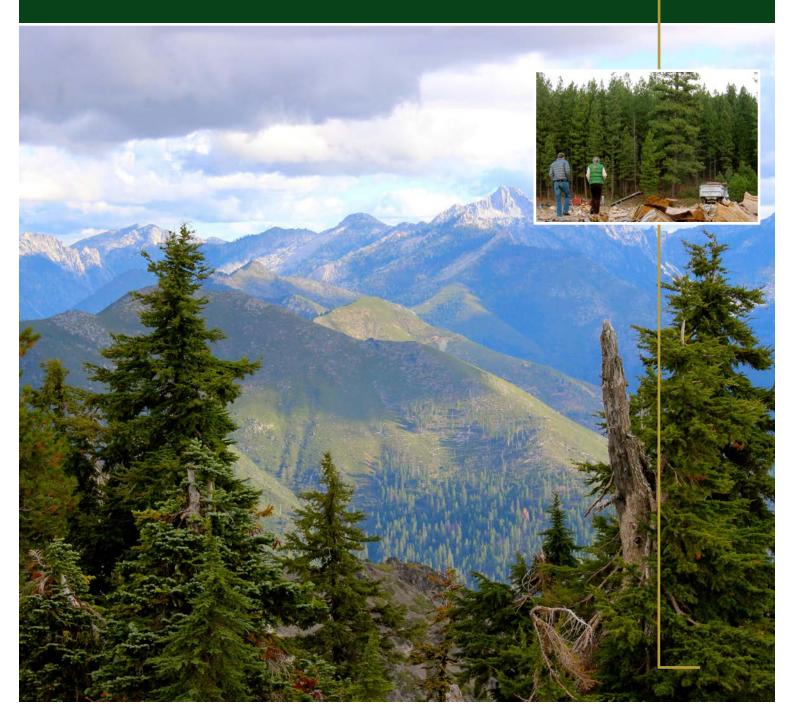
Dry Forest Zone Maps













Acknowledgments:

This project is made possible through financial support from the US Endowment for Forestry and Communities and USDA Rural Development.

About the Dry Forest Zone:

The Dry Forest Zone (DFZ) is a five-year project to address common natural resource-based economic development challenges through increased networking and capacity building at a regional scale. Sustainable Northwest leads this project in partnership with Wallowa Resources in northeastern Oregon, the Watershed Research and Training Center in northern California, and the Ecosystem Workforce Program at the University of Oregon. The central components of the DFZ strategy are: 1) To build strong local nonprofit organizations and collaborative processes to achieve forest and economic resilience, 2) Create multiple value streams from land management and incentives for forest restoration and stewardship, 3) Develop integrated biomass utilization and renewable energy; and 4) Create the policy conditions to support sustainable forest stewardship on public and private lands.

Maps and infographics by Autumn Ellison, Cody Evers, Greg Oldson, and Eric White, Ecosystem Workforce Program

Photos: Emily Jane Davis, Ecosystem Workforce Program

For additional information on the Dry Forest Zone project and its partners, contact:

Sustainable Northwest 813 SW Alder St, Suite 500 Portland, OR, 97205-3113 503-221-6911 info@sustainablenorthwest.org www.dryforestzone.org

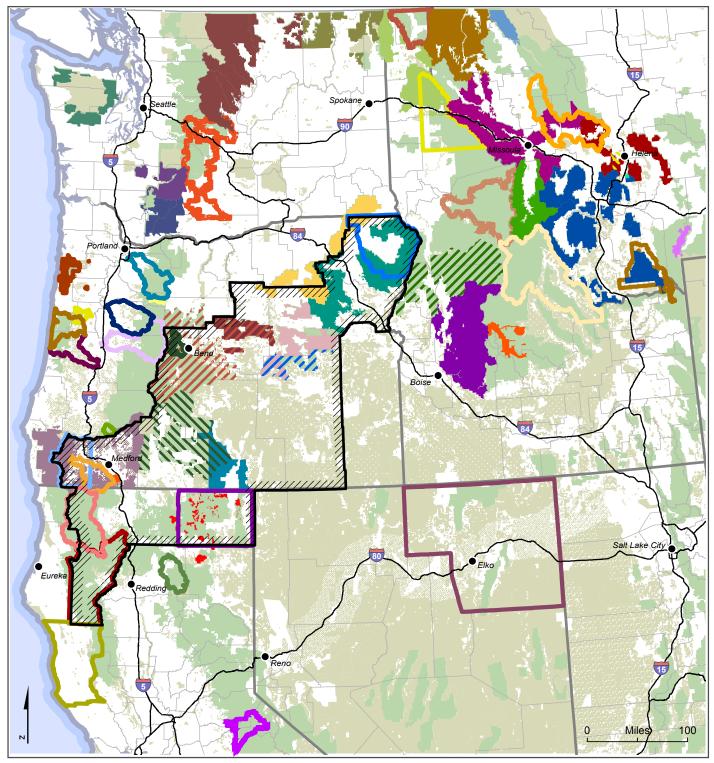
For more information about this report, contact:

Ecosystem Workforce Program
Institute for a Sustainable Environment
5247 University of Oregon
Eugene, OR 97403-5247
541-346-4545
ewp@uoregon.edu
ewp.uoregon.edu

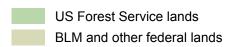
The University of Oregon is an equal-opportunity, affirmative-action institution committed to cultural diversity and compliance with the Americans with Disabilities Act. This publication will be made available in accessible formats upon request Accommodations for people with disabilities will be provided if requested in advance. ©2014 University of Oregon DES0213-044bm.

