

Informing oak habitat restoration with available avian science and project monitoring



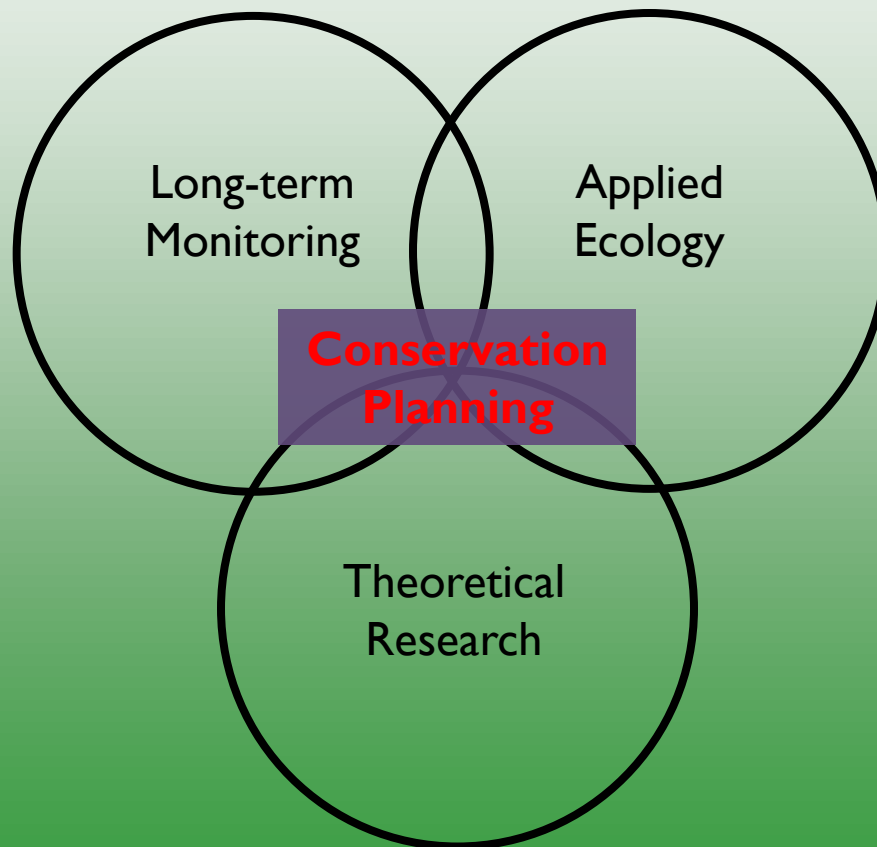
Jaime Stephens
Kate Halstead
Bob Altman
John Alexander



Klamath Bird Observatory



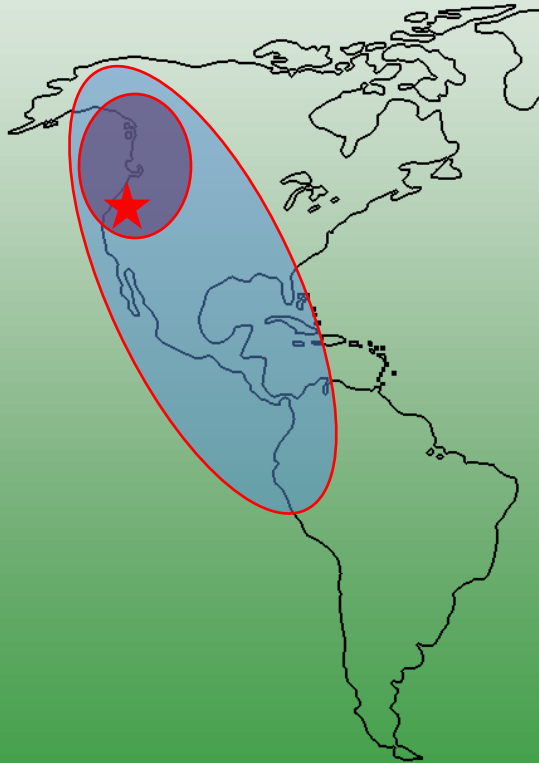
Advancing bird and habitat conservation through science, education, and partnerships



