

WASHINGTON STATE DEPARTMENT OF

Natural Resources

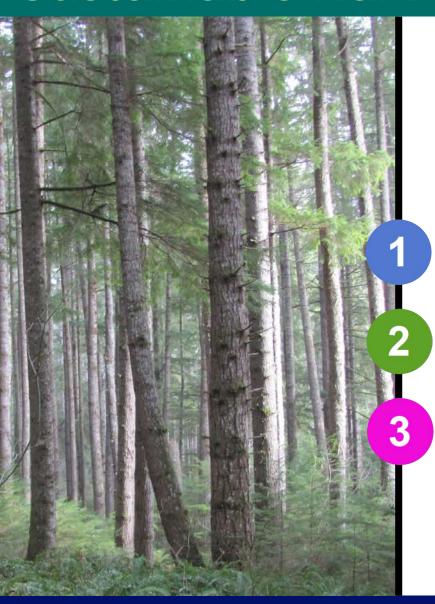
Peter Goldmark - Commissioner of Public Lands

Western Washington Sustainable Harvest Calculation

For forested State Trust Lands
A Report to the Board of Natural Resources

Kyle Blum and Angus Brodie May 2016





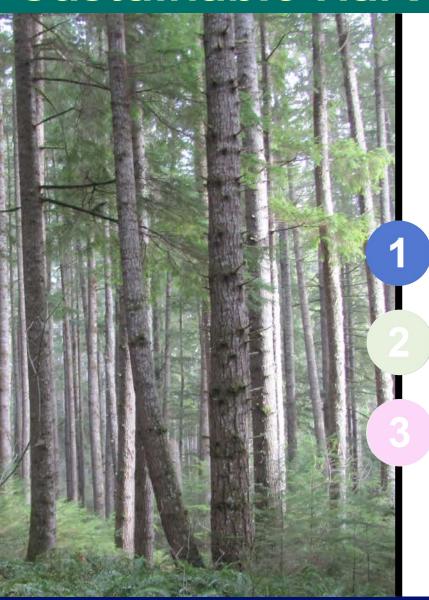
This Month:

Overview of SHC Rules and Guidance

Policies that effect the Land Base

Financial Assumptions





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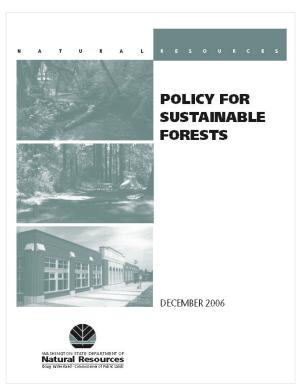