Forest collaborative groups

Northwestern United States



Data collected by EWP



EWP OUNIVERSIT

A Product of the Dry Forest Zone Project

Created: 03/05/2014 www.dryforestzone.org Contact: ewp@uoregon.edu

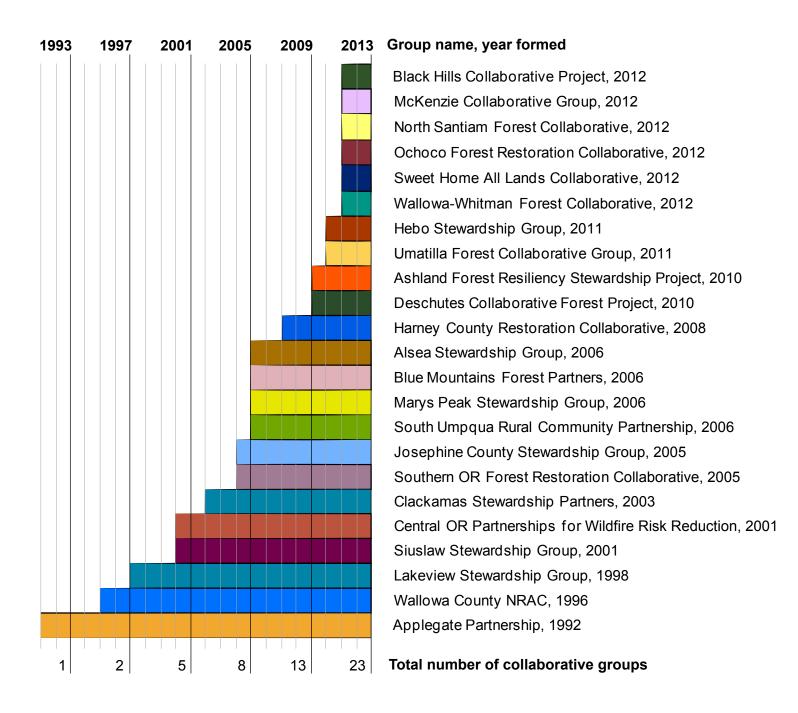
	Public lands collaboratives	All lands collaboratives
Washington	N. Central Wa. Forest Health Collaborative Northeast Washington Forestry Coalition Olympic Forest Coalition Pinchot Partners South Gifford Pinchot Collaborative Group	Tapash Sustainable Forest Collaborative
Montana	Beaverhead-Deerlodge Working Group Bitterroot Restoration Committee Elkhorn Restoration Committee Gallatin Community Collaborative Kootenai Forest Stakeholders Coalition Lincoln Restoration Committee Lolo Restoration Committee Tenmile Watershed Collaborative Whitefish Forest Partnership	Gravelly Landscape Collaborative Southwestern Crown Collaborative
Oregon	Ashland Forest Resiliency Stewardship Project Black Hills Collaborative Project Blue Mountains Forest Partners Central OR Partnerships for Wildfire Risk Reduction Harney County Restoration Collaborative Lakeview Stewardship Group North Santiam Forest Collaborative Ochoco Forest Restoration Collaborative Southern OR Forest Restoration Collaborative Umatilla Forest Collaborative Group Wallowa-Whitman Forest Collaborative	Alsea Stewardship Group Applegate Partnership Clackamas Stewardship Partners Deschutes Collaborative Forest Project Hebo Stewardship Group Josephine County Stewardship Group Marys Peak Stewardship Group McKenzie Collaborative Group Siuslaw Stewardship Group South Umpqua Rural Community Partnership Sweet Home All Lands Collaborative Wallowa County NRAC
Idaho	Sawtooth Valley Wildland Fire Collaborative Panhandle Forest Collaborative Payette Forest Coalition	Lemhi County Forest Restoration Group Kootenai Valley Resource Initiative Clearwater Basin Collaborative Shoshone County Forest Health Collaborative
California	Modoc Sage-Steppe Collaborative	Burney-Hat Creek Community Forest and Watershed Group Mendocino Futures Modoc County NRAC Trinity Collaborative Western Klamath Uplands Prioritization Partnership Amador-Calaveras Consensus Group
Nevada		Eastern Nevada Landscape Coalition

A Product of the Dry Forest Zone Project

Created: 03/05/2014 www.dryforestzone.org Contact: ewp@uoregon.edu

Timeline of active forest collaborative groups

Oregon



FOREST COLLABORATIVE GROUPS

Collaborative groups build agreement by engaging diverse stakeholders in fostering natural resource management and economic development. There are at least 23 collaborative groups in Oregon, 10 of which have emerged since the start of the DFZ project in 2009.



A Product of the Dry Forest Zone Project

Created: 03/05/2014 www.dryforestzone.org Contact: ewp@uoregon.edu

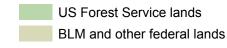
Community-based forestry organizations

Northwestern United States



Community-based organizations

Major cities



Washington

- 1. Northwest Natural Resource Group
- 2. Chumstick Wildfire Stewardship Coalition
- 3. Initiative for Rural Innovation and Stewardship
- 4. Mt. Adams Resource Stewards

Oregon

- 5. Wallowa Resources
- 6. Blue Mountains Forest Partners*
- 7. Siuslaw Stewardship Group*
- 8. Central Oregon Intergovernmental Council
- 9. High Desert Partnership
- 10. Applegate Partnership
- 11. Lomakatsi Restoration Project
- 12. Southern Oregon Forest Restoration Collaborative*
- 13. Lake County Resources Initiative

California

- 14. Northern California Resource Center
- 15. Mid-Klamath Watershed Council
- 16. Salmon River Restoration Council
- 17. Redwood Coast Community Action Agency
- 18. Watershed Research and Training Center
- 19. Mattole Restoration Council
- 20. Redwood Forest Foundation
- 21. Camptonville Community Partnership

Montana

- 22. Flathead Economic Policy Center
- Northwest Connections
 Swan Valley Ecosystem Center
- 24. Blackfoot Challenge
- 25. Clearwater Resource Council
- 26. Big Hole Watershed Committee
- 27. Centennial Valley Association

Idaho

- 28. Priest Community Forest Connection
- 29. Framing Our Community, Inc.
- 30. Salmon Valley Stewardship

Defining CBOs

Community-based organizations are typically rural, small organizations focused on improving ecological and socioeconomic conditions in a specific local area.