Klamath Bird Observatory



Applying our model at multiple scales



Klamath Siskiyou Bioregion



International partnerships and
capacity building

Habitat associates vs. obligates



- Generalists
- Habitat associates
- Habitat obligates



Oak habitat gradients



Oak Dominated

Mixed Dominated

Conifer Dominated

**Species
Composition**



**Individual Species
Abundance**



Resource: Bird abundance in the PNW

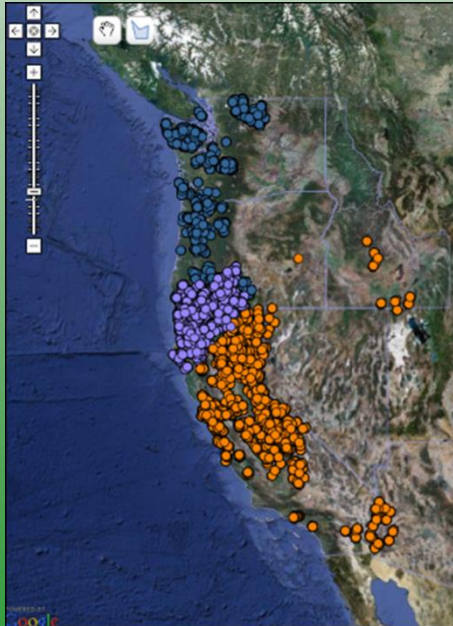


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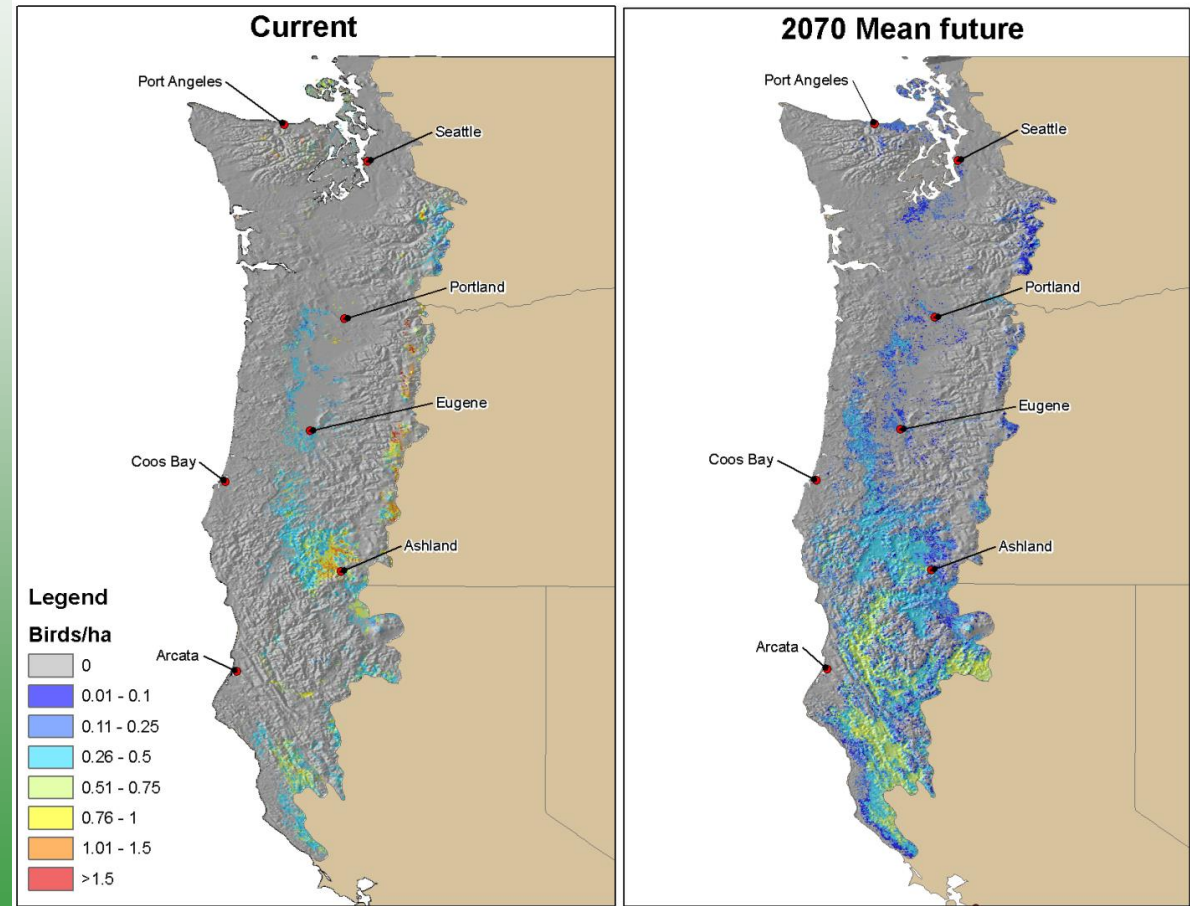
PRBO Conservation Science