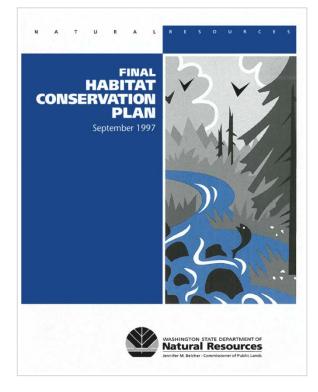
RCW

PSF

HCP

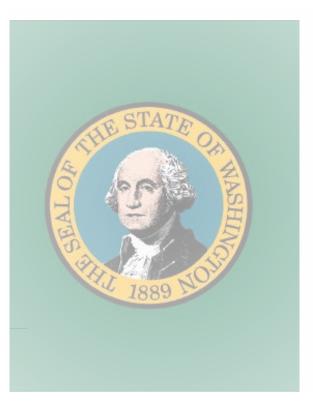








Revised Code of Washington



79.10.310 – Sustained yield plan

79.10.320 – Sustainable harvest program

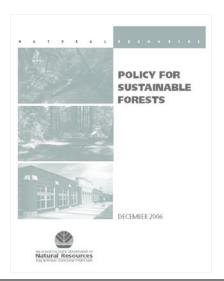
79.10.330 – Arrearages

79.10.340 – Sustainable harvest sale

79.10.120 – Multiple use



PSF, HCP



SHC Guidance

Definition of Sustainability

Sustainable Harvest Units

Harvest Flow

Optimize Economic value

Harvest Deferrals

Management Policy

Old Growth

Genetic Reserves

Cultural Resources

Visual Impacts

Public Access



Northern Spotted Owl

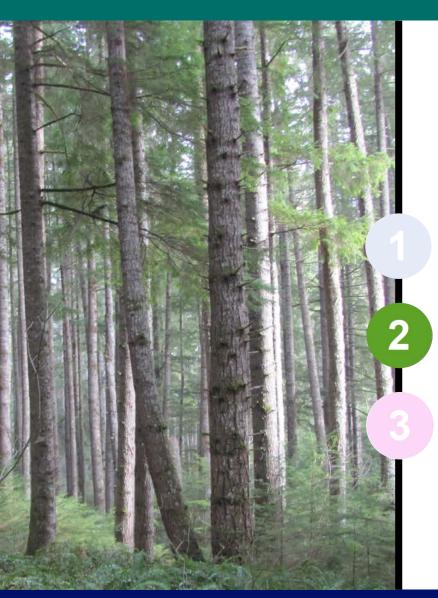
Riparian

Marbled Murrelets

Multiple Species Strategy

Olympic Experimental State Forest





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Sustainable Harvest Units



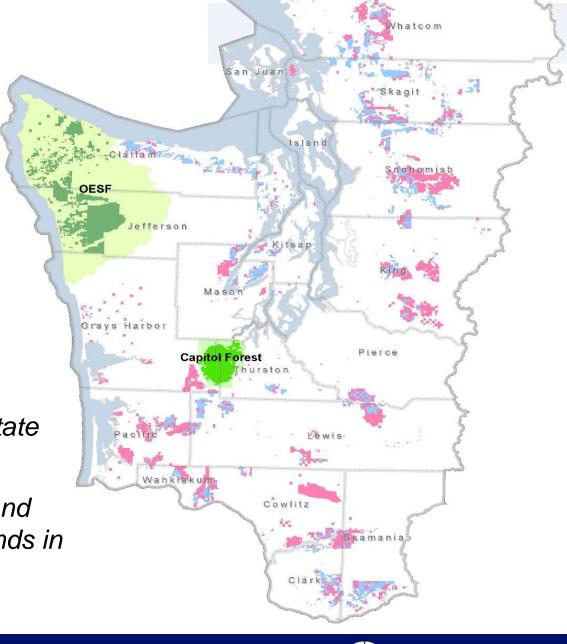
Olympic Experimental

State Forest (OESF)

