

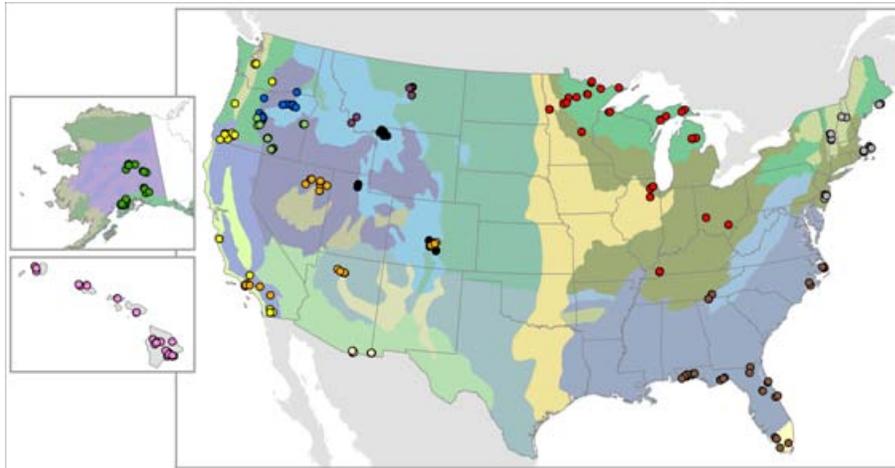


# The Digital Photo Series

<http://www.fs.fed.us/pnw/fera>

## Background

Photo series provide a quick and easy way to quantify and describe current fuel and vegetation properties such as loading of dead and down woody material, tree density, or height of understory vegetation. This information is critical for making fuel management decisions and predicting fire behavior and fire effects. A significant national effort over the last decade has been undertaken to produce photos series for previously unrepresented vegetation types. Most recently, photo series for natural fuels have been published for hardwoods with spruce (Alaska); jack pine (Central and Lake States); Oregon white oak, California deciduous oak, and mixed conifer with shrubs (western U.S.); sand hill, sand pine scrub, and hardwoods with white pine (southeast U.S.); northern hardwoods, pitch pine, and red spruce/balsam fir (northeast U.S.); sagebrush with grass and ponderosa pine-juniper (central Montana); oak/juniper woodlands (southern Arizona and New Mexico), sagebrush (eastern Oregon); and post hurricane fuels (southeast U. S.).



The Natural Fuels Photo Series, a photo guide designed for field use, is a source of high quality fuels data and images for a wide variety of forest and range ecosystems throughout the United States. The original photo series guides were primarily developed for field-based assessments. Technological advances since the inception of the Natural Fuels Photos Series, coupled with development of new fire- and natural resource-based software applications highlight the need for an electronic version of the Photo Series. The Digital Photo Series is a user-friendly interface to the existing database of fuels information and high quality photographs.



## About The Digital Photo Series

The Digital Photo Series contains searchable data and images for nearly 400 sites representing fuels in a wide range of ecosystems throughout the United States. Each entry includes a site description, species composition, fuel loading and arrangement, and overstory composition and structure. This information can be used for planning fuels treatments or other management actions, and as inputs to fire behavior and fire effects models and applications.

The Digital Photo Series has the ability to grow as new photo series are developed and as the priorities and needs of fire and fuels managers change and evolve. The Digital Photo Series is nearing completion and a beta version is available online (<http://depts.washington.edu/nwfire/dps/>). The Digital Photo Series will be available in two formats. Users will be able to access data and images using their web browser through an internet connection or, where the internet is not available, by loading the data and images from a CD. Either way the Digital Photo Series will have the same look, feel and functionality.

**Digital Photo Series: Volume VII -- Site WO 07**

**SITE INFORMATION**

Coordinates: N 46° 17' 12.72" W 120° 45' 3.69"  
 Land owner: Yakama Indian Reservation (Bureau of Indian Affairs)  
 SAF Cover Type: Oregon White Oak (SAF 233)  
 Plant Association: Oregon white oak/blue wild eye woodland  
 Ecoregion Division: Marine - Mountain Provinces (M240)  
 Ecoregion Province: Cascade Mixed Forest - Coniferous Forest - Alpine Meadow (M242)  
 Fire history: Unknown  
 State: Washington  
 Elevation: 1,540 ft  
 Slope: 20%  
 Aspect: NNW  
 Crown closure: 74%

**SITE SPECIES**

Trees (% of stems) *Quercus garryana* (100)  
 Seedlings (% of stems) *Quercus garryana* (100)  
 Understory (% cover) *Graminoid* (7)

**UNDERSTORY VEGETATION**

Coverage (%)	Lifeform			
	Seeding	Shrub	Forb	Graminoid
Avgt height (ft)	--	1.4	0.0	0.4
Biomass (lbs/ac)	--	1	98	148
Density (stems/ac)	7,464	--	--	--

**SAPLINGS AND TREES**

Most common species (% of stems)	Size class (diameter at breast height in inches)			
	<= 4	4 - 9	9 - 15	> 15
<i>Quercus garryana</i> (100)	470	448	43	0
Tree density (stems/ac)	282	322	29	0
Live	188	116	14	0
Dead	2.2	6.0	9.9	--
Avg DBH (in)	2.3	6.1	10.1	--
Live	2.2	5.6	9.6	--
Dead	9.0	16.0	22.0	--
Avg height (ft)	11.0	18.0	26.0	--
Live	6.0	10.0	14.0	--
Dead	2.0	4.0	4.0	--
Avg height to crown base (ft)	2.0	4.0	4.0	--
Live	2.0	2.0	--	--
Dead	4.0	7.0	6.0	--
Avg height to live crown (ft)				

**WOODY MATERIAL**

Diameter (in)	Loading (tons/ac)		Density (pieces/ac)	
	Sound	Rotten	Sound	Rotten
<= 0.25	0.40	0	0.40	--
0.26 - 1.0	1.00	0	1.00	--
1.1 - 3.0	1.40	0	1.40	--
3.1 - 9.0	2.20	0.10	2.30	88
> 9.0	0	0	0	0
Total	5.00	0.10	5.10	88

**FOREST FLOOR**

	Depth (in)	Loading (tons/ac)	Constancy (percent)
Surface material	2.4	6.40	85
Duff	1.0	3.40	56
Total forest floor	3.0	9.80	87
Substrate (Mineral soil)			4

**Documentation:** [Photo Series] [Volume VII] [WO series] **Download WO series:** [Excel] [Text] [XML] < Previous Next >

**Digital Photo Series**

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### Visit the Photo Series Website at:

<http://www.fs.fed.us/pnw/fera/photoseries.html>