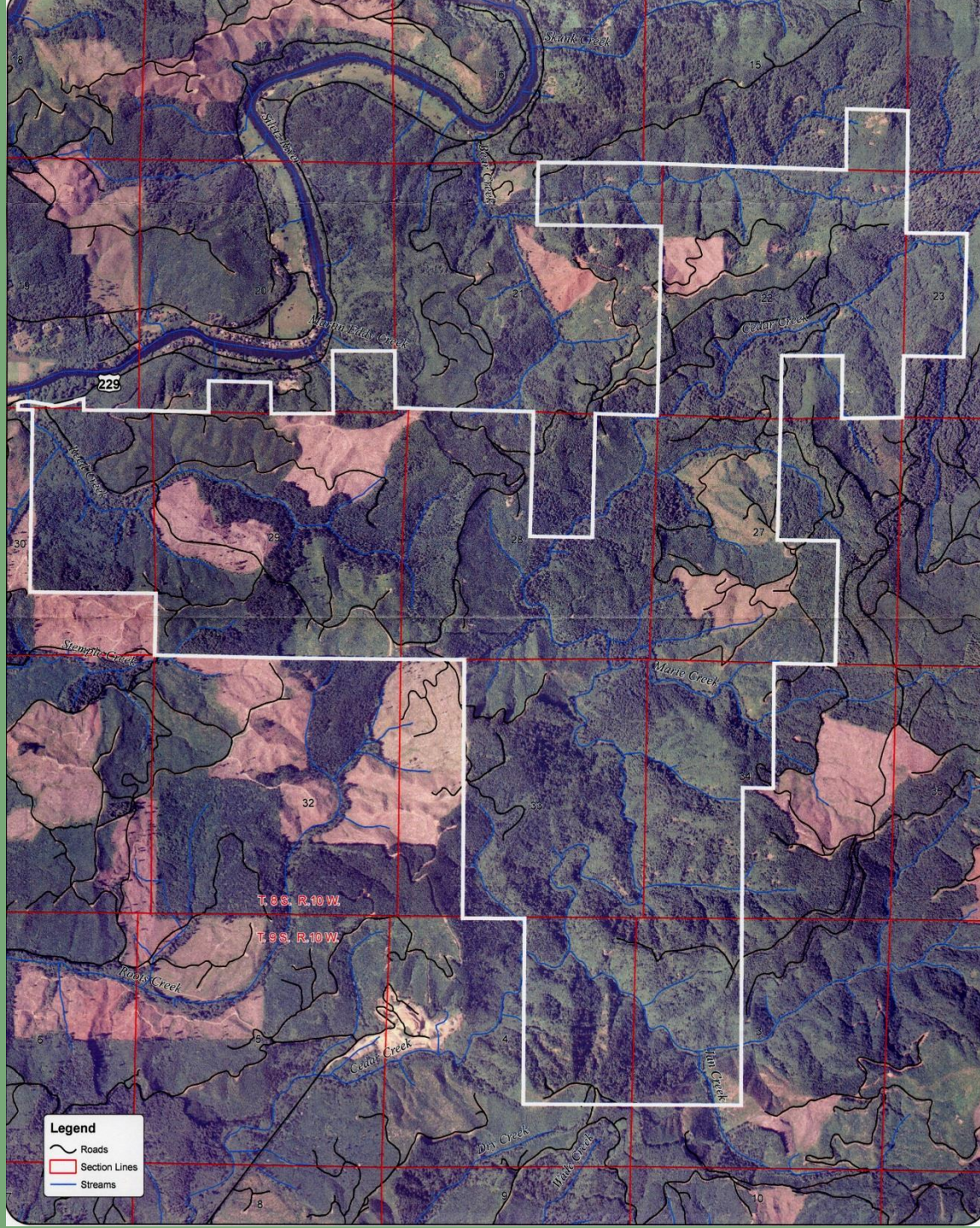
- **262 marbled murrelets killed**



- 
- A marbled murrelet is perched on a mossy rock. The bird has dark plumage with characteristic white streaks on its wings and back. The background is a soft-focus natural setting with green foliage and a hint of a blue sky.
- **262 marbled murrelets killed**
 - **1,269 acres of suitable nesting habitat needed (50.77 nests @ 25 ac/nest)**

