



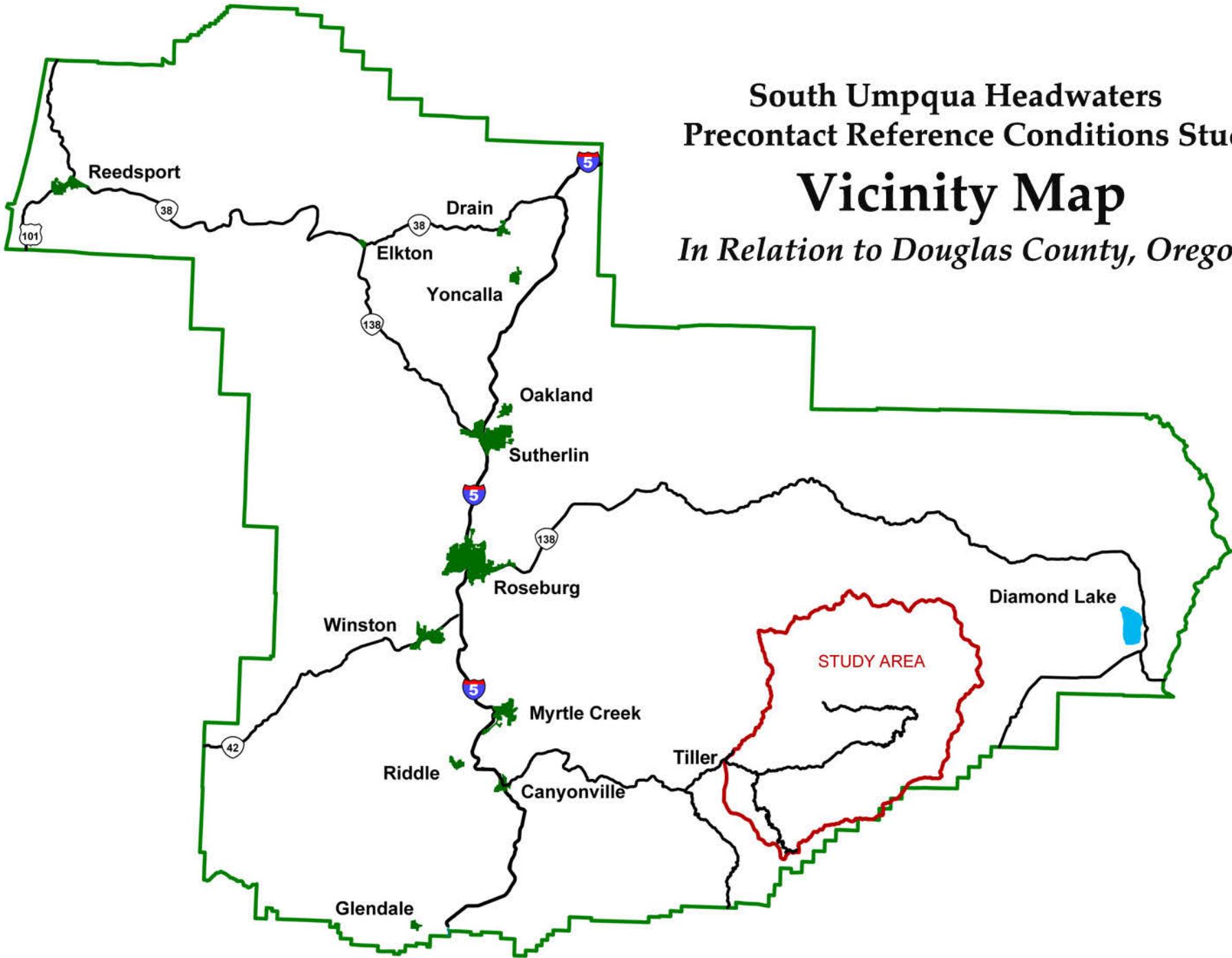
RESTORING THE WEST

RESTORING FIRE AND PEOPLE TO THE LAND: THE 2010 SOUTH UMPQUA STUDY

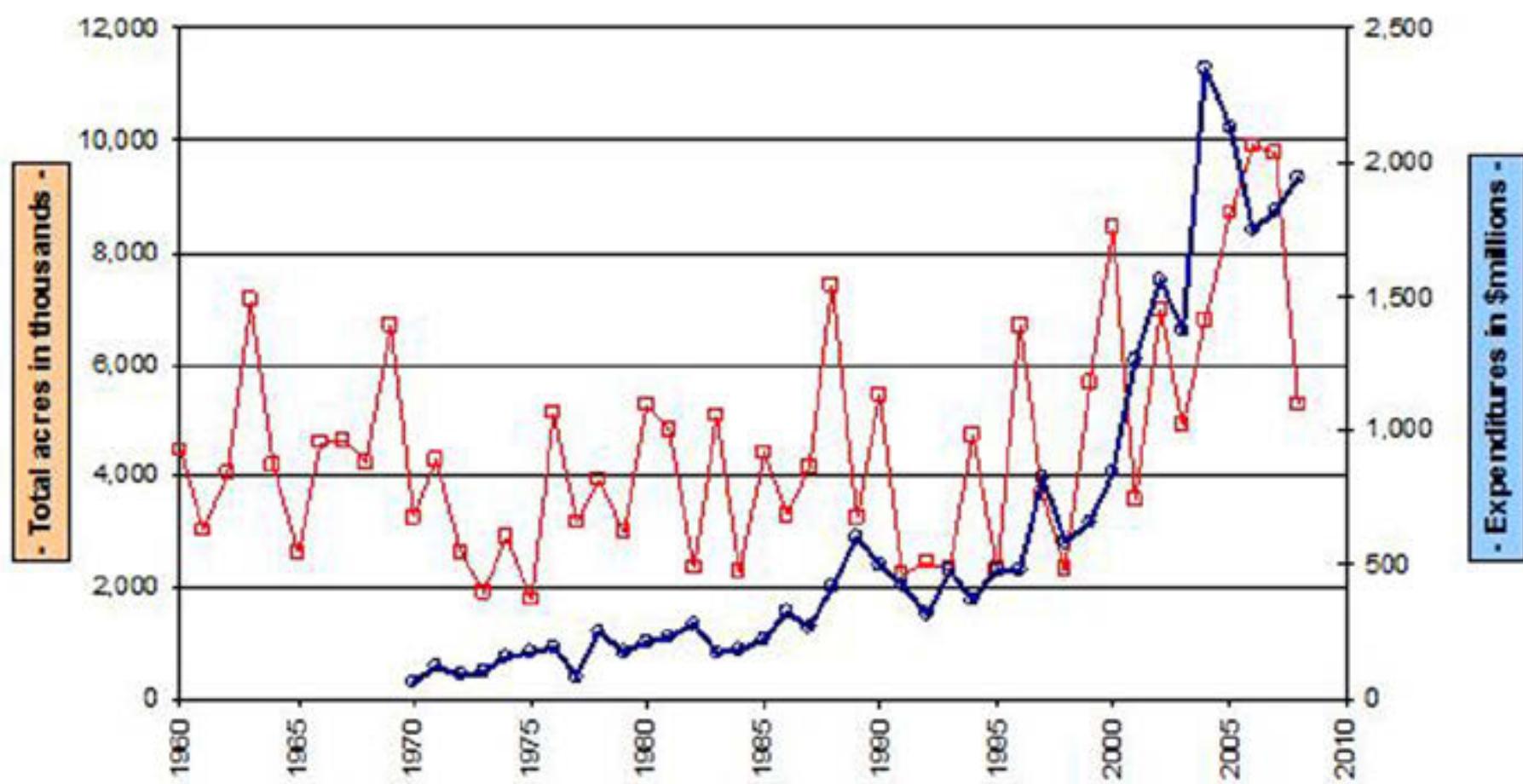
Presentation by Dr. Bob Zybach, www.ORWW.org

