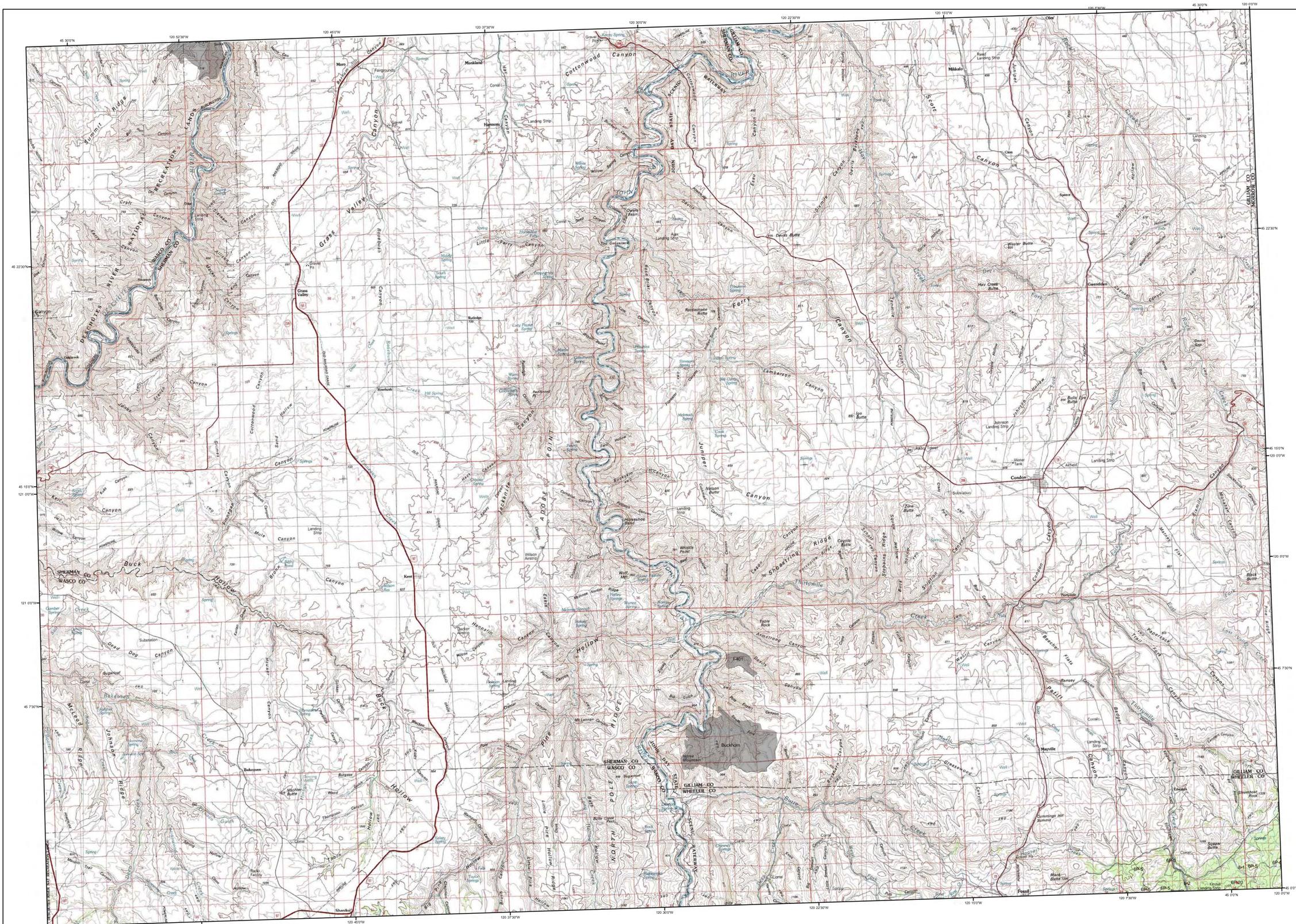


# 2010 Aerial Insect and Disease Survey

## USGS 100K Quad: Condon - A145120; 5H



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Spice aphid	1	Douglas fir beetle
BS	Western blackheaded budworm	2	Douglas fir engraver
BM	Modoc budworm	3	Spruce beetle
BP	Sage pine tortrix	4	Fir engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bryant's bigleaf spruce defoliator	6	Mountain pine beetle
CH	Larch casebearer	6B	Jeffrey pine
HL	Western hemlock looper	6J	Mountain pine beetle
LG	Green striped forest looper	6K	Mountain pine beetle
LL	Larch looper	6L	Mountain pine beetle
LS	Black pine leaf scale	6M	Mountain pine beetle
MD	Douglas fir budmoth	6N	Mountain pine beetle
ML	Larch budmoth	6O	Mountain pine beetle
UN	Douglas fir needle midge	6P	Mountain pine beetle
ND	Needle miner	6Q	Mountain pine beetle
NJ	Needle miner	6R	Mountain pine beetle
NK	Needle miner	6S	Mountain pine beetle
NL	Needle miner	6T	Mountain pine beetle
NI	Needle miner	6U	Mountain pine beetle
NM	Needle miner	6V	Mountain pine beetle
NP	Needle miner	6W	Mountain pine beetle
NS	Needle miner	6X	Mountain pine beetle
NT	Needle miner	6Y	Mountain pine beetle
NW	Needle miner	6Z	Mountain pine beetle
OL	Western oak looper	7	Western white pine
PI	Pine butterfly	7B	Western white pine
PC	Pine needle cast	7C	Western white pine
PH	Pine needle scale	7D	Western white pine
PN	Pine needle sawfly	7E	Western white pine
PS	Pine needle scale	7F	Western white pine
SA	Sawfly	7G	Western white pine
SD	Sawfly	7H	Western white pine
SE	Sawfly	7I	Western white pine
SF	Sawfly	7J	Western white pine
SH	Sawfly	7K	Western white pine
SI	Sawfly	7L	Western white pine
SK	Sawfly	7M	Western white pine
SL	Sawfly	7N	Western white pine
SM	Sawfly	7O	Western white pine
SN	Sawfly	7P	Western white pine
SP	Sawfly	7Q	Western white pine
TA	Tent caterpillar, alder	7R	Western white pine
TC	Tent caterpillar, other	7S	Western white pine
TD	Tent caterpillar, Douglas fir	7T	Western white pine
TS	Tent caterpillar, aspen	7U	Western white pine

**USGS 100K Quad: Condon - A145120; 5H**  
**2010 Aerial Insect and Disease Detection Survey**  
**Mapscale: 1:100,000**  
**Date: January 6, 2011**

### Legend

- Defoliating Agents
- Mortality Agents
- Other Damage

**2010 Large Fires**  
 Source: Northwest Coordination Center

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/nr/rid/data.shtml](http://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:**

**Oregon Department of Forestry**  
 Forest Health Management  
 2600 State Street  
 Salem, Oregon 97310

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**USDA Forest Service, Region 6**  
 Natural Resources  
 Forest Health Protection  
 PO Box 3623  
 Portland, Oregon 97208

DISCLAIMER  
 Forest Health Protection (FHP) and Oregon Department of Forestry (ODF) strive to maintain an accurate Aerial Detection Survey (ADS) Database, 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/operations/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" as the source of this data in maps and publications.