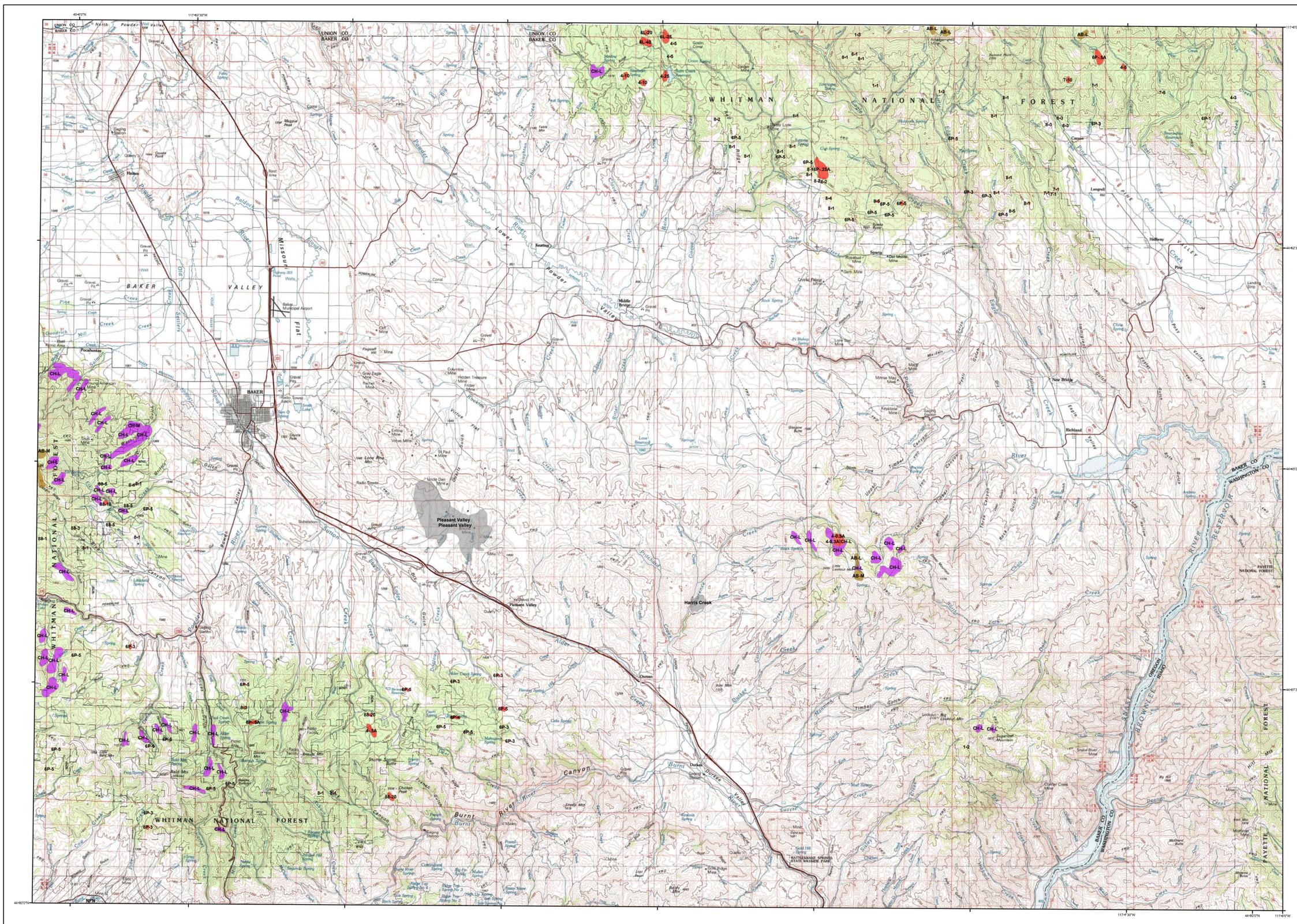


# 2007 Aerial Insect and Disease Survey

## USGS 100K Quad: Baker - E144117; 8I



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	Meadow borer	3	Spruce leafhopper
BP	Sugar pine tortrix	4	Fire engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bryant's light/ophodermella	6B	Mountain pine beetle
CH	Larch	6C	Jeffrey pine
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
MD	Douglas-fir budmoth	7	Western white pine
ML	Larch budmoth	8	Western larch
MN	Douglas-fir needle midge	8B	Western larch
MS	Spruce budmoth	8C	Silver fir beetle
ND	Needle miner	8D	Conifer
NJ	Needle miner	BEAR	Flatheaded wood borer
NK	Needle miner	LW	Black stain root disease
NL	Needle miner	PLR	Port Orford cedar root disease
NP	Needle miner	WD	Water damage
NS	Needle miner		
NT	Needle miner		
NW	Needle miner		
CL	Western oak looper		
PB	Pine butterfly		
PC	Pine needle cast		
PH	Phantom hemlock looper		
PI	Pine needle scale		
PN	Pine needle/ash miner		
PS	Pine needle scale		
RC	Needle cast		
S	Spider mite		
SA	Sawfly		
SD	Sawfly		
SF	Sawfly		
SH	Sawfly		
SK	Sawfly		
SL	Sawfly		
SM	Sawfly		
SN	Swiss needle cast		
SP	Sawfly		
BW	Bark weevil		
TA	Tent caterpillar, aspen		
TC	Tent caterpillar, other		
TD	Douglas-fir bark moth		
TS	Tent caterpillar, aspen		

USGS 100K Quad: Baker - E144117; 8I  
 2007 Aerial Insect and Disease Detection Survey  
 Mapscale: 1:100,000  
 Date: December 4, 2007

### Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- Areas Not Flown
- 2007 Large Fires

Source: Northwest Coordination Center

The map base was created with TOPOI (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/rn/rfid/data.shtml](http://www.fs.fed.us/rn/rfid/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.

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-- OR --

  
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 Natural Resources  
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 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.