

Washington State Forest Biomass Coordination Group



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The Team

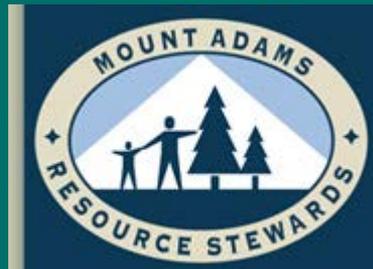
-WSFBCG was established in Spring 2013

-WSFBCG represents a wide range of stakeholders from state, federal and local governments; forest products industry; tribes; and environmental organizations working together to foster the sensible and sustainable use of forest biomass.



The Team

Membership includes representatives from the following organizations:



Leadership

-Executive committee comprised of WA DNR, WSU Energy and WA Commerce.

-Committee develops meeting agendas and coordinates WSFBCG activities.



WSFBCG Objectives

- Provide opportunities for collaboration on forest biomass energy projects.
- Act as the primary forum in WA for sharing forest biomass information.
- Provide strategic guidance and technical assistance for specific forest biomass efforts.
- Promote the utilization of woody biomass in eastern Washington to reduce wildfire risk and improve forest health.



Initial Team Focus

- State wood energy team
- Northwest Advanced Renewables Alliance
- Combined heat and power opportunities and incentives
- Mobile pyrolysis demonstration
- Regional biochar working group
- Wood pellet industry development

