

Global Issues – Local Solutions: Sustaining Forests in Oregon

Oregon Society of American Foresters Annual
Meeting,
Seaside Convention Center, Seaside, OR
April 26, 2012

Intensive Forestry on Public Forests

or

**Active Management on Oregon's State
Forests**



Oregon's State Forests



█ Lands owned by the Oregon Board of Forestry
█ Common School Fund lands owned by the State Land Board and managed by the Oregon Department of Forestry

Welcome to State Forests on the Northwest Oregon Coast

The Oregon Department of Forestry manages about 821,000 acres of forestlands. There are [four regional management plans](#) to guide operations.

ODF-managed lands are mostly concentrated in six large state forests:

[Clatsop State Forest](#)
[Elliott State Forest](#)
[Gilchrist State Forest](#)
[Santiam State Forest](#)
[Sun Pass State Forest](#), and
[Tillamook State Forest](#)



State Forests on Tillamook District

- “ State Forest manages Board of Forestry lands to achieve the Greatest Permanent Value and manage Common School Forest Lands to maximize revenues consistent with protecting environmental values. The management includes a full range of social, environmental, and economic benefits including: sustainable and predictable forest products, properly functioning aquatic habitats, native wildlife habitat, and recreation. Tillamook District accomplishes these goals through an organization of functional units: Planning, Contract, Reforestation, Engineering and Recreation.
- “ Two-thirds of the revenue from Board of Forestry Lands are distributed to the counties in which the lands are situated for distribution to local taxing districts. The State retains one third to cover land management costs. Revenue from Common School Lands go into the State Common School Fund.



Tillamook District - 252,320 Acres

Board of Forestry Land - 245,551 Acres

Common School Lands - 5,035 Acres

Tillamook County Land - 1,743 Acres

HARVESTING ACTIVITIES

2011 Product Sales

Forest Product	Number	Estimated Volume	Estimated Revenue
Advertised Timber Sales	13	45,486 MBF	\$10,634,798
Modified Clear Cut Acres	1974		
Partial Cut Acres	756		
Negotiated & Informal Sales	3	243.5 MBF	\$4,460
Miscellaneous Forest Products	27		\$4,300
Commercial Firewood Sales	1	10 cords	\$200
Wood Cutting Permits	1242	2,484 cords	\$12,420



Tillamook District Planning for Harvesting Activities

Annual Operation Plan Objectives include:

- Modified Clearcut Range - 850 to 3,450 acres
- Partial Cut Range - 800 to 3,150 acres
- Annual Harvest Objective – 47 MMBF
- Harvest plans aligned with meeting a Desired Future Condition of 40% complex stand conditions across the landscape.

Modified Clearcut Operations



Modified Clearcut Operations

Terrain in the Tillamook district is very steep and rugged. Provides for additional operational challenges, including: high road costs, limited landing space, exposure to land features prone to slide.