**Utah State University, Logan Utah
October 19, 2011**

**South Umpqua Headwaters
Precontact Reference Conditions Study**
Vicinity Map
In Relation to Douglas County, Oregon



Total US Wildfire Acres 1961-2008, and USFS Fire Expenditures 1970-2008



FRCC (Fire Regime Condition Class)

A measure of departure from reference (pre-settlement or natural or historical) ecological conditions that typically result in alterations of native ecosystem components. These ecosystem components include attributes such as species composition, structural stage, stand age, canopy closure, and fuel loadings.

FRCC 3 is defined as:

Greater than 66 percent departure: Fire regimes have been substantially altered.

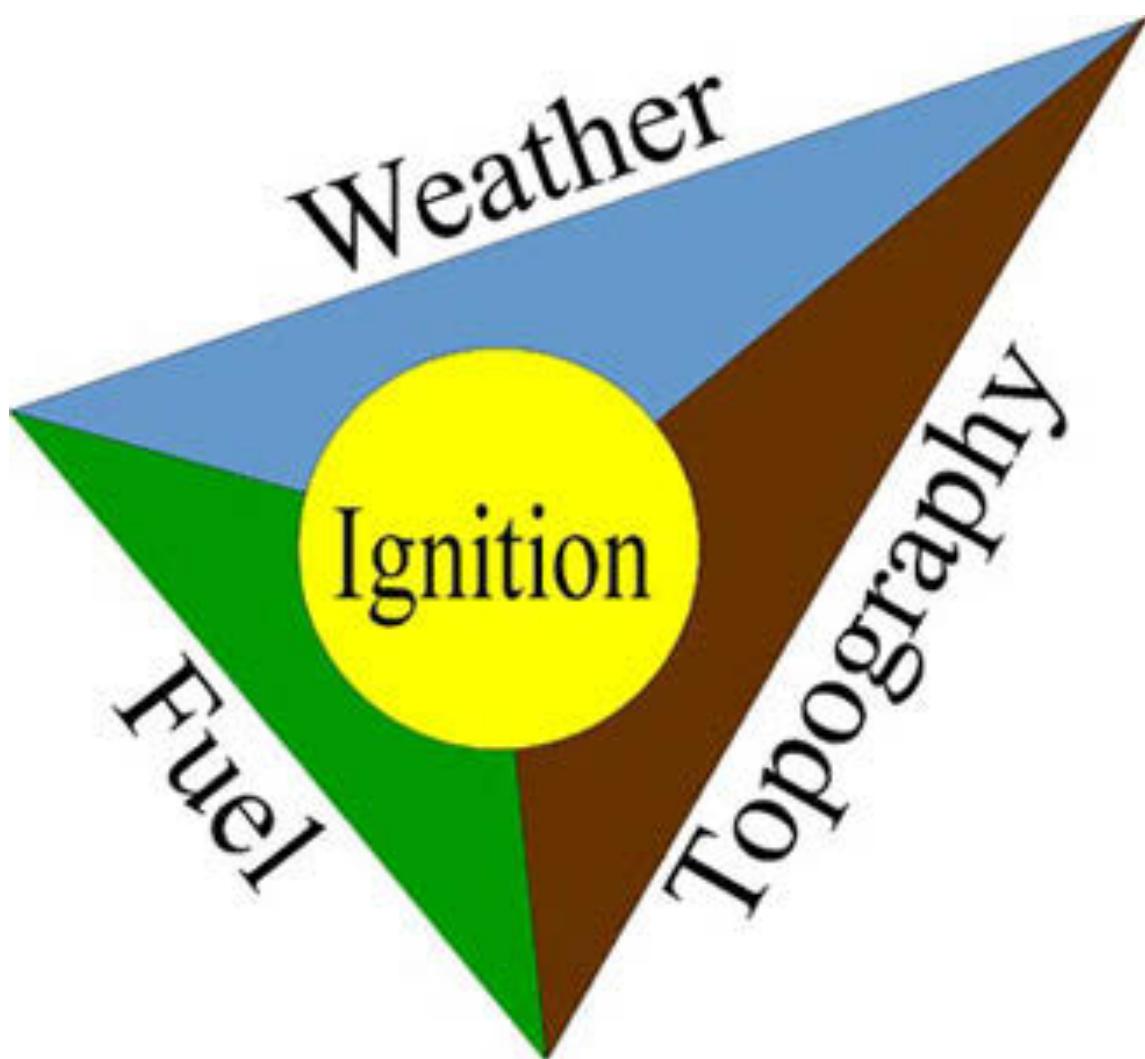
Risk of losing key ecosystem components is high.

Fire frequencies may have departed by multiple return intervals.

This may result in dramatic changes in fire size, fire intensity and severity, and landscape patterns.

Vegetation attributes have been substantially altered.

