

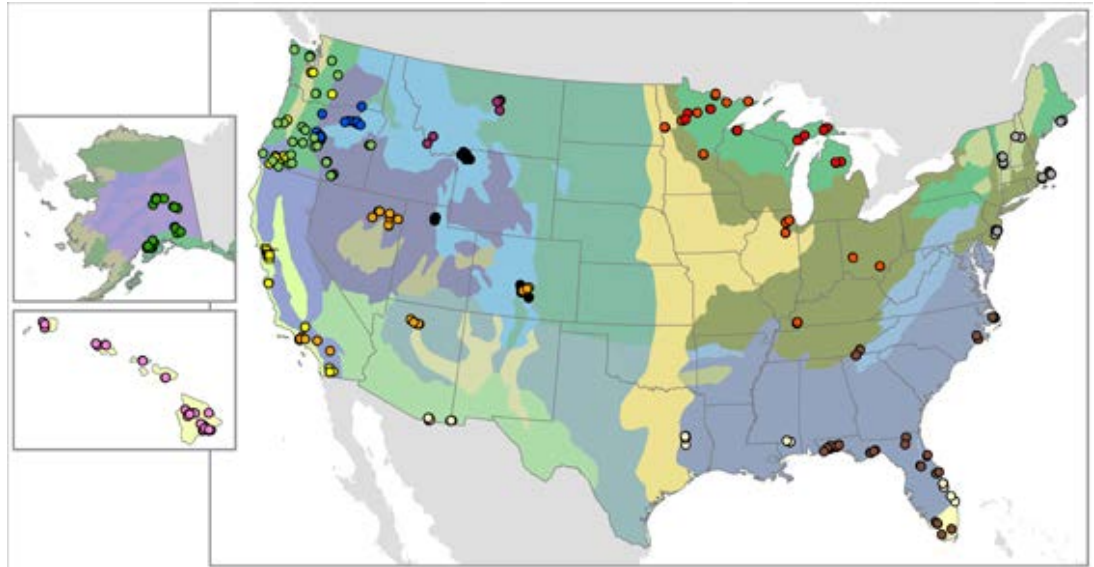


The Digital Photo Series

<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 two decades has been undertaken to produce photos series for previously unrepresented vegetation types. Most recently, photo series for natural fuels have been published for 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), arid grasslands, sagebrush, and ponderosa pine (eastern Oregon); old-growth forest suitable for northern spotted owl nesting habitat (Washington and 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 more than 450 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 available online at (<http://depts.washington.edu/nwfire/dps/>). The Digital Photo Series is a web application with which users access data and images using their web browser through an internet connection. If the internet is not available, users can load the data and images from a CD. Both the on- and offline versions of the Digital Photo Series have the same look, feel and functionality.

Digital Photo Series: Volume VII -- Site WO 07 (Under Development) - Mozilla Firefox

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[Print Site WO 07] Measurement system: [English] < Previous site Next site >

Volume VII: Western United States > Oregon White Oak > WO 07

SITE INFORMATION

Coordinates: N 46° 37' 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%

Notes: If the sum of total forest floor constancy and the mineral soil constancy is less than 100, then the remainder is the constancy of a grass-dominated surface material with no duff.

SITE SPECIES

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

UNDERTORY VEGETATION

Coverage (%)	Lifeform			
	Seeding	Shrub	Forb	Graminoid
Avq height (ft)	--	1.4	0.0	0.4
Biomass (lbs/ac)	--	1	98	149
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 - 16	>= 16
Quercus garryana (100)	446	43	0	491
Tree density (stems/ac)	282	322	29	261
Live	188	116	34	130
Dead	2.3	6.0	9.9	6.3
Avq DBH (in)	2.3	6.1	10.1	6.5
Live	2.2	5.6	9.6	6.1
Dead	9.0	16.0	22.0	17.0
Avq height to crown base (ft)	11.0	18.0	26.0	19.0
Live	6.0	10.0	14.0	10.0
Dead	2.0	4.0	4.0	4.0
Avq height to live crown (ft)	2.0	7.0	8.0	7.0

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 >

http://depts.washington.edu/nwfire/dps/images/N_VII/wo07.jpg

Digital Photo Series

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Logos for: nfp, U.S. Forest Service, U.S. Department of the Interior, U.S. Fish & Wildlife Service, National Park Service.

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