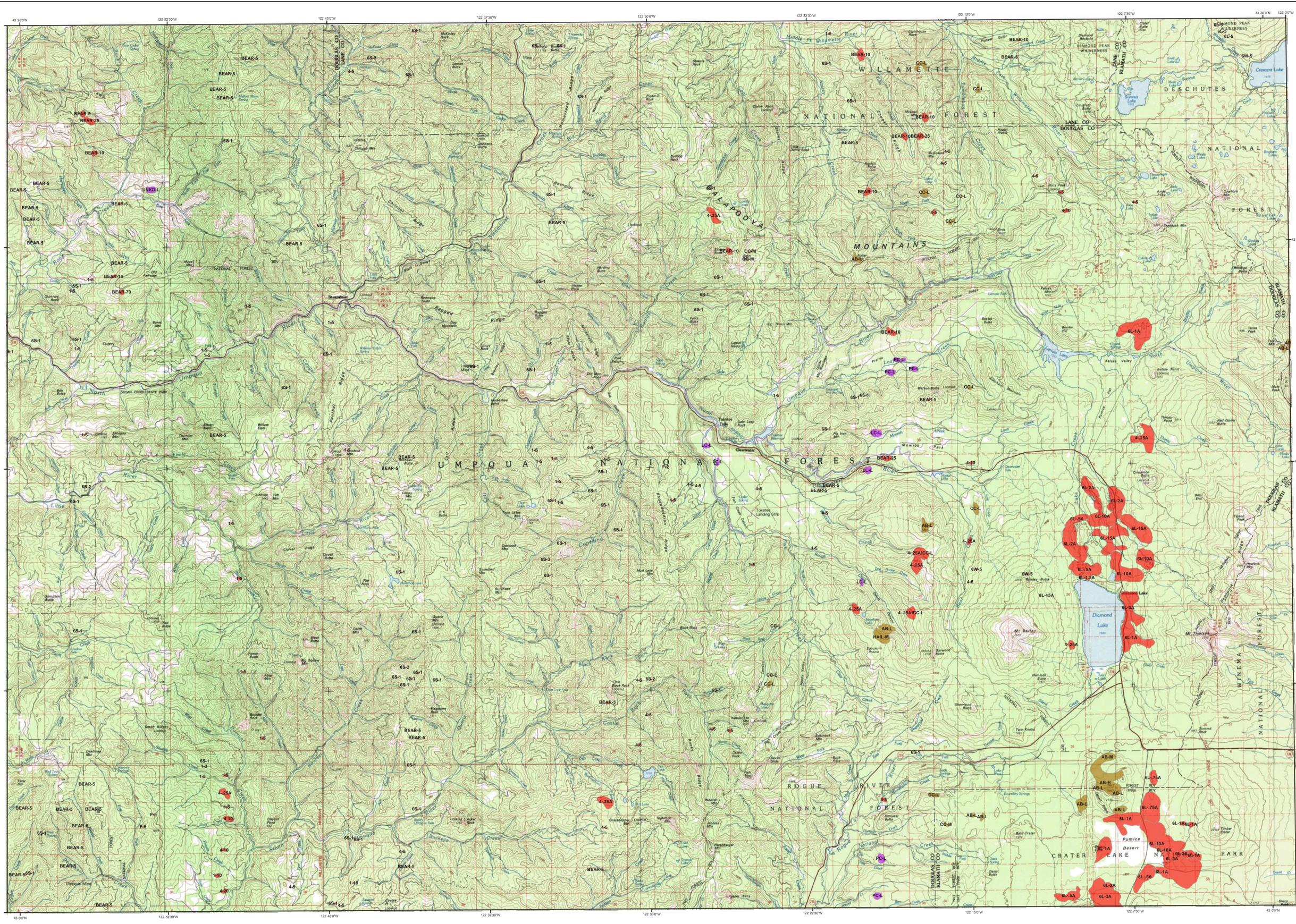


2006 Aerial Insect and Disease Survey

USGS 100K Quad: Diamond Lake - A143122; 3L



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Spruce aphid	1	Sitka spruce
BB	Western blackheaded budworm	2	Hemlock, spruce, true fir
BP	Bufoic budworm	3	White fir
BS	Western spruce budworm	4	Lodgepole, ponderosa pines
BY	Bynum's light/ash/cedar	5	True fir, Douglas-fir, spruce
CH	Larch	6J	Mountain pine beetle
HL	Western hemlock looper	6K	Mountain pine beetle
LG	Green striped forest looper	6L	Mountain pine beetle
LL	Larch looper	6P	Mountain pine beetle
LS	Black pine needle scale	6S	Mountain pine beetle
MD	Douglas-fir budmoth	6W	Mountain pine beetle
MS	Larch budmoth	6X	Mountain pine beetle
MN	Douglas-fir needle midge	6Y	Mountain pine beetle
MS	Spruce budworm	6Z	Mountain pine beetle
ND	Needle miner	7	Western white pine
NJ	Needle miner	8	Ponderosa lodgepole pines
NK	Needle miner	9	Ponderosa pine
NL	Needle miner	9A	Ponderosa pine
NI	Needle miner	9B	Ponderosa pine
NP	Needle miner	9C	Ponderosa pine
NS	Needle miner	9D	Ponderosa pine
NT	Needle miner	9E	Ponderosa pine
NW	Needle miner	9F	Ponderosa pine
OC	Western oak looper	9G	Ponderosa pine
PC	Pine butterfly	9H	Ponderosa pine
PD	Pine needle cast	9I	Ponderosa pine
PH	Pine needle scale	9J	Ponderosa pine
PK	Pine needle scale	9K	Ponderosa pine
PL	Pine needle scale	9L	Ponderosa pine
PM	Pine needle scale	9M	Ponderosa pine
PN	Pine needle scale	9N	Ponderosa pine
PO	Pine needle scale	9O	Ponderosa pine
PP	Pine needle scale	9P	Ponderosa pine
PS	Pine needle scale	9Q	Ponderosa pine
PT	Pine needle scale	9R	Ponderosa pine
PV	Pine needle scale	9S	Ponderosa pine
PW	Pine needle scale	9T	Ponderosa pine
PX	Pine needle scale	9U	Ponderosa pine
PY	Pine needle scale	9V	Ponderosa pine
PZ	Pine needle scale	9W	Ponderosa pine
QA	Pine needle scale	9X	Ponderosa pine
QB	Pine needle scale	9Y	Ponderosa pine
QC	Pine needle scale	9Z	Ponderosa pine
QD	Pine needle scale	9AA	Ponderosa pine
QE	Pine needle scale	9AB	Ponderosa pine
QF	Pine needle scale	9AC	Ponderosa pine
QG	Pine needle scale	9AD	Ponderosa pine
QH	Pine needle scale	9AE	Ponderosa pine