National Interagency Fuels, Fire, & Vegetation Technology Transfer 2010: 98

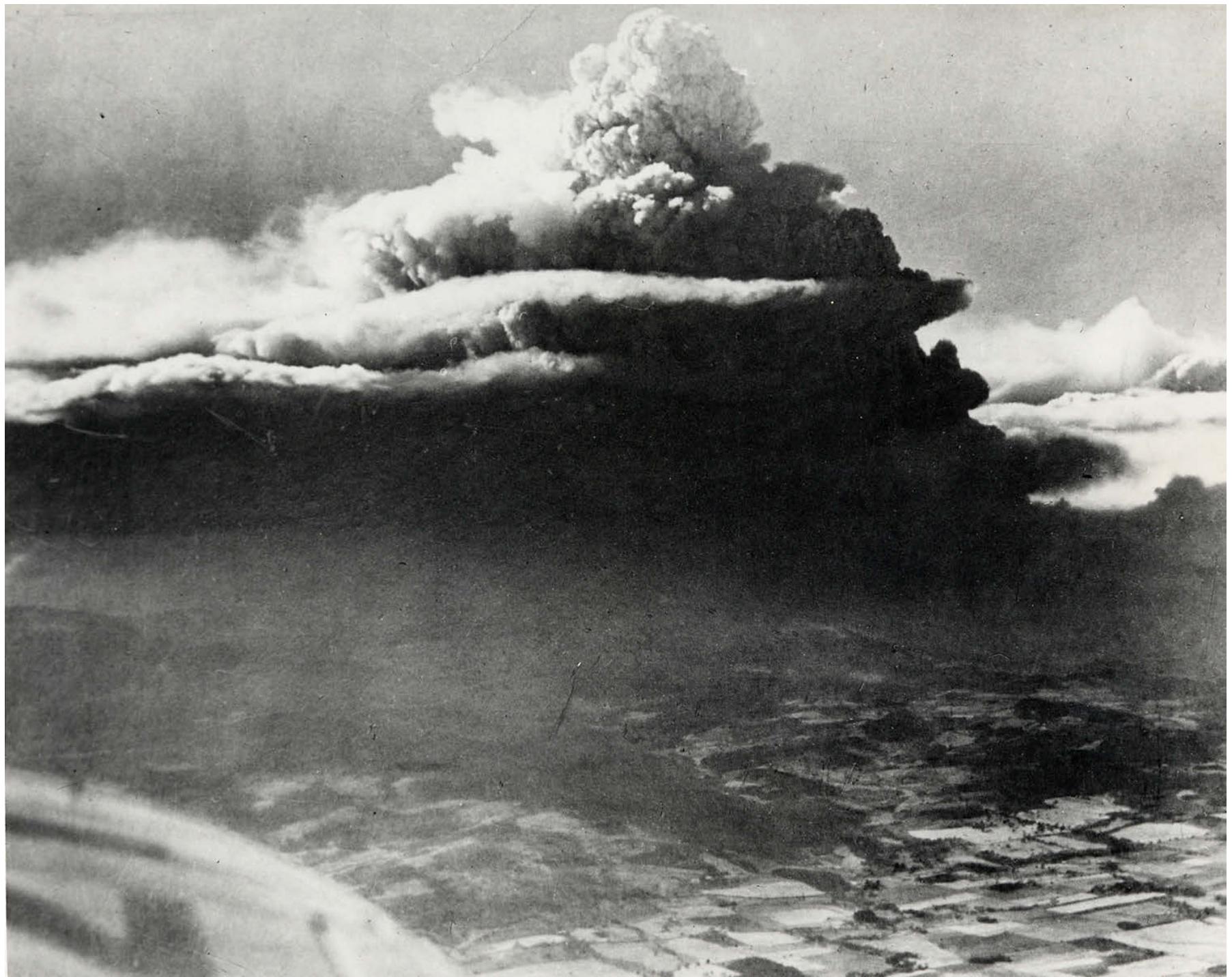




Dead Wood



Wildfire





It would be difficult to find a reason why the Indians should care one way or another if the forest burned.

It is quite something else again to contend that the Indians used fire systematically to "improve" the forest.

Improve it for what purpose?

Yet this fantastic idea has been and still is put forth time and again because somebody's grandfather said that is what happened.

--C. Raymond Clar 1959: 7.

California Government and Forestry: From Spanish Days until the Creation of the Department of Natural Resources in 1927.

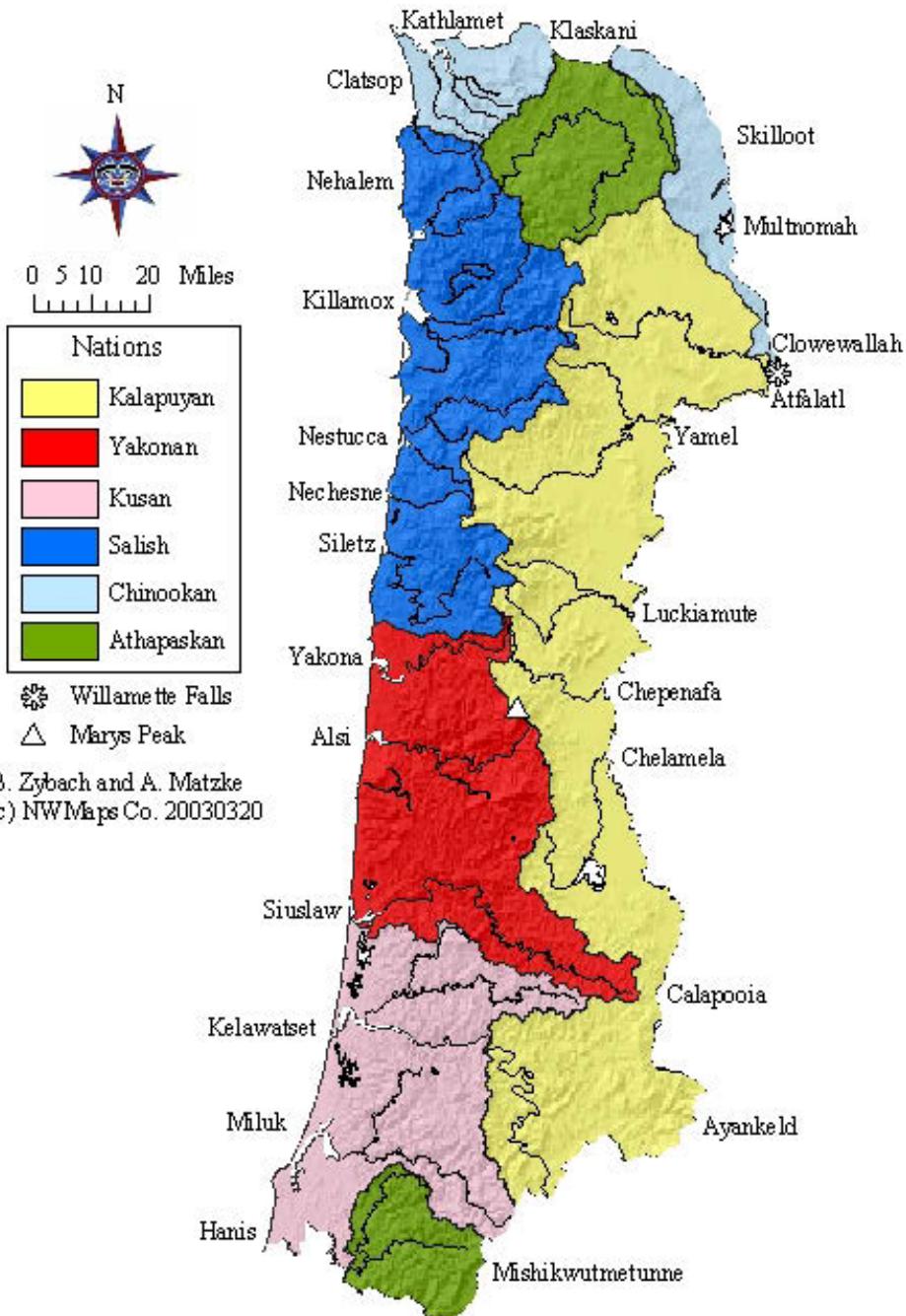
**Division of Forestry, Department of Natural Resources,
State of California, Sacramento, California: 623 pp.**

INDIAN BURNING



*this Countrey must be thickly inhabited by the many fiers we saw in
the night and culloms of smoak we would see in the day time but I
think they can derive but little of there subsistance from the sea but
to compenciate for this the land was beautyfullly diversified with
forists and green veredent launs which must give shelter and forage
to vast numbers of wild beasts most probable most of the natives on
this part of the Coast live on hunting for they most of them live in
land this is not the case to the Northward for the face of the
Countrey is widly different*