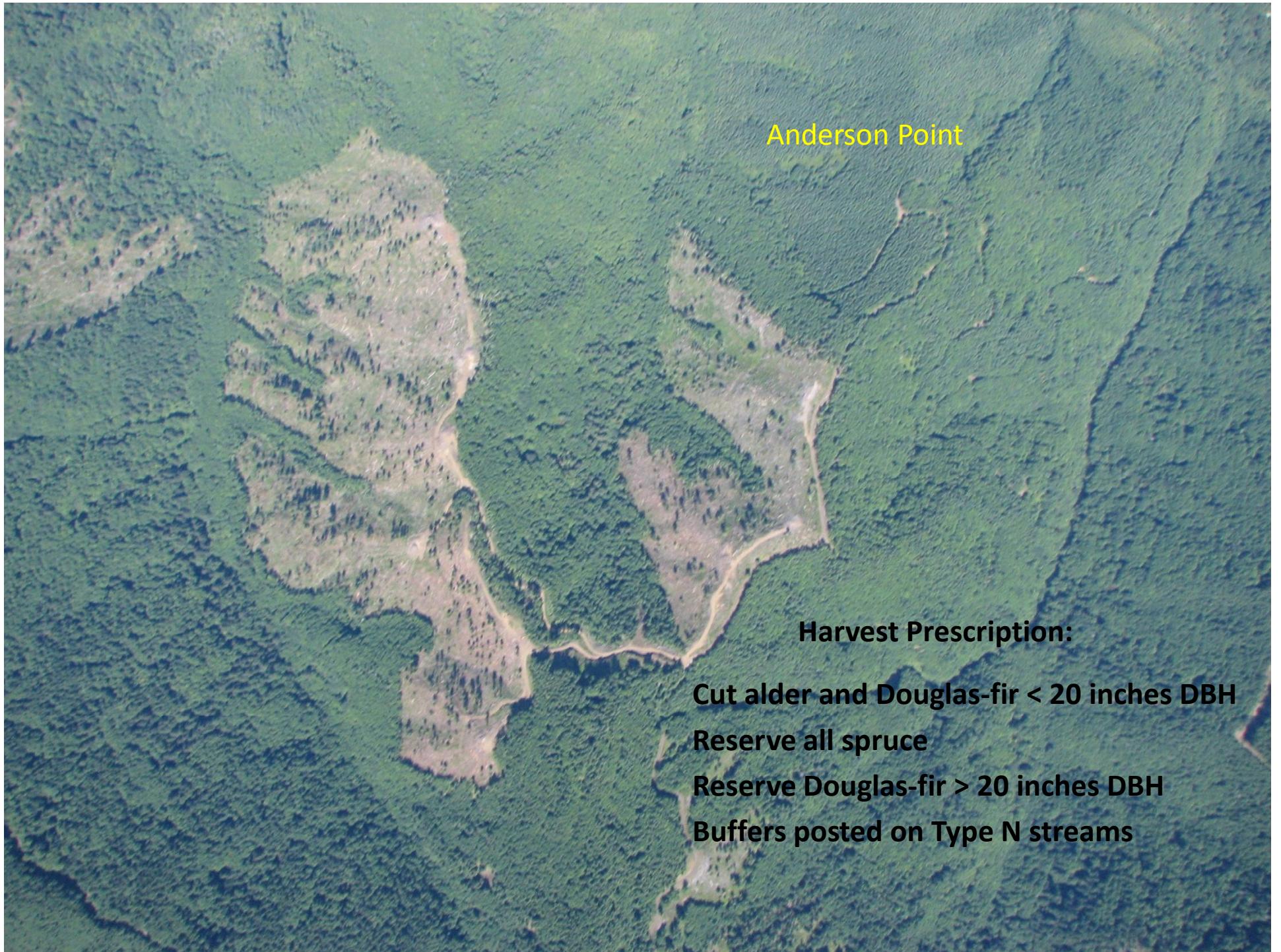
Majority of operations are harvested with cable yarding.



Modified Clearcut Operations

Many modified clearcut operations are implemented to address forest health issues, that include: Swiss Needle Cast, poor performing trees from off-site seed, and the infamous “zombie” alder.





Anderson Point

Harvest Prescription:

Cut alder and Douglas-fir < 20 inches DBH
Reserve all spruce
Reserve Douglas-fir > 20 inches DBH
Buffers posted on Type N streams