1 Capitol State Forest

17 County beneficiaries of State Forest Trust lands

Federally granted trusts and State Forest Purchase lands in Western Washington





Deferrals

Riparian / Wetlands

Northern Spotted Owl

Marbled Murrelet

Multiple Species

Other Policies



Natural Areas Preserves and Natural Resource Conservation Areas

Old Growth

Northern Spotted Owl – High Quality

Riparian areas

- Desired Future Condition
- Potential Unstable Slopes

Potentially Unstable Slopes



Deferrals

Riparian / Wetlands

Northern Spotted Owl

Marbled Murrelet

Multiple Species

Other Policies



Riparian Conservation Strategy

- Riparian Forest Restoration Strategy in the 5 Westside HCP units
- OESF



Deferrals

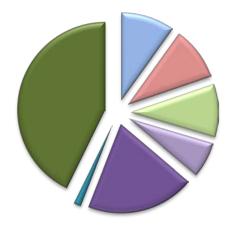
Riparian / Wetlands

Northern Spotted Owl

Marbled Murrelet

Multiple Species

Other Policies



Nesting, Roosting, Foraging

Dispersal

OESF



Deferrals

Riparian / Wetlands

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Multiple Species

Other Policies



Interim Strategy
Long Term Conservation Strategy



Deferrals

Riparian / Wetlands

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Multiple Species

Other Policies

Bats

California wolverine

Common loon

Gray wolf

Harlequin duck

Northern goshawk

Oregon silverspot butterfly

Pacific fisher

Pileated woodpecker

Vaux's swift

Balds

Cliffs

Caves

Mineral Springs

Oak woodlands

Talus

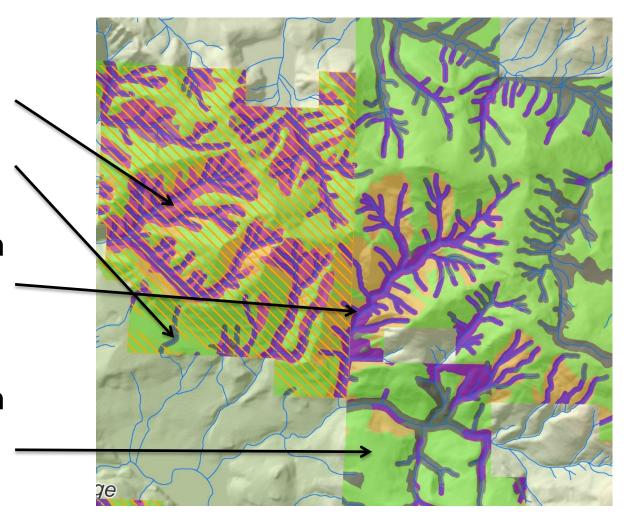


• Deferrals

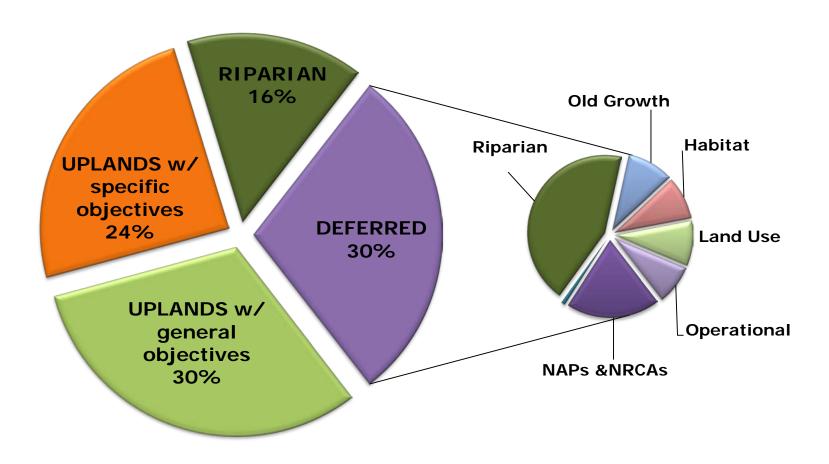
• Riparian

Uplands with specific objectives

 Uplands with general objectives







Total forested area of DNR-managed lands in western Washington = 1.46 million acres Includes Natural Area Preserves (NAPs) and Natural Resource Conservation Areas (NRCAs)



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Other Policies



Unstable Slopes

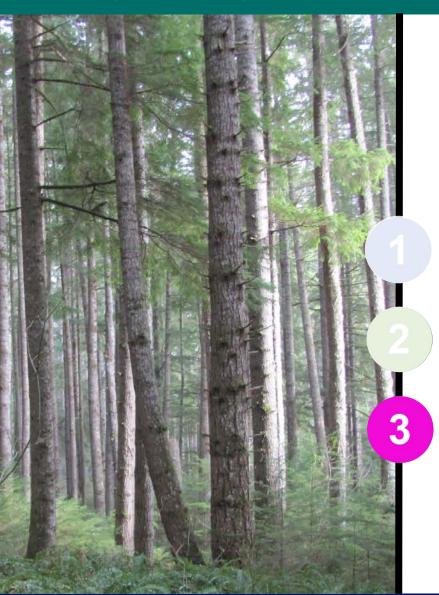
Cultural Resources

Special Features

Neighbors

Visual Impacts





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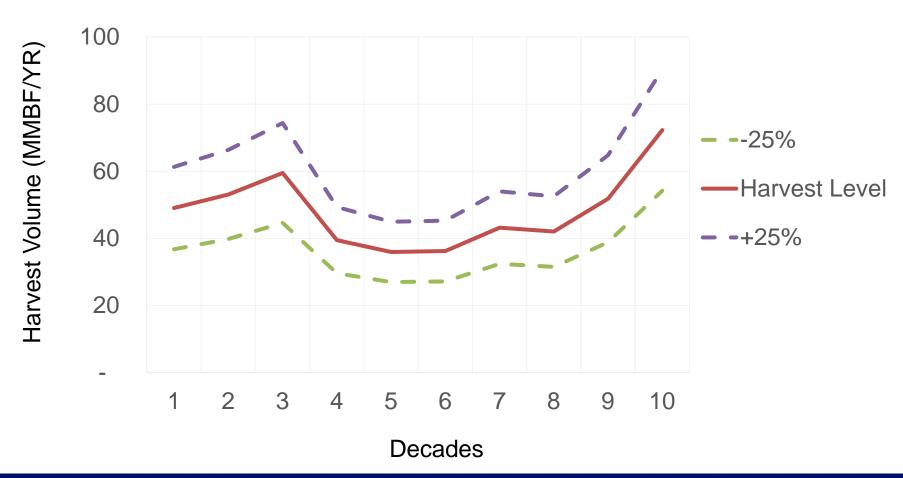
Policies that effect the Land Base

Financial Assumptions



Harvest Flow Control







Optimizing Economic Value

"The department will analyze the financial characteristics of forest stands <u>in order to optimize the economic value</u> <u>of forest stands and timber production over time</u>, in calculating the sustainable harvest level,...."

Policy on Definition of Sustainability for the Sustainable Harvest Calculation Policy for Sustainable Forest, 2006, page 29



