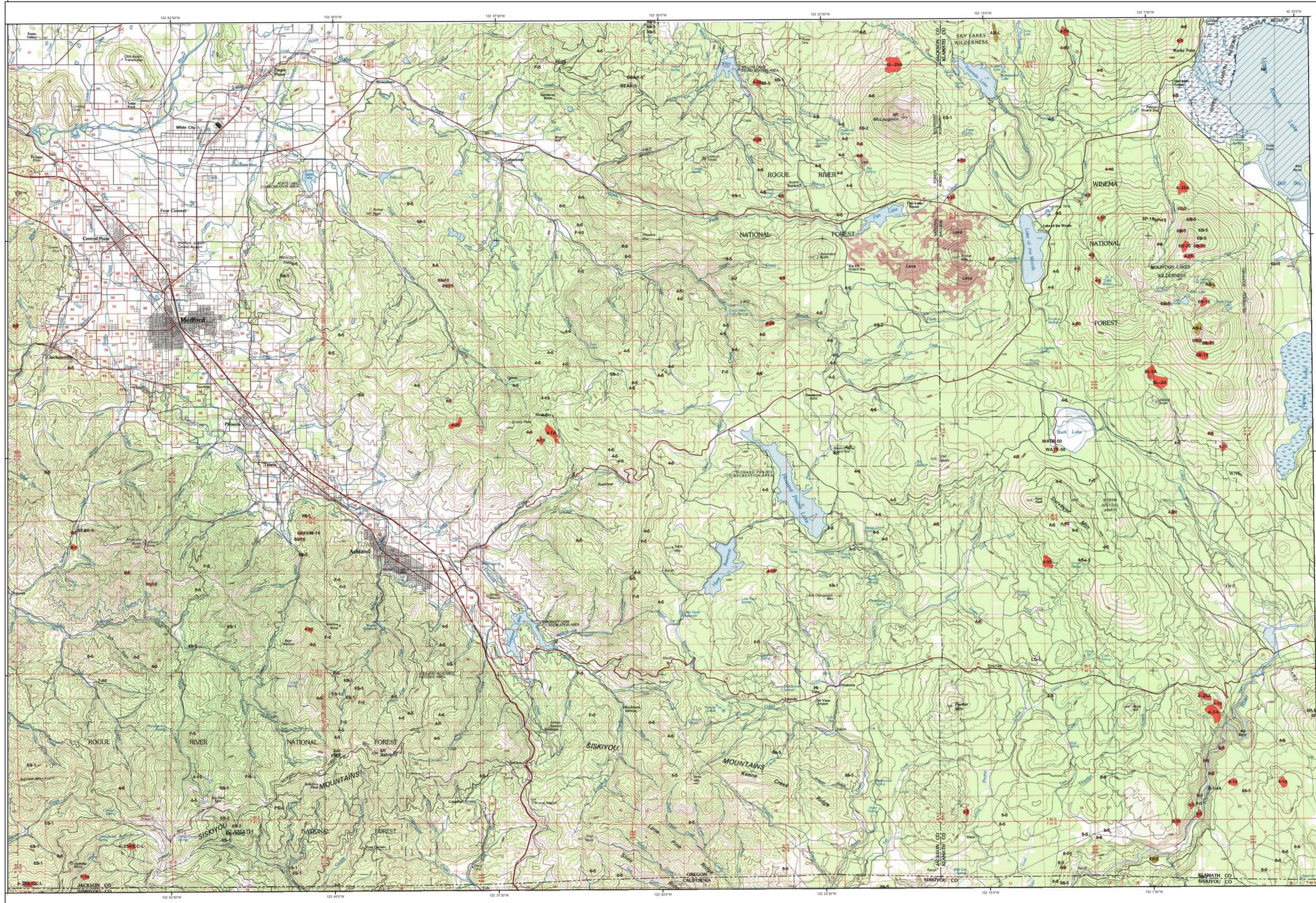


# 2006 Aerial Insect and Disease Survey

## USGS 100K Quad: Medford - A142122; 3N



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	Spine beetle
BP	Sugar pine tortrix	4	Fire engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bynum's light/lephodemia	6B	Mountain pine beetle
CH	Larch	6J	Mountain pine beetle
HL	Western hemlock looper	6K	Mountain pine beetle
LC	Green striped forest looper	6L	Mountain pine beetle
LL	Larch looper	6M	Mountain pine beetle
LS	Black pine needle scale	6N	Mountain pine beetle
MD	Douglas-fir budmoth	6P	Mountain pine beetle
ML	Larch budmoth	6Q	Mountain pine beetle
MN	Douglas-fir needle midge	6R	Mountain pine beetle
MS	Spine budmoth	6S	Mountain pine beetle
ND	Needle miner	6T	Mountain pine beetle
NJ	Needle miner	6U	Mountain pine beetle
NK	Needle miner	6V	Mountain pine beetle
NL	Needle miner	6W	Mountain pine beetle
NM	Needle miner	6X	Mountain pine beetle
NP	Needle miner	6Y	Mountain pine beetle
NS	Needle miner	6Z	Mountain pine beetle
NV	Needle miner	7	Western white pine
NC	Western oak looper	8	Ponderosa pine beetle
PC	Pine butterfly	9	Pole-sized ponderosa pine
PI	Pine needle cast	BEAR	Bear damage
PH	Phantom hemlock looper	FL	Flatheaded wood borer
PM	Panorama moth	LW	Black stain root disease
PN	Pine needle/needle miner	PL	Pine Olfend cedar root disease
PS	Pine needle scale	RD	Root disease
RC	Needle cast	WATR	Water damage
SC	Spider mite		
SA	Sawfly		
SD	Sawfly		
SE	Sawfly		
SH	Sawfly		
SK	Sawfly		
SL	Sawfly		
SM	Swiss needle cast		
SP	Sawfly		
SW	Sawfly		
TA	Terrestrial caterpillar, alder		
TC	Terrestrial caterpillar, other		
TD	Douglas-fir tussock moth		
TS	Terrestrial caterpillar, aspen		

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**2006 Aerial Insect and Disease Detection Survey**  
**Mapscale: 1:100,000**  
**Date: November 29, 2006**

### Legend

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

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/nri/rfid/data.shtml](http://www.fs.fed.us/r6/nri/rfid/data.shtml)

Vicinity Map

### 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 results.