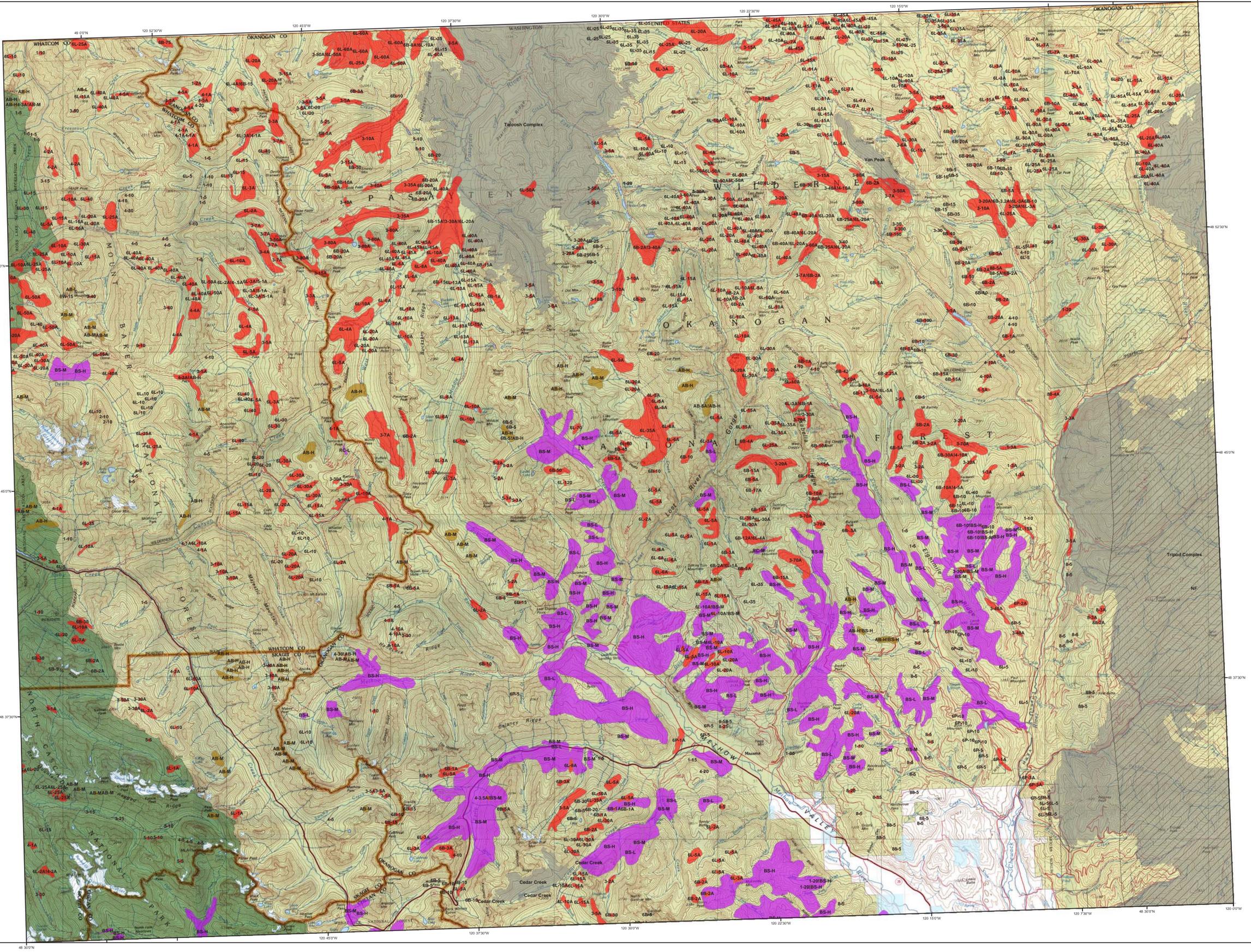


2006 Aerial Insect and Disease Survey

USGS 100K Quad: Robinson Mountain - E148120; 5A



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Spruce aphid	1	Douglas-fir beetle
BB	Western blackheaded budworm	2	Douglas-fir engraver
BM	Motile budworm	3	Spruce beetle
BP	Sugar pine tortrix	4	White fir
BS	Western spruce budworm	5	Sub-alpine fir
BY	Bynum's light/lobed sawfly	6B	Mountain pine beetle
CH	Larch	6J	Mountain pine beetle
CL	Western hemlock looper	6K	Mountain pine beetle
LG	Green striped forest looper	6P	Mountain pine beetle
LL	Larch looper	6Q	Mountain pine beetle
LS	Black pine needle scale	6R	Mountain pine beetle
MD	Douglas-fir budmoth	6S	Mountain pine beetle
MS	Spruce budmoth	6T	Mountain pine beetle
MN	Douglas-fir needle midge	6U	Mountain pine beetle
ML	Larch budmoth	6V	Mountain pine beetle
ND	Needle miner	6W	Mountain pine beetle
NJ	Needle miner	6X	Mountain pine beetle
NK	Needle miner	6Y	Mountain pine beetle
NL	Needle miner	6Z	Mountain pine beetle
NP	Needle miner	7A	Mountain pine beetle
NT	Needle miner	7B	Mountain pine beetle
NS	Needle miner	7C	Mountain pine beetle
NU	Needle miner	7D	Mountain pine beetle
NV	Needle miner	7E	Mountain pine beetle
NW	Needle miner	7F	Mountain pine beetle
NY	Needle miner	7G	Mountain pine beetle
NZ	Needle miner	7H	Mountain pine beetle
PA	Pine needle scale	7I	Mountain pine beetle
PC	Pine needle scale	7J	Mountain pine beetle
PD	Pine needle scale	7K	Mountain pine beetle
PE	Pine needle scale	7L	Mountain pine beetle
PF	Pine needle scale	7M	Mountain pine beetle
PG	Pine needle scale	7N	Mountain pine beetle
PH	Pine needle scale	7O	Mountain pine beetle
PI	Pine needle scale	7P	Mountain pine beetle
PJ	Pine needle scale	7Q	Mountain pine beetle
PK	Pine needle scale	7R	Mountain pine beetle
PL	Pine needle scale	7S	Mountain pine beetle
PM	Pine needle scale	7T	Mountain pine beetle
PN	Pine needle scale	7U	Mountain pine beetle
PO	Pine needle scale	7V	Mountain pine beetle
PP	Pine needle scale	7W	Mountain pine beetle
PQ	Pine needle scale	7X	Mountain pine beetle
PR	Pine needle scale	7Y	Mountain pine beetle
PS	Pine needle scale	7Z	Mountain pine beetle
PT	Pine needle scale	8A	Mountain pine beetle
PU	Pine needle scale	8B	Mountain pine beetle
