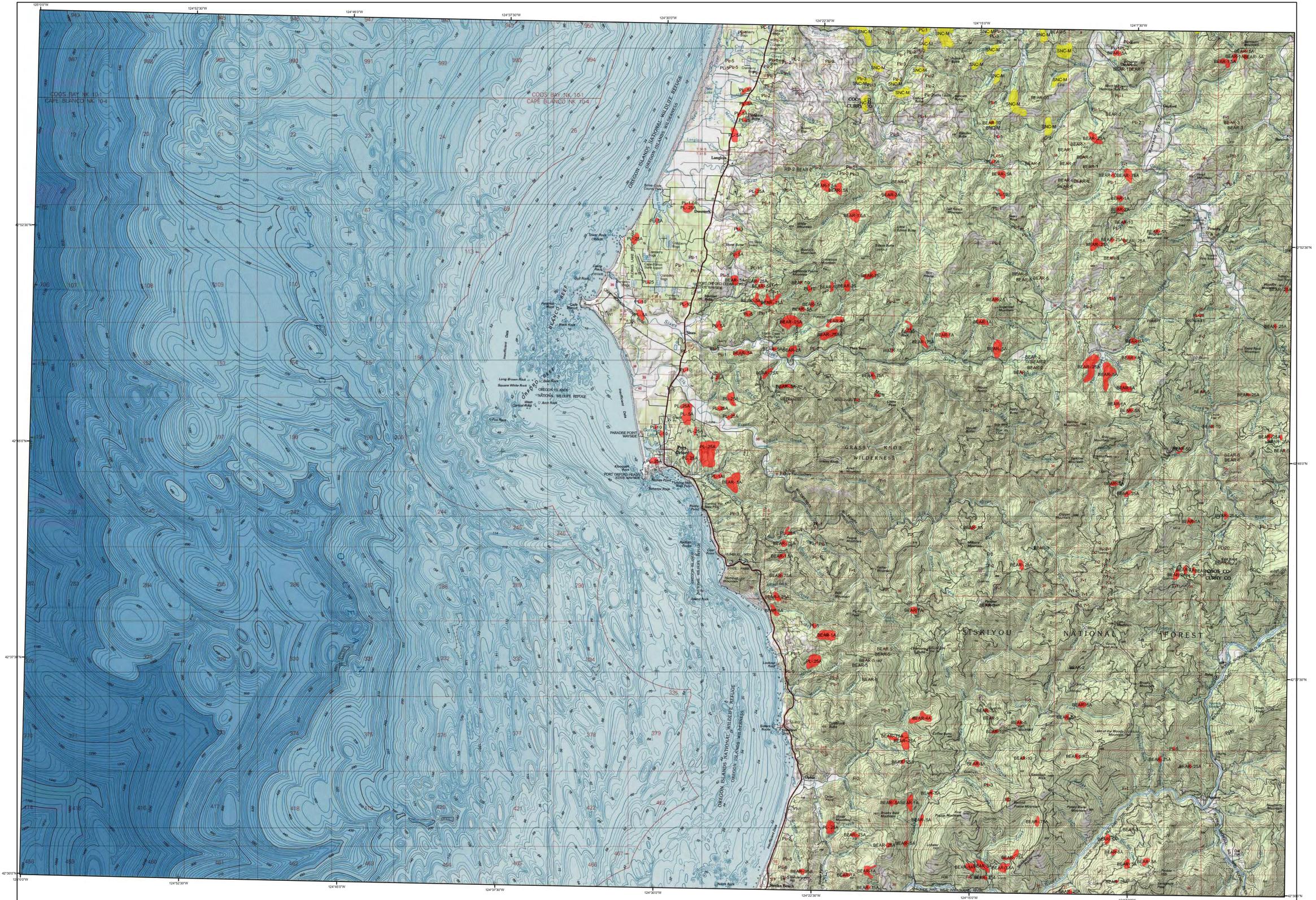


2011 Aerial Insect and Disease Survey

USGS 100K Quad: PORT ORFORD - E142124; 1M



Mortality Agents			Other Damaging Agents		
Code	Damaging Agent	Primary Host	Code	Damaging Agent	Primary Host
2	Douglas fir beetle	Douglas fir	AB	Balsam woolly adelgid	True fir
3	Douglas fir engraver	Douglas fir	AC	Cooley spruce gall adelgid	Sitka spruce, Douglas fir
4	San Jose scale	San Jose scale	AM	Leaf discoloration	Maple
5	Pit engraver	True fir	AN	Leaf miner	Maple
6B	Western balsam bark beetle	Sub-alpine fir	BR	Blester rust	True fir
6C	Mountain pine beetle	Whitebark pine	CC	Cambium canker	Maple
6D	Mountain pine beetle	Lodgepole pine	CD	Dying hemlock	Hemlock
6E	Mountain pine beetle	Lodgepole pine	CE	Fire	All species
6F	Mountain pine beetle	Ponderosa pine	CF	Fire	All species
6G	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6H	Mountain pine beetle	Ponderosa pine	CI	Hardwood decline	Hardwoods
6I	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6J	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6K	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6L	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6M	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6N	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6O	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6P	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6Q	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6R	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6S	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6T	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6U	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6V	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6W	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6X	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6Y	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
6Z	Mountain pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
7	Sitka spruce	Sitka spruce	CH	Hardwood decline	Hardwoods
8	Western pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
9	Western pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
10	Western pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
11	Western pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
12	Western pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
13	Western pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
14	Western pine beetle	Ponderosa pine	CH	Hardwood decline	Hardwoods
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2011 Aerial Insect and Disease Survey
Map Scale: 1:100,000
Date: 13 December 2011

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- Areas Not Flown
- 2011 Large Fires
- 2011 Special Swiss Needle Cast Survey

Source: Northwest Interagency Coordination Center

More information about this special survey and the related data is located here: <http://www.oregon.gov/ODF/privateforests/Maps.shtml>

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://gto.arcgis.com/arcgis/rest/services/USA_Topographic

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

DIRECT ALL INQUIRIES TO:

Oregon Department of Forestry
 Forest Health Management
 2600 State Street
 Salem, OR 97310

-- OR --

USDA Forest Service, Region 6
 Natural Resources
 Forest Health Protection
 PO Box 3623
 Portland, Oregon 97208

DISCLAIMER
 Forest Health Protection (FHP), Washington Department of Natural Resources (WDNR) and Oregon Department of Forestry (ODF) strive to maintain an accurate Aerial Detection Survey (ADS) Database, but due to the conditions under which the data are collected FHP, WDNR 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.fed.us/foresthealth/ads/>