AMERICAN BIRD
CONSERVANCY



White-breasted Nuthatch



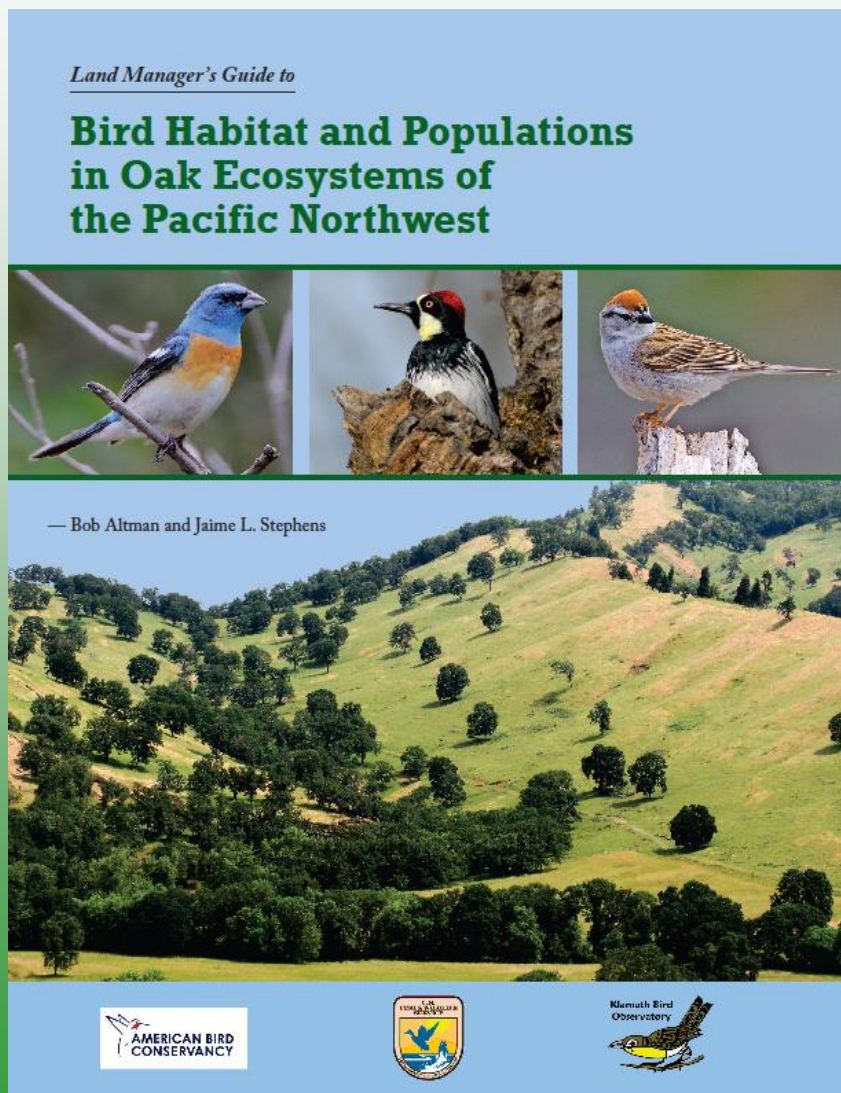
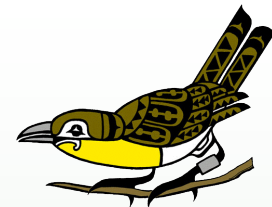
Resource: Bird abundance in the PNW