PV	Pine needle scale	8C	Mountain pine beetle
PW	Pine needle scale	8D	Mountain pine beetle
PX	Pine needle scale	8E	Mountain pine beetle
PY	Pine needle scale	8F	Mountain pine beetle
PZ	Pine needle scale	8G	Mountain pine beetle
QA	Pine needle scale	8H	Mountain pine beetle
QB	Pine needle scale	8I	Mountain pine beetle
QC	Pine needle scale	8J	Mountain pine beetle
QD	Pine needle scale	8K	Mountain pine beetle
QE	Pine needle scale	8L	Mountain pine beetle
QF	Pine needle scale	8M	Mountain pine beetle
QG	Pine needle scale	8N	Mountain pine beetle
QH	Pine needle scale	8O	Mountain pine beetle
QI	Pine needle scale	8P	Mountain pine beetle
QJ	Pine needle scale	8Q	Mountain pine beetle
QK	Pine needle scale	8R	Mountain pine beetle
QL	Pine needle scale	8S	Mountain pine beetle
QM	Pine needle scale	8T	Mountain pine beetle
QN	Pine needle scale	8U	Mountain pine beetle
QO	Pine needle scale	8V	Mountain pine beetle
QP	Pine needle scale	8W	Mountain pine beetle
QQ	Pine needle scale	8X	Mountain pine beetle
QR	Pine needle scale	8Y	Mountain pine beetle
QS	Pine needle scale	8Z	Mountain pine beetle
QT	Pine needle scale	9A	Mountain pine beetle
QU	Pine needle scale	9B	Mountain pine beetle
QV	Pine needle scale	9C	Mountain pine beetle
QW	Pine needle scale	9D	Mountain pine beetle
QX	Pine needle scale	9E	Mountain pine beetle
QY	Pine needle scale	9F	Mountain pine beetle
QZ	Pine needle scale	9G	Mountain pine beetle
RA	Pine needle scale	9H	Mountain pine beetle
RB	Pine needle scale	9I	Mountain pine beetle
RC	Pine needle scale	9J	Mountain pine beetle
RD	Pine needle scale	9K	Mountain pine beetle
RE	Pine needle scale	9L	Mountain pine beetle
RF	Pine needle scale	9M	Mountain pine beetle
RG	Pine needle scale	9N	Mountain pine beetle
RH	Pine needle scale	9O	Mountain pine beetle
RI	Pine needle scale	9P	Mountain pine beetle
RJ	Pine needle scale	9Q	Mountain pine beetle
RK	Pine needle scale	9R	Mountain pine beetle
RL	Pine needle scale	9S	Mountain pine beetle
RM	Pine needle scale	9T	Mountain pine beetle
RN	Pine needle scale	9U	Mountain pine beetle
RO	Pine needle scale	9V	Mountain pine beetle
RP	Pine needle scale	9W	Mountain pine beetle
RQ	Pine needle scale	9X	Mountain pine beetle
RR	Pine needle scale	9Y	Mountain pine beetle