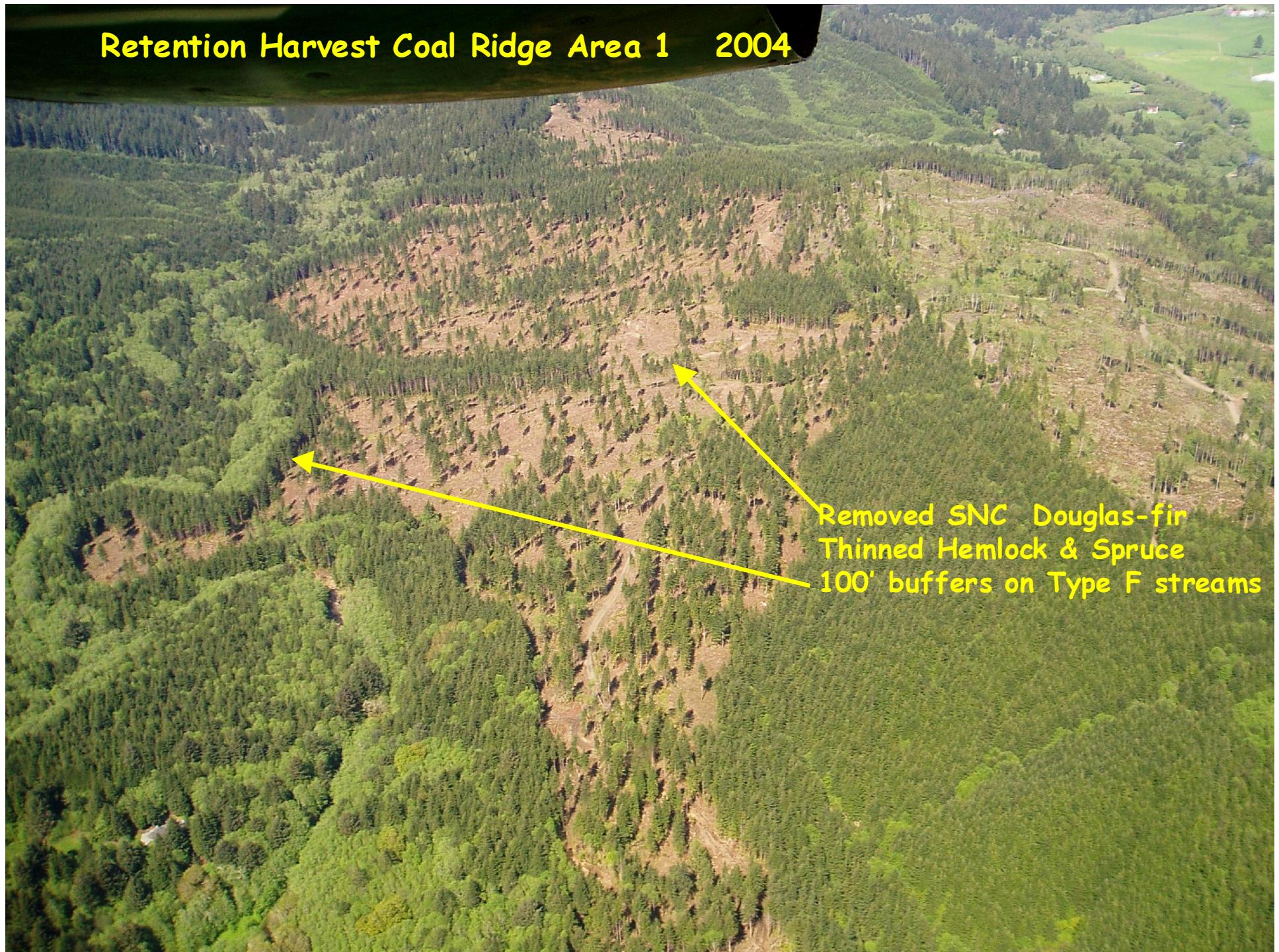


Clear Creek Ridge

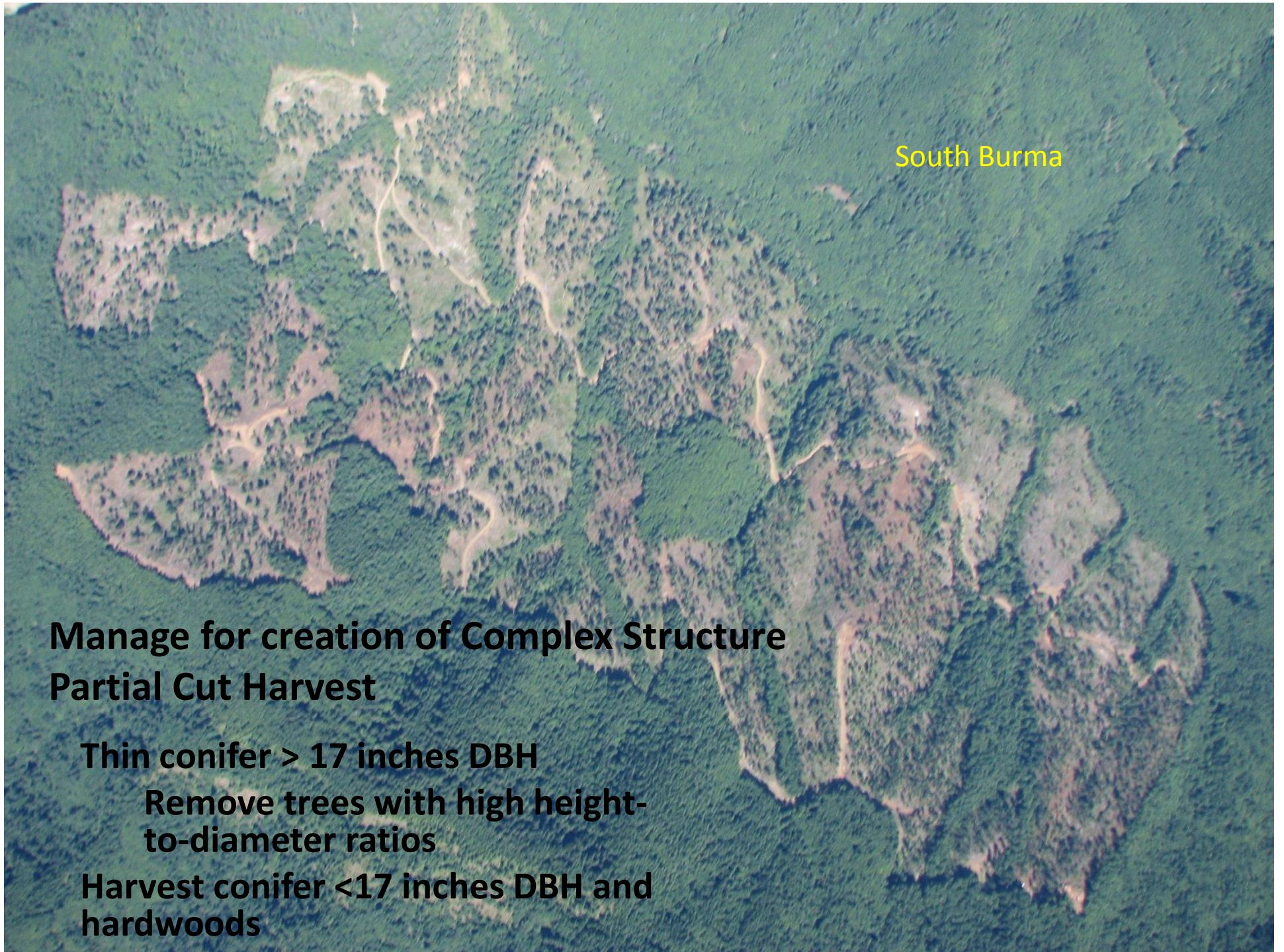
Partial Cut Operations



Retention Harvest Coal Ridge Area 1 2004





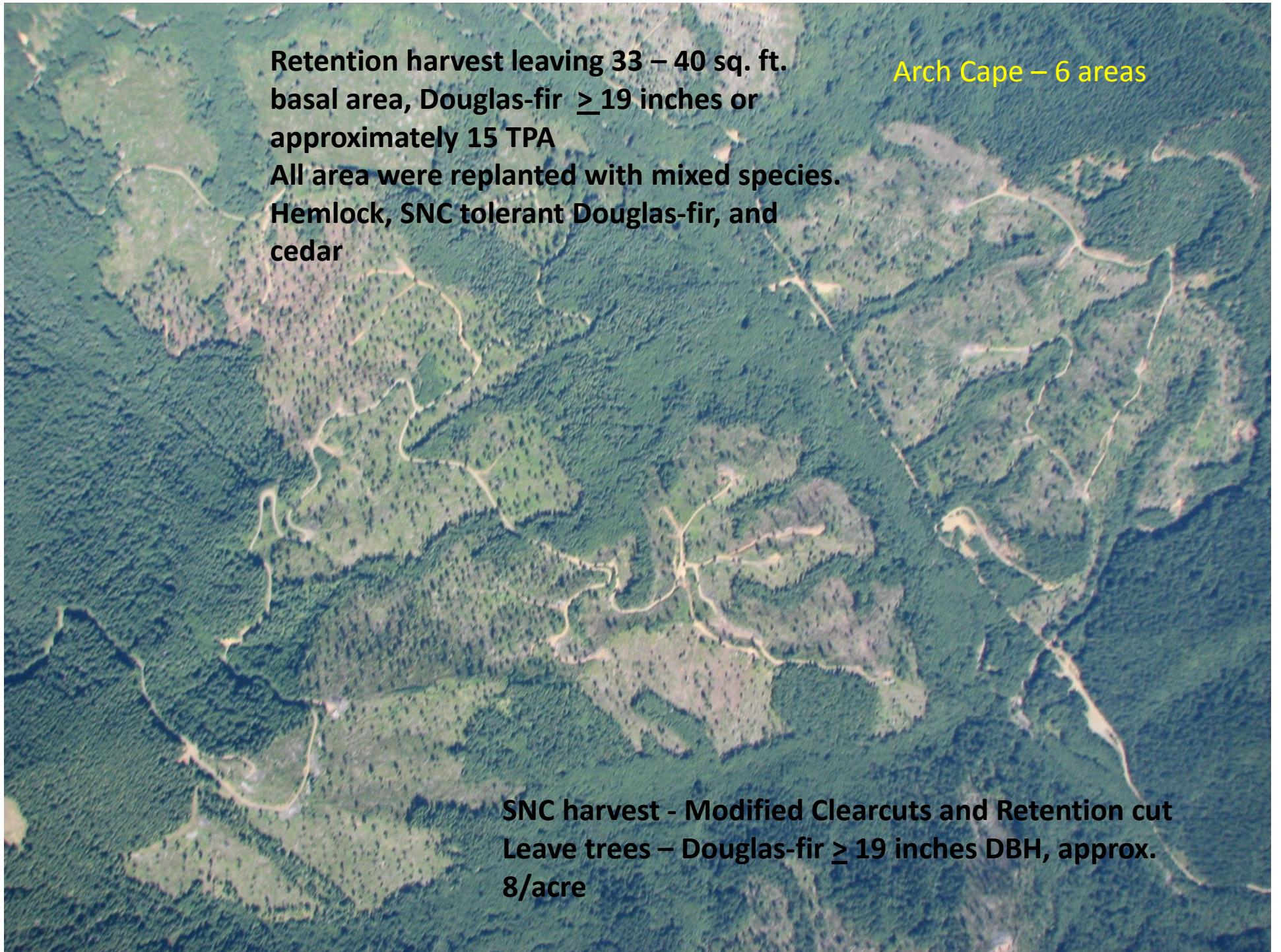


**Manage for creation of Complex Structure
Partial Cut Harvest**

