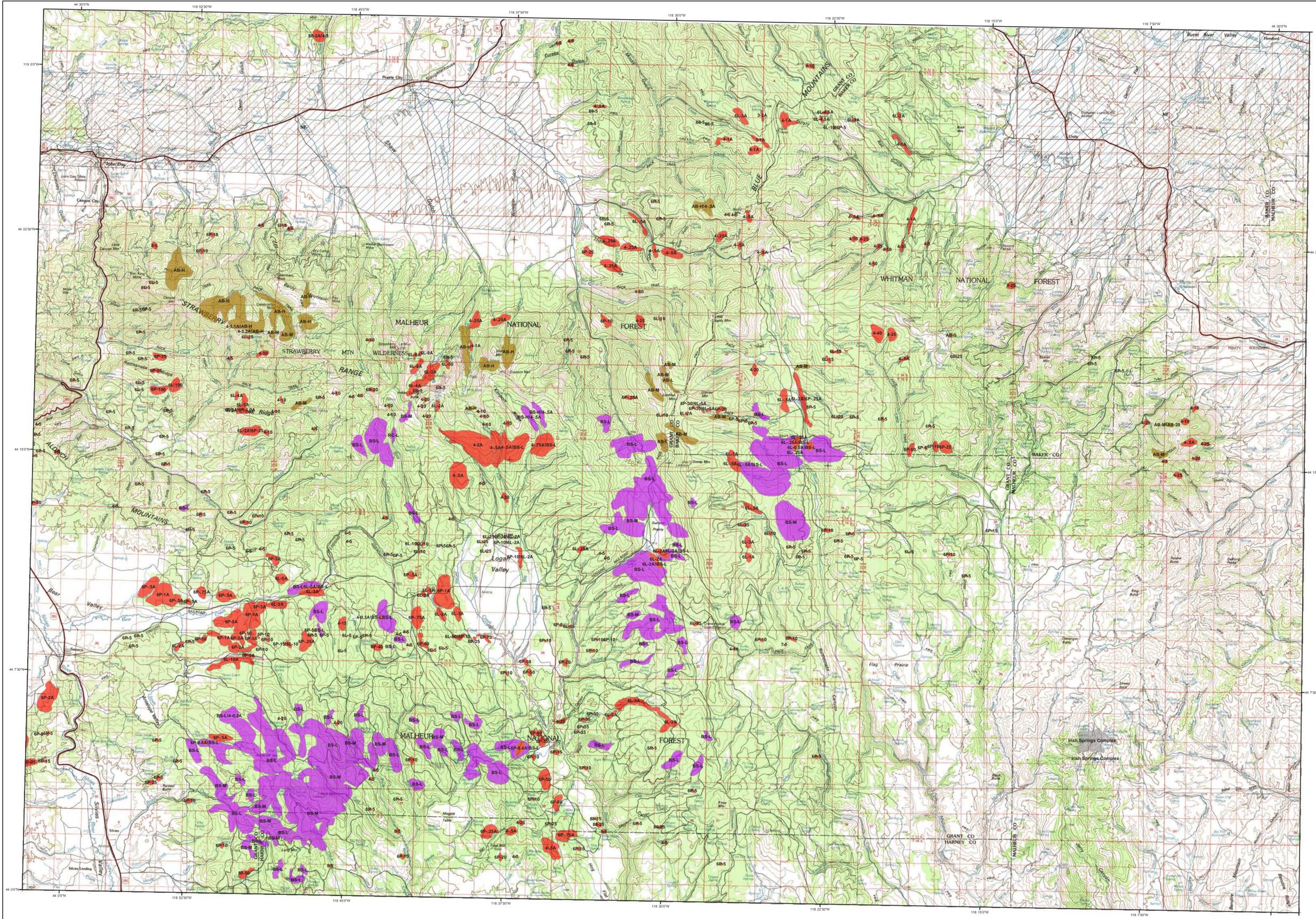


2006 Aerial Insect and Disease Survey

USGS 100K Quad: John Day - A144118; 7J



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Spine aphid	1	Douglas-fir beetle
BB	Western blackheaded budworm	2	Douglas-fir engraver
BM	Modoc budworm	3	Hemlock spruce true fir
BP	Sugar pine tortrix	4	White fir
BS	Western spruce budworm	5	Fir engraver
BY	Bryum's big/lyllophodermella	6	Sub-alpine fir
CH	Larch	7	Mountain pine beetle
HL	Western hemlock looper	8J	Mountain pine beetle
LD	Green tanager forest looper	8K	Mountain pine beetle
LL	Larch looper	8L	Mountain pine beetle
LS	Black pine needle scale	8M	Mountain pine beetle
MD	Douglas-fir budmoth	8N	Mountain pine beetle
ML	Larch budmoth	8O	Mountain pine beetle
MM	Douglas-fir needle midge	8P	Mountain pine beetle
MS	Spruce budmoth	8Q	Mountain pine beetle
ND	Douglas-fir needle miner	8R	Mountain pine beetle
NJ	Needle miner	8S	Mountain pine beetle
NK	Needle miner	8T	Mountain pine beetle
NL	Needle miner	8U	Mountain pine beetle
NM	Needle miner	8V	Mountain pine beetle
NS	Needle miner	8W	Mountain pine beetle
NT	Needle miner	8X	Mountain pine beetle
OL	Western oak looper	8Y	Mountain pine beetle
OS	Pine butterfly	8Z	Mountain pine beetle
PC	Pine needle cast	9	Western balsam bark beetle
PH	Phantom hemlock looper	10	White bark pine beetle
PM	Pandora moth	11	White bark pine beetle
PN	Pine needle-bark miner	12	White bark pine beetle
PS	Pine needle scale	13	White bark pine beetle
RC	Needle cast	14	White bark pine beetle
SA	Sawfly	15	White bark pine beetle
SD	Sawfly	16	White bark pine beetle
SE	Sawfly	17	White bark pine beetle
SH	Sawfly	18	White bark pine beetle
SI	Sawfly	19	White bark pine beetle
SL	Sawfly	20	White bark pine beetle
SN	Sawfly	21	White bark pine beetle
SO	Sawfly	22	White bark pine beetle
SW	Sawfly	23	White bark pine beetle
TA	Tent caterpillar, alder	24	White bark pine beetle
TC	Tent caterpillar, other	25	White bark pine beetle
TD	Douglas-fir tussock moth	26	White bark pine beetle
TE	Tent caterpillar, aspen	27	White bark pine beetle

USGS 100K Quad: John Day - A144118; 7J
2006 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: December 5, 2006

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- Areas Not Flown

2006 Large Fires
 Source: Northwest Coordination Center

North

Vicinity Map

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

A data dictionary, digital copies of this map and ArGIS Insect and disease data are available at: www.fs.fed.us/r6/nr/fid/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:

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 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 results.