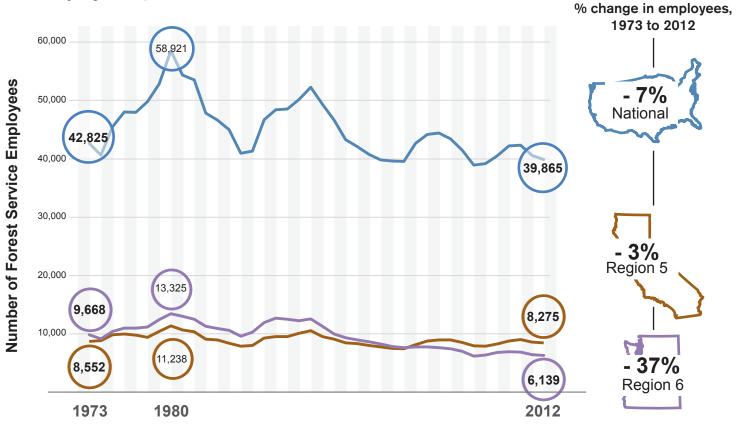
We defined them here as organizations that:

- 1) Were not an established, widespread type of entity such as an Oregon watershed council,
- 2) Had both economic development and land stewardship goals, and
- 3) Had 501(c)3 status.



^{*}A collaborative group that has acquired 501(c)3 status and meets our current definition of CBOs.

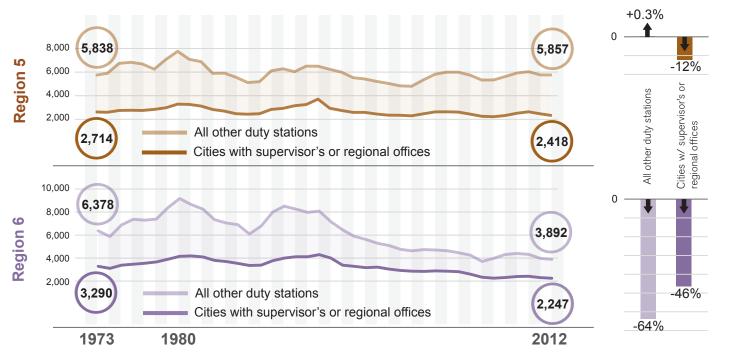
Total employment, 1973-2012



Data source: United States Office of Personnel Management

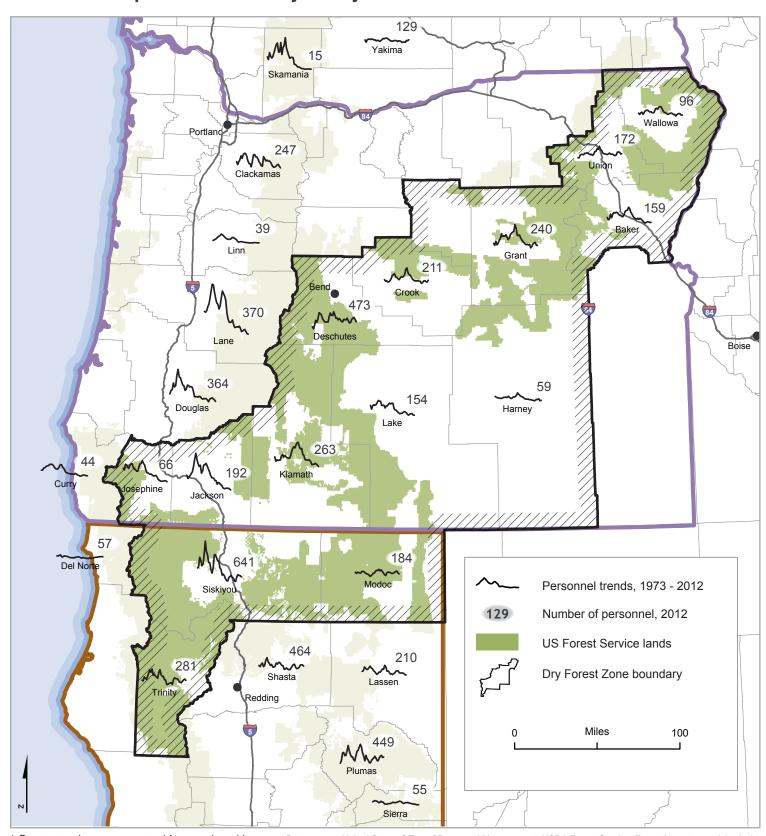
Employees at regional offices versus other duty stations

% change 1973 to 2012



Data source: United States Office of Personnel Management

Forest Service personnel trends by county



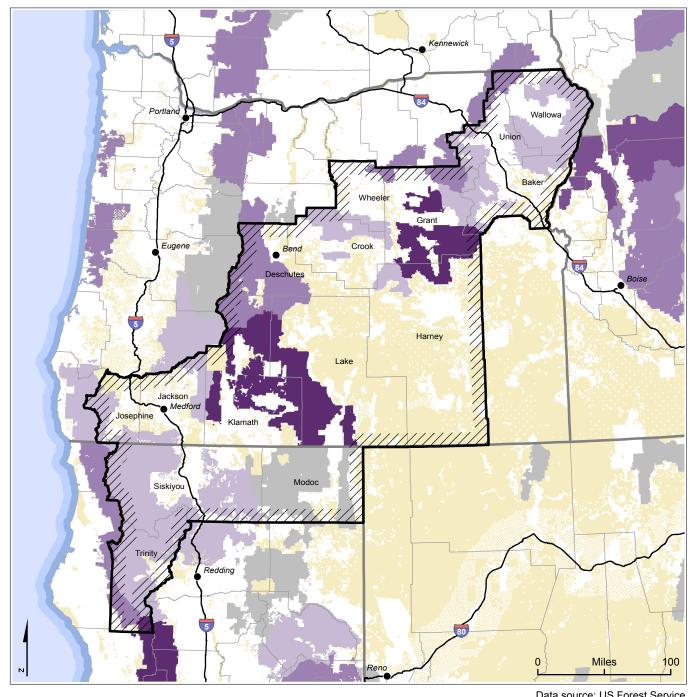
^{*} County trends are represented for counties with greater than 350,000 acres of National Forest land.