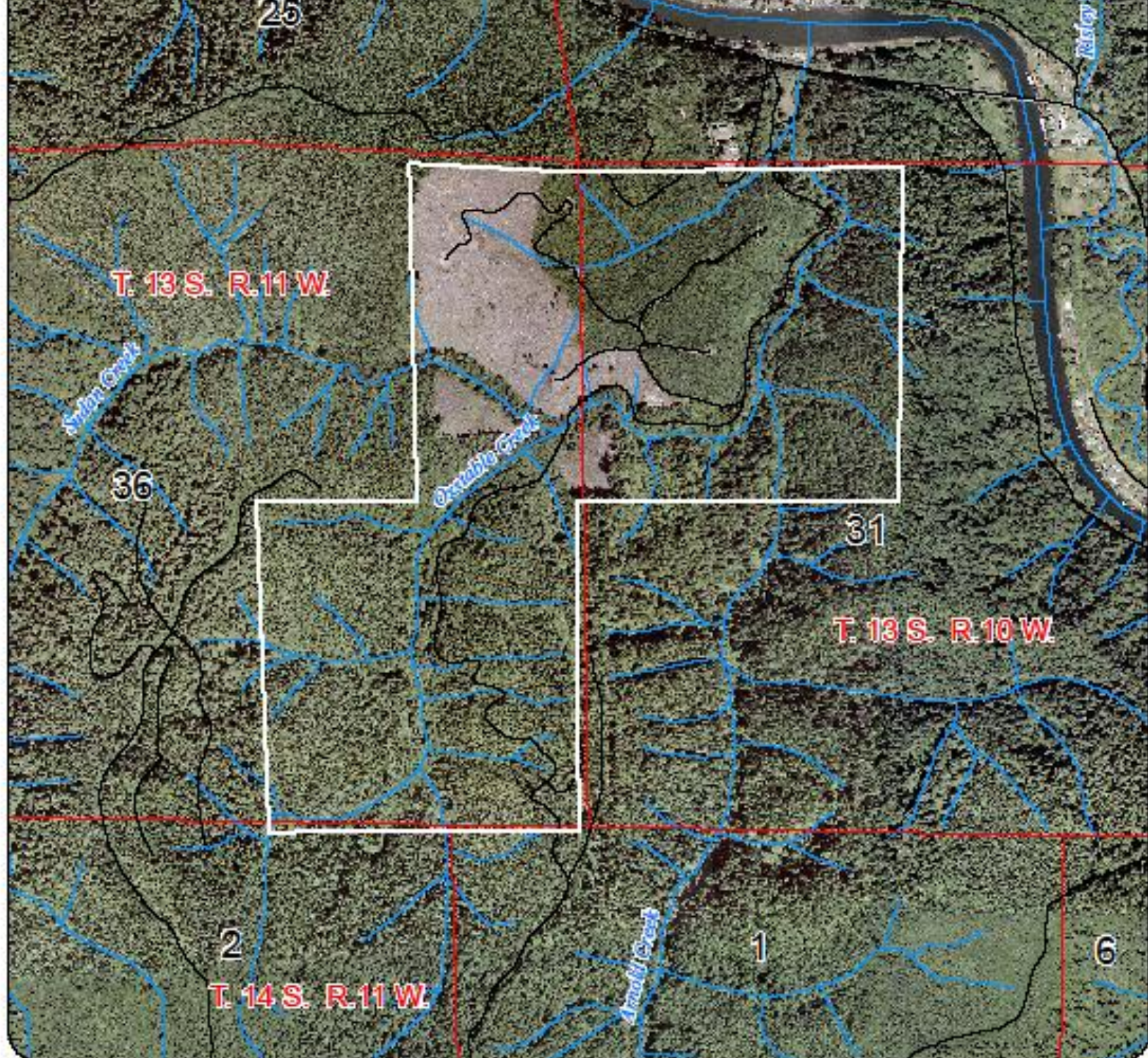
- 
- A marbled murrelet is shown nesting on a rocky, moss-covered cliffside. The bird is dark with a lighter breast and is facing right. The background is a blurred view of the ocean and sky.
- **262 marbled murrelets killed**
 - **1,269 acres of suitable nesting habitat needed (50.77 nests @ 25 ac/nest)**
 - **4,263 acres of coastal forest donated to Confederated Tribes of Siletz Indians**





Legend

- Roads
- Section Lines
- Streams













Why CTSI?

- **Technical expertise in forest management**
- **Long history of forest management and community involvement in Lincoln County**
- **Multi-disciplinary resource staff**
- **Demonstrated ability in natural resource restoration and species conservation**
- **Willingness to accept fee simple title to the parcels and pay all applicable property taxes to Lincoln County**