Thin conifer > 17 inches DBH

Remove trees with high height-to-diameter ratios

Harvest conifer <17 inches DBH and hardwoods



Retention harvest leaving 33 – 40 sq. ft.
basal area, Douglas-fir \geq 19 inches or
approximately 15 TPA

All area were replanted with mixed species.
Hemlock, SNC tolerant Douglas-fir, and
cedar

Arch Cape – 6 areas

SNC harvest - Modified Clearcuts and Retention cut
Leave trees – Douglas-fir \geq 19 inches DBH, approx.
8/acre

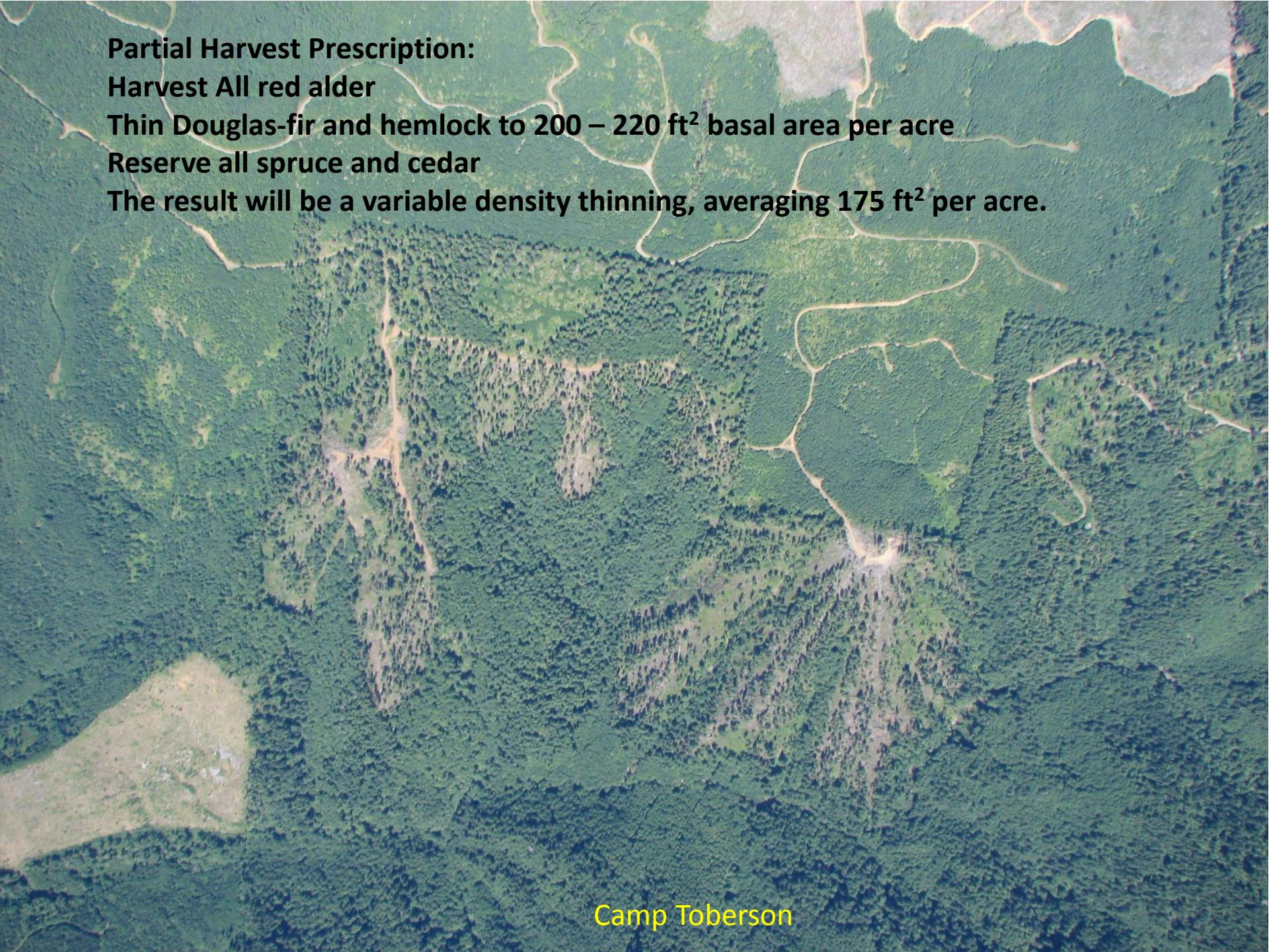
Partial Harvest Prescription:

Harvest All red alder

Thin Douglas-fir and hemlock to 200 – 220 ft² basal area per acre

Reserve all spruce and cedar

The result will be a variable density thinning, averaging 175 ft² per acre.



Camp Toberson

Reforestation

2011 Reforestation Statistics

	Acres
Initial tree planting	1027
Interplanting	124
Release—Aerial	0
Release—Manual	1570
Site Prep—Aerial	690
Site Prep—Manual	81
Tubing Protection	212
Tube Maintenance	0
Trapping	1624
Pre-Commercial Thin	106
Total trees planted	438,705
Roadside Spray-Scotch Broom ARRA	362
OHV Trail Spray—Scotch Broom ARRA	2
Pre Commercial Thin ARRA	1247



Tree Planting

Planting Acres by fiscal year

Fiscal Year	Intial Plant Acres	Inter Plant Acres	% Inter Plant
2010	3330	250	8
2009	2706	185	7
2008	3300	525	16
2007	2170	712	33
2006	4072	1261	31
2005	2108	450	21
Totals	17,686	3,383	

Six Year Planting Total =

21,069 ACRES

**7,000 Acres per year
of Stocking Surveys**

Planting Prescriptions

- “ Planting 3-4 species of seedlings in most units DF, WH, NF, and WRC
- “ Percent DF planted increases as we move east across the district, south facing slopes and areas of more intense browse pressure
- “ NF planted on higher elevation ridge tops and exposed areas
- “ Small units 5-20 acres are planted with a 50 percent mix of WRC and another tree species
- “ Natural regeneration of SS and RA



Site Prep and Release

” Emphasis shifted to site prep and less release

	Site Prep	Release
Fiscal Year	Acres	Acres
2010	3,000	750
2009	2,600	0
2008	3,067	1,739
2007	1,760	1,726
2006	1,855	0
2005	1,382	1,215



Site Prep and Release

”Site Prep vs. Release



- ” Difficult to release units with mixed tree species, WH and WRC
- ” Site prep decreases boomer and (big game?) damage
- ” All units are trapped for boomers by South Fork

