

Forest Products and Forest Health in Central Washington Chelan County Forest Products Summit November 2023

Fundamental Forest Health Problems

-Too many trees...!





Fundamental Forest Health Problems

...and altered species composition!





dnr.wa.gov

Leads to severe wildfires and insect outbreaks.



Cub Creek Fire 2021, high severity. Okanogan County.



Lodgepole pine killed by the mountain pine beetle. Loomis State Forest, Okanogan County.



20-Year Forest Health Strategic Plan



20-YEAR FOREST HEALTH STRATEGIC PLAN EASTERN WASHINGTON



Released in October 2017

- Treat 1,250,000 acres by 2037:
 (62,500 acres per year)
- Sets vision, guiding principles, & process for moving forward
- All lands approach
- > Science based
- Watershed prioritization for forest health
- Social license: over 30 organizations involved.



DNR's Forest Health Strategic Plan: Goals

Goal 1

• Conduct 1.25 million acres of scientifically sound, landscape scale, cross-boundary management and restoration treatments in priority watersheds to increase forest and watershed resilience by 2037.

Goal 2

• Reduce risk of uncharacteristic wildfire and other disturbances to help protect lives, communities, property, ecosystems, assets and working forests.

Goal 3

• Enhance economic development through implementation of forest restoration and management strategies that maintain and attract private sector investments and employment in rural communities.

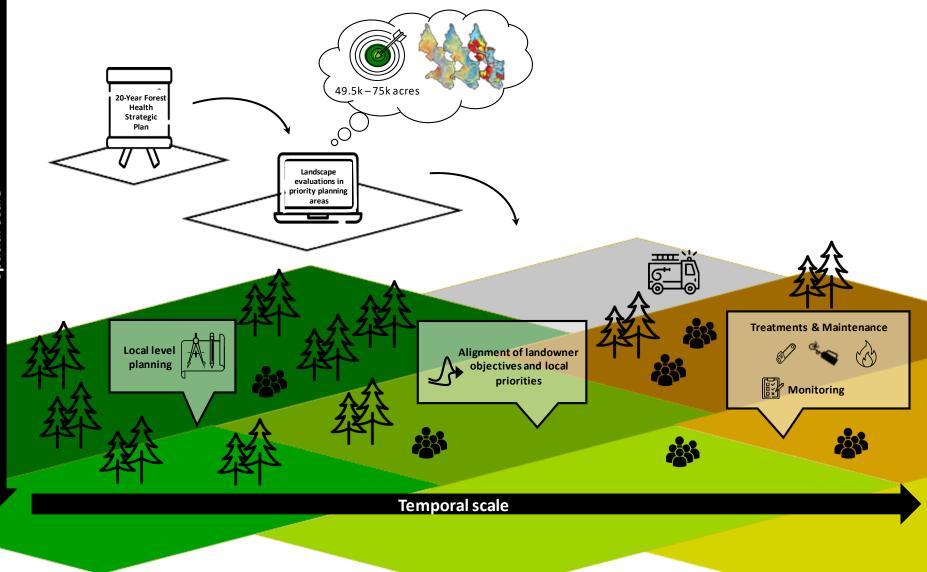
Goal 4

• Plan and implement coordinated, landscape-scale forest restoration and management treatments in a manner that integrates landowner objectives and responsibilities.

Goal 5

 Develop and implement a forest health resilience monitoring program that establishes criteria, tools, and processes to monitor forest and watershed conditions, assess progress, and reassess strategies over time.

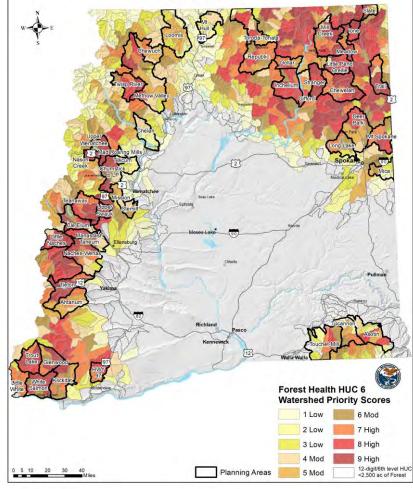




Spatial scale

Eastern Washington Priority Planning Areas

Priority Planning Areas for 20-Year Forest Health Strategic Plan Eastern Washington Forest Health HUC 6 Watersheds Priority Scores October 2022



Assessment of 37 priority landscapes covering 4,165,780 acres in eastern Washington.