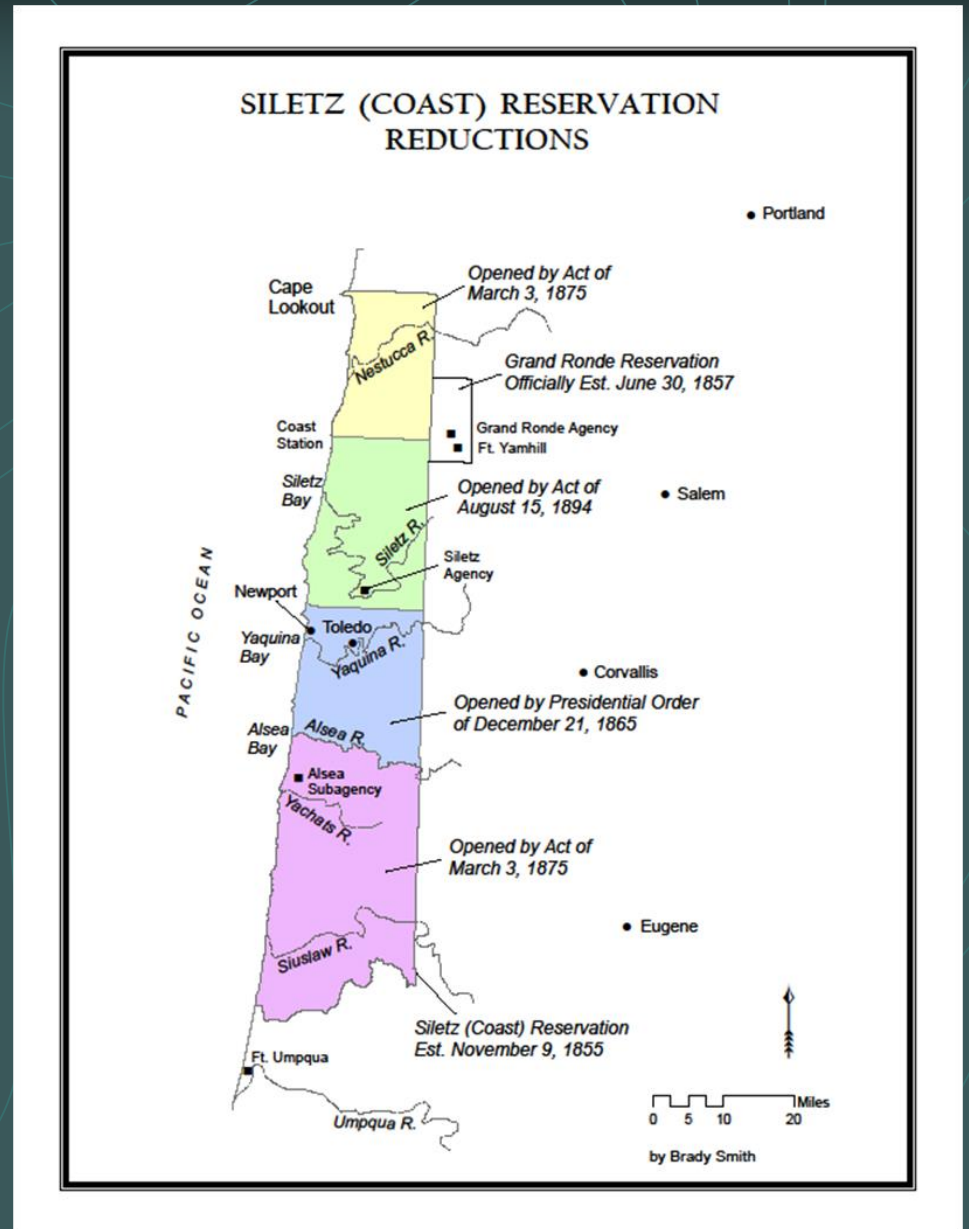
Why CTSI ? (cont)

- Commitment to collaborate with recognized experts in the fields of conservation forestry and rare species management in development of the parcels' management plan
- Willingness to enter into a legally binding conservation easement with the Trustees (or their designee) assuring that the parcels will be managed for the benefit of marbled murrelets and other natural resources.

Why CTSI Interested?

Cultural connection to the land

Part of original reservation area

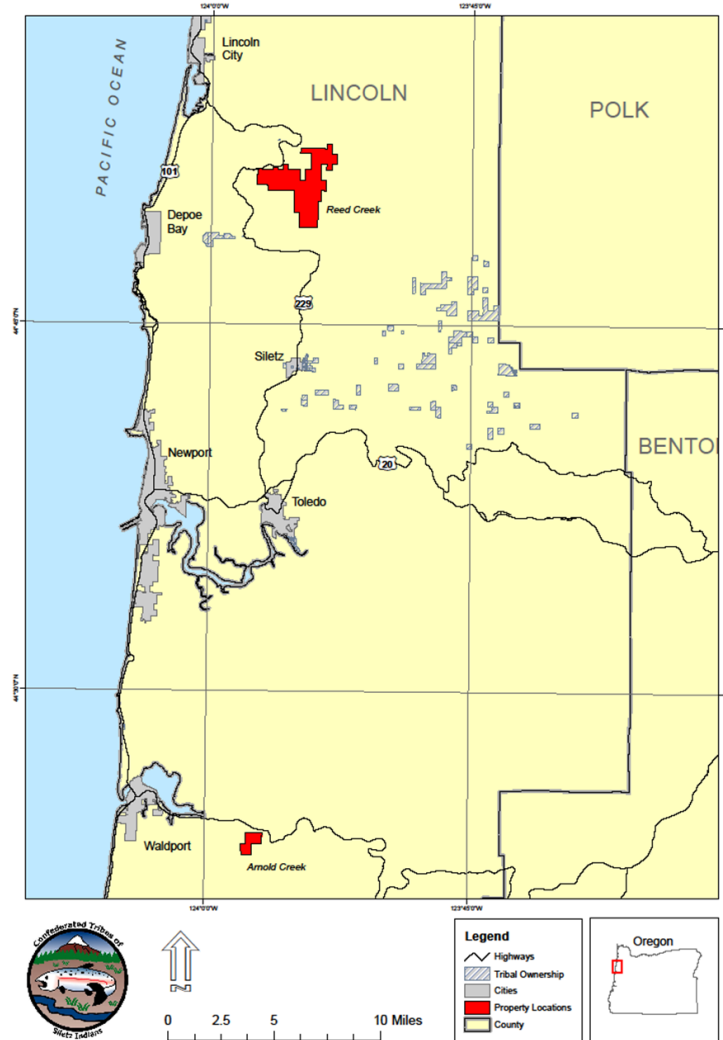


Why CTSI Interested?