Oak woodland species



Resource: Land manager's guide to PNW



- Habitat associations
- Response to treatment
- Species accounts
- Species density

www.KlamathBird.org

Resource: Guide for private landowners



RESTORING OAK HABITATS IN SOUTHERN OREGON & NORTHERN CALIFORNIA



A GUIDE FOR PRIVATE LANDOWNERS

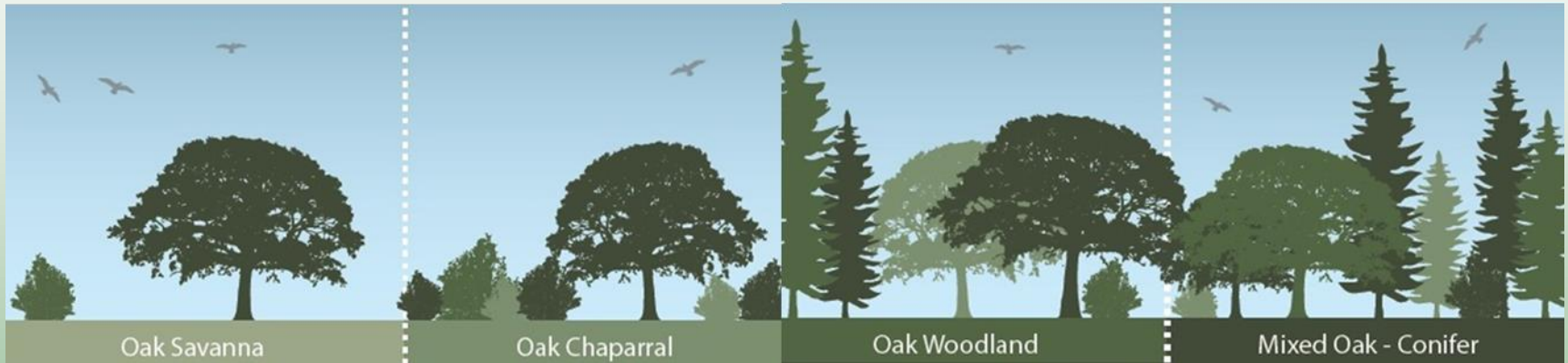


Version 1.0

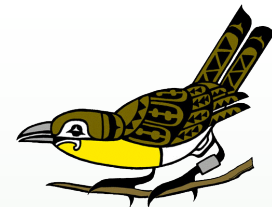


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Resource: Guide for private landowners



Resource: Guide for private landowners



Landowner Worksheet: Considering Oaks on Your Land

Take a moment to complete this worksheet about oaks and your land. This worksheet will direct you to the areas of this guide where your restoration efforts can produce the best results for Oregon white and California black oak habitats. Be aware that oak restoration requires work over multiple years.

Look at the graphic above. Do you have oak savanna, oak chaparral, oak woodland, or mixed oak-conifer forest on your land?

All these habitat types are important for wildlife and this guide provides restoration guidelines relevant to all of them.

Do you have large, old oak trees?

Large, old oak trees provide immense wildlife value, and they need full sunlight to thrive. See **pages 22-23** to learn how to protect existing—and encourage new—large, old oaks.

Do your oaks receive full sunlight?

Do you have many standing dead trees (snags) on your land?

Snags are very important for wildlife. See **pages 28-29** to learn more about snags and how to have them on your land for wildlife.

Do you have invasive shrubs or grasses in your oak habitat?

Native shrubs are better for wildlife than invasive shrubs. Learn more on **pages 30-31**.

