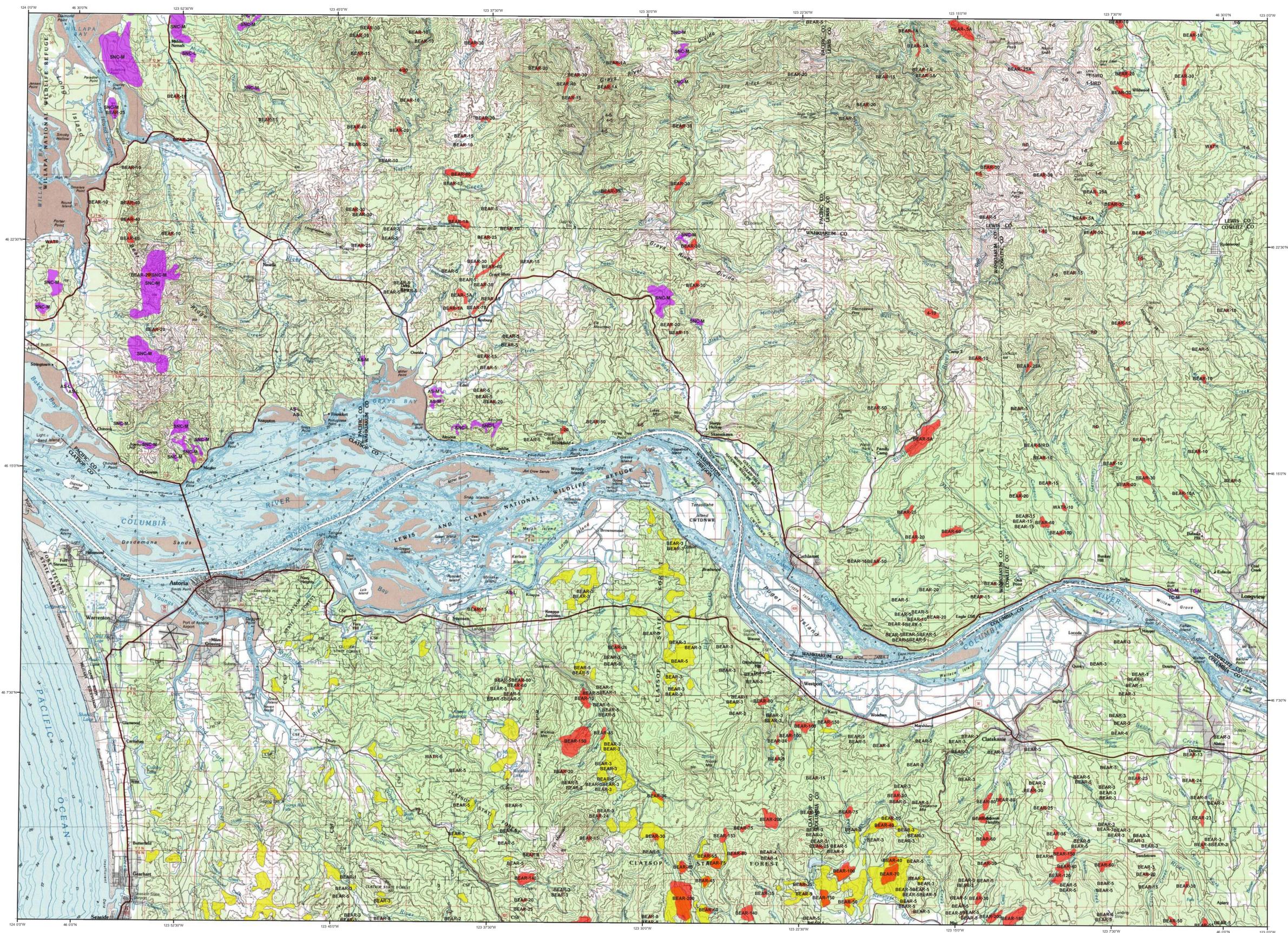


2003 Aerial Insect and Disease Survey Astoria - Quad 2F



Legend

Defoliating Agents*

Code; Agent; Primary Host(s)
 AS; Spruce aphid; Sitka spruce
 SNC; Swiss needle cast; Douglas-fir
 TC; tent caterpillar; deciduous trees

2003 Special Swiss Needle Cast Survey

More information about this special survey and the related data is located under 'Maps and Data' at: www.odf.state.or.us/DIVISIONS/management/forestry_assistance/fh

Mortality Agents*

Code; Agent; Primary Host(s)
 1; Douglas-fir beetle; Douglas-fir
 4; fir engraver; true firs
 BEAR; bear; conifer species
 RD; root disease; conifer species
 WATR; water damage; all species

Map base data is from the National Geographic TOPO! series for Oregon and Washington.

USGS 100K Quad - Astoria; 2F
 2003 Aerial Insect and Disease Detection Survey
 Mapscale: 1:100,000
 Date: November 21, 2003

Vicinity Map



A data dictionary and digital copies of this map and the insect and disease data are available at: www.fs.fed.us/r6/nr/fid/as/

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:

Washington State Department of
 Natural Resources
 Resource Protection
 Forest Health
 1111 Washington St. SE
 Olympia, WA 98504

-- OR --

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

-- OR --

USDA Forest Service, Region 6
 Natural Resources
 Forest Health Protection
 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.