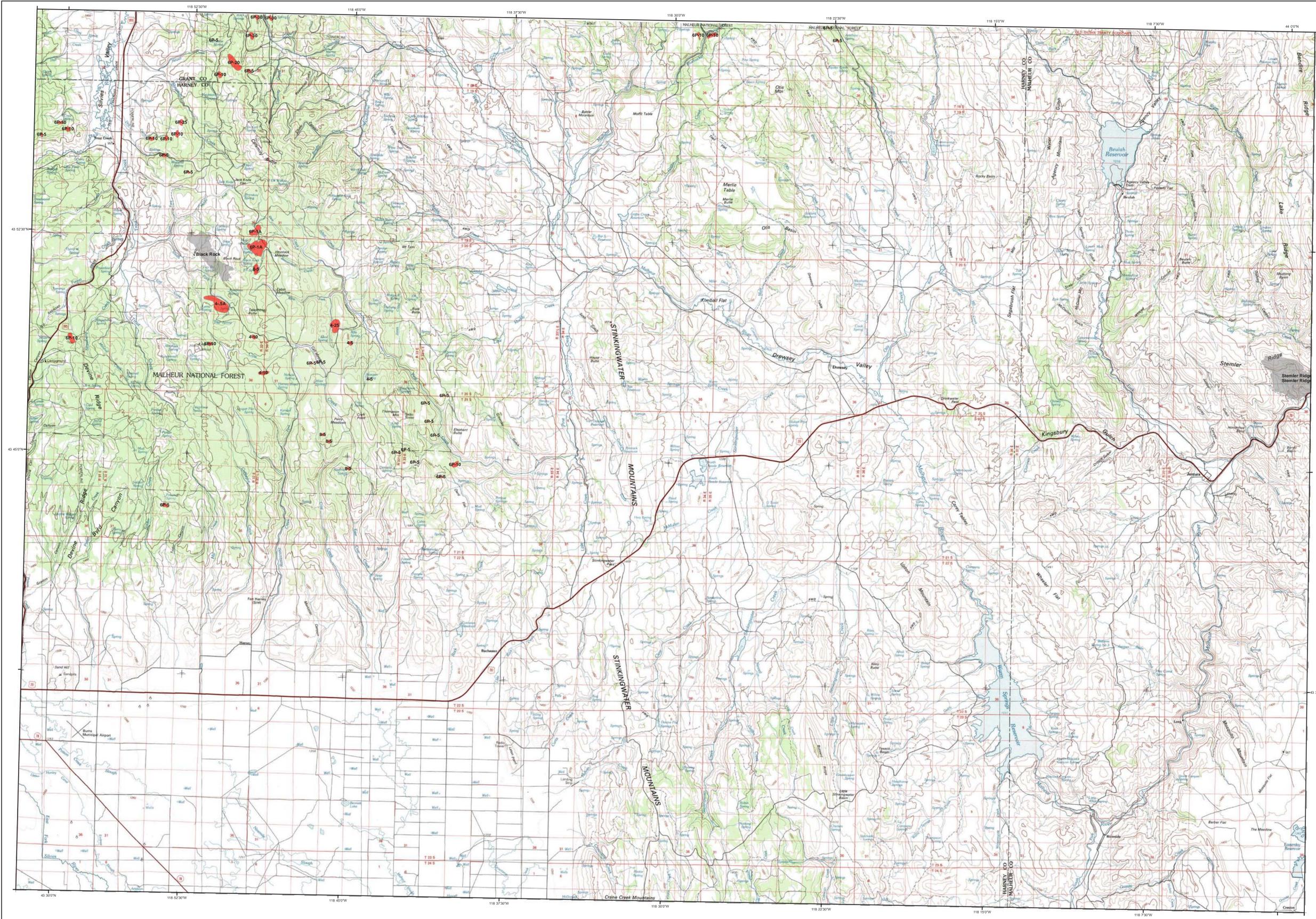


2006 Aerial Insect and Disease Survey

USGS 100K Quad: Stinking Water Mountains - E143118; 7K



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Spruce aphid	1	Sitka spruce
BB	Western blackheaded budworm	2	Hemlock, spruce, true fir
BM	Modoc budworm	4	White fir
BP	Sugar pine tortrix	5	Lodgepole, ponderosa pines
BS	Western spruce budworm	6	True fir, Douglas-fir, spruce
BY	Bynum's light lophodermella	6B	Ponderosa pine
CH	Larch	6C	Western larch
HL	Western hemlock looper	6K	Mountain pine beetle
LH	Green striped forest looper	6L	Mountain pine beetle
LL	Larch looper	6P	Mountain pine beetle
LS	Black pine needle scale	6S	Mountain pine beetle
MD	Douglas-fir budmoth	6W	Western white pine
ML	Larch budmoth	7	lvs. pop.
MN	Douglas-fir needle midge	8	Western pine beetle
MS	Spruce budmoth	8B	Western pine beetle
NJ	Needle miner	9	Silver fir, true fir
NK	Needle miner	BEAR	Bear damage
NL	Needle miner	F	Flatheaded wood borer
NM	Needle miner	LW	Black stain root disease
NP	Needle miner	PL	Pot Orford cedar root disease
NS	Needle miner	RD	Root disease
NW	Needle miner	WATR	Water damage
OK	Western oak looper		
PC	Pine butterfly		
PB	Pine needle cast		
PH	Phantom hemlock looper		
PM	Panorama moth		
PN	Pine needlebeetle miner		
PS	Pine needle scale		
RC	Needle cast		
S	Swiss needle cast		
SA	Sawfly		
SD	Sawfly		
SK	Sawfly		
SH	Sawfly		
SL	Sawfly		
SN	Swiss needle cast		
SP	Pine sawfly		
SW	Sawfly		
TA	Tent caterpillar, alder		
TC	Tent caterpillar, other		
TM	Douglas-fir tussock moth		
TS	Tent caterpillar, aspen		

USGS 100K Quad: Stinking Water Mountains - E143118; 7K
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

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/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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 2600 State Street
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-- OR --

USDA Forest Service, Region 6
 Natural Resources
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 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.