--Robert Haswell, Oregon Coast, 1788



Tribe	Language	River
Northern		
Clowewallah	Chinookan	Willamette
Multnomah	Chinookan	Willamette
Kathlamet	Chinookan	Columbia
Clatsop	Chinookan	Youngs
Klaskani	Athapaskan	Clatskanie
Nehalem	Salish	Nehalem
Eastern		
Atfalatl	Kalapuyan	Tualatin
Yamel	Kalapuyan	Yamhill
Luckiamute	Kalapuyan	Luckiamute
Chepenafa	Kalapuyan	Marys
Chelamela	Kalapuyan	Long Tom
Calapooia	Kalapuyan	Willamette
Western		
Killamox	Salish	Tillamook
Nestucca	Salish	Nestucca
Nechesne	Salish	Salmon
Siletz	Salish	Siletz
Yakona	Yakonan	Yaquina
Alsi	Yakonan	Alsea
Siuslaw	Yakonan	Siuslaw
Southern		
Ayankeld	Kalapuyan	Umpqua
Kelawatset	Kusan	Umpqua
Hanis	Kusan	Coos
Miluk	Kusan	Coquille
Mishikwutmetunne	Athapaskan	Coquille





Types of Indian Burning Practices

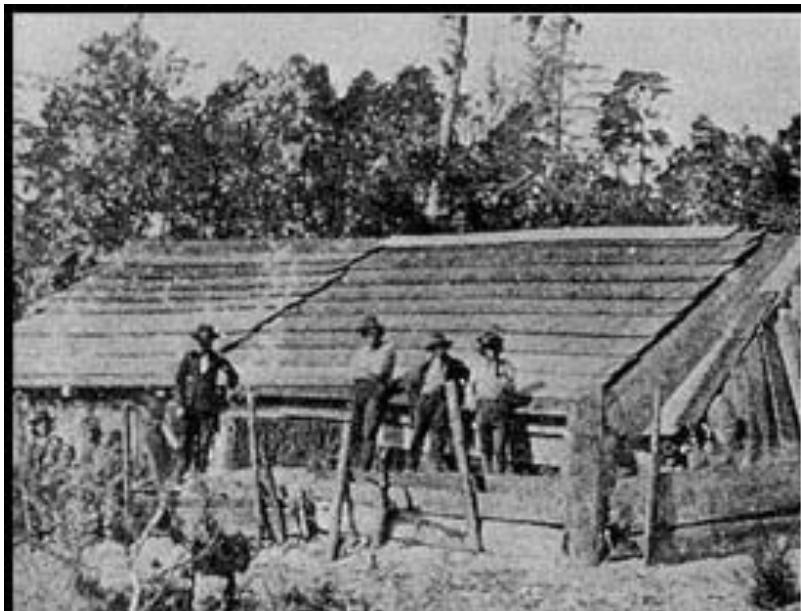
Type of burning	Products and purposes	Timing
Firewood gathering and burning	Heat, light, cooking, boiling, fuel stores, celebration, ceremony, security	Daily, concentrated near homes, trails, settlements and campgrounds
Patch burning	Hunting, berry patches, root fields, pest control, weaving materials, trail maintenance	Seasonal and situational
Broadcast burning	Stable wildlife habitat, curing seeds, hunting, transportation, weaving materials, acorn harvest.	Seasonal: late summer, early fall for grasslands; late winter, early spring for brackenfern



Figure 8.01 GLO Surveyor Norman Price and wife, ca. 1940.

Price helped survey much of the study area in the late 1930s (e.g., Price et al. 1929). His observations regarding his survey of Tsp. 34 S., Rng. 8 W. to the southwest of the South Umpqua River are relevant to the findings of this research:

“Most of the township is covered with such a dense growth of buckthorn, manzanita, lilac, madrona, chinquapin, and sweet acorn that no grasses can thrive. A small area on what is known as Peavine Mountain, in sec. 21, sustains a growth of native peavine sufficient to graze a few head of cattle for about six weeks. It is an historical fact that in the days immediately following the occupation of this country by the Indians this country was all covered with a fine growth of native grasses and practically no underbrush. The Indians accomplished this by setting fire to the vegetation on one side of the river one year and the other side the next year. Thus they kept the country open and clean and were never in danger of a forest fire.”













Traditional Foods







Vision for the Future



Traditional Practices

Angels' Colon complete sputter

no walks in his 31-game career complete game.

The Angels won their season-best fifth straight, while the

this season," Colon said through a translator. "I've got a sense of responsibility."

Colon was 21-8 with a 3.48 ERA

ing up in the ninth.

"He was still fresh," Scioscia said.

The Angels scored all their runs

with a 7-2 record road trip.

The 33-year-old seventh pitcher since 1998 has been on the mound in 100 games since 2001. He has understood

g

the team's need for this kind of player. He has been a key part of the team's success, especially in the last few years.

He has been a great addition to the team, and we look forward to seeing him continue to play well for many more years.

Blazers sign Roy, Aldridge

Aldridge and guard Brandon Roy. Terms of the contracts were not disclosed.

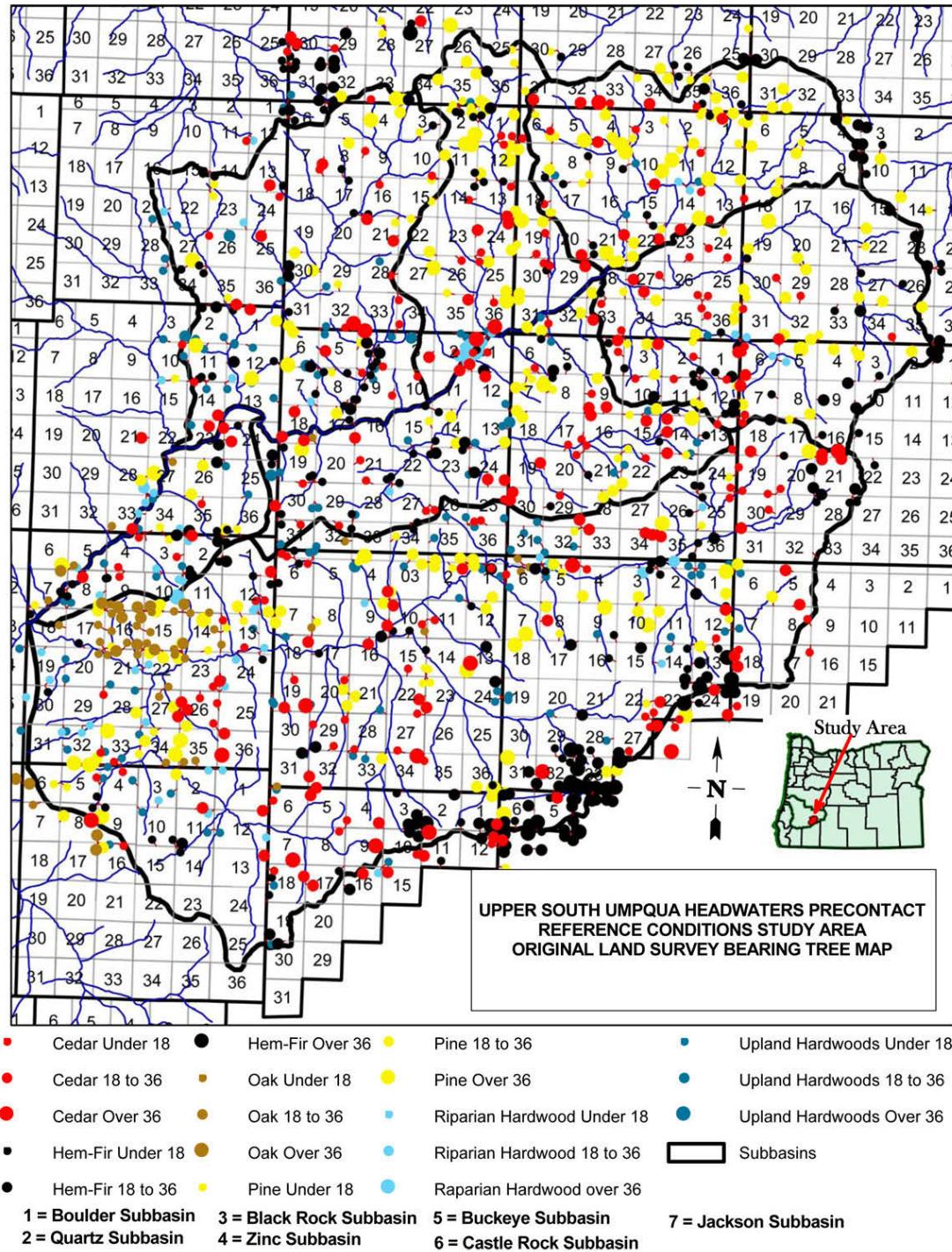
Portland Trail Blazers general manager Steve Ballmer signed free agents LaMarcus Aldridge and Brandon Roy to multi-year contracts on Friday. Aldridge, 27, will receive a four-year deal worth \$80 million, while Roy, 29, will receive a three-year deal worth \$45 million.

