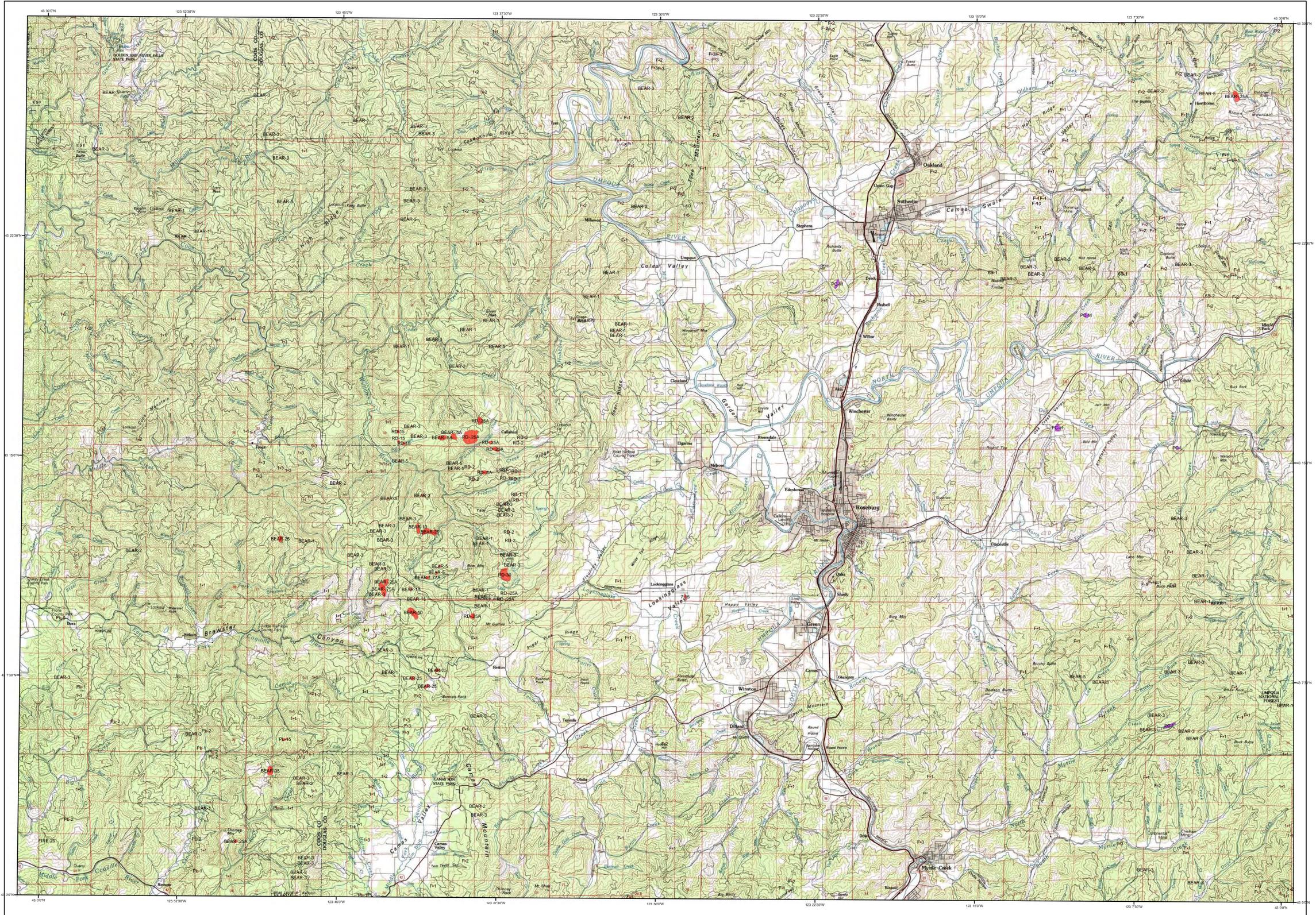


2010 Aerial Insect and Disease Survey

USGS 100K Quad: Roseburg - A143123; 2L



Defoliators		Mortality Agents	
Code	Primary Host	Code	Primary Host
AS	Spruce aphid	1	Douglas fir beetle
BS	Western blackheaded budworm	2	Douglas fir engraver
BM	Modor budworm	3	Spruce beetle
BP	Sugar pine borer	4	Fire engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bryant's light/spot/needleminer	6	Mountain pine beetle
CH	Larch casebearer	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 leaf scale	7	Iron yew
MD	Douglas fir budmoth	7B	Western pine beetle
ML	Larch budmoth	8	Ponderosa pine beetle
MN	Douglas fir needle midge	8B	Western pine beetle
ND	Needle miner	BEAR	Bear damage
NJ	Needle miner	BEAR	Flatheaded wood borer
NK	Needle miner	BEAR	Black stain root disease
NL	Needle miner	BEAR	Pine Olfact root disease
NS	Needle miner	BEAR	Rod disease
NT	Needle miner	BEAR	Wet damage
NW	Needle miner	BEAR	Wet damage
OL	Western oak looper	BEAR	Wet damage
PH	Pine butterfly	BEAR	Wet damage
PC	Pine needle cast	BEAR	Wet damage
PH	Phantom hemlock looper	BEAR	Wet damage
PM	Pandora moth	BEAR	Wet damage
PN	Pine needle scale	BEAR	Wet damage
PS	Pine needle scale	BEAR	Wet damage
RC	Needle cast	BEAR	Wet damage
S	Spider mite	BEAR	Wet damage
SA	Sawfly	BEAR	Wet damage
SD	Sawfly	BEAR	Wet damage
SE	Sawfly	BEAR	Wet damage
SH	Sawfly	BEAR	Wet damage
SK	Sawfly	BEAR	Wet damage
SM	Sawfly	BEAR	Wet damage
SN	Sawfly	BEAR	Wet damage
SP	Sawfly	BEAR	Wet damage
SW	Sawfly	BEAR	Wet damage
TA	Tent caterpillar, alder	BEAR	Wet damage
TC	Tent caterpillar, other	BEAR	Wet damage
TD	Douglas fir bark beetle	BEAR	Wet damage
TJ	Tent caterpillar, aspen	BEAR	Wet damage

USGS 100K Quad: Roseburg - A143123; 2L
2011 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: January 4, 2011

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- 2010 Special Swiss Needle Cast Survey

More information about this special survey and the related data is located here: <http://www.oregon.gov/ODF/privateforests/IMMaps.shtml>

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/nr/fic/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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Forest Health Management
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Salem, Oregon 97310

-- OR --

USDA Forest Service, Region 6
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Portland, Oregon 97208

DISCLAIMER: Forest Health Protection (FHP) and Oregon Department of Forestry (ODF) strive to maintain an accurate Aerial Detection Survey (ADS) Dataset, but due to the conditions under which the data are collected, FHP and ODF shall not be held responsible for missing or inaccurate data. ADS are not intended to replace more specific information. An accuracy assessment has not been done for this dataset; however, ground checks are completed in accordance with local and national guidelines: <http://www.fs.fed.us/foresthealth/ads/accuracyassessment.shtml>. Maps and data may be updated without notice. Please cite: "USDA Forest Service, Forest Health Protection and Oregon Department of Forestry, Forest Health Management" as the source of the data in maps and publications.