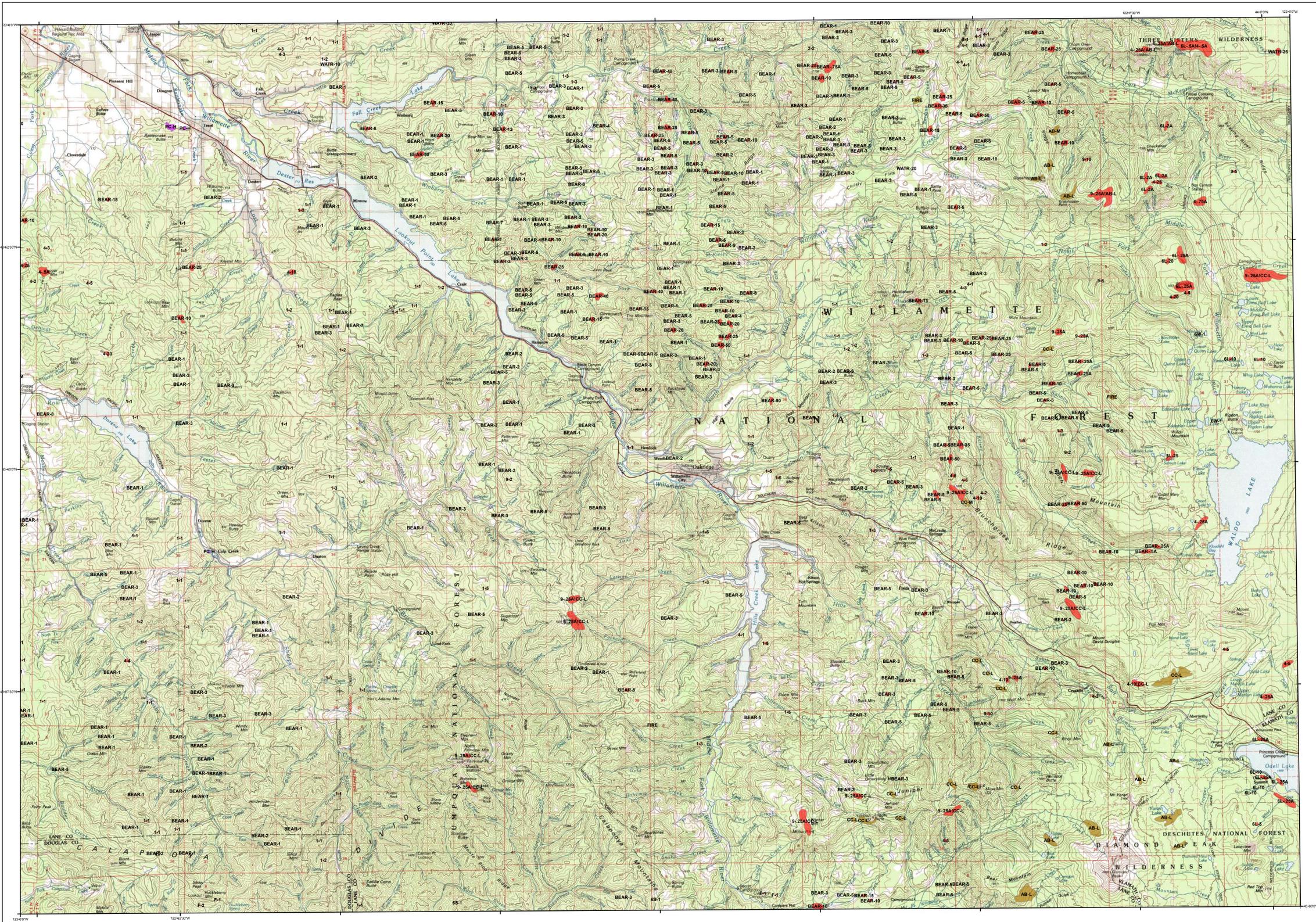


2007 Aerial Insect and Disease Survey

USGS 100K Quad: Oak Ridge - E143122; 3K



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	Modor budworm	3	Spruce beetle
BP	Sugar pine tortrix	4	Fire engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Burnham's light/Lophodermella	6B	Mountain pine beetle
CH	Larch	6C	Mountain pine beetle
HL	Western hemlock looper	6L	Mountain pine beetle
LL	Green striped forest looper	6S	Mountain pine beetle
LS	Black pine needle scale	6W	Western white pine
LD	Douglas-fir budmoth	7	Uls spp.
ML	Larch budmoth	8	Western pine beetle
MN	Douglas-fir needle midge	8B	Western pine beetle
MS	Spruce budmoth	9	Silver fir beetle
NJ	Needle miner	BEAR	Bear damage
NK	Needle miner	BEAR	Flathead wood borer
NL	Needle miner	BEAR	Black stain root disease
NP	Needle miner	BEAR	Port Orford cedar root disease
NS	Needle miner	BEAR	Root disease
NT	Needle miner	BEAR	Water damage
OC	Western oak looper	BEAR	Water damage
PC	Pine needle cast	BEAR	Water damage
PH	Phantom hemlock looper	BEAR	Water damage
PN	Pine needle/shaft miner	BEAR	Water damage
PR	Pine needle scale	BEAR	Water damage
RC	Needle cast	BEAR	Water damage
SA	Spider mite	BEAR	Water damage
SD	Sawfly	BEAR	Water damage
SE	Sawfly	BEAR	Water damage
SH	Sawfly	BEAR	Water damage
SI	Sawfly	BEAR	Water damage
SL	Sawfly	BEAR	Water damage
SM	Sawfly	BEAR	Water damage
SN	Sawfly	BEAR	Water damage
SP	Sawfly	BEAR	Water damage
SW	Sawfly	BEAR	Water damage
TA	Tent caterpillar, alder	BEAR	Water damage
TC	Tent caterpillar, other	BEAR	Water damage
TM	Douglas-fir tussock moth	BEAR	Water damage
TS	Tent caterpillar, aspen	BEAR	Water damage

USGS 100K Quad: Oak Ridge - E143122; 3K
2006 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: November 29, 2006

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage

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/rid/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 agent. 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
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-- OR --

USDA Forest Service, Region 6
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.
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.