RS	Pine needle scale	9Z	Mountain pine beetle
RT	Pine needle scale	0A	Mountain pine beetle
RU	Pine needle scale	0B	Mountain pine beetle
RV	Pine needle scale	0C	Mountain pine beetle
RW	Pine needle scale	0D	Mountain pine beetle
RX	Pine needle scale	0E	Mountain pine beetle
RY	Pine needle scale	0F	Mountain pine beetle
RZ	Pine needle scale	0G	Mountain pine beetle
SA	Pine needle scale	0H	Mountain pine beetle
SB	Pine needle scale	0I	Mountain pine beetle
SC	Pine needle scale	0J	Mountain pine beetle
SD	Pine needle scale	0K	Mountain pine beetle
SE	Pine needle scale	0L	Mountain pine beetle
SF	Pine needle scale	0M	Mountain pine beetle
SG	Pine needle scale	0N	Mountain pine beetle
SH	Pine needle scale	0O	Mountain pine beetle
SI	Pine needle scale	0P	Mountain pine beetle
SJ	Pine needle scale	0Q	Mountain pine beetle
SK	Pine needle scale	0R	Mountain pine beetle
SL	Pine needle scale	0S	Mountain pine beetle
SM	Pine needle scale	0T	Mountain pine beetle
SN	Pine needle scale	0U	Mountain pine beetle
SO	Pine needle scale	0V	Mountain pine beetle
SP	Pine needle scale	0W	Mountain pine beetle
SQ	Pine needle scale	0X	Mountain pine beetle
SR	Pine needle scale	0Y	Mountain pine beetle
SS	Pine needle scale	0Z	Mountain pine beetle
ST	Pine needle scale	1A	Mountain pine beetle
ST	Pine needle scale	1B	Mountain pine beetle

USGS 100K Quad: Robinson Mountain - E148120; 5A
2006 Aerial Insect and Disease Detection Survey
 Mapscale: 1:100,000
 Date: November 30, 2006

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- Areas Not Flown
- 2006 Large Fires
- WadNR Managed Lands

Source: Northwest Coordination Center

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 ArcGIS insect and disease data are available at: www.fs.fed.us/r6/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 Washington Department of Natural Resources. 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.

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 Forest Health
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-- OR --

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 Natural Resources
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 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.

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.