In our back yard
(6 air miles from
Siletz)

Doubled the
Tribe's land base

Reed Creek & Arnold Creek
Property Location Map



A vertical strip on the left side of the slide shows a topographic map of a river valley. The map features contour lines, a river channel, and various land parcels. The colors are muted, with greens and browns. The river flows from the top towards the bottom of the strip.

The Conservation Easement

- Permanent Easement
- CTSI as Grantor
- Oregon Department of Fish & Wildlife and US Bureau of Land Management as Grantees
- US Fish & Wildlife Service (advisory to Grantees)



Purposes of the CE

- ***First***, to provide for the benefit and conservation of the marbled murrelet by protection of Marbled Murrelet Habitat, and the creation of additional Marbled Murrelet Habitat over time.
- ***Second***, where consistent with the first purpose, to provide sufficient revenue for management of the Property through limited commercial timber harvest and other activities and to protect and promote other late seral or mature forest conditions, native fish and wildlife.

CE Requirements

- **Baseline Report (current condition of property)**
- **10 Year Management Plan**
- **Annual Operations Plan (for coming year)**
- **Annual Accomplishments Report (for past year)**
- **Target Baseline of $\frac{2}{3}$ of Property in MAMU habitat (currently at $\frac{1}{3}$)**
- **Periodic MAMU surveys**
- **All property revenue stays with property (taxes, management expenses, surveys)**



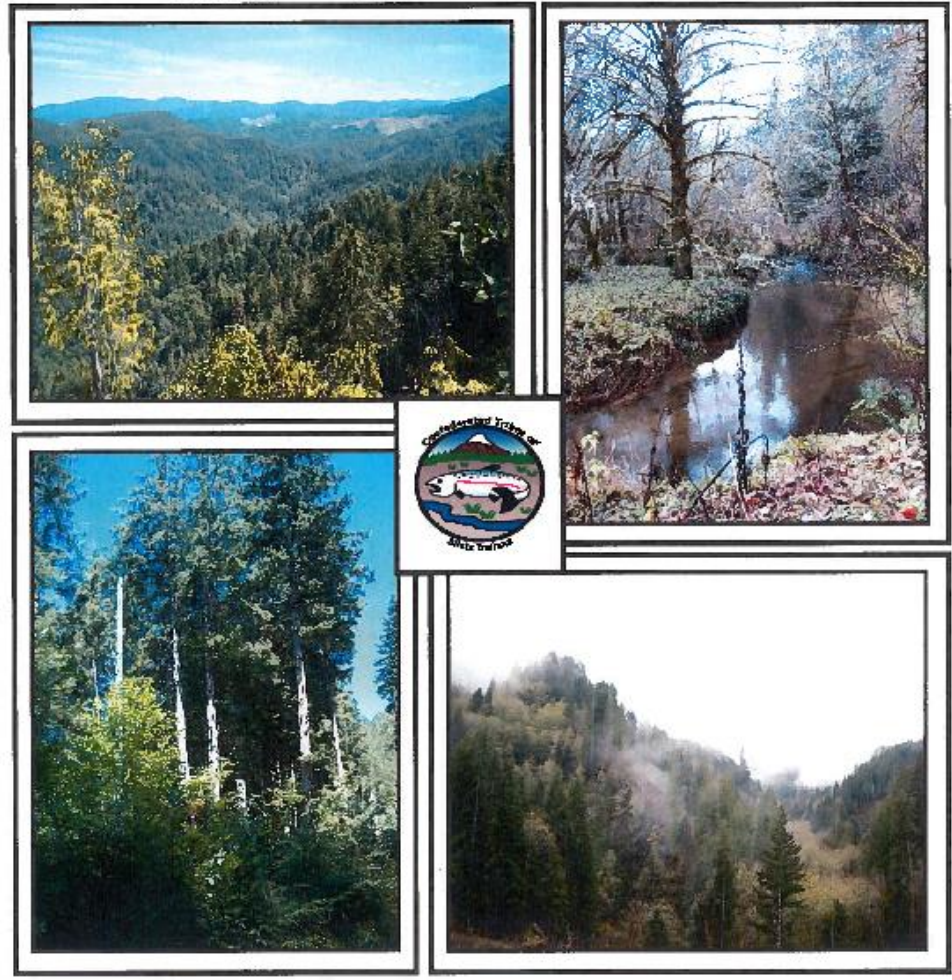
CE Requirements

Three Management Zones

- **HPA (Habitat Protection Area):** *protection of existing habitat with little or no active management*
- **BPA (Buffer Protection Area):** *provide initial buffer between HPA and surrounding lands*
- **SPA (Standard Protection Area):** *active management to achieve Target Baseline and provide property management costs revenue*



