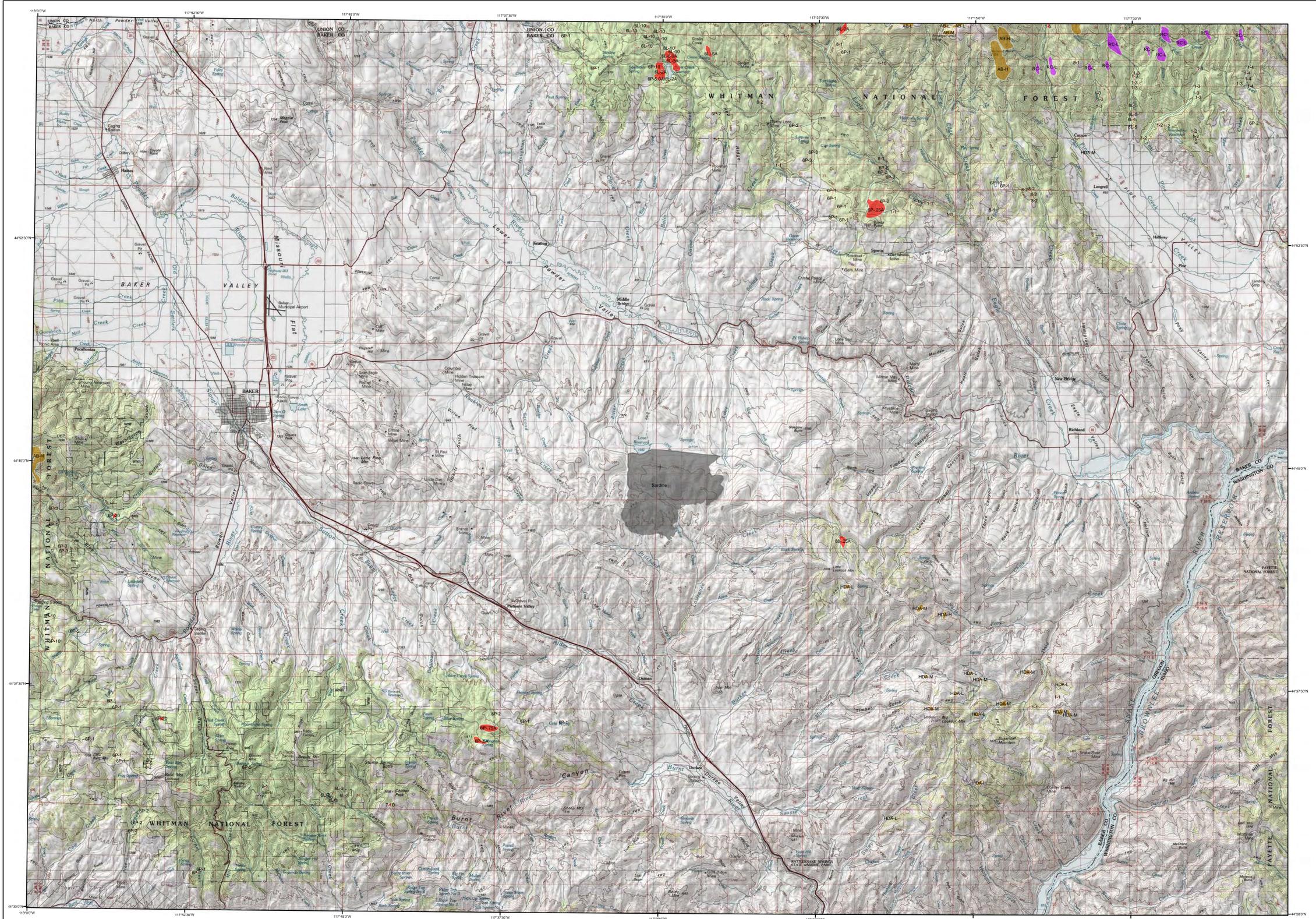


2012 Aerial Insect and Disease Survey

USGS 100K Quad: BAKER - E144117; 8I



Mortality Agents			Other Damaging Agents		
Code	Damaging Agent	Primary Host	Code	Damaging Agent	Primary Host
1	Douglas fir beetle	Douglas fir	AB	Balsam woolly adelgid	True fir, Douglas fir, spruce
2	Douglas fir engraver	Douglas fir	AM	Leaf discoloration	Maple
3	Spruce beetle	Spruce	BR	Bitter rot	Fireweed pines
4	Fire engraver	True fir	CC	Cystipora canker	True fir
5	Western balsam hawk beetle	Subalpine fir	DH	Dying hemlock	Hemlock
6B	Mountain pine beetle	Whitebark pine	FIRE	Fire	All species
6L	Mountain pine beetle	Lodgepole pine	HDA	Hardwood decline	Hardwoods
6P	Mountain pine beetle	Ponderosa pine	HDD	Hardwood decline	Aspen
6S	Mountain pine beetle	Sage pine	HDD	Hardwood decline	Oak
6W	Mountain pine beetle	Western white pine	NFN	Areas not flown - non host	
7	Top saw	Ponderosa, lodgepole pines	NFN	Areas not flown - host	Pacific madrone
8	Western pine beetle	Pine-nut, ponderosa pine	PMD	Pacific madrone decline	Rhodod.
8B	Western pine beetle	Pine-nut, ponderosa pine	PIE	Leaf fall in poplars	All species
9	Bear damage	Silver fir, true fir	RD	Red belt	All species
BEAR	Bear damage	Douglas fir	SID	Side	All species
FL	Flattened woodwren	Douglas fir, ponderosa pine	WIND	Windthrow	All species
FL	Flattened woodwren	Pine, Douglas fir	WINTD	Winter damage	All species
WD	Root disease	Canker			
WATER	Water Damage	All species			

Defoliators		
Code	Damaging Agent	Primary Host
BS	Western spruce budworm	True fir, Douglas fir, spruce
CH	Larch casebearer/typhlocyba	Western larch
LC	Western hemlock looper	Western hemlock
LS	Black pine/leaf scale	Lodgepole pine
PB	Pine budworm	Ponderosa pine
PC	Pine needle cast	Ponderosa pine
PN	Pine needle sheathminer	Ponderosa pine
RC	Needle cast	Western larch
SA	Sawfly	Conifer
SH	Sawfly	True fir
SK	Sawfly	Kroonrose pine
SL	Sawfly	Lodgepole pine