QI	Pine needle scale	9AF	Ponderosa pine
QJ	Pine needle scale	9AG	Ponderosa pine
QK	Pine needle scale	9AH	Ponderosa pine
QL	Pine needle scale	9AI	Ponderosa pine
QM	Pine needle scale	9AJ	Ponderosa pine
QN	Pine needle scale	9AK	Ponderosa pine
QO	Pine needle scale	9AL	Ponderosa pine
QP	Pine needle scale	9AM	Ponderosa pine
QQ	Pine needle scale	9AN	Ponderosa pine
QR	Pine needle scale	9AO	Ponderosa pine
QS	Pine needle scale	9AP	Ponderosa pine
QT	Pine needle scale	9AQ	Ponderosa pine
QU	Pine needle scale	9AR	Ponderosa pine
QV	Pine needle scale	9AS	Ponderosa pine
QW	Pine needle scale	9AT	Ponderosa pine
QX	Pine needle scale	9AU	Ponderosa pine
QY	Pine needle scale	9AV	Ponderosa pine
QZ	Pine needle scale	9AW	Ponderosa pine
RA	Pine needle scale	9AX	Ponderosa pine
RB	Pine needle scale	9AY	Ponderosa pine
RC	Pine needle scale	9AZ	Ponderosa pine
RD	Pine needle scale	9BA	Ponderosa pine
RE	Pine needle scale	9BB	Ponderosa pine
RF	Pine needle scale	9BC	Ponderosa pine
RG	Pine needle scale	9BD	Ponderosa pine
RH	Pine needle scale	9BE	Ponderosa pine
RI	Pine needle scale	9BF	Ponderosa pine
RJ	Pine needle scale	9BG	Ponderosa pine
RK	Pine needle scale	9BH	Ponderosa pine
RL	Pine needle scale	9BI	Ponderosa pine
RM	Pine needle scale	9BJ	Ponderosa pine
RN	Pine needle scale	9BK	Ponderosa pine
RO	Pine needle scale	9BL	Ponderosa pine
RP	Pine needle scale	9BM	Ponderosa pine
RQ	Pine needle scale	9BN	Ponderosa pine
RS	Pine needle scale	9BO	Ponderosa pine
RT	Pine needle scale	9BP	Ponderosa pine
RU	Pine needle scale	9BQ	Ponderosa pine
RV	Pine needle scale	9BR	Ponderosa pine
RW	Pine needle scale	9BS	Ponderosa pine
RX	Pine needle scale	9BT	Ponderosa pine
RY	Pine needle scale	9BU	Ponderosa pine
RZ	Pine needle scale	9BV	Ponderosa pine
SA	Pine needle scale	9BW	Ponderosa pine
SB	Pine needle scale	9BX	Ponderosa pine
SC	Pine needle scale	9BY	Ponderosa pine
SD	Pine needle scale	9BZ	Ponderosa pine
SE	Pine needle scale	9CA	Ponderosa pine
SF	Pine needle scale	9CB	Ponderosa pine
SG	Pine needle scale	9CC	Ponderosa pine
SH	Pine needle scale	9CD	Ponderosa pine
SI	Pine needle scale	9CE	Ponderosa pine
