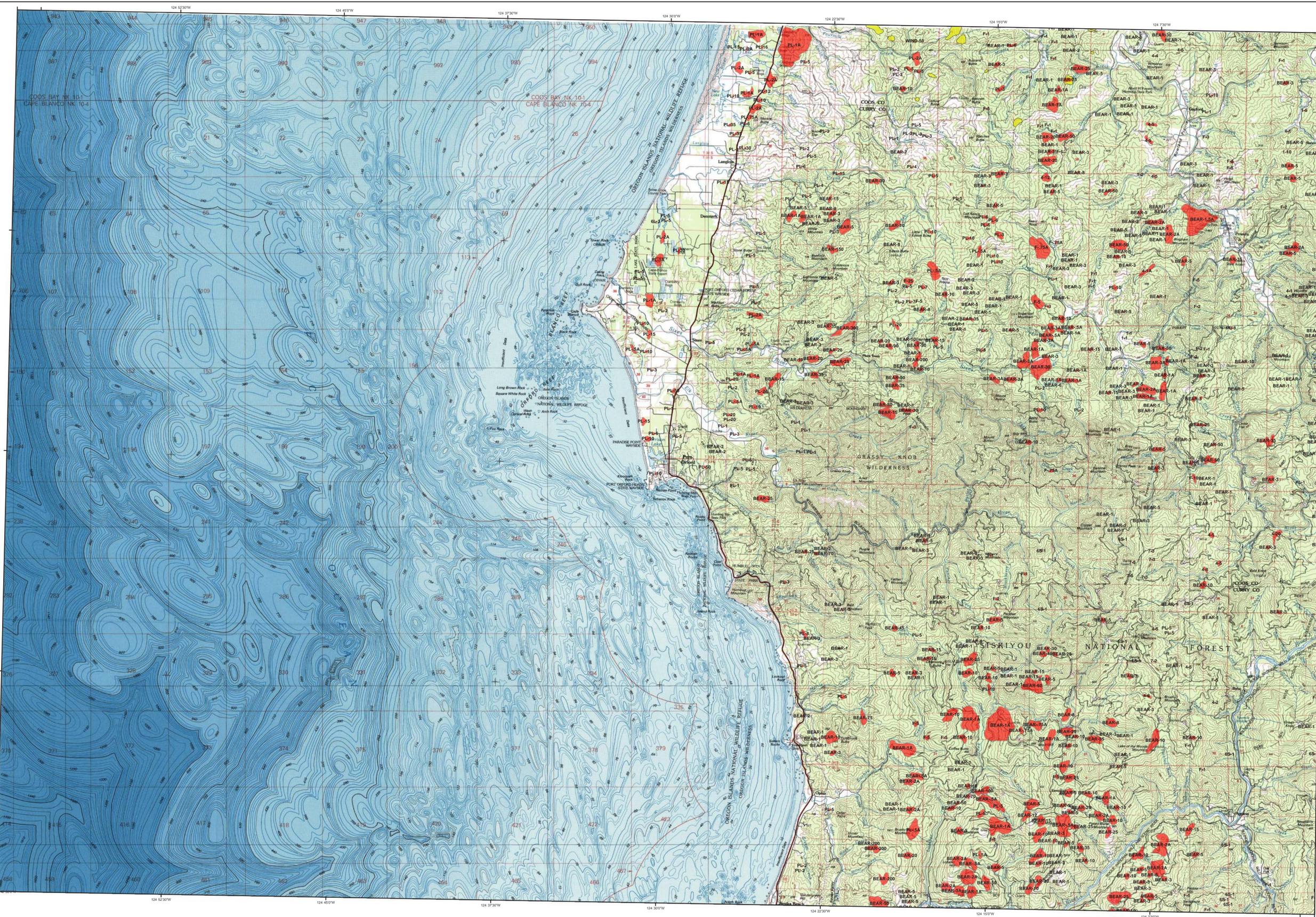


# 2006 Aerial Insect and Disease Survey

## USGS 100K Quad: Port Orford - E142124; 1M



Defoliators		Mortality Agents	
Code	Primary Host	Code	Primary Host
AS	Sitka spruce	1	Douglas-fir beetle
BB	Western blackheaded budworm	2	Douglas-fir engraver
BM	Modic pine tortrix	3	Spruce beetle
BP	Sugar pine tortrix	4	Fire engraver
BS	Western spruce budworm	6B	Mountain pine beetle
BY	Burns' digitiplocheimella	6K	Mountain pine beetle
CH	Larch	6L	Mountain pine beetle
HL	Western hemlock looper	6P	Mountain pine beetle
LG	Green striped forest looper	6W	Mountain pine beetle
LL	Larch looper	7	Lps spp.
LS	Black pine needle scale	8	Western pine beetle
MD	Douglas-fir budmoth	8B	Western pine beetle
ML	Larch budmoth	9	Needle miner
MN	Douglas-fir needle midge	BEAR	Bear damage
MS	Spruce budmoth		
ND	Needle miner		
NJ	Needle miner		
NK	Needle miner		
NL	Needle miner		
NS	Needle miner		
NT	Needle miner		
NW	Needle miner		
OC	Western oak looper		
OB	Pine butterfly		
PC	Pine needle cast		
PH	Phantom hemlock looper		
PM	Pandora moth		
PN	Pine needle/health miner		
PS	Pine needle scale		
RC	Needle cast		
S	Spiny mate		
SA	Sawfly		
SK	Sawfly		
SL	Sawfly		
SM	Sawfly		
SN	Swiss needle cast		
SP	Sawfly		
SV	Sawfly		
TA	Tent caterpillar, alder		
TC	Tent caterpillar, other		
TD	Douglas-fir tussock moth		
TS	Tent caterpillar, aspen		

**USGS 100K Quad: Port Orford - E142124; 1M**  
**2006 Aerial Insect and Disease Detection Survey**  
**Mapscale: 1:100,000**  
**Date: November 24, 2006**

### Legend

- 2006 Special Swiss Needle Cast Survey
- Defoliating Agents
- Mortality Agents
- Other Damage

More information about this special survey and the related data is located under 'Maps and Data' at: <http://www.odf.state.or.us/pc/iff/>

The map base was created with TOPO! (Copyright 2001, National Geographic), available online at: [www.ngmapstore.com](http://www.ngmapstore.com)

A data dictionary, digital copies of this map and ArcGIS insect and disease data are available at: [www.fs.fed.us/r6/nr/rid/data.shtml](http://www.fs.fed.us/r6/nr/rid/data.shtml)

#### 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 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, Oregon 97310

-- OR --

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

**DISCLAIMER**  
 The insect and disease data presented should only be used as an indicator of insect and disease activity, and should be ground-checked for precise location, extent, severity and causal agent. Color coded polygons show locations where trees were recently killed or defoliated. Intensity of damage is variable and not all trees within coded polygons are dead or defoliated.

The cooperators reserve the right to correct, update, modify or replace GIS products without notice. Using this map for purposes other than those for which it was intended may yield inaccurate or misleading information.