SM	Silk moth	Douglas fir
SNC	Needle cast	Douglas fir
TC	Terrestrial scale	Hardwoods
TC	Terrestrial scale	True fir, Douglas fir
UNKD	Unknown defoliating agent	All species

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2012 Aerial Insect and Disease Survey
Map Scale: 1:100,000
Date: 08 January 2013

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- Areas Not Flown
- 2012 Large Fires

Source: Northwest Interagency Coordination Center

The cause of damage is described by a symbol above and is followed by: number of trees affected; number of trees (example: SA) or intensity of damage (L- Light, M- Moderate, H- Heavy).

The TOPO maps used as background maps are seamless, scanned images of United States Geological Survey (USGS) paper topographic maps. For more information on this map, visit them online at: http://gto.arcgis.com/maps/USA_Topo_Maps

A data dictionary, digital copies of this map and Aerial Insect and Disease data are available at: www.fs.usda.gov/gto/r6/fhp/ads

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, the Washington Department of Natural Resources 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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 2600 State Street
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-- OR --

USDA Forest Service, Region 6
 State and Private Forestry
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DISCLAIMER
 Forest Health Protection (FHP), Washington Department of Natural Resources (WDNR) 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, WDNR 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/> quality assurance sheet. Maps and data may be updated without notice. Please cite: "USDA Forest Service, Forest Health Protection, Washington Department of Natural Resources, Resource Protection Division, and Oregon Department of Forestry, Forest Health Management" as the source of this data.