Data source: United States Office of Personnel Management; USDA Forest Service, Forest Inventory and Analysis

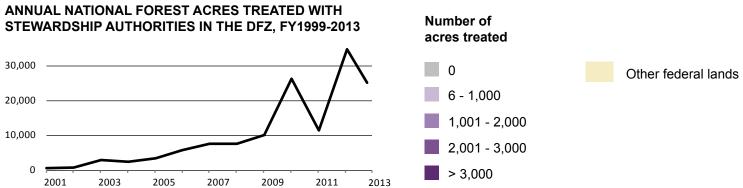


Acres treated with stewardship authorities, US Forest Service, FY2013

Dry Forest Zone



Data source: US Forest Service

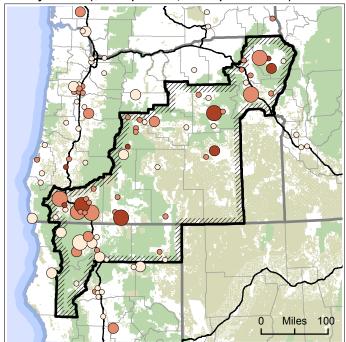


A Product of the Dry Forest Zone Project

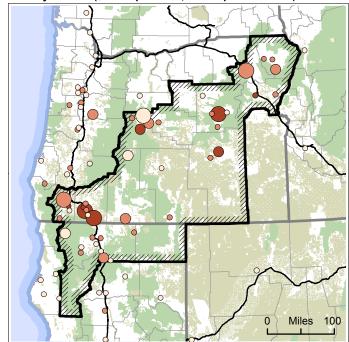
US Forest Service contracts awarded for restoration-related work

Dry Forest Zone

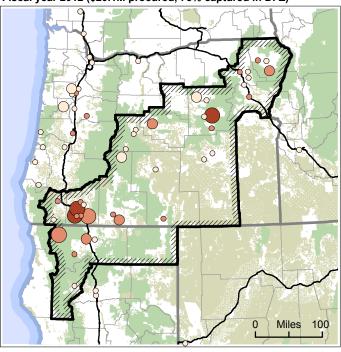
Fiscal year 2010 (\$55.9M procured, 70% captured in DFZ)



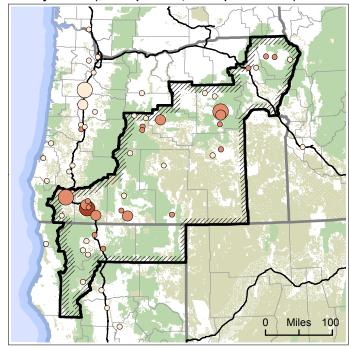
Fiscal year 2011 (\$33.2M procured, 83% captured in DFZ)



Fiscal year 2012 (\$20.1M procured, 75% captured in DFZ)



Fiscal year 2013 (\$21.2M procured, 71% captured in DFZ)



Data Source: USA Spending

FOREST SERVICE CONTRACTS AWARDED

The US Forest Service procured \$130 million of services between fiscal years 2010-2013 to perform forest and watershed restoration work on national forests within the DFZ. ARRA significantly increased the amount invested in contracted work during 2009-2010.

Total value

< \$500,000

\$500,001 - \$1,000,000

> \$1,000,000

Total vendors

2 - 10

> 10

US Forest Service lands

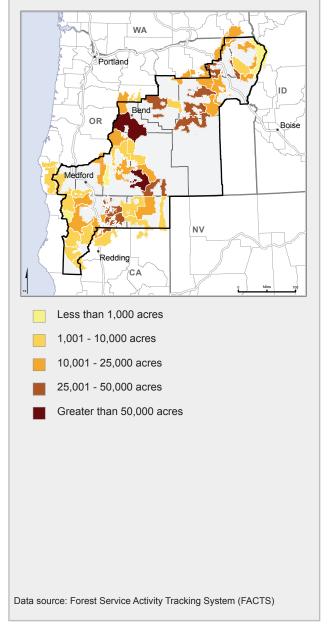
Other federal lands

A Product of the Dry Forest Zone Project

What treatments are being used and who is doing the work?

The US Forest Service manages 16.8 million acres of national forest land in the Dry Forest Zone. It conducts a range of activities or "treatments" including timber harvest and hazardous fuels reduction. These activities may be implemented by the agency itself, a contracted business, or other organizations. Some activities can produce revenue, while others can incur costs. From 2009-2013, a total of nearly 700,000 acres were treated.

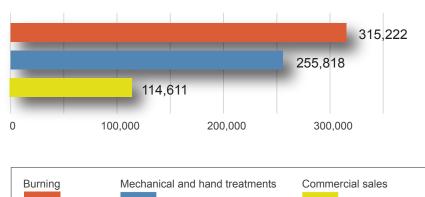
Total number of acres treated by ranger district, 2009 - 2013



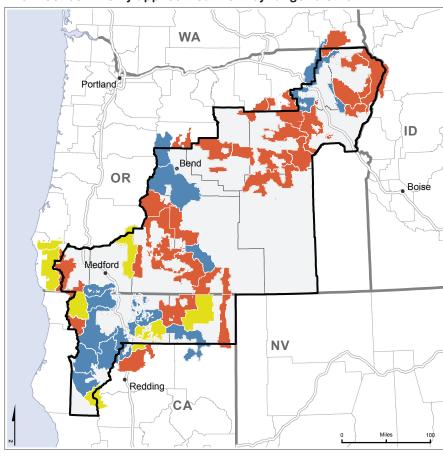
TREATMENT

The majority of these acres (46 %) were treated using prescribed burning to reduce fuels. Only 17 % were commercial sales that generated revenue, but on several ranger districts in southern Oregon and northern California, this was the primary means of treating acres.

