

2011 Aerial Insect and Disease Survey

USGS 100K Quad: GOLDENDALE - E145120; 5G



Mortality Agents		
Code	Damaging Agent	Primary Host
1	Douglas fir beetle	Douglas fir
2	Douglas fir engraver	Douglas fir
3	Spineless bark beetle	Spineless bark beetle
4	Pine engraver	True fir
5	Western balsam bark beetle	Sub-alpine fir
6B	Mountain pine beetle	Whitebark pine
6L	Mountain pine beetle	Lodgepole pine
6P	Mountain pine beetle	Ponderosa pine
6S	Mountain pine beetle	Sugar pine
6W	Mountain pine beetle	Western white pine
7	W. spruce	Ponderosa, longleaf pines
8	Western pine beetle	Ponderosa pine
9	W. spruce	Pine-fir, true fir
9A	W. spruce	Pine-fir, true fir
9B	W. spruce	Pine-fir, true fir
9C	W. spruce	Pine-fir, true fir
9D	W. spruce	Pine-fir, true fir
9E	W. spruce	Pine-fir, true fir
9F	W. spruce	Pine-fir, true fir
9G	W. spruce	Pine-fir, true fir
9H	W. spruce	Pine-fir, true fir
9I	W. spruce	Pine-fir, true fir
9J	W. spruce	Pine-fir, true fir
9K	W. spruce	Pine-fir, true fir
9L	W. spruce	Pine-fir, true fir
9M	W. spruce	Pine-fir, true fir
9N	W. spruce	Pine-fir, true fir
9O	W. spruce	Pine-fir, true fir
9P	W. spruce	Pine-fir, true fir
9Q	W. spruce	Pine-fir, true fir
9R	W. spruce	Pine-fir, true fir
9S	W. spruce	Pine-fir, true fir
9T	W. spruce	Pine-fir, true fir
9U	W. spruce	Pine-fir, true fir
9V	W. spruce	Pine-fir, true fir
9W	W. spruce	Pine-fir, true fir
9X	W. spruce	Pine-fir, true fir
9Y	W. spruce	Pine-fir, true fir
9Z	W. spruce	Pine-fir, true fir

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Map Scale: 1:100,000
Date: 14 December 2011

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- WadNR Managed Lands
- Areas Not Flown
- 2011 Large Fires

Source: Northwest Interagency Coordination Center

The cause of damage is described by a symbol above and is followed by: number of trees affected; number of trees (example: 5A) or intensity of damage (L- Light, M- Moderate, H- Heavy).

The TOPO! maps are seamless, scanned images of United States Geological Survey (USGS) paper topographic maps. For more information on this map, visit us online at http://goto.arcgisonline.com/maps/USA_Topo_Maps

A data dictionary, digital copies of this map and Arctis insect and disease data are available at: www.fs.usda.gov/goto/r6/rhp/ads

How the Aerial Surveys Are Conducted

Data represented on this map are based on trees visibly affected by forest insects and diseases detected and recorded during aerial survey flights conducted by the USDA Forest Service, the Washington Department of Natural Resources and the Oregon Department of Forestry. Observers have just a few seconds to recognize the color difference between healthy and damaged trees of different species; diagnose causal agents correctly; estimate intensity; delineate the extent of damage; and precisely record this information on a georeferenced, digital map. Air turbulence, cloud shadows, distance from aircraft, haze, smoke and observer experience can all affect the quality of the survey. These data summaries provide an estimate of conditions on the ground and may differ from estimates derived by other methods.

The aerial survey provides information on the current status for many causal agents, and is important when examining insect activity trends by comparing historical and current survey data over large areas.

Overview surveys are a 'snap shot' in time and therefore may not be timed to accurately capture the true extent or severity of a particular disturbance activity. Specially designed surveys with modified flight patterns and timing may be conducted to more accurately delineate the extent and severity of a particular disturbance agent. Special surveys, such as Swiss needle cast surveys, are conducted when resources are available to address situations of sufficient economic, political or environmental importance.

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DISCLAIMER
Forest Health Protection (FHP), Washington Department of Natural Resources (WADNR) and Oregon Department of Forestry (ODF) strive to maintain an accurate Aerial Detection Survey (ADS) Dataset, but due to the conditions under which the data are collected, FHP, WADNR and ODF shall not be held responsible for missing or inaccurate data. ADS are not intended to replace more specific information. An accuracy assessment has not been done for this dataset; however, ground checks are completed in accordance with local and national guidelines. <http://www.fs.usda.gov/goto/r6/rhp/ads>
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Quality assurance sheet. Maps and data may be updated without notice. Please cite: "USDA Forest Service, Forest Health Protection, Washington Department of Natural Resources, Resource Protection Division, and Oregon Department of Forestry, Forest Health Management" as the source of this data.