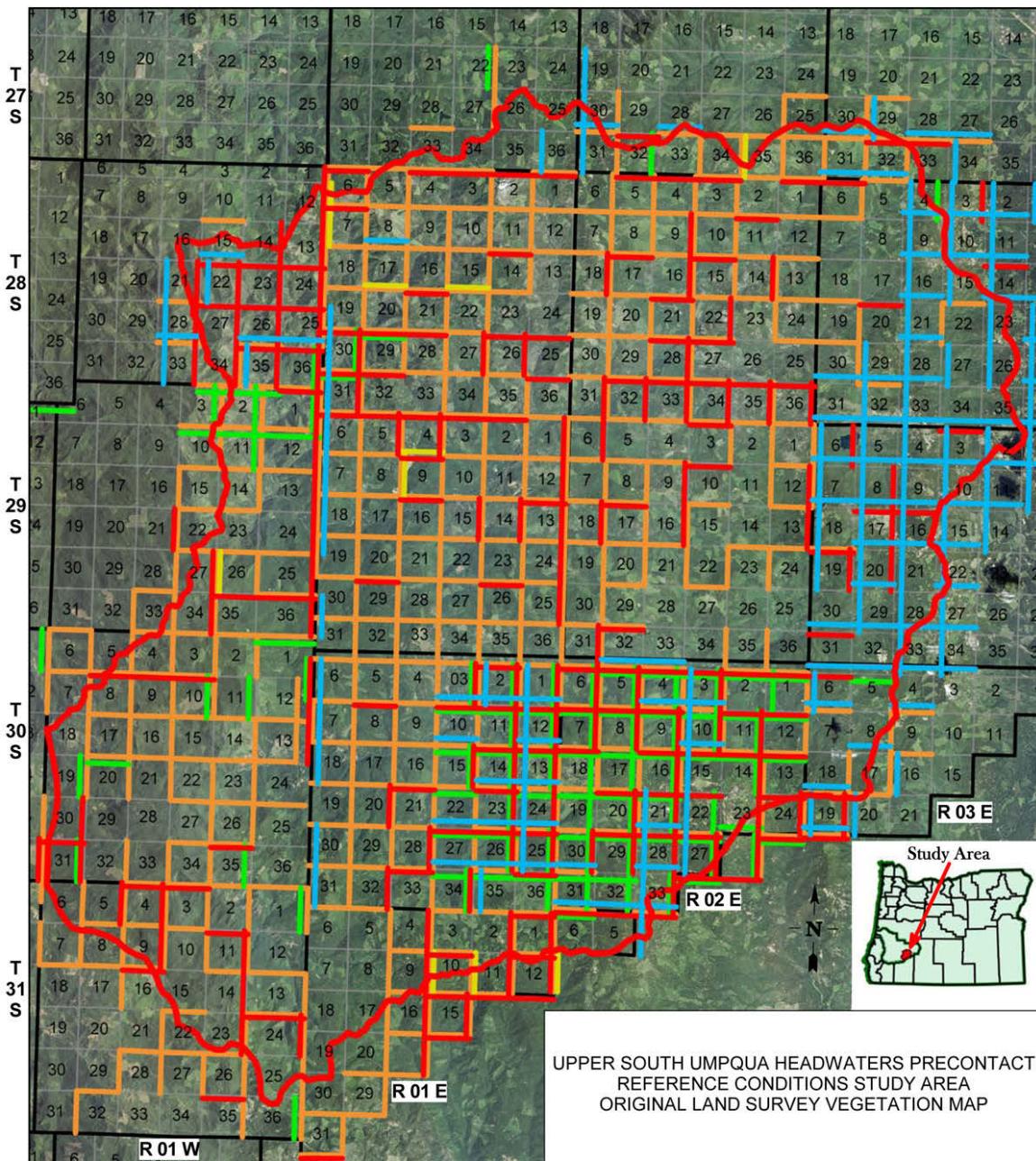
Aldridge, at 6-foot-11, averaged 14.3 points and 8.2 rebounds per game as a sophomore last season. Roy, at 6-foot-6, played four seasons at Washington, averaging 14.3 points and 8.2 rebounds per game.

Named Portland Player of the Year his senior year, Roy is the Huskies' 10th all-time leading scorer.

