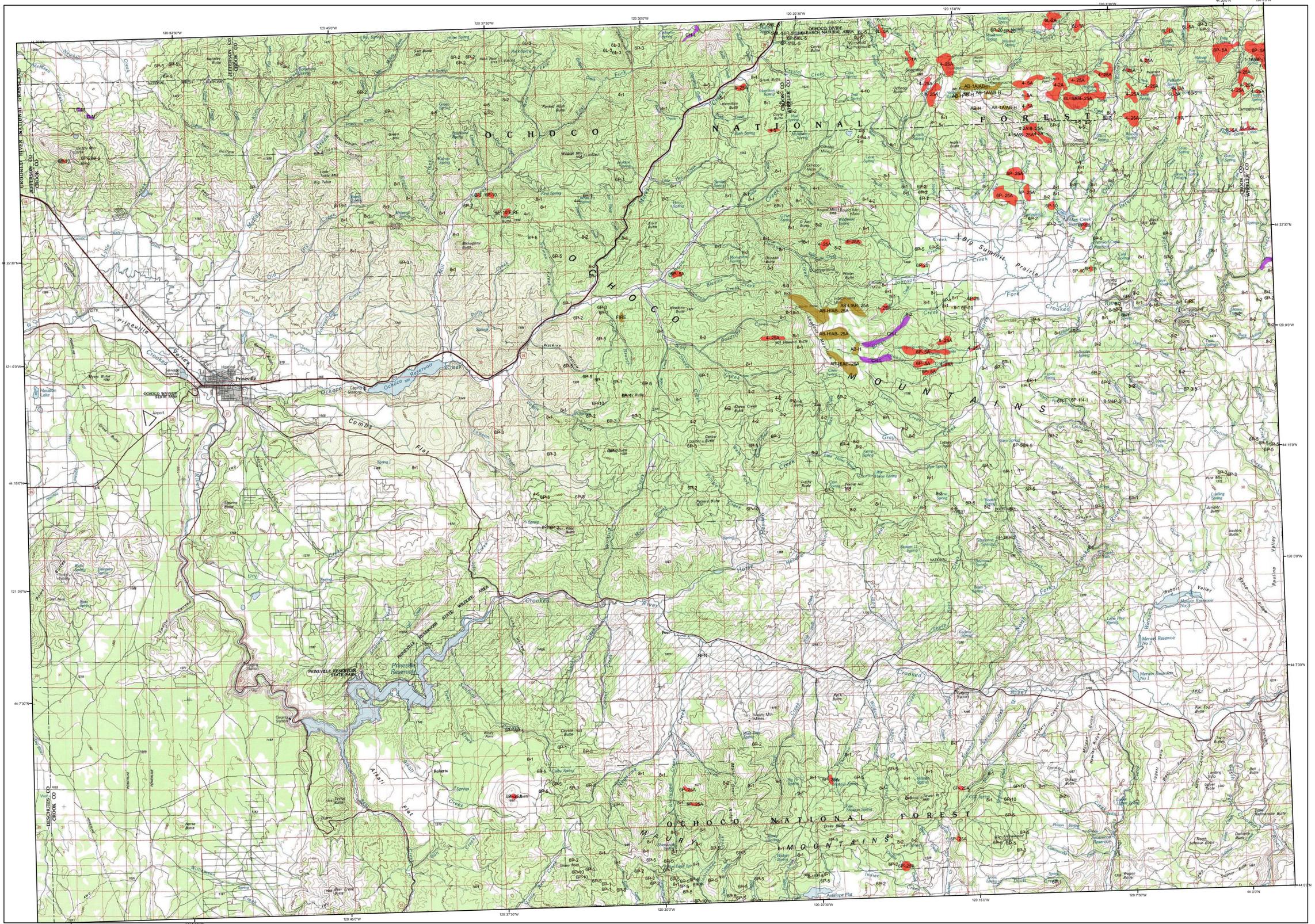


2009 Aerial Insect and Disease Survey

USGS 100K Quad: Prineville - A144120; 5J



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	Modoc budworm	3	Spruce leafhopper
BP	Sugar pine tortrix	4	Fire engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bynum's blight/lophodermella	6B	Mountain pine beetle
CH	Larch	6C	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	6W	Mountain pine beetle
ML	Larch budmoth	7	Western pine beetle
MN	Douglas-fir needle midge	8	Western pine beetle
MS	Spruce budmoth	9	Western pine beetle
ND	Needle miner	BEAR	Bear damage
NJ	Needle miner	BEAR	Bear damage
NK	Needle miner	BEAR	Bear damage
NL	Needle miner	BEAR	Bear damage
NP	Needle miner	BEAR	Bear damage
NS	Needle miner	BEAR	Bear damage
NT	Needle miner	BEAR	Bear damage
NW	Needle miner	BEAR	Bear damage
OL	Western oak looper	BEAR	Bear damage
OB	Pine butterfly	BEAR	Bear damage
OC	Pine needle cast	BEAR	Bear damage
PH	Phantom hemlock looper	BEAR	Bear damage
PM	Pandora moth	BEAR	Bear damage
PN	Pine needle/health miner	BEAR	Bear damage
PR	Pine needle scale	BEAR	Bear damage
RC	Needle cast	BEAR	Bear damage
SE	Spider mite	BEAR	Bear damage
SA	Swallow	BEAR	Bear damage
SD	Swallow	BEAR	Bear damage
SH	Swallow	BEAR	Bear damage
SK	Swallow	BEAR	Bear damage
SL	Swallow	BEAR	Bear damage
SM	Swallow	BEAR	Bear damage
SN	Swallow	BEAR	Bear damage
SO	Swallow	BEAR	Bear damage
TA	Tent caterpillar/elder	BEAR	Bear damage
TC	Tent caterpillar/other	BEAR	Bear damage
TD	Tent caterpillar/other	BEAR	Bear damage
TM	Tent caterpillar/other	BEAR	Bear damage
TS	Tent caterpillar/other	BEAR	Bear damage

USGS 100K Quad: Prineville - A144120; 5J
2009 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: January 27, 2010

Legend

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

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/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 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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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/avision/qualityassurance.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.