Total number of acres by treatment method



The most commonly applied treatment by ranger district

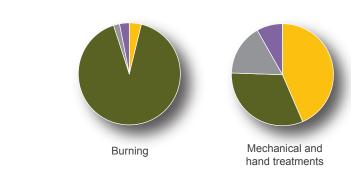


A Product of the Dry Forest Zone Project

WORKFORCE

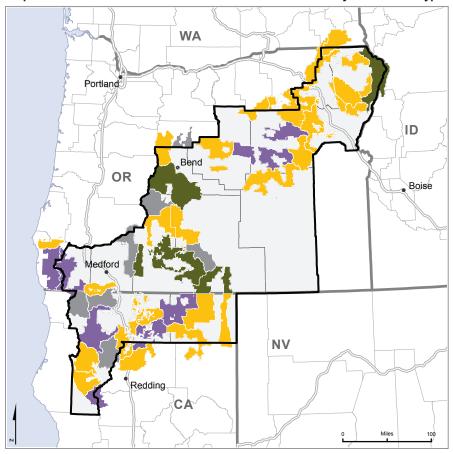
Workforces including Forest Service employees, private sector contractors, timber purchasers, and others perform treatments. Forest Service employees implemented the most prescribed burning. Contractors performed the most mechanical and hand treatments. A majority of ranger districts relied on non-Forest Service groups to implement mechnical and hand treatments.

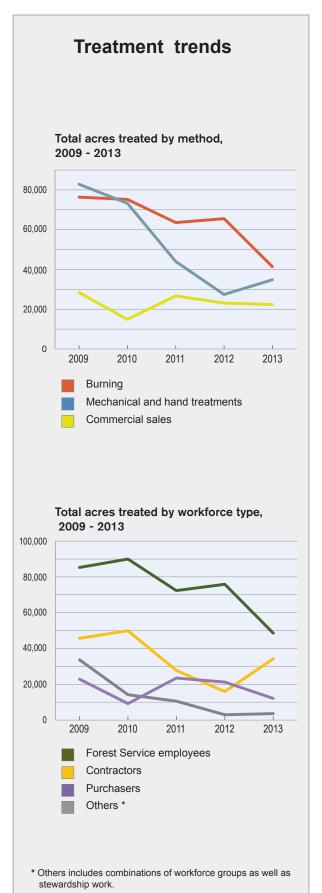
Division of labor for the two primary treatment methods





Implementation of mechanical and hand treatments by workforce type



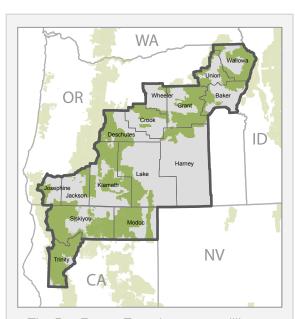




Contact: ewp@uoregon.edu

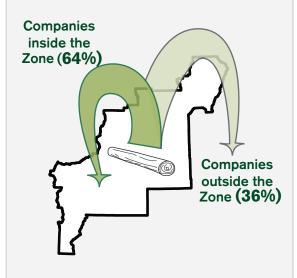
Who gets the wood? US Forest Service timber sales and purchases in the Dry Forest Zone, 2009-2012

The timber sales



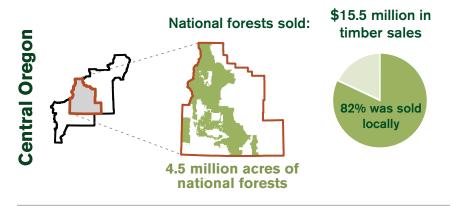
The Dry Forest Zone has 16.8 million acres of national forests, which produced a total of \$53 million in timber sales from 2009-2012. Who got this wood?

Forest Service timber from the Dry Forest Zone was sold to:



64% (\$34 million) of these timber sales went to companies in the Zone. Amount of timber sold locally (within specific regions) differed greatly.

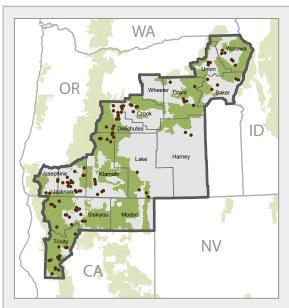






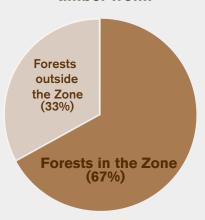


The companies



117 companies located within the Dry Forest Zone purchased Forest Service timber from 2009-2012. How much wood did they get from the Zone?

Companies from the Dry Forest Zone purchased Forest Service timber from:

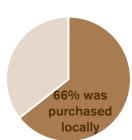


These companies purchased a total of \$48 million in Forest Service timber. 67% (just over \$32 million) of this came from Zone forests. The amount of timber and proportion purchased locally (within specific regions) differed greatly, suggesting differences in purchaser dependence on local timber supplies.

Blue Mountains



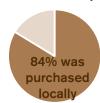
\$20.4 million in Forest Service timber purchases



Central Oregon



\$15.2 million in Forest Service timber purchases



Southern Oregon



\$9.1 million in Forest Service timber purchases



Northern California

32 companies made:



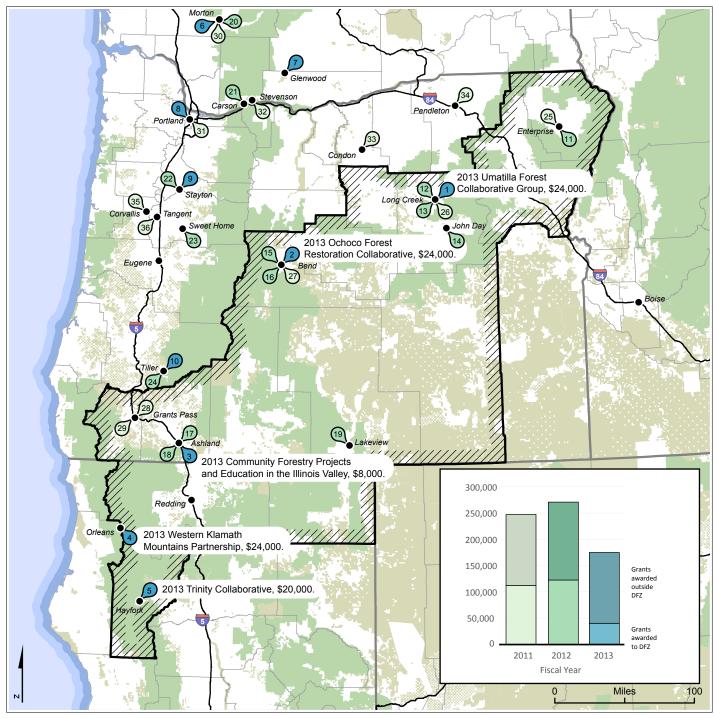
\$3.2 million in Forest Service timber purchases