**2010-2019
REED-ARNOLD CREEK
MANAGEMENT PLAN**



DECEMBER 2010

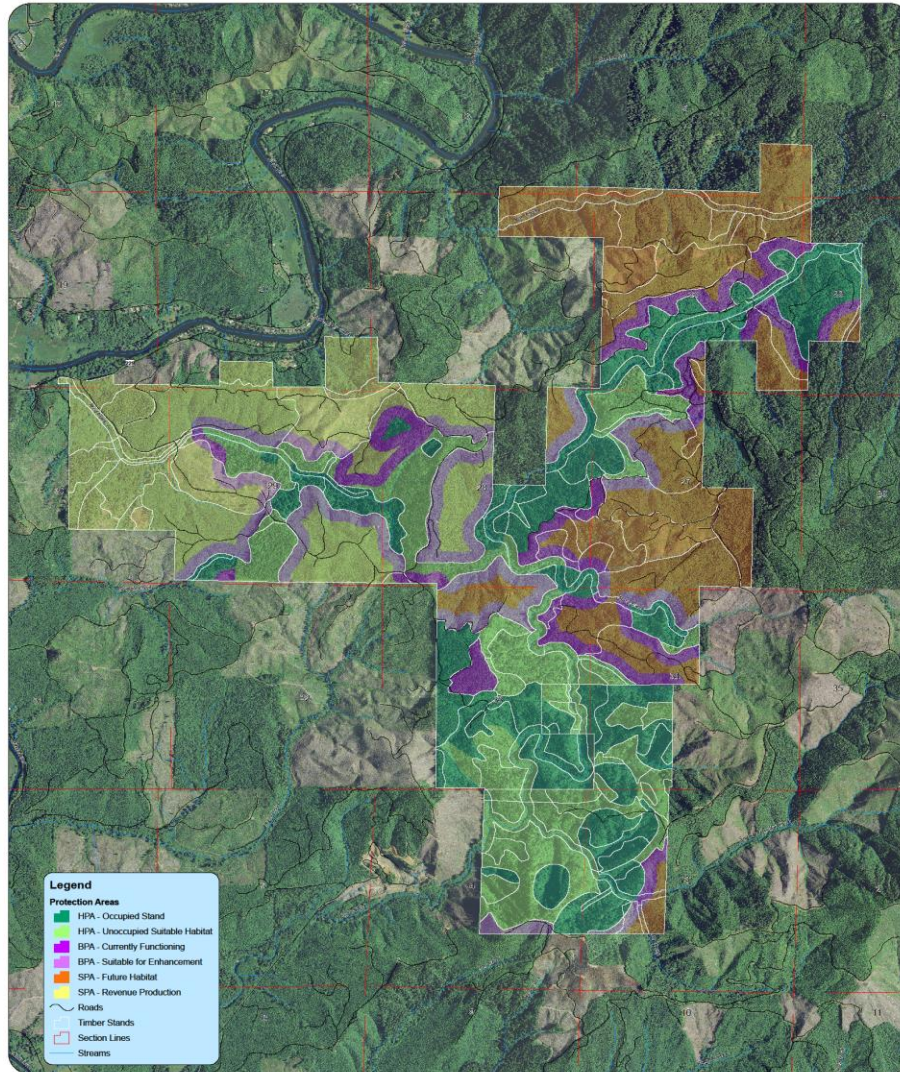
Management Plan

Land Management Classification Acres by Parcel in 2010

Classification	Reed Creek	Arnold Creek	Total Acres	% Total Acres
<i>Highest Protection Area</i>				
Occupied Stands	861	37	898	21%
Unoccupied Suitable Habitat	692	38	730	17%
<i>Total Highest Protection Area</i>	<i>1,553</i>	<i>75</i>	<i>1,628</i>	<i>38%</i>
<i>Buffer Protection Area</i>				
Currently Functioning	321	13	334	8%
Suitable for Enhancement	334	16	350	8%
<i>Total Buffer Protection Area</i>	<i>655</i>	<i>29</i>	<i>684</i>	<i>16%</i>
<i>Standard Protection Area</i>				
Future Habitat	906	191	1,097	26%
Revenue Production	737	117	854	20%
<i>Total Standard Protection Area</i>	<i>1,643</i>	<i>308</i>	<i>1,951</i>	<i>46%</i>
Total	3,851	412	4,263	100%