SJ	Pine needle scale	9CF	Ponderosa pine
SK	Pine needle scale	9CG	Ponderosa pine
SL	Pine needle scale	9CH	Ponderosa pine
SM	Pine needle scale	9CI	Ponderosa pine
SN	Pine needle scale	9CJ	Ponderosa pine
SO	Pine needle scale	9CK	Ponderosa pine
SP	Pine needle scale	9CL	Ponderosa pine
SQ	Pine needle scale	9CM	Ponderosa pine
SR	Pine needle scale	9CN	Ponderosa pine
SS	Pine needle scale	9CO	Ponderosa pine
ST	Pine needle scale	9CP	Ponderosa pine
SV	Pine needle scale	9CQ	Ponderosa pine
SW	Pine needle scale	9CR	Ponderosa pine
TX	Pine needle scale	9CS	Ponderosa pine
TY	Pine needle scale	9CT	Ponderosa pine
TZ	Pine needle scale	9CU	Ponderosa pine
UA	Pine needle scale	9CV	Ponderosa pine
UB	Pine needle scale	9CW	Ponderosa pine
UC	Pine needle scale	9CX	Ponderosa pine
UD	Pine needle scale	9CY	Ponderosa pine
UE	Pine needle scale	9CZ	Ponderosa pine
UF	Pine needle scale	9DA	Ponderosa pine
UG	Pine needle scale	9DB	Ponderosa pine
UH	Pine needle scale	9DC	Ponderosa pine
UI	Pine needle scale	9DD	Ponderosa pine
UJ	Pine needle scale	9DE	Ponderosa pine
UK	Pine needle scale	9DF	Ponderosa pine
UL	Pine needle scale	9DG	Ponderosa pine
UM	Pine needle scale	9DH	Ponderosa pine
UN	Pine needle scale	9DI	Ponderosa pine
UO	Pine needle scale	9DJ	Ponderosa pine
UP	Pine needle scale	9DK	Ponderosa pine
UQ	Pine needle scale	9DL	Ponderosa pine
UR	Pine needle scale	9DM	Ponderosa pine
US	Pine needle scale	9DN	Ponderosa pine
UT	Pine needle scale	9DO	Ponderosa pine
UU	Pine needle scale	9DP	Ponderosa pine
UV	Pine needle scale	9DQ	Ponderosa pine
UW	Pine needle scale	9DR	Ponderosa pine
UX	Pine needle scale	9DS	Ponderosa pine
UY	Pine needle scale	9DT	Ponderosa pine
UZ	Pine needle scale	9DU	Ponderosa pine
VA	Pine needle scale	9DV	Ponderosa pine
VB	Pine needle scale	9DV	Ponderosa pine
VC	Pine needle scale	9DV	Ponderosa pine
VD	Pine needle scale	9DV	Ponderosa pine
VE	Pine needle scale	9DV	Ponderosa pine
VF	Pine needle scale	9DV	Ponderosa pine
VG	Pine needle scale	9DV	Ponderosa pine
VH	Pine needle scale	9DV	Ponderosa pine
VI	Pine needle scale	9DV	Ponderosa pine
VJ	Pine needle scale	9DV	Ponderosa pine
VK	Pine needle scale	9DV	Ponderosa pine