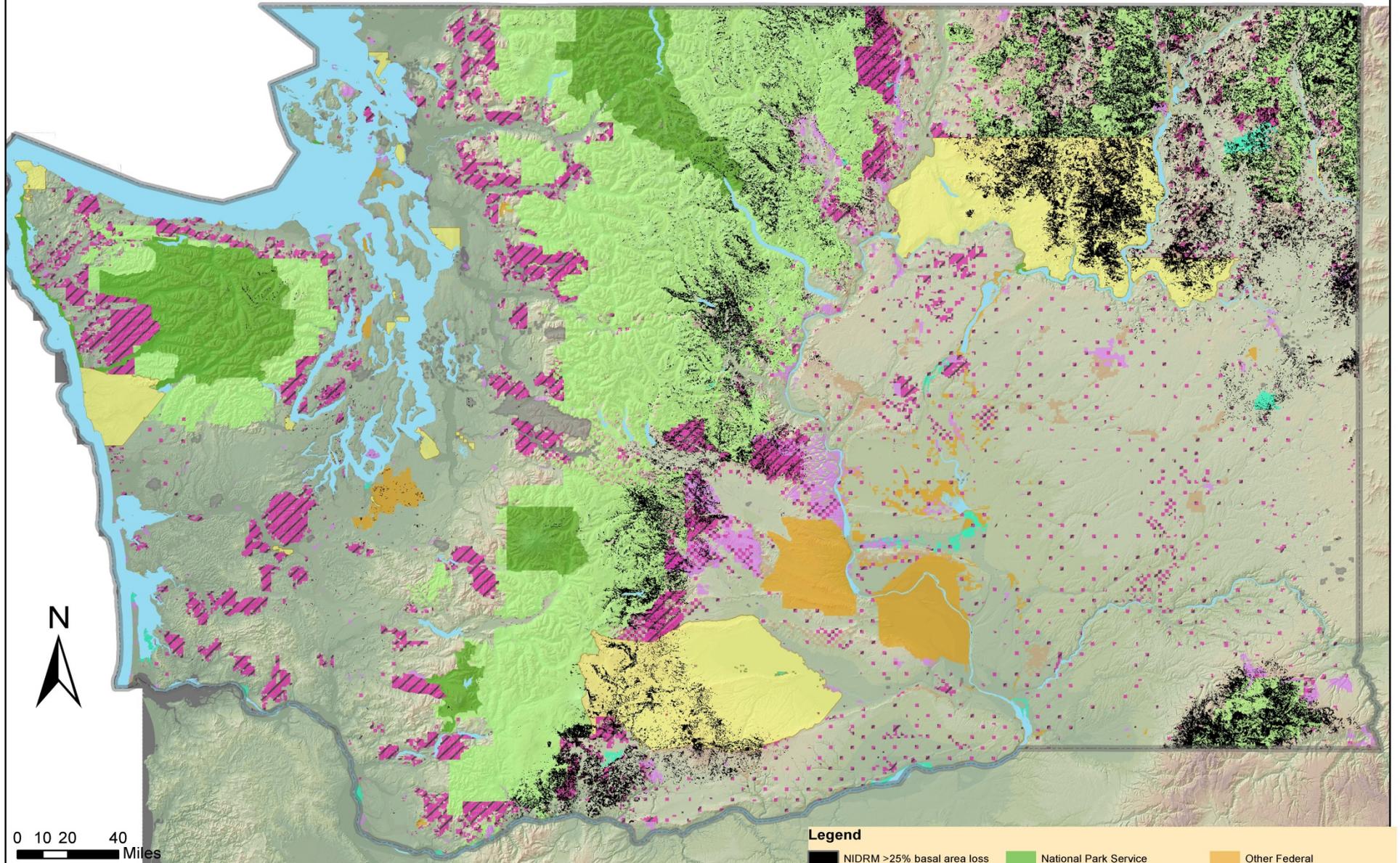


Challenges and Opportunities

- Low natural gas and electricity prices limit facilities where wood energy makes economic sense.
- WSU and UW have each received \$40 million USDA grants to study converting wood to aviation fuels.
- Sustainable Aviation Fuels Northwest and Aviation Biofuels Workgroup



National Insect and Disease Risk Map: Estimated tree basal area loss 25% or greater 2013 to 2027