Reed Creek Property Land Management Classifications

MAP
4-1



1:12,000

1 inch = 1,000 feet

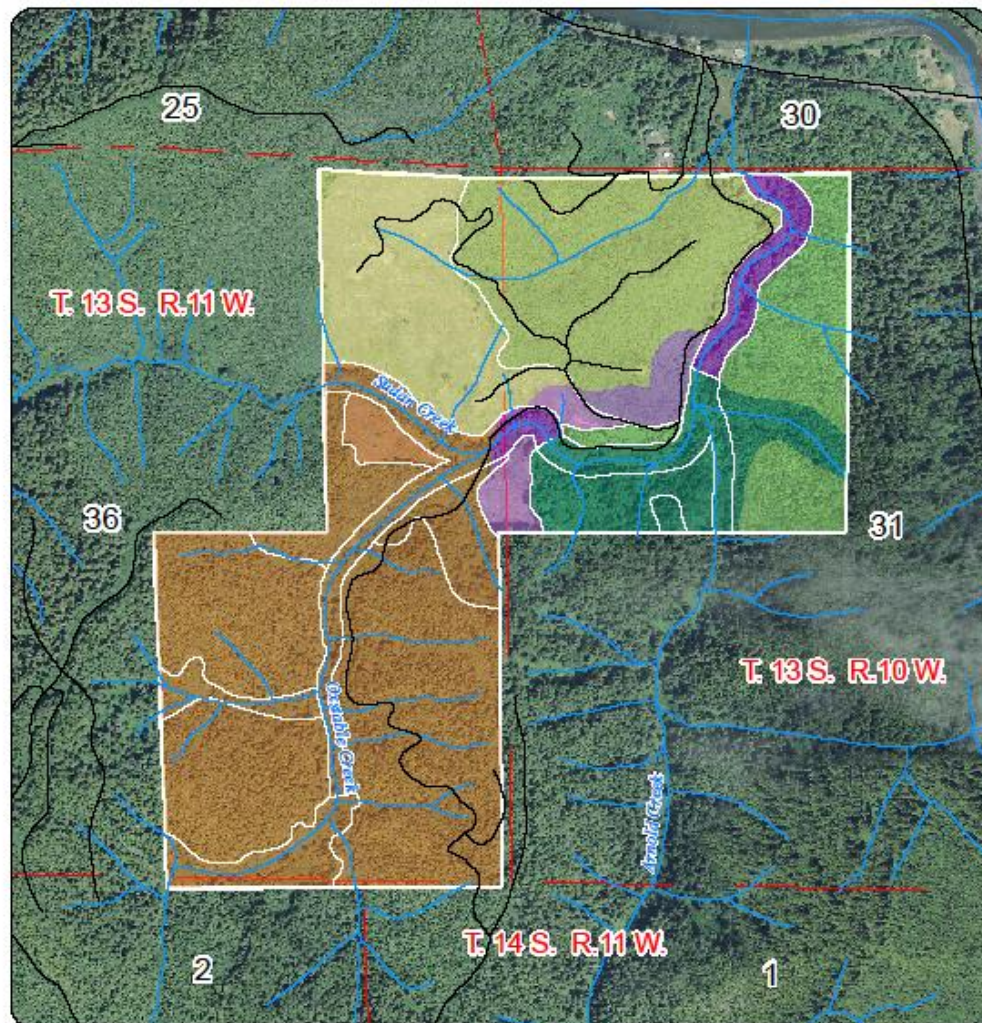
0 0.25 0.5 1 Miles



Cartography by Brady
Smith on January 6, 2010.

Arnold Creek Property Land Management Classifications

MAP
4-2



Legend

1 inch = 1,000 feet

Timber Stands	BPA - Currently Functioning
Streams	BPA - Suitable for Enhancement
Protection Areas	SPA - Future Habitat
HPA - Occupied Stand	SPA - Revenue Production
HPA - Unoccupied Suitable Habitat	Roads

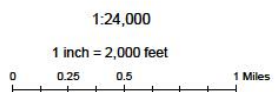
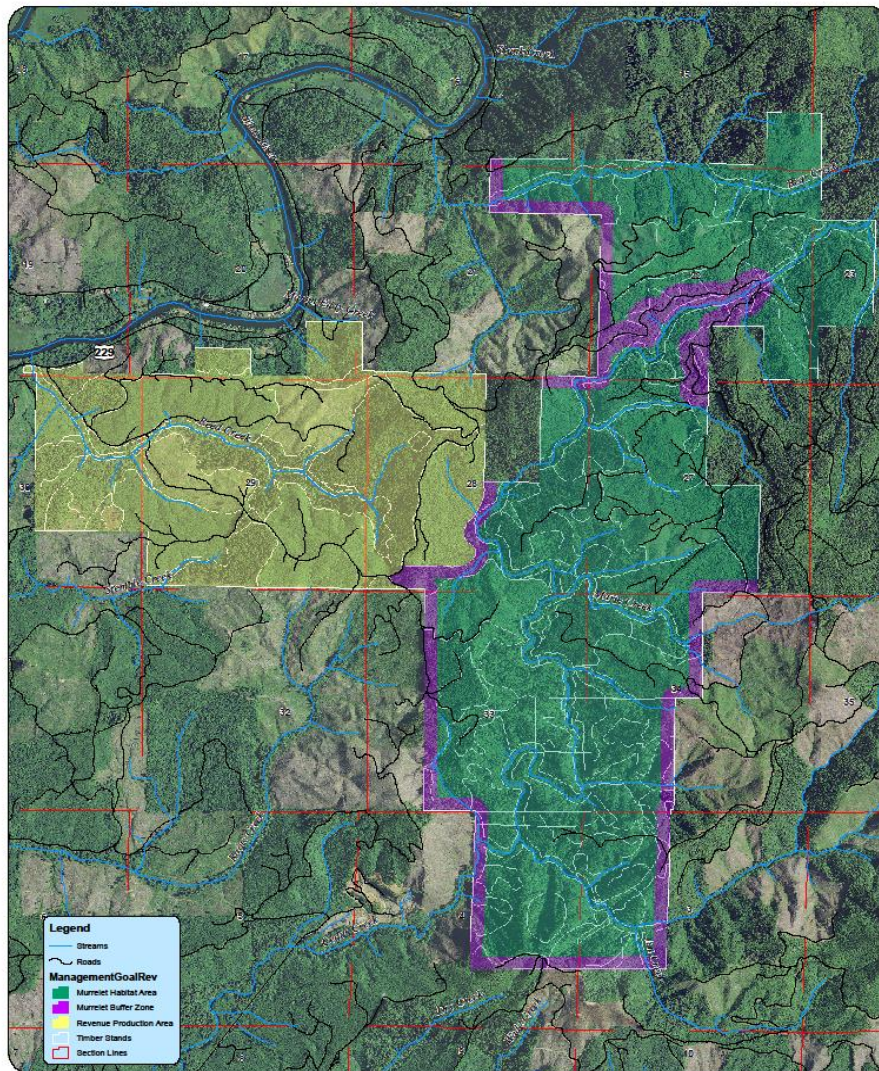
0 500 1,000 2,000 Feet