Resource: Guide for private landowners



Six Desired Conditions



Structure



Large trees



Snags



Grasses



Fire



Balanced management

Resource: Guide for private landowners



Citizen Science



Resource: Guide for private landowners



Citizen Science



eBird Northwest
www.eBird.org/NW

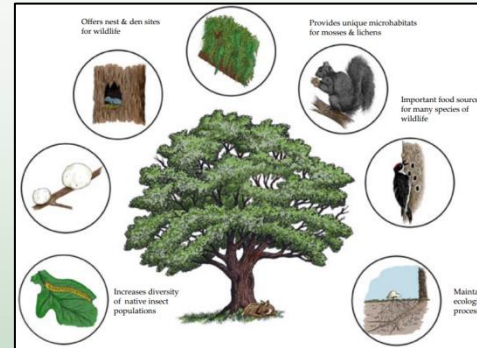
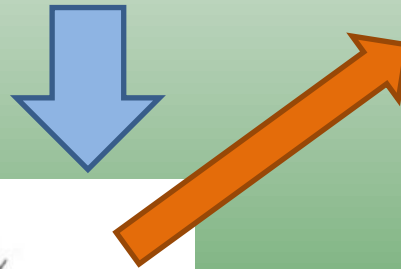
eBird



Science and Monitoring



Restoration alters forest structure and composition



Benefits include

- Habitat value
- Fire resistance
- Climate resilience
- Ecosystem function

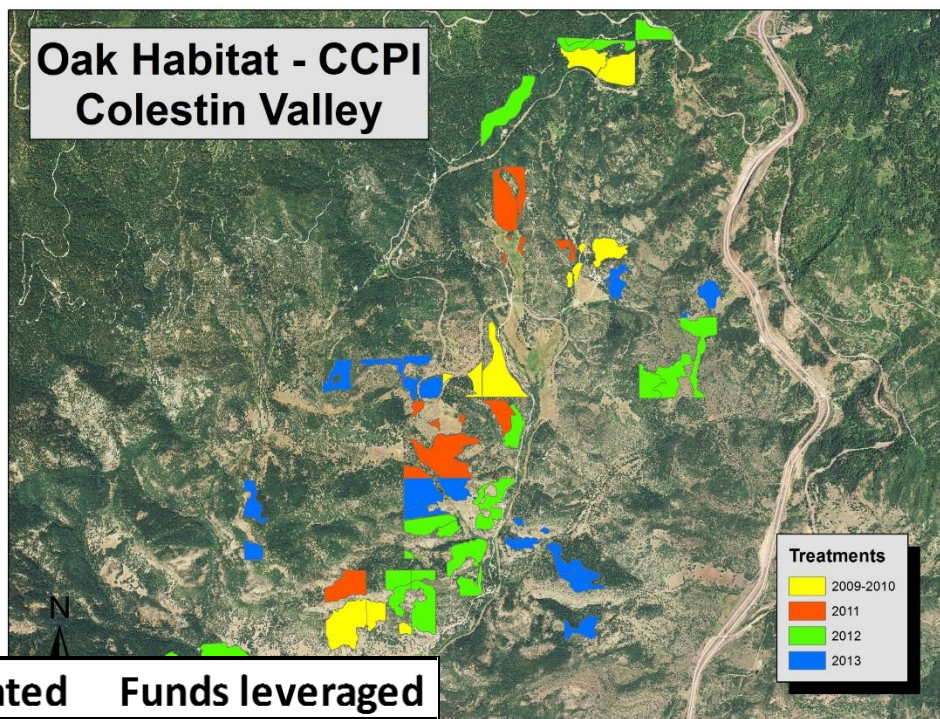
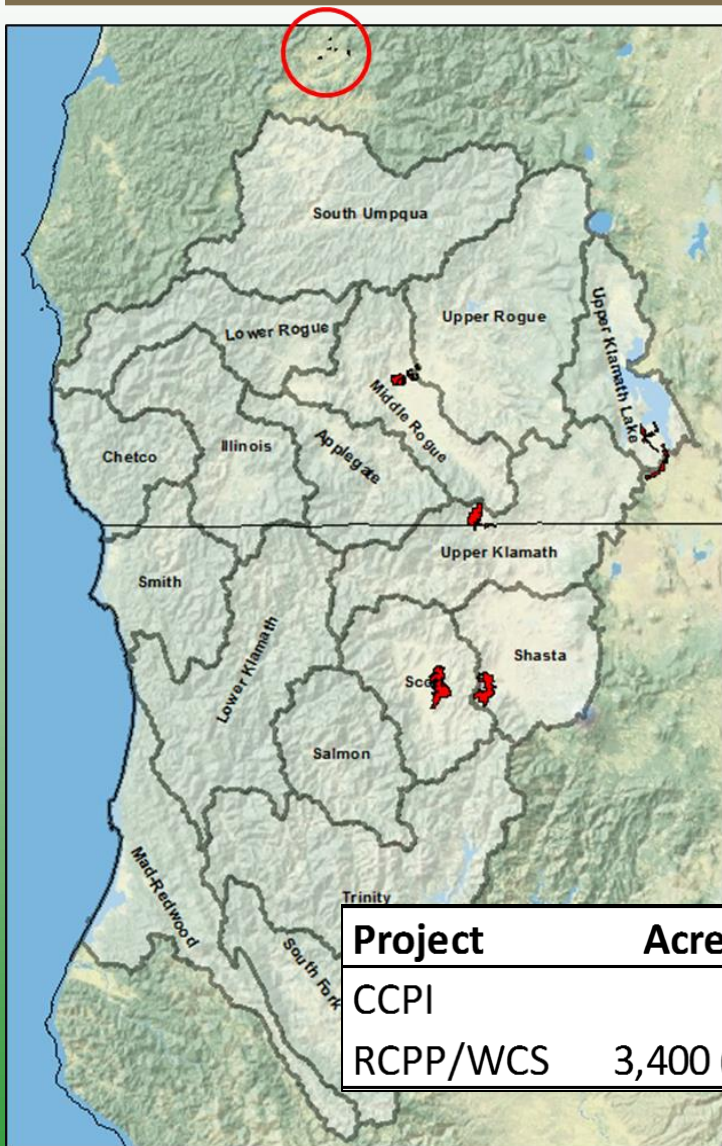
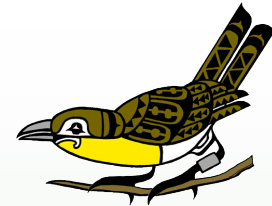