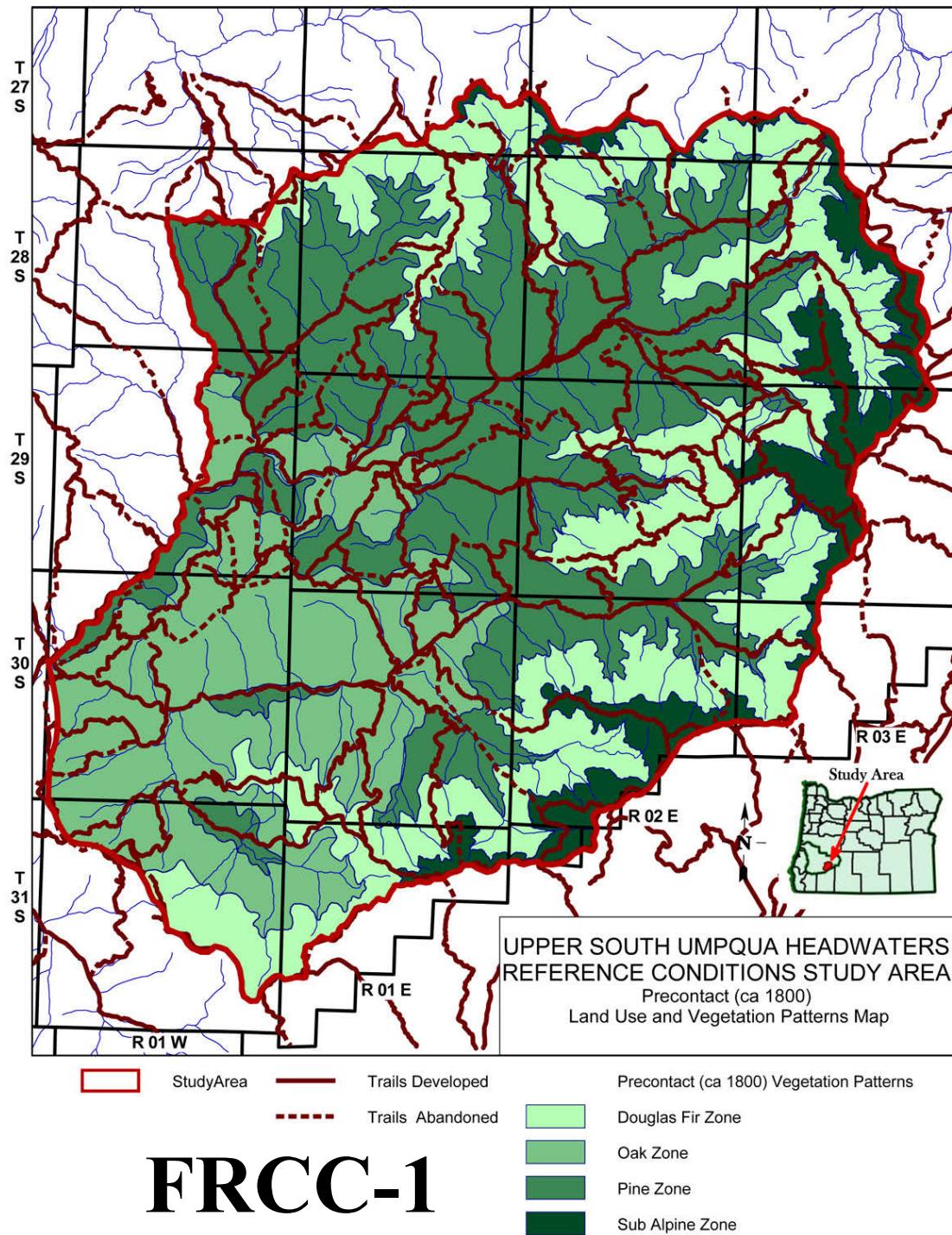
"These two represent a strong part of the change in culture we are striving to achieve in Portland," said coach Mike Dunleavy. "They are looking forward to the day when both of them become members of the Blazers uniform." President