Management Fees

Legislative Ceiling

Board Decision

32%

RMCA

31%

27%

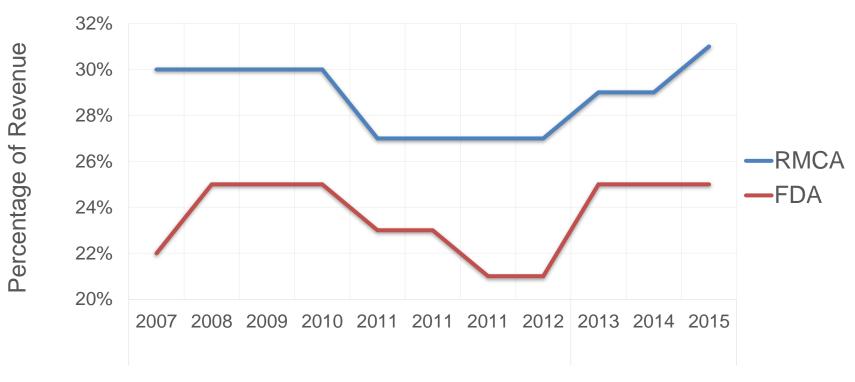
FDA

25%



Management Fees

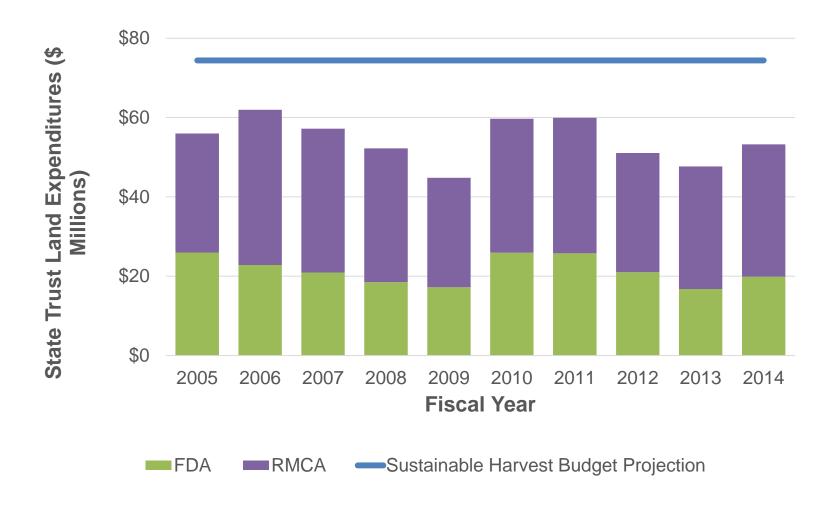
Management Fees By Fund



Fiscal year



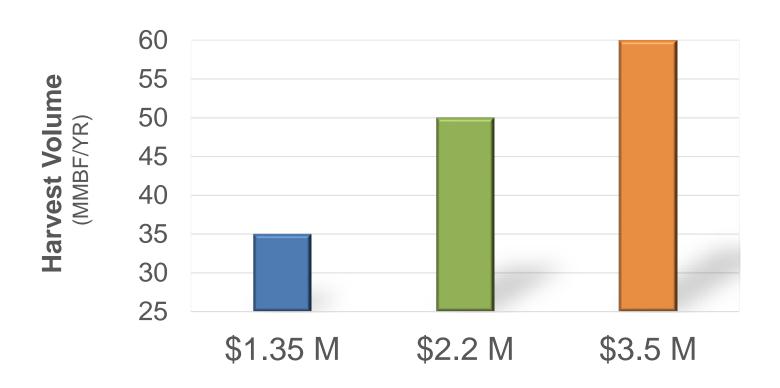
Management Fees





OESF Example

Decade 1 harvest under different annual budget scenarios



Westside Forestry Expenditures

1 fiscal year from '13-15 biennium

\$47,000,000

| Direct | Timber Sales | \$13,672,000 | 46% |
|----------|--------------------------------|--------------------------|-------|
| Dilect | Silviculture | \$7,844,000 | 40 /0 |
| | Informatics | \$3,208,000 | |
| | НСР | \$997,000 | |
| | Research & Monitoring | \$1,049,000 | |
| | Seed Orchard/Seed Planting | \$974,000 | 23% |
| | Transactions | \$871,000 | |
| | State Lands Infrastructure | \$617,000 | |
| | Title and Records Office | \$549,000 | |
| | Leasing & Rights of Way | \$2,479,000 | |
| Indirect | Facilities | \$3,217,000 | |
| | Region Admin Adjustments | \$2,581,000 | |
| | Information Technology | \$2,555,000 | |
| | Executive Management | \$1,387,000 | |
| | Legal Affairs | \$1,096,000 | 240/ |
| | | | 31% |
| | Miscellaneous | \$1,379,000 | 31/0 |
| | Miscellaneous Law Enforcement | \$1,379,000 \$846,000 | 31/0 |
| | | | 31/0 |
| | Law Enforcement | \$846,000 | 31/0 |



Summary of Financial Assumptions

Costs

- Direct costs
 - •Timber sales (\$/acre)
 - Silviculture (\$/acre)
- Indirect costs

Prices

Stumpage price by species

Other

Discount rate



Upcoming Presentations

Marbled Murrelets

Updates to Analytical Framework
Impacts & Mitigation Outputs
NSO Habitat
Sensitivity Analysis
Dr. Peery's Model

Sustainable Harvest Calculation
Alternatives for the Draft EIS





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