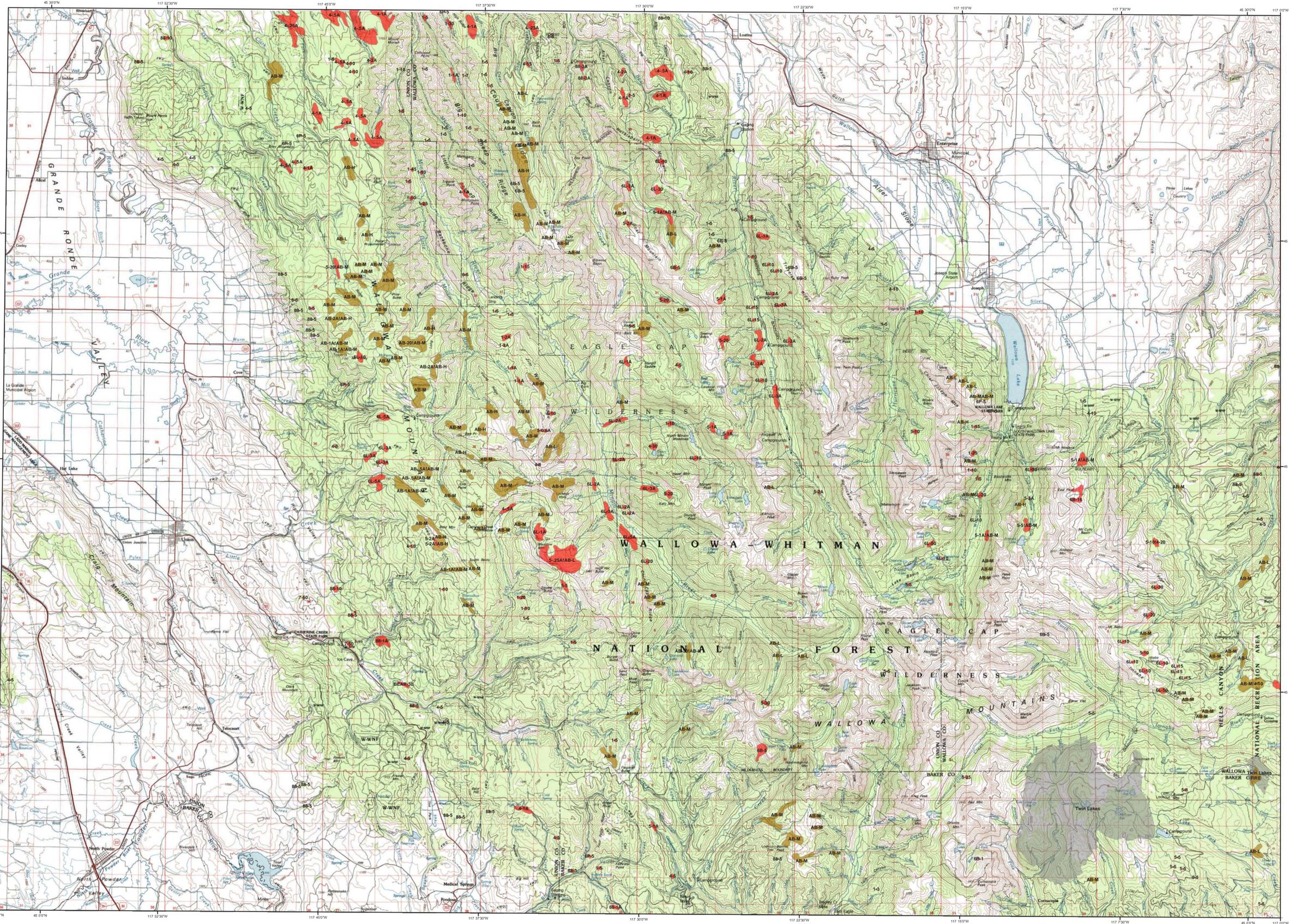


2006 Aerial Insect and Disease Survey

USGS 100K Quad: Enterprise - A145117; 8H



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Spruce aphid	1	Silka spruce
BB	Western blackheaded budworm	2	Douglas-fir beetle
BM	Modic budworm	4	Douglas-fir engraver
BP	Sugar pine tortrix	5	Spruce beetle
BS	Western spruce budworm	6	White fir
BY	Burns' light/ochrodemella	7	Sub-spiral fir
CH	Larch	8	Whitebark pine
CL	Western hemlock looper	9	Jeffrey pine
LL	Green striped forest looper	10	Knobcone pine
LG	Larch looper	11	Lodgepole pine
LS	Black pine needle scale	12	Ponderosa pine
MD	Douglas-fir budmoth	13	Sugar pine
ML	Larch budmoth	14	Western white pine
MN	Douglas-fir needle midge	15	Ponderosa, lodgepole pines
NS	Spruce budmoth	16	Pole-sized ponderosa pine
ND	Needle miner	17	Silver fir, true fir
NJ	Needle miner	18	Conifer
NK	Needle miner	19	Douglas-fir
NL	Needle miner	20	Douglas-fir, ponderosa pine
NM	Needle miner	21	Port Orford cedar
NP	Needle miner	22	Conifer
NS	Needle miner	23	All species
NT	Needle miner	24	All species
NU	Needle miner	25	All species
NC	Needle miner	26	All species
PC	Pine butterfly	27	All species
PI	Pine needle cast	28	All species
PH	Phantom hemlock looper	29	All species
PM	Pandora moth	30	All species
PN	Pine needle-beetle miner	31	All species
PS	Pine needle scale	32	All species
RC	Needle cast	33	All species
S	Spiller	34	All species
SA	Sawfly	35	All species
SB	Sawfly	36	All species
SC	Sawfly	37	All species
SD	Sawfly	38	All species
SE	Sawfly	39	All species
SH	Sawfly	40	All species
SI	Sawfly	41	All species
SM	Sawfly	42	All species
SNC	Swiss needle cast	43	All species
SP	Sawfly	44	All species
SW	Sawfly	45	All species
TA	Tent caterpillar, alder	46	All species
TC	Tent caterpillar, other	47	All species
TM	Douglas-fir tussock moth	48	All species
TS	Tent caterpillar, aspen	49	All species

USGS 100K Quad: Enterprise - A145117; 8H
2006 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: December 5, 2006

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- 2006 Large Fires

Source: Northwest Coordination Center

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

A data dictionary, digital copies of this map and ArcGIS insect and disease data are available at: www.fs.fed.us/r/n/rfid/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 and 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.