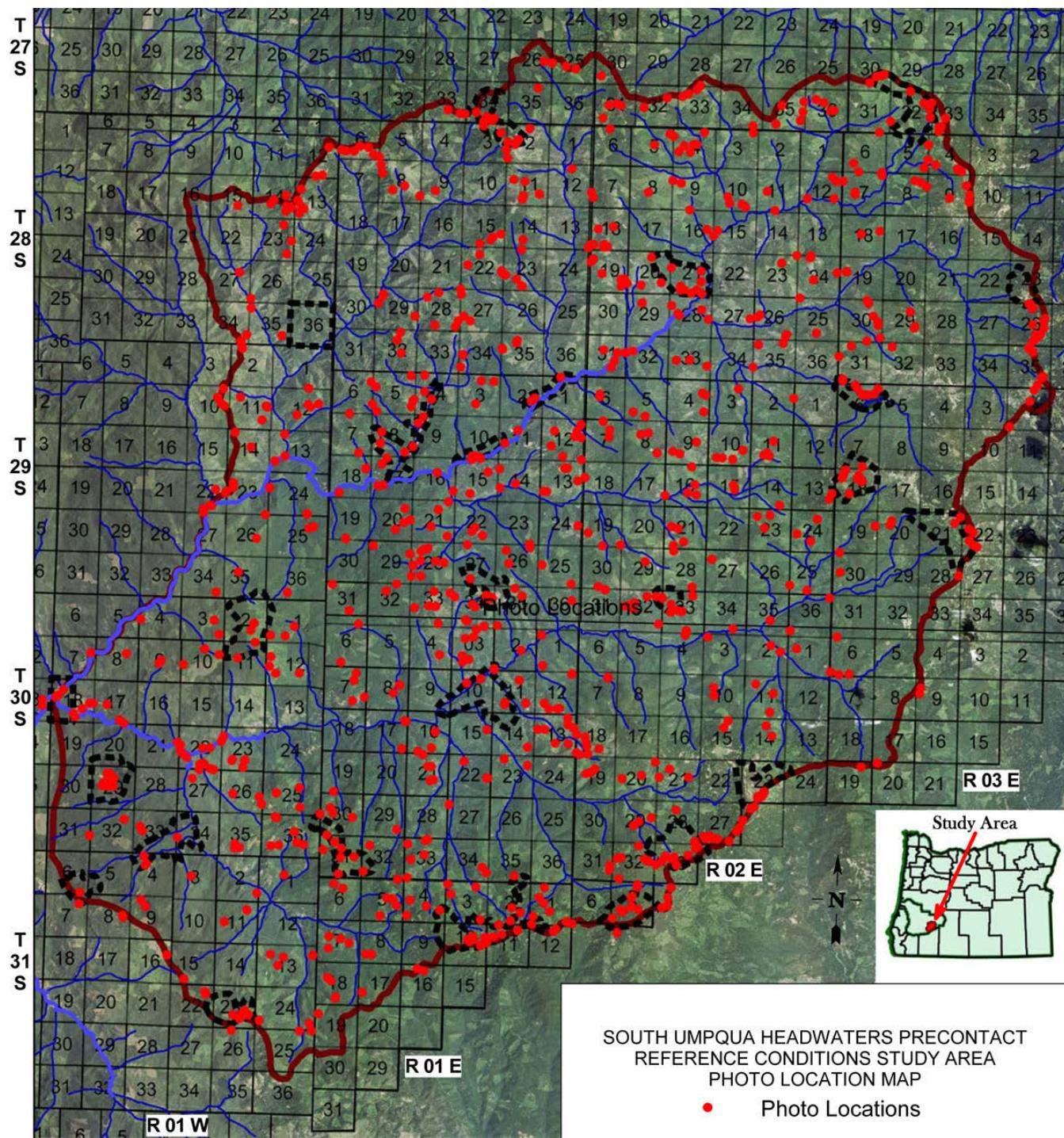


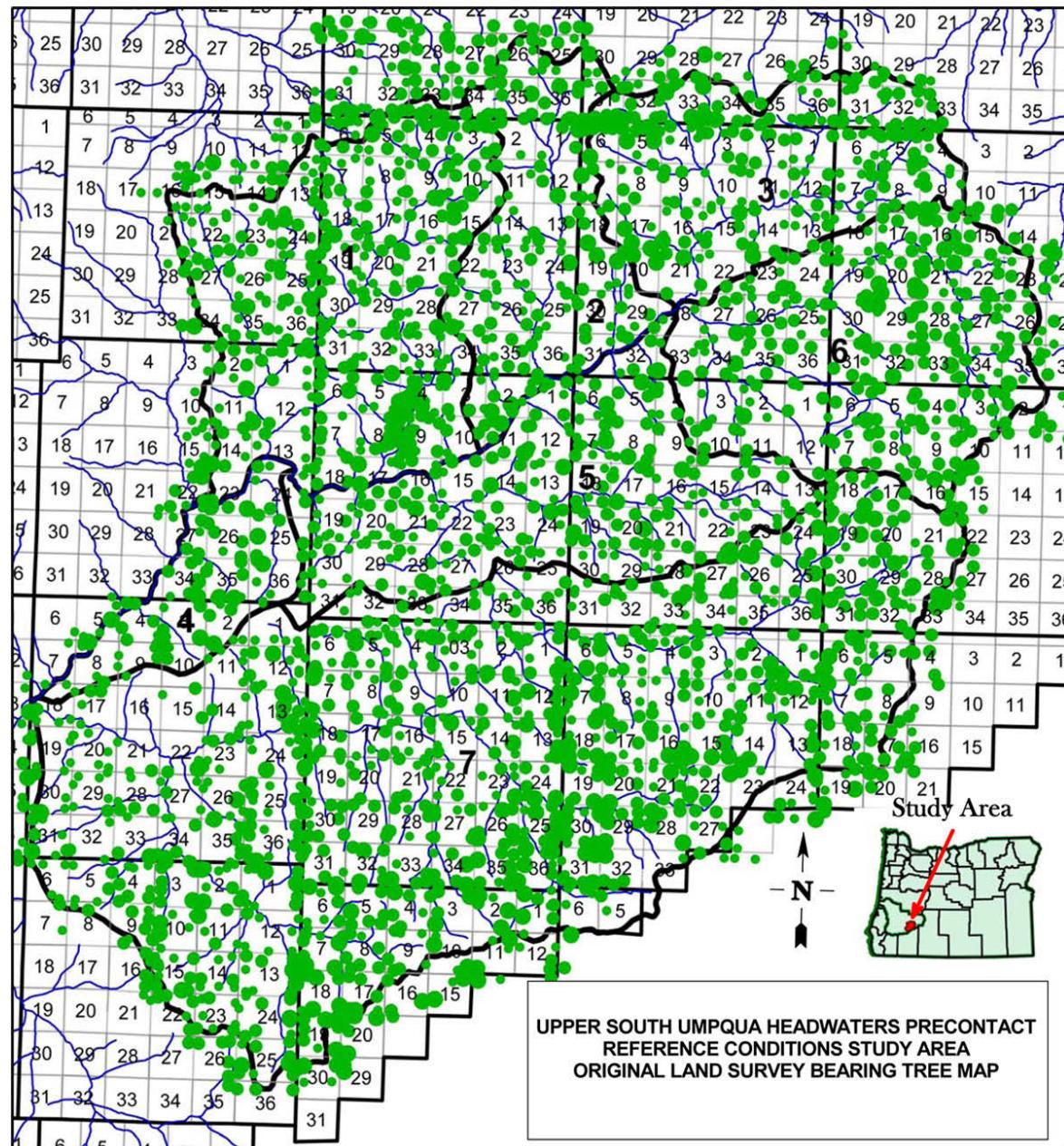




— Understory Huckleberry — Understory Salal □ Study Area Boundary
 — Understory Evergreen — Understory Hardwoods — Section Lines
 — Understory Nut-Shrubs — 2009 Aerial Flight