Vegetation monitoring

Bird monitoring

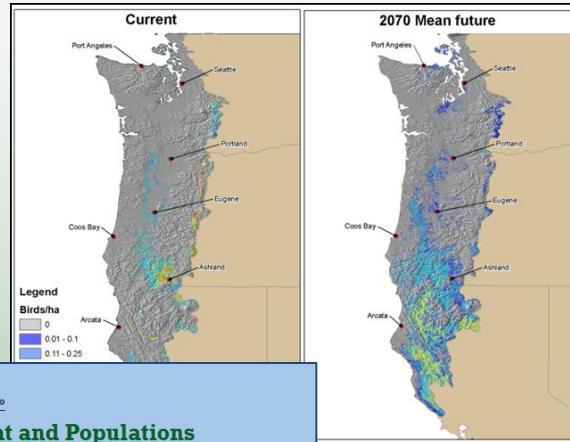


Science and Monitoring



Project	Acres treated	Funds leveraged
CCPI	3,000	3,000,000
RCPP/WCS	3,400 (proposed)	4,650,000

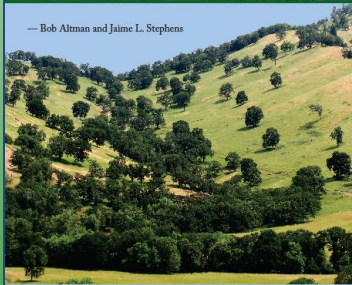
Adaptive Management



Land Manager's Guide to
**Bird Habitat and Populations
in Oak Ecosystems of
the Pacific Northwest**



— Bob Altman and Jaime L. Stephens



**RESTORING OAK HABITATS IN
SOUTHERN OREGON & NORTHERN CALIFORNIA**



A GUIDE FOR PRIVATE LANDOWNERS



Version 1.0



What's next? OakBirdPop!



OakBirdPop will guide land manager efforts to achieve bird population objectives at site, landscape and ecoregional scales.

- 1) Desired ratios of oak habitat types necessary to achieve priority bird species population objectives
- 2) Calculate the bird population benefits of oak restoration activities at multiple scales

Acknowledgements



- Klamath Siskiyou Oak Network
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- Natural Resource Conservation Service
- The Nature Conservancy
- US Fish and Wildlife Service
- US Forest Service
- Oregon State University
- Photos: KBO & Jim Livaudais

