Computer Models For Fire and Smoke

Model Name:	Digital Photo Series
Version:	1.0
Date:	February 14, 2014
Model Actively Supported?:	Yes
Classification:	Web tool
Very Short Description:	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.
Modeler(s), Organization(s):	Clint Wright, US Forest Service Pacific Wildland Fire Sciences Laboratory
User's Guide:	Online help (DPS help)
Technical References:	Published natural fuels photo series can be ordered from FERA. www.fs.fed.us/pnw/fera/research/fuels/photo_serie s/index.shtml
Validation References:	None
Availability:	http://depts.washington.edu/nwfire/dps/
Price:	Free.
Necessary Hardware:	None.
Computer Language:	РНР
Size:	N/A

Contact Information:

Detailed Description:

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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 ponderosoa pine-juniper (central Montana); and oak/juniper woodlands (southern Arizona and New Mexico).

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.

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.