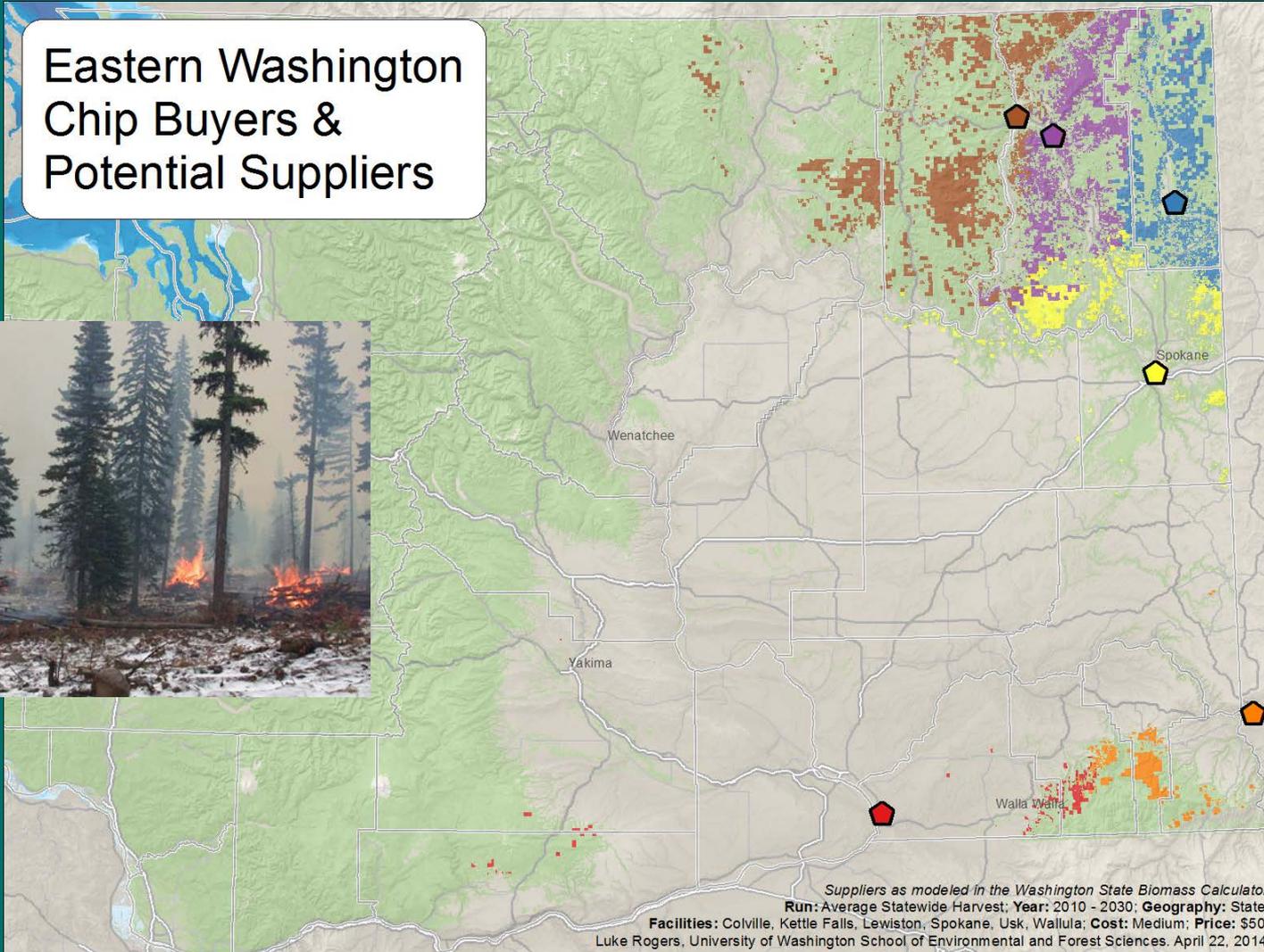
Legend

- NIDRM >25% basal area loss
- National Park Service
- US Fish and Wildlife Service
- Other Federal
- DNR-Managed (Surface) Lands
- Tribal Lands
- US Bureau of Land Management
- County, Municipal or University
- US Forest Service
- Other State

Data Source: 2013-2027 National Insect and Disease Forest Risk Assessment, USDA Forest Service. Areas in black represent forestlands where 25% or more of the total tree basal area is expected to die over a 15 year time frame (2013-2027) from insects and diseases.

Challenges and Opportunities

Eastern Washington
Chip Buyers &
Potential Suppliers



Biomass Calculator:

<http://wabiomass.cfr.washington.edu/>

Challenges and Opportunities

-Department of Defense mandates to increase renewable energy use. Lots of DOD facilities in WA, need to find efficient means to partner with various military branches.

-WA has a renewable portfolio standard (15% renewables by 2020). However, few utilities have wood energy as part of portfolio.

-NARA: Fuels made from forest harvest residuals approx. 60% less greenhouse gas impact.



WSFBCG Activities

-Site Visits and Project Consultations:
Willapa Bay Hardwoods, Conrad Industries,
Mount Adams Resource Stewards, Wind
River Biomass LLC.

-Northwest Wood Energy Team Forum,
partnered with Oregon Forest Biomass
Working Group

-Mobile Pyrolysis Demonstration

-Forest Products Financial Assistance
Program (FPFAP)

-Bimonthly WSFBCG meetings



Forest Products Financial Assistance Program

-WA Dept. of Commerce reallocated over \$2.3 million from the USFS Forest Products Revolving Loan Fund to FPFAP.

-Goal of FPFAP: Support the development and expansion of the WA forest products industry with a focus on woody biomass energy projects.

-FPFAP is administered by WA. Dept. Commerce and the WSFBCG has been heavily involved in the program.



Forest Products Financial Assistance Program

FPFAP Funding Allocations

- \$400,000 for competitive feasibility studies
- \$300,000 for targeted feasibility studies
- \$400,000 for WSU K-12 wood energy assessments
- \$300,000 for Impact Washington forest products business development assistance
- \$927,000 strategic reserve for future efforts



Forest Products Financial Assistance Program

FPFAP Awards to Date:

-\$170,000 Inland Empire Paper, Spokane, WA
(water quality, targeted award)

-\$45,000 Cosmo Speciality Fibers, Cosmopolis, WA
(co-product market assessment, targeted award)

-\$50,000 Central Washington Resource Energy
Collaborative (feasibility study of 6MW CHP system at
Central Washington University, competitive award)

-\$50,000 Port of Port Townsend
(study of CHP boiler char effectiveness to filter heavy
metals out of storm water, competitive award)



WSFBCG Next Steps

- Plan an additional mobile pyrolysis demo in Fall 2014 and summarize monitoring results.
- Wood Energy Team Grant that will focus on:
 - Central Washington University CHP
 - Darrington, WA wood energy opportunities
 - Gifford Pinchot NF wood energy opportunities
- Second Round of FPFAP Competitive Feasibility Studies
- WSU K-12 Wood Energy Assessments
- Wood energy project consultation and technical assistance.
- Collaborate with regional partners from this forum.