VL	Pine needle scale	9DV	Ponderosa pine
VM	Pine needle scale	9DV	Ponderosa pine
VN	Pine needle scale	9DV	Ponderosa pine
VO	Pine needle scale	9DV	Ponderosa pine
VP	Pine needle scale	9DV	Ponderosa pine
VQ	Pine needle scale	9DV	Ponderosa pine
VR	Pine needle scale	9DV	Ponderosa pine
VS	Pine needle scale	9DV	Ponderosa pine
VT	Pine needle scale	9DV	Ponderosa pine
VU	Pine needle scale	9DV	Ponderosa pine
VV	Pine needle scale	9DV	Ponderosa pine
VW	Pine needle scale	9DV	Ponderosa pine
VX	Pine needle scale	9DV	Ponderosa pine
VY	Pine needle scale	9DV	Ponderosa pine
VZ	Pine needle scale	9DV	Ponderosa pine
WA	Pine needle scale	9DV	Ponderosa pine
WB	Pine needle scale	9DV	Ponderosa pine
WC	Pine needle scale	9DV	Ponderosa pine
WD	Pine needle scale	9DV	Ponderosa pine
WE	Pine needle scale	9DV	Ponderosa pine
WF	Pine needle scale	9DV	Ponderosa pine
WG	Pine needle scale	9DV	Ponderosa pine
WH	Pine needle scale	9DV	Ponderosa pine
WI	Pine needle scale	9DV	Ponderosa pine
WJ	Pine needle scale	9DV	Ponderosa pine
WK	Pine needle scale	9DV	Ponderosa pine
WL	Pine needle scale	9DV	Ponderosa pine
WM	Pine needle scale	9DV	Ponderosa pine
WN	Pine needle scale	9DV	Ponderosa pine
WO	Pine needle scale	9DV	Ponderosa pine
WP	Pine needle scale	9DV	Ponderosa pine
WQ	Pine needle scale	9DV	Ponderosa pine
WR	Pine needle scale	9DV	Ponderosa pine
WS	Pine needle scale	9DV	Ponderosa pine
WT	Pine needle scale	9DV	Ponderosa pine
WU	Pine needle scale	9DV	Ponderosa pine
WV	Pine needle scale	9DV	Ponderosa pine
WW	Pine needle scale	9DV	Ponderosa pine
WX	Pine needle scale	9DV	Ponderosa pine
WY	Pine needle scale	9DV	Ponderosa pine
WZ	Pine needle scale	9DV	Ponderosa pine
XA	Pine needle scale	9DV	Ponderosa pine
XB	Pine needle scale	9DV	Ponderosa pine
XC	Pine needle scale	9DV	Ponderosa pine
XD	Pine needle scale	9DV	Ponderosa pine
XE	Pine needle scale	9DV	Ponderosa pine
XF	Pine needle scale	9DV	Ponderosa pine
XG	Pine needle scale	9DV	Ponderosa pine
XH	Pine needle scale	9DV	Ponderosa pine
XI	Pine needle scale	9DV	Ponderosa pine
XJ	Pine needle scale	9DV	Ponderosa pine
XK	Pine needle scale	9DV	Ponderosa pine
XL	Pine needle scale	9DV	Ponderosa