Management Plan

- $\approx \frac{1}{3}$ of property currently occupied and/or suitable MAMU habitat
- Goal is $\frac{2}{3}$ of property in occupied and/or suitable MAMU habitat
- Once goal exceeded, can harvest timber in MAMU habitat, but must maintain at least $\frac{2}{3}$ of property in MAMU habitat
- Ideally consolidate MAMU habitat in large blocks adjacent to federal lands

Reed Creek Property Long Range Habitat Goal

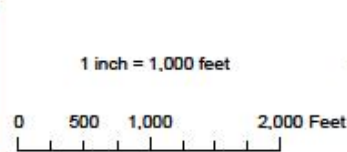
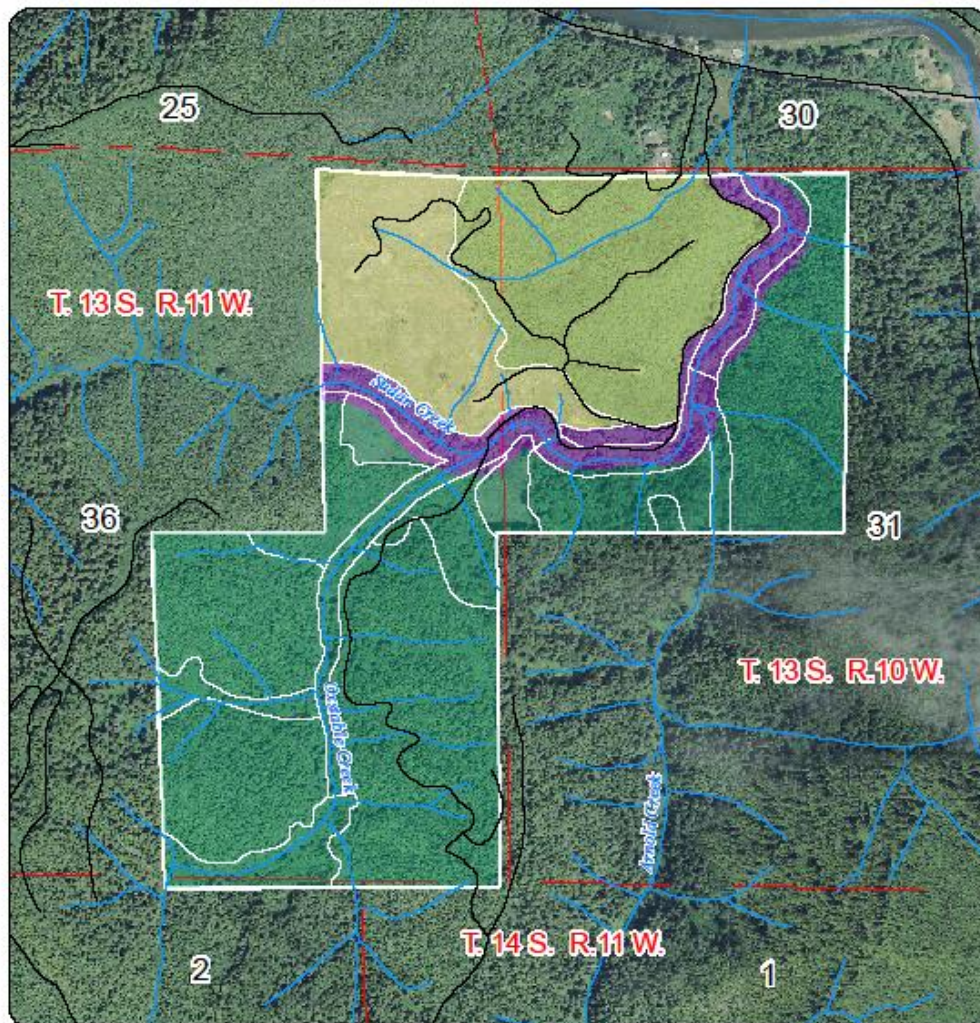
MAP
4-10



Cartography by Brady Smith
on March 28, 2010

Arnold Creek Property Long Range Habitat Goal

MAP
4-11





How Do We Get There From Here?

- **Precommercial thinning of young plantations in SPA area**
 - **Thin widely around 10-15 trees per acre to allow trees to be open grown with large and many limbs**
 - **Remainder of stand to be thinned to variable density to create patchwork of dense and more open stocking**





How Do We Get There From Here?