Community Capacity and Land Stewardship Program, 2011-2013

Dry Forest Zone



Data source: EWP



2013 Award Recipients

Inside the Zone

- 1. Umatilla Forest Collaborative Group, \$24,000
- 2. Ochoco Forest Restoration Collaborative Development, \$23,981
- 3. Community Forestry Projects and Education in the Illinois Valley, \$8,000
- 4. Western Klamath Mountains Partnership, \$24,000
- 5. Trinity Collaborative, \$20,000

Outside the Zone

- 6. Expanding Community Capacity Building, \$20,000
- 7. Growing Collaborative Capacity through Landscape Assessment, \$20,267
- 8. Long-Term Strategic Planning and Multi-Party Monitoring Coordinator, \$20,000
- 9. Stewardship Cont. for Indust. Dev. and Approach to Restore Watershed Health, \$18,040
- 10. Elk Creek Watershed Restoration Project, \$24,000

2012 Award Recipients

Inside the Zone

- 11. Wallowa-Whitman Forest Collaborative Planning Project, \$20,00
- 12. Range Alliance for Malheur National Forest Allotments, \$24,000
- 13. Umatilla Forest Collaborative Group Phase 2, \$24,000
- 14. Collaborative Forest Conservation on the Malheur National Forest, \$19,000
- 15. Deschutes Collaborative Forest Project Capacity Building, \$23,980
- 16. Ochoco Forest Restoration Collaborative, \$23,947
- 17. Klamath Tribal Ecosystem Restoration Workforce Initiative, \$24,000
- 18. Rogue Basin Dry Forest Restoration Project, \$24,000
- 19. Lakeview Stewardship Group, \$12,240

Outside the Zone

- 20. Pinchot Partners Continue Community Capacity Building, \$24,000
- 21. South Gifford Pinchot Collaborative Continues, \$24,000
- 22. Integrated Restoration of the Breitenbush Watershed at the Landscape Scale, \$23,540
- 23. Sweet Home All Lands Collaborative, \$20,665
- 24. Elk Creek Collaborative Restoration Program, \$23,400

2011 Award Recipients

Inside the Zone

- 25. Joseph Creek Collaborative Watershed Restoration Program, \$15,000
- 26. North Fork Whole Watershed Restoration Capacity Building Project, \$10,000
- 27. Deschutes Skyline Collaborative Forest Landscape Restoration Project, \$15,000
- 28. A Landscape Assessment for the Illinois Valley, Oregon, \$22,500
- 29. Organizational Capacity Building, \$14,000

Outside the Zone

- 30. Pinchot Partners Community Capacity Building, \$10,000
- 31. Clackamas Stewardship Partners Coordinator, \$23,911
- 32. Strengthening Collaboration on the Gifford Pinchot National Forest, \$15,000
- 33. Lower John Day Tri-County Watershed Coop. Man. and Conserv. Coordination, \$7,889
- 34. Umatilla National Forest Landscape Collaboration Capacity Project, \$9,192
- 35. Greasy Creek Watershed Partnership and Project Design, \$23,720
- 36. Hebo Stewardship Group Planning, \$15,000



Contact: ewp@uoregon.edu

2013 Unemployment rate and 2008-2013 trend

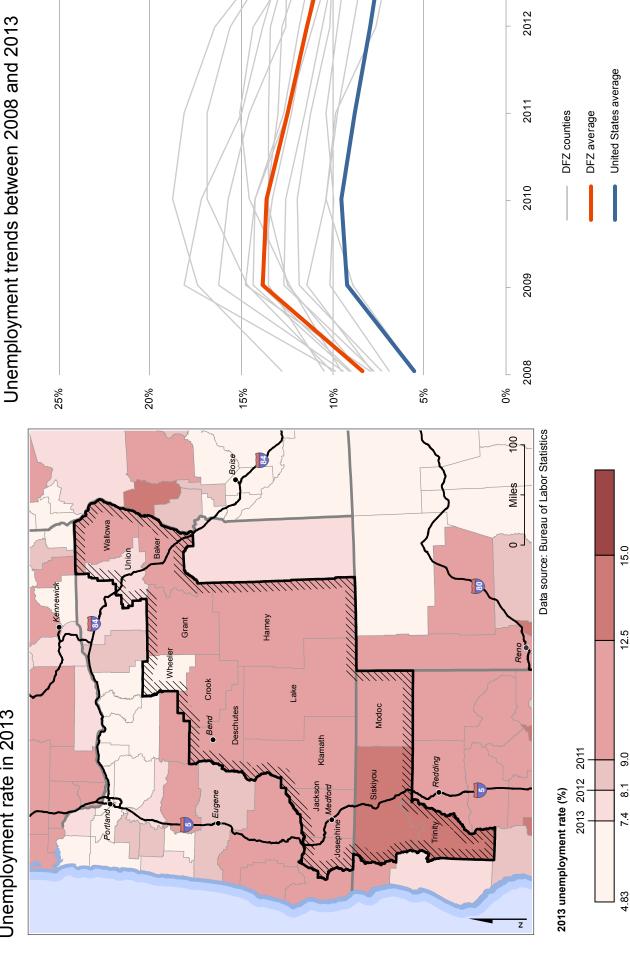
Unemployment rates spiked in 2009 due to the nationwide recession. Since

than the national average. Unemployment is currently highest in Trinity and 2010, joblessness has declined in the DFZ but remains consistently higher

Siskiyou counties.