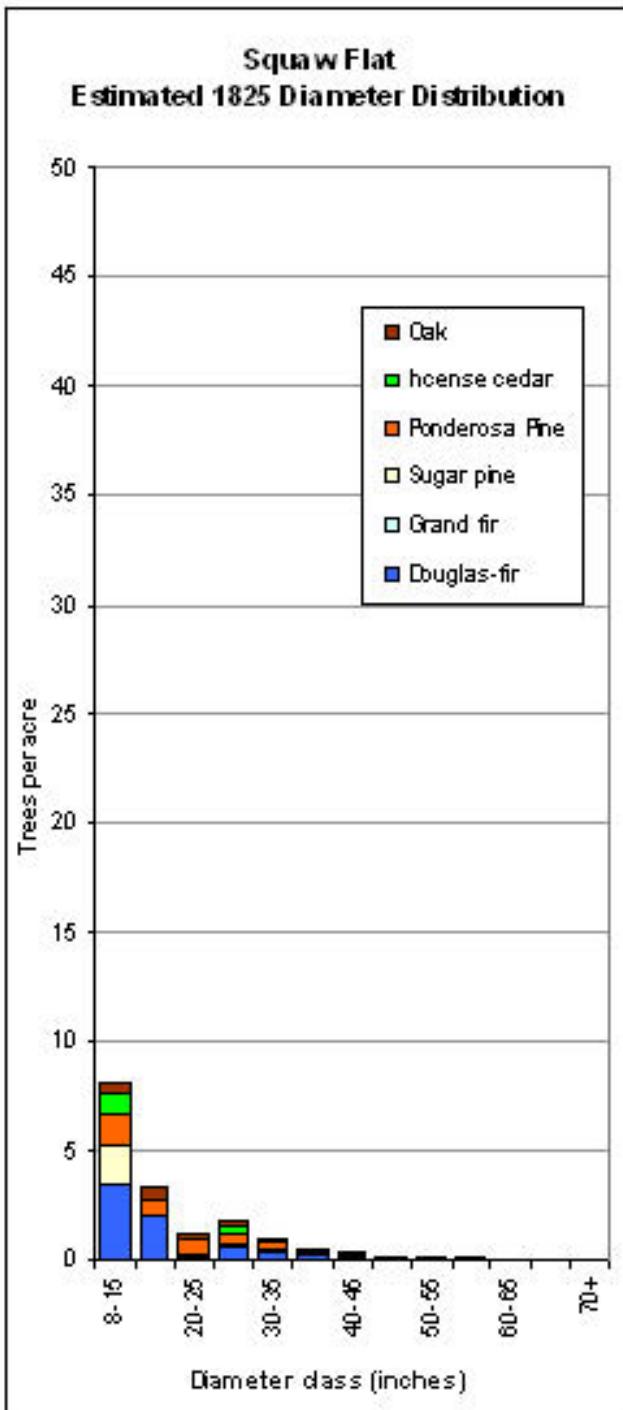




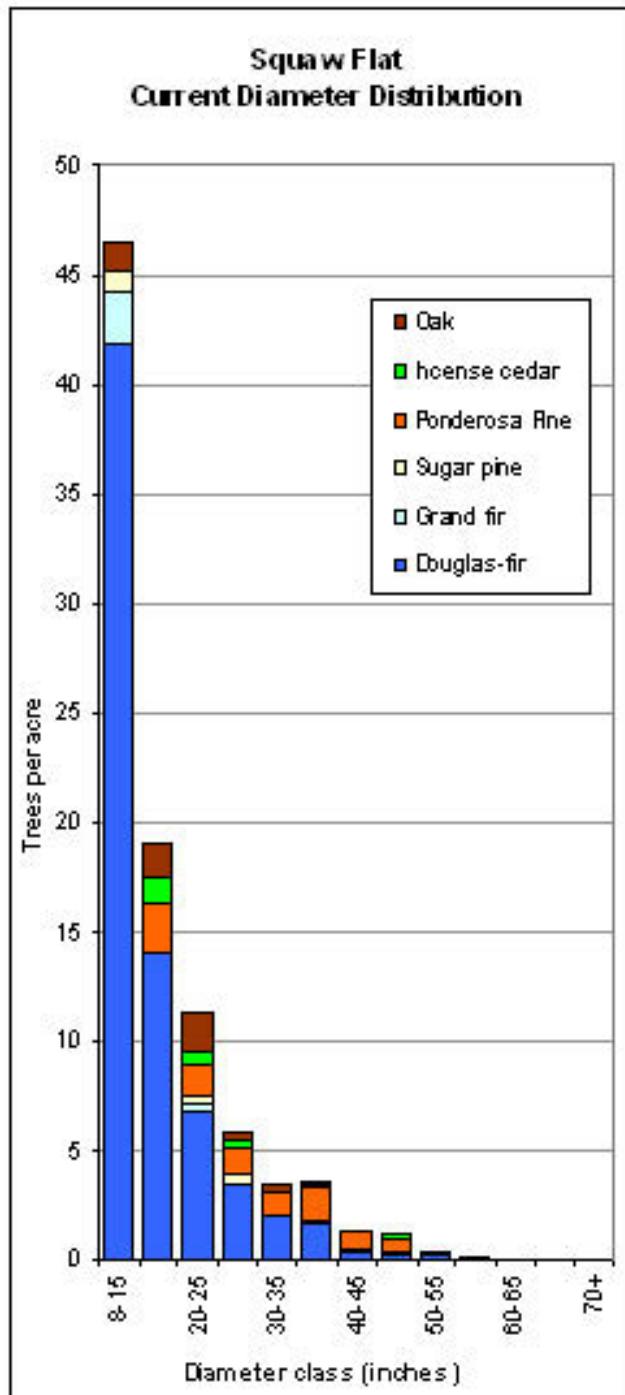


- Doug-Fir Under 18
 - Doug-Fir 18 to 36
 - Doug-Fir over 36
 - Subbasins
- 3 = Black Rock Subbasin 6 = Castle Rock Subbasin
- 1 = Boulder Subbasin 4 = Zinc Subbasin 7 = Jackson Subbasin
- 2 = Quartz Subbasin 5 = Buckeye Subbasin

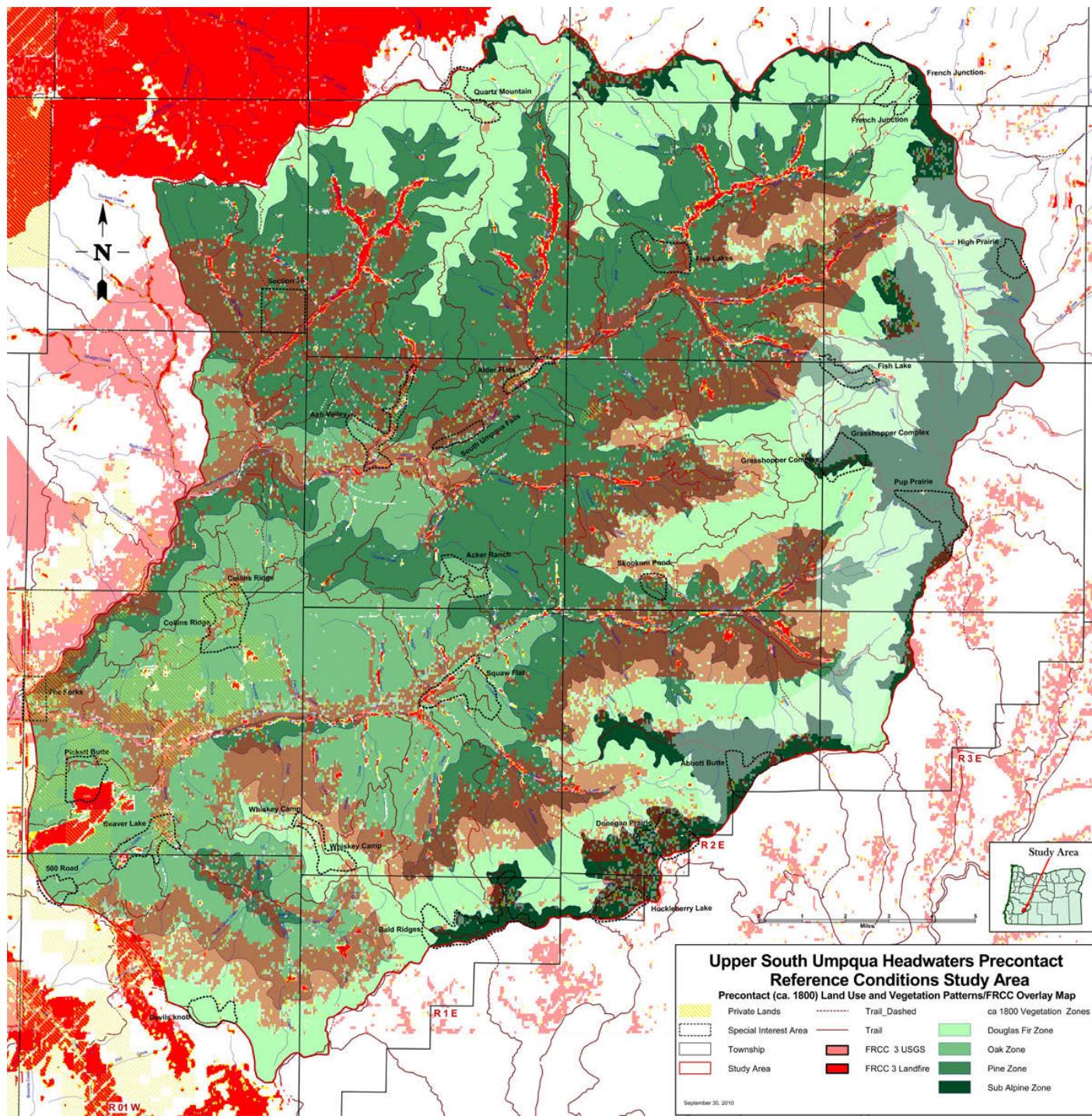
1825



2010



© Dubrasich 2010





















Wildfire or Biomass?
(Kulakowski and Jarvis 2011)

Oregon Red Zone: Red Turns to Gray (September 8, 2011)



Conclusions

1. Catastrophic-scale wildfires are deadly, costly, and destructive.
2. Regular landscape-scale prescribed fires, as exemplified by historical Indian burning practices, can significantly reduce the likelihood and severity of modern wildfire risks.
3. Fuel levels must first be greatly reduced before prescribed fires can be safely and effectively reintroduced into the environment.
4. Removing dead trees and shrubs and invasive conifers from forests and grasslands allows the safe and effective reintroduction of prescribed fire. Converting these excess fuels into biomass and other beneficial products helps create healthier forests, make safer environments, protect wildlife and old-growth, and enhance rural economies (“jobs”).
5. *“Landscape restoration” means restoring people to the landscape, including (maybe especially) children.*

Oregon Websites and Watersheds Project, Inc.



www.ORWW.org