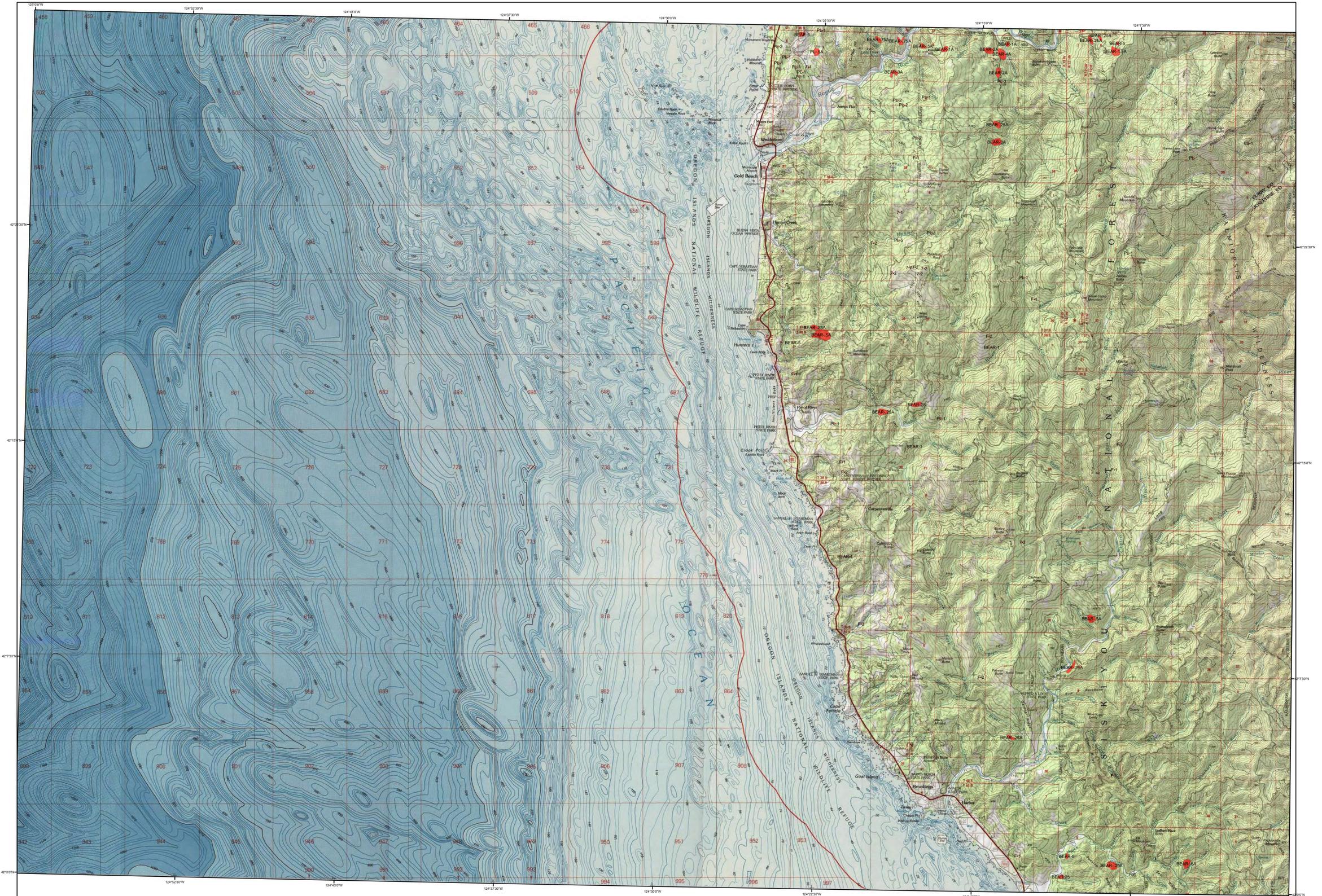


# 2011 Aerial Insect and Disease Survey

## USGS 100K Quad: GOLD BEACH - A142124; 1N



Mortality Agents		
Code	Damaging Agent	Primary Host
2	Douglas fir beetle	Douglas fir
3	Douglas fir engraver	Douglas fir
4	Spotted lanternfly	Various
5	Pine engraver	True fir
6A	Western balsam bark beetle	Sub-alpine fir
6B	Mountain pine beetle	Whitebark pine
6C	Mountain pine beetle	Lodgepole pine
6D	Mountain pine beetle	Ponderosa pine
6E	Mountain pine beetle	Sugar pine
6F	Mountain pine beetle	Western white pine
6G	Mountain pine beetle	Hardwood decline
6H	Mountain pine beetle	Hardwood decline
6I	Mountain pine beetle	Hardwood decline
6J	Mountain pine beetle	Hardwood decline
6K	Mountain pine beetle	Hardwood decline
6L	Mountain pine beetle	Hardwood decline
6M	Mountain pine beetle	Hardwood decline
6N	Mountain pine beetle	Hardwood decline
6O	Mountain pine beetle	Hardwood decline
6P	Mountain pine beetle	Hardwood decline
6Q	Mountain pine beetle	Hardwood decline
6R	Mountain pine beetle	Hardwood decline
6S	Mountain pine beetle	Hardwood decline
6T	Mountain pine beetle	Hardwood decline
6U	Mountain pine beetle	Hardwood decline
6V	Mountain pine beetle	Hardwood decline
6W	Mountain pine beetle	Hardwood decline
6X	Mountain pine beetle	Hardwood decline
6Y	Mountain pine beetle	Hardwood decline
6Z	Mountain pine beetle	Hardwood decline
7	Western white pine	Ponderosa pine
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**USGS 100K Quad: GOLD BEACH - A142124; 1N**  
**2011 Aerial Insect and Disease Survey**  
**Map Scale: 1:100,000**  
**Date: 13 December 2011**

### Legend

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

Source: Northwest Interagency Coordination Center

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](http://gto.arcgis.com/arcgis/rest/services/USA_Topographic)

A data dictionary, digital copies of this map and Arctics insect and disease data are available at: [www.fs.usda.gov/gto/r6/fhp/ads](http://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/>