Analyze 10 more priority planning areas next biennium, representing an additional 1,108,883 acres.

47 total priority planning areas totaling more than 5.2 million acres.



Landscape evaluation

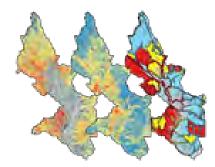
Components

- 1. Identify ownership types and management objectives
- 2. Map vegetation and forest types
- 3. Map current forest structure and species composition
- 4. Assess departure of forest structure
- 5. Assess wildfire risk
- 6. Analyze drought vulnerability
- 7. Map habitat for focal species
- 8. Evaluate aquatic functions
- 9. Estimate treatment targets
- **10.** Evaluate operational feasibility and economics
- 11. Map dense forest, large tree sustainability
- **12.** Prioritize landscape treatments
- **13.** Prioritize wildfire response benefit
- 14. Prioritize for dual benefit using Potential wildland fire Operational Delineations

Assess Treatment Need



Prioritize Treatment Location



49.5k – 75k acres

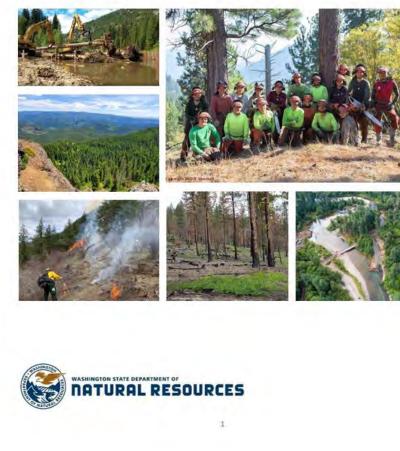
2018 Version 1.0

> 2020 Version 2.0

HB1784

Forest Health Assessment and Treatment Framework

RCW 76.06.200





Forest Health Treatment Needs 2018-2022

Planning Area	Forest Structure Class (acres)			
	Small Dense ¹	Medium-Large Dense ²	Medium-Large Open ³	Total treatment need
2018 Structure Class Total	10,000 - 17,000	240,700 - 342,900	33,000 - 63,700	283,700 - 423,600
2020 Structure Class Total	17,750 - 30,900	378,500 - 516,100	113,250 - 177,500	509,500 - 724,500
2022 Structure Class Total	4,500 - 7,750	118,500 - 168,000	27,850 - 43,950	150,850 - 219,700
Structure Class Total	32,250 - 55,650	737,700 - 1,027,000	174,100 - 285,150	944,050 - 1,367,800
Grand Total (2018, 2020, and 2022 planning areas)	962,070 - 1,385,820 a cres			
Anticipated Treatment Type	¹ Noncommercial thin plus fuels treatment. May be fire only (prescribed or managed wildfire).			
	² Commercial thin plus fuels treatment if access exists. May be noncommercial, fire only (prescribed or managed wildfire), or regeneration treatment.			
	³ Maintenance treatment: prescribed fire, managed wildfire, or mechanical fuels treatment. Target range corresponds to 50-75% of dry open and 25-50% of moist open forests.			
Notes	Grand Total includes acres from planned US Forest Service treatments in the Tillicum and Mission Maintenance planning areas that are not in the Structure Class Total.			



Landscape treatments

Forest health treatment **goals** will primarily be achieved with **large**, **landscape-level** treatments



49.5k – 75k acres



Recently completed 700-acre forest health treatment on DNR trust lands in the Methow Valley priority planning area. Credit: John Marshall.

Forest health toolbox

A variety of **forest health treatment types** will be needed to achieve forest health treatment goals in a priority planning area.



Treatment types

-Commercial thinning -Prescribed fire





-Managed wildfire

-Non-commercial treatments







- 1. Political will and support
- 2. Funding
- 3. Not working at appropriate scale
- 4. Complex regulatory and policy environment
- 5. Lengthy NEPA planning process
- 6. Lack of projects (shelf stock)
- 7. Local forest product mills





1. Political will and support

-DNR 20-Year Forest Health Plan -USFS Wildfire Crisis Strategy

2. Funding

-\$100+ million (CWI USFS funds) -\$5 million+ (DNR state funds)

3. Not working at appropriate scale

 -54 million board feet timber sold (FY 23)
 -Planning at landscape scale
 -4,000 acres of treatments implemented
 in Tillicum watershed over 1.5 years



