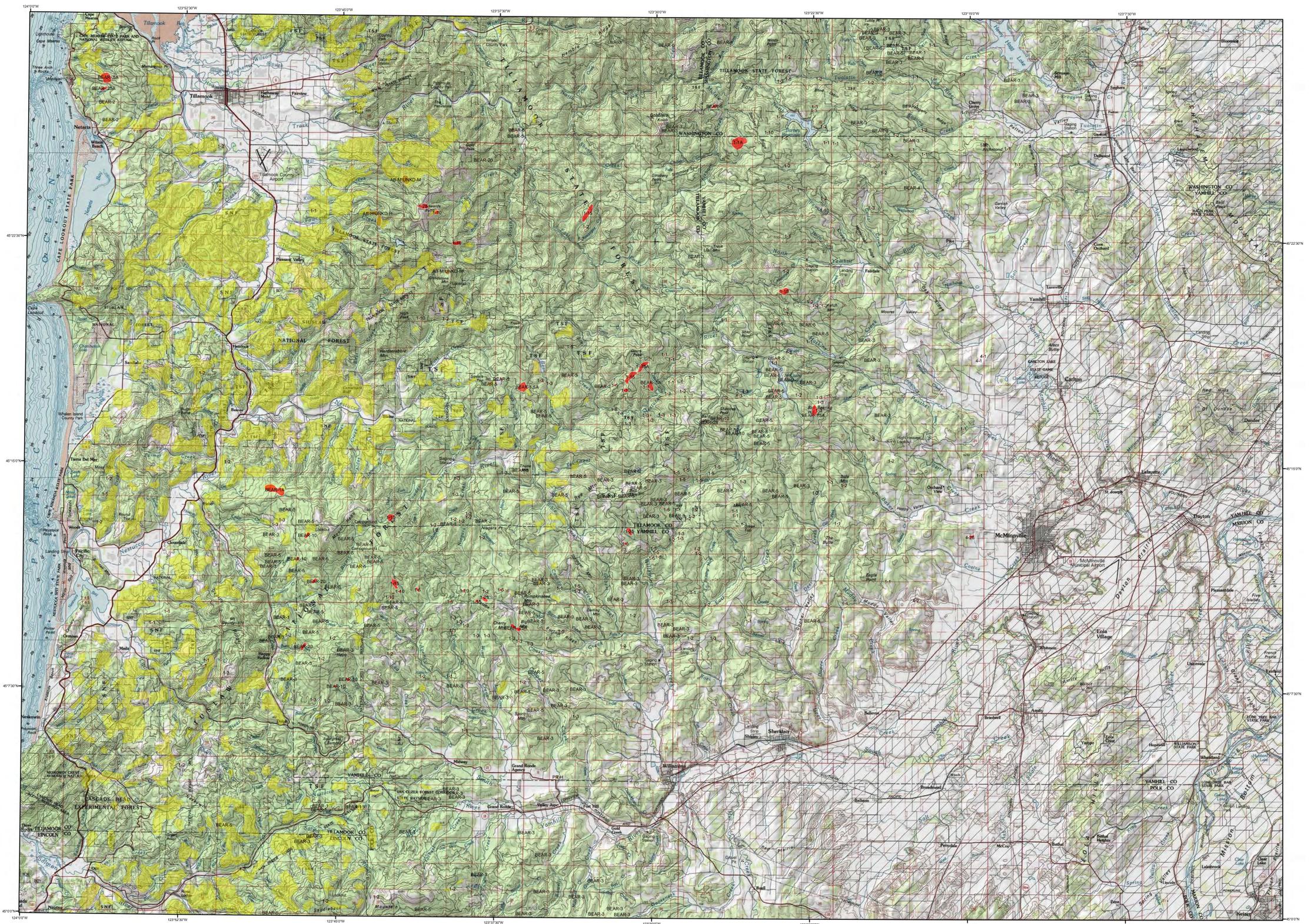


2012 Aerial Insect and Disease Survey

USGS 100K Quad: YAMHILL RIVER - A145123; 2H



Mortality Agents		
Code	Damaging Agent	Primary Host
1	Douglas fir beetle	Douglas fir
2	Douglas fir engraver	Douglas fir
3	Spruce beetle	Spruce
4	Fire engraver	True fir
5	Western balsam hawk beetle	Western white pine
6B	Mountain pine beetle	Mountain pine
6L	Mountain pine beetle	Mountain pine
6P	Mountain pine beetle	Mountain pine
6W	Mountain pine beetle	Mountain pine
7	Log-skipper	Western white pine
8	Western pine beetle	Western white pine
9	Western pine beetle	Western white pine
10	Silver fir beetle	Silver fir, true fir
BEAR	Bear damage	Douglas fir, ponderosa pine
FL	Flathead woodborer	Pine, Douglas fir
RD	Root disease	Conifer
WTR	Water Damage	All species

Defoliators		
Code	Damaging Agent	Primary Host
BS	Western spruce budworm	True fir, Douglas fir, spruce
CH	Larch casebearer/epidemiella	Western larch
LC	Western hemlock looper	Western hemlock
LS	Black pine/leaf scale	Ponderosa 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	Conifer
SL	Sawfly	Conifer
SN	Sawfly	Conifer
SNC	Sawfly	Conifer
TC	Terrestrial scale	Conifer
TK	Terrestrial scale	Conifer
UNKD	Unknown defoliating agent	All species

USGS 100K Quad: YAMHILL RIVER - A145123; 2H
2012 Aerial Insect and Disease Survey
Map Scale: 1:100,000
Date: 08 January 2013

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- 2012 Special Swiss Needle Cast Survey
- Areas Not Flown

The TOPOI 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 Arctis insect and disease data are available at: www.fs.usda.gov/gto/r6/fhp/ads

Vicinity Map

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:

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

-- OR --

USDA Forest Service, Region 6
State and Private Forestry
Forest Health Protection
PO Box 3623
Portland, Oregon 97208

DISCLAIMER
 Forest Health Protection (FHP), Washington Department of Natural Resources (WONR) 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, WONR 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 database; 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, Washington Department of Natural Resources, Resource Protection Division, and Oregon Department of Forestry, Forest Health Management" as the source of this data.