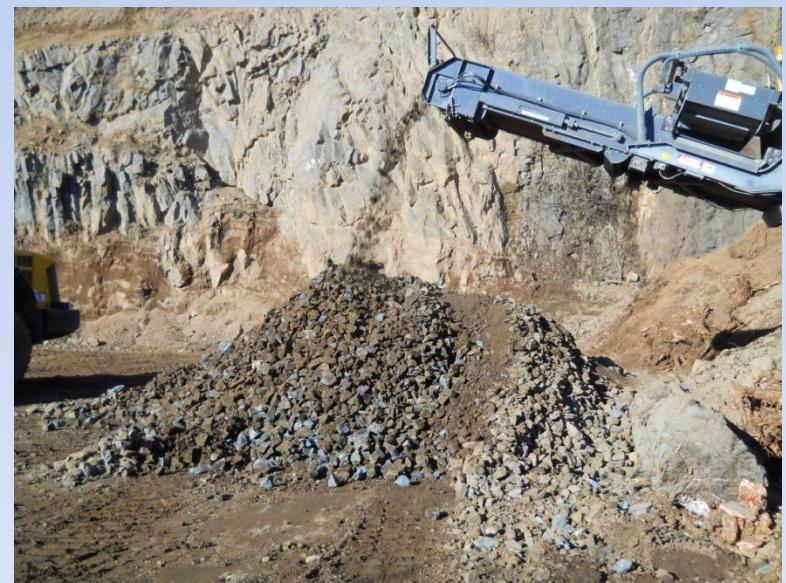
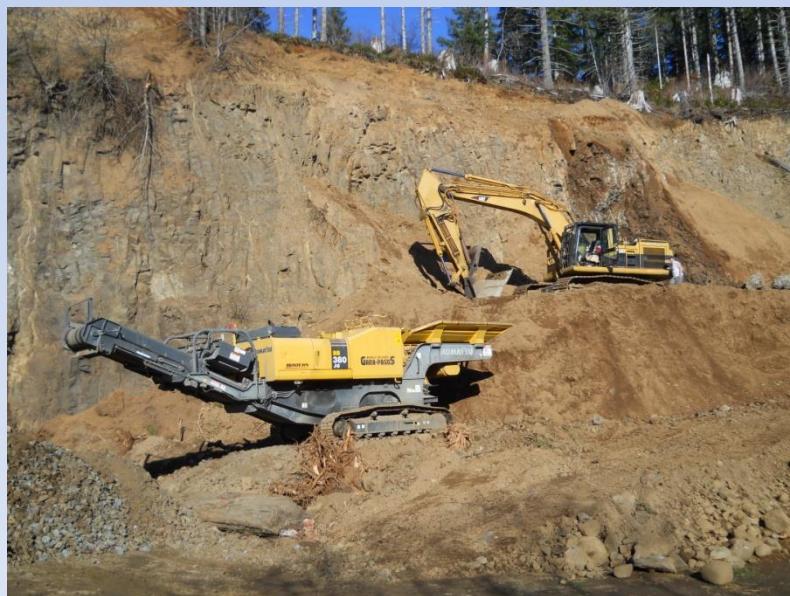
Engineering

2011 Engineering Accomplishments

Roads maintained	212 miles
Roads improved	31.0 miles
Roads constructed	10.1 miles
Roads vacated	.9 miles
Roadside brush control	363 miles
Bridges installed	3



Engineering Activities



Recreation

2011 Recreation Statistics

Registered Overnight Campers	14,156
Campground Revenue	\$53,484
Hiking Trail Construction	0
Non-motorized trail maintenance	21 miles
OHV Trail Bridge Construction	0
OHV Trail Maintenance	48 miles
Volunteer Hours	3,798



Overview of Recreation Management

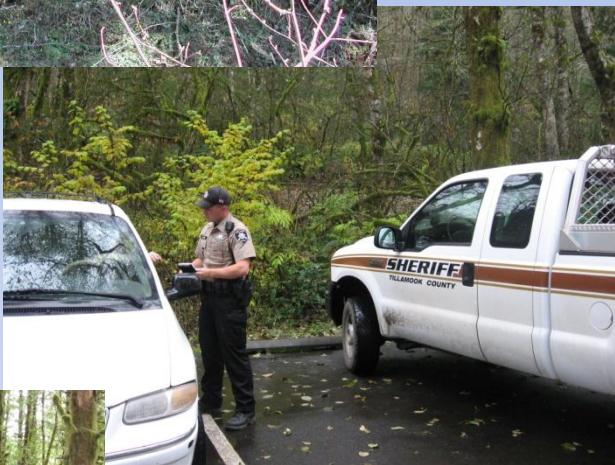
- “ Recreation use has been taking place on the Tillamook State Forest and the Tillamook District for more than 60 years and has been managed in varying degrees since the 1960’s.
- “ Current direction for management of recreation/public use flows from the Tillamook State Forest Comprehensive Management Plan (1993), the Recreation Action Plan 2000 (2001) and the NW Forest Management Plan.
- “ Recreation activities such as camping, fishing, hunting, sight-seeing, and motorized and non-motorized trail use continue to be popular year round and use at developed and dispersed camping areas continues to grow.
- “ The district manages 3 campgrounds, 3 OHV staging areas, six day-use sites, and multiple trailhead facilities that provide access to motorized and non-motorized trail network.