Dry Forest Zone

Unemployment rate in 2013



A Product of the Dry Forest Zone Project Created: 03/05/2014

Recent annual national averages

Contact: ewp@uoregon.edu

UNIVERSITY OF OREGON

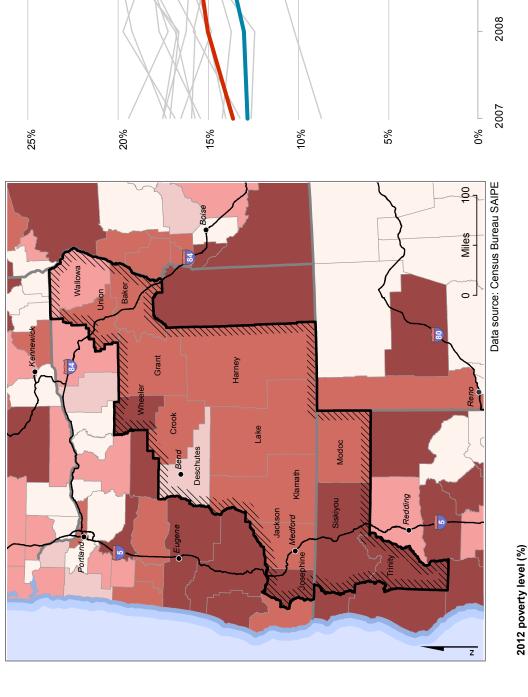
2013

www.dryforestzone.org

2012 Poverty level and 2007-2012 trend

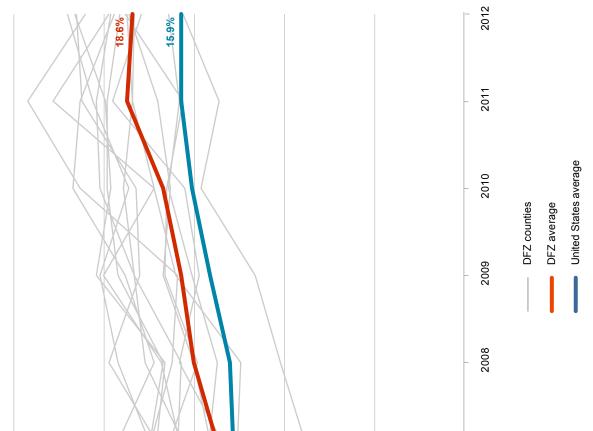
Dry Forest Zone

Poverty levels in 2012



levels in 2012 were highest in Wheeler, Josephine, Siskiyou, and Trinity counties. Poverty has increased nationally since 2008. Poverty in the DFZ has been more prevelant than the national average and has increased at a faster rate. Poverty

Poverty trends between 2007 and 2012



www.dryforestzone.org

2011 & 2012 national average 15.9%

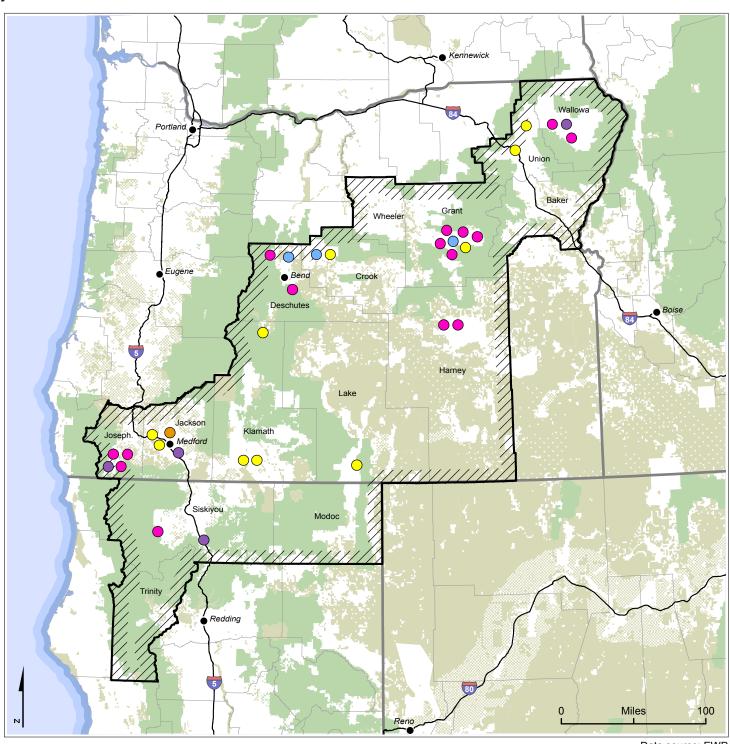
2010 national average 15.3%

20.0

17.5

Wood-to-energy market, 2013

Dry Forest Zone



BIOMASS ENERGY FACILITIES

The DFZ has diverse infrastructure for utilizing woody biomass for energy. Clusters of biomass energy producers and end users have emerged across the region, especially in Grant County, Oregon.