20-YEAR FOREST HEALTH STRATEGIC PLAN EASTERN WASHINGTON





4. Complex regulatory and policy environment

-LSRA Update in progress

5. Lengthy NEPA planning process

-Western Firesheds Emergency Action Declaration (Bipartisan Infrastructure Law, Section 4087)





6. Lack of projects (shelf stock)

-Recent NEPA Decisions
-Upper Wenatchee
-Twisp
-Taneum
-Little Naches
-NEPA in progress
-Upper Swauk
-Chumstick to LP
-Midnight Restoration
-Upper Methow
-Tieton

7. Local forest products mills

-Chelan County Wood Innovations Grant -TNC Forest Restoration Supply Study





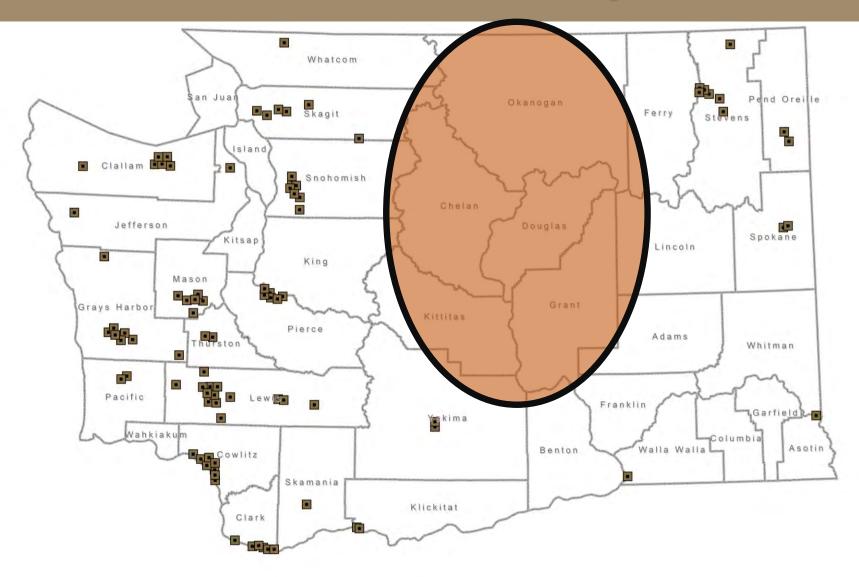


WA Sawmills and Pulp Mills



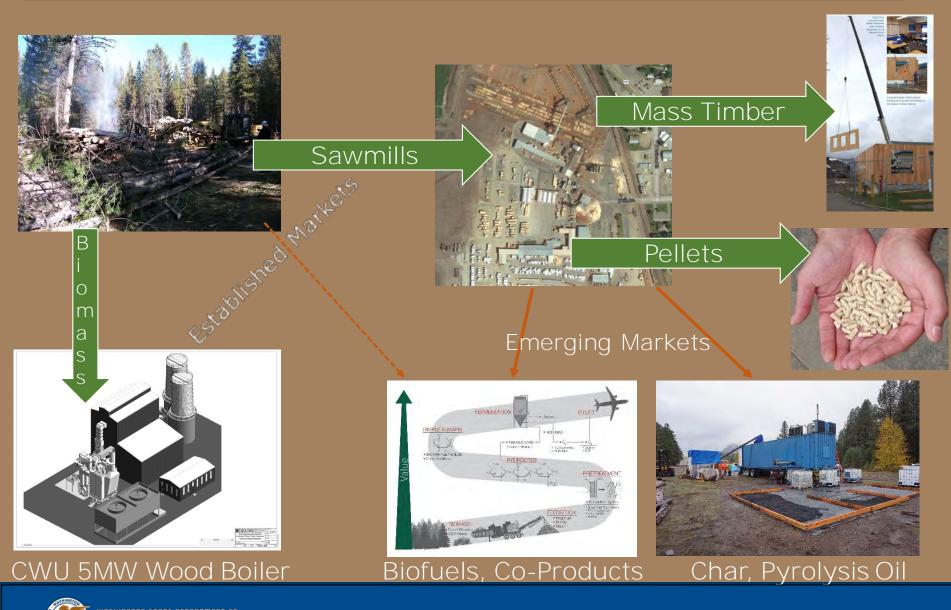


WA Sawmills and Pulp Mills





We need more markets for small-diameter trees!



Is it a coincidence?

OWNF Treatments 2017-Present