- Commercial thinning in older stands to open them up and encourage growth of larger limbs on select trees while maintaining a buffer around these trees to reduce predation
- Concentrating efforts in areas near federal land
- Periodic harvest in Revenue Production portion of SPA to fund property taxes and property management costs



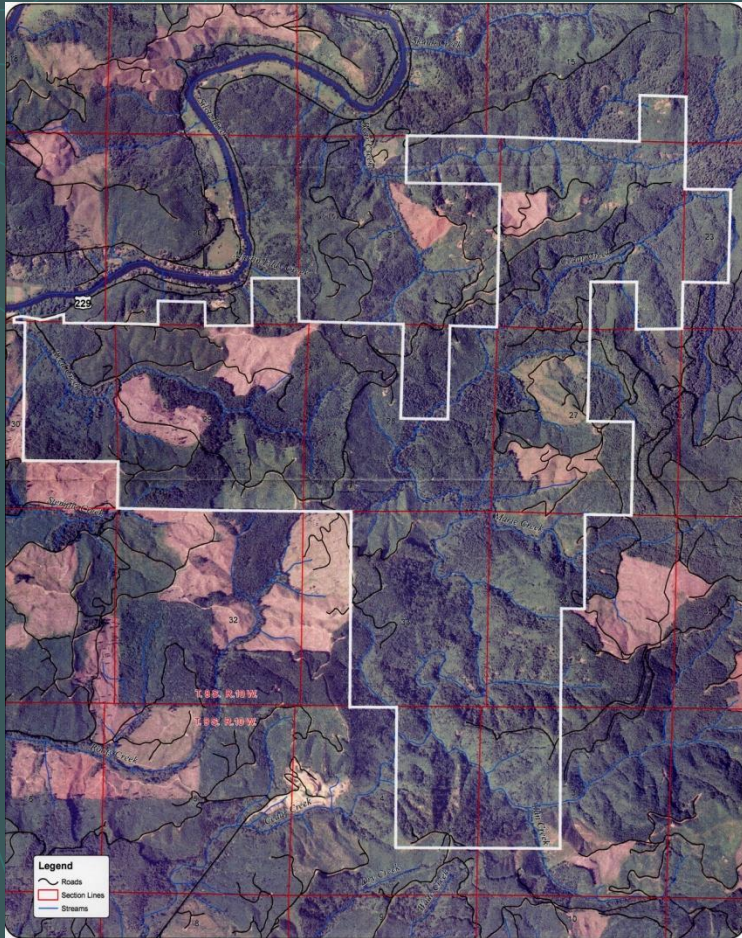
Challenges

- Property previously managed for timber production (dense stands with small limbs)
- Neighboring property owners harvested their timber shortly after property purchased (unintended consequence)
- Winter storms produce high winds (blowdown risk)

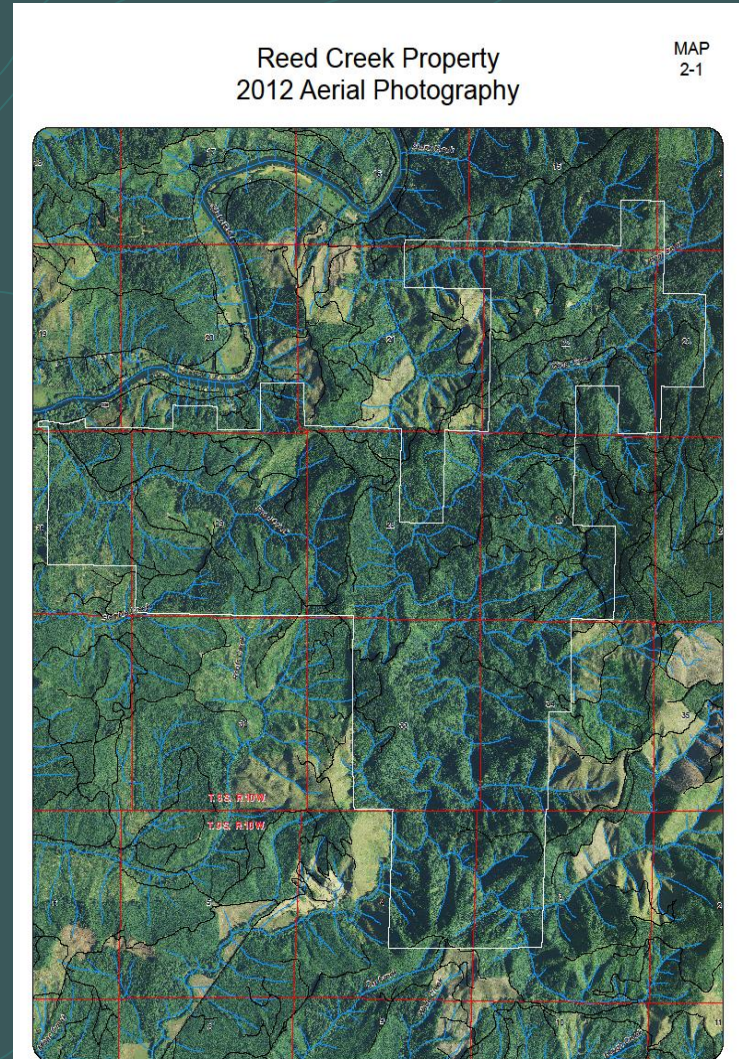


Before and After

2005



2012











Challenges

- Heavy black bear population (some bears like to eat bark of thinned trees)
- MAMU populations declining (first round of surveys found fewer MAMU than expected)
- Funding (can property pay for itself?):
 - \$25k annual property taxes (\$150k paid to date)
 - Property upkeep (roads, gates, etc.)



Contact Info

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