The Recreation Team

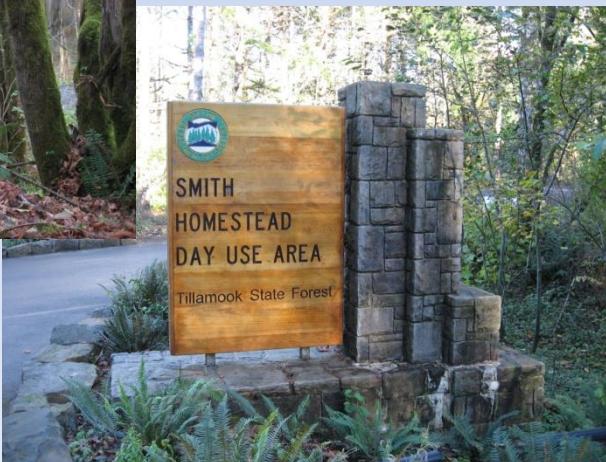
- " District Recreation Unit Staff
- " District Admin Unit
- " District Engineering Unit
- " Protection Unit
- " Tillamook Forest Center
- " South Fork
- " Volunteers
- " Contractors
- " Tillamook County Sheriff's Deputies
- " Tillamook County 911



Managing behavior in the Forest



Tillamook Forest Center – Partners in Recreation Management



- Increased opportunities for recreational users on the Tillamook District
- District rec program provides support for maintenance, education programs, new developments, and visitor contact
- TFC provides visitor information
- TFC produces interpretive sites, signs and brochures

Miami River Project
Tillamook Bay Watershed Council
October 2011

- “ On-going planning since 2008
- “ Partnership between Watershed Council, ODFW, ODF
- “ Funded through OWEB, USFWS with in-kind work from ODFW and ODF.

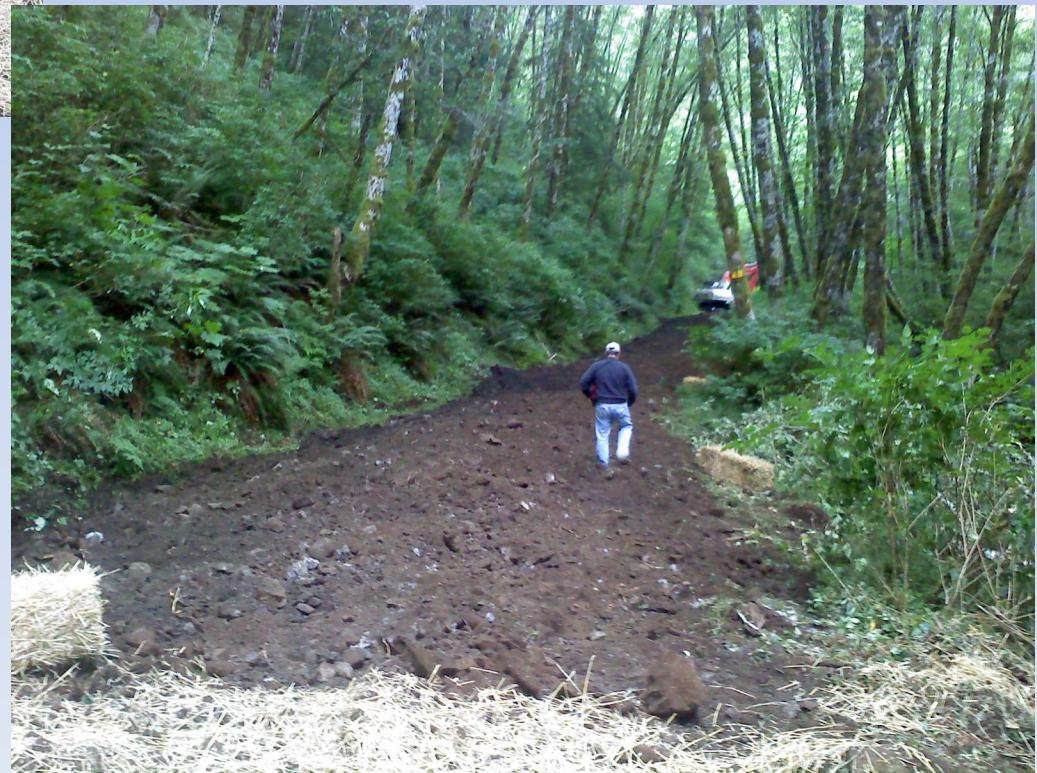
Road Closure

- "Removal of bridges
- "Removal of riprap
- "Pulling culverts





“Ripping road surface
“Seeding road surface
“Planting shrub and tree species





In-stream log placement - oversight
by ODFW

Logs purchased through grants and
some from ODF lands (road
R/W).



Other Forest Challenges



Actively moving landscape –
Ben Smith Landslide

Threatened & Endangered Species – Management and Recovery



Big Game Management
and Browse Control





The End

Any Questions?