Biomass facility type

Combined heat and power

Densified fuels

Electricity

Process heat

Space heat

Data source: EWP

US Forest Service lands

Other federal lands

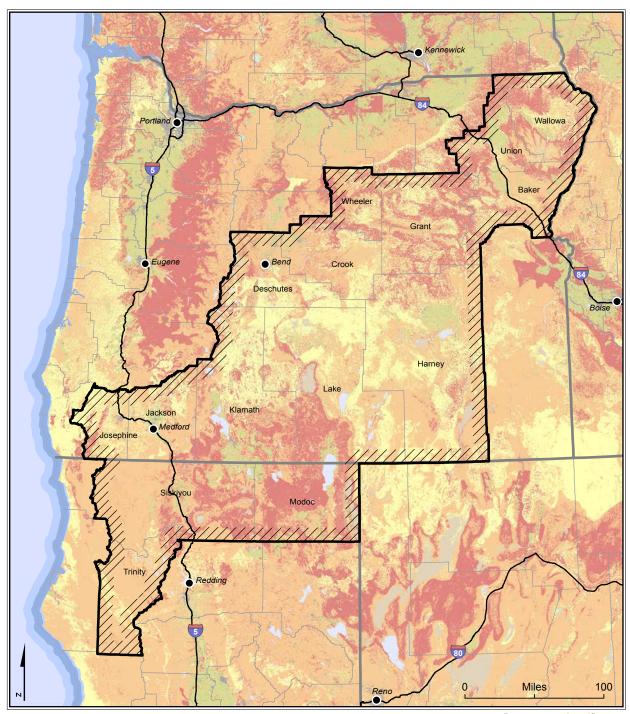


A Product of the Dry Forest Zone Project

Created: 03/05/2014 www.dryforestzone.org Contact: ewp@uoregon.edu

Fire regime condition class

Dry Forest Zone



Data source: Landfire.gov

CHANGE IN FIRE REGIME

The LandFire fire regime condition class (FRCC) describes the degree that current fire conditions have diverged from historic patterns. Changes to fire regimes are driven by altered vegetation characteristics, fuel composition, land use, and fire patterns. Changes to fire regime can drastically alter key ecosystem characteristics.

Condition class

Normal (FRCC I)

Moderate change (FRCC II)

High change (FRCC III)

Land cover

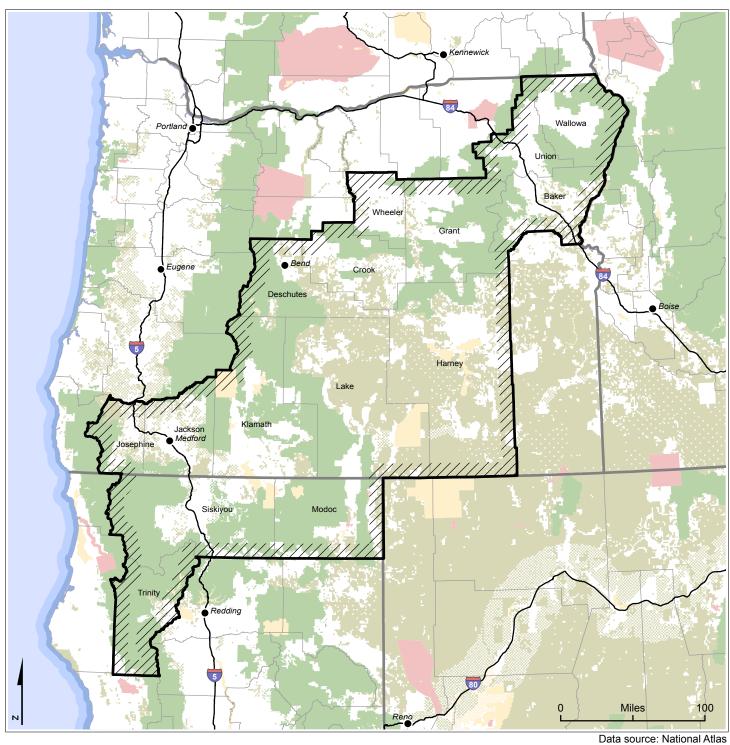
Water

Urban / barren

Agriculture

Federal land ownership

Dry Forest Zone



FEDERAL LAND OWNERSHIP

Federally-owned lands cover 68% of the DFZ and much of the West. This affects the opportunities and constraints that rural communities face in fostering natural resource-based economic development.

Land management

US Forest Service

Bureau of Land Management

Other federal agencies

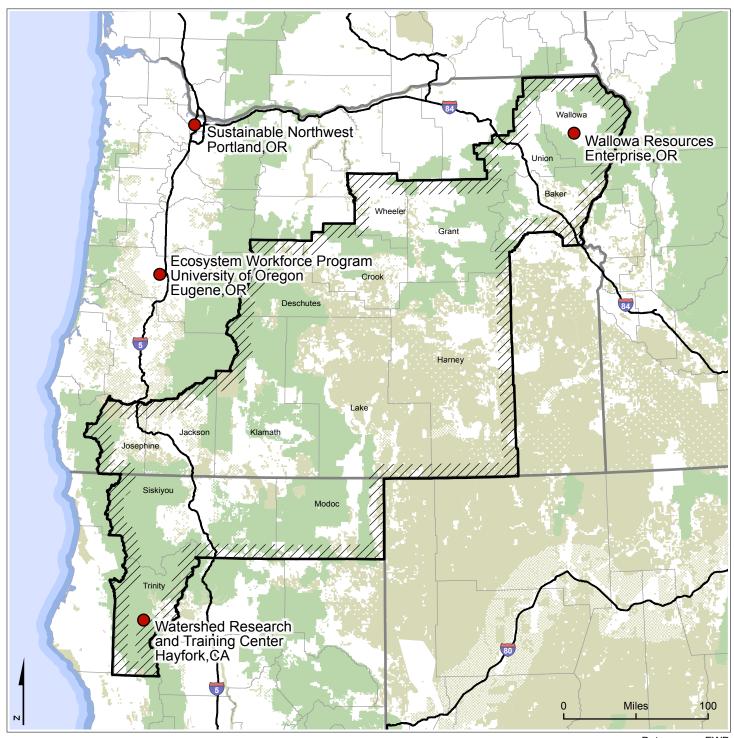
Indian reservations

A Product of the Dry Forest Zone Project

Created: 03/05/2014 www.dryforestzone.org Contact: ewp@uoregon.edu

Executive team locations

Dry Forest Zone



Data source: EWP

EXECUTIVE TEAM

The Dry Forest Zone project is led by Sustainable Northwest in partnership with Wallowa Resources, the Watershed Research and Training Center, and the Ecosystem Workforce Program at the University of Oregon. The project is funded by the US Endowment for Forestry and Communities, and USDA Rural Development.

US Forest Service lands
Other federal lands





UNIVERSITY OF OREGON