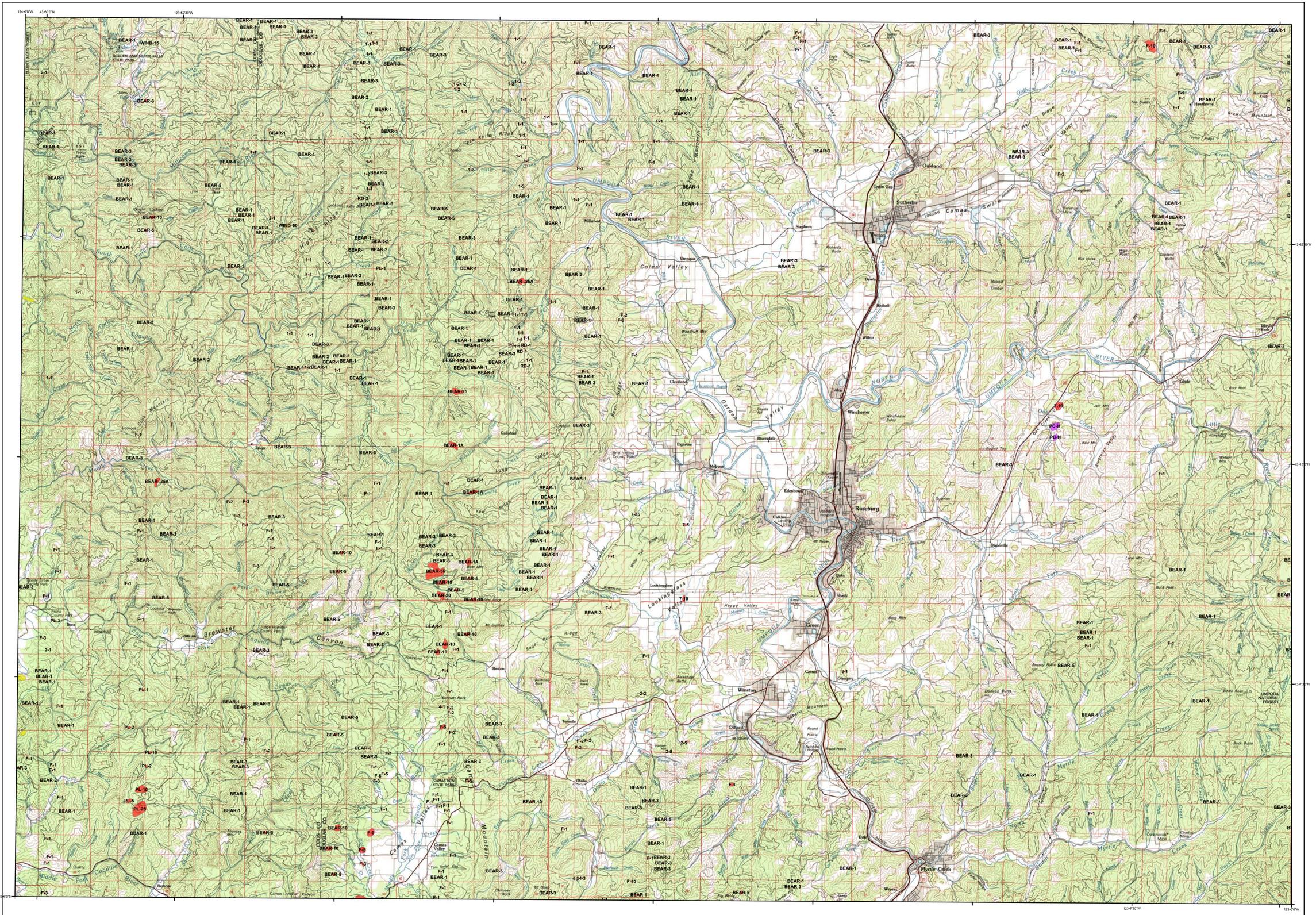


2007 Aerial Insect and Disease Survey USGS 100K Quad: Roseburg - A143123; 2L



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	Mediterranean spruce budworm	3	Spruce beetle
BP	Sugar pine tortrix	4	True fir
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bynum's light/ophodometra	6	Mountain pine beetle
CH	Larch	6J	Mountain pine beetle
HL	Western hemlock looper	6L	Mountain pine beetle
LG	Green striped forest looper	6P	Mountain pine beetle
LL	Larch looper	6S	Mountain pine beetle
LS	Black pine needle scale	7	Western white pine
MD	Douglas-fir budmoth	7W	Western white pine
ML	Larch budmoth	8	Ponderosa lodgepole pine
ND	Douglas-fir needle midge	8B	Ponderosa pine
MS	Spruce budmoth	8C	Pole-sized ponderosa pine
NJ	Needle miner	8D	Silver fir beetle
NK	Needle miner	8E	Western white pine
NL	Needle miner	8F	Needle miner
NP	Needle miner	8G	Needle miner
NS	Needle miner	8H	Needle miner
NT	Needle miner	8I	Needle miner
OW	Western oak looper	8J	Needle miner
PC	Pine butterfly	8K	Needle miner
PH	Pine needle cast	8L	Needle miner
PI	Phantom hemlock looper	8M	Needle miner
PM	Pine needle scale	8N	Needle miner
PN	Pine needle scale	8O	Needle miner
PS	Pine needle scale	8P	Needle miner
RC	Needle cast	8Q	Needle miner
SA	Spider mite	8R	Needle miner
SD	Sawfly	8S	Needle miner
SE	Sawfly	8T	Needle miner
SH	Sawfly	8U	Needle miner
SK	Sawfly	8V	Needle miner
SL	Sawfly	8W	Needle miner
SM	Sawfly	8X	Needle miner
SNC	Sawfly	8Y	Needle miner
SP	Sawfly	8Z	Needle miner
SV	Sawfly	9	Needle miner
TA	Tent caterpillar, alder	9A	Needle miner
TC	Tent caterpillar, other	9B	Needle miner
TM	Douglas-fir tussock moth	9C	Needle miner
TS	Tent caterpillar, aspen	9D	Needle miner

USGS 100K Quad: Roseburg - A143123; 2L
2007 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: November 23, 2007

Legend

- 2007 Special Swiss Needle Cast Survey
- Defoliating Agents
- Mortality Agents
- Other Damage

More information about this special survey and the related data is located under 'Maps and Data' at: <http://www.nrs.fs.fed.us/arcgis/>

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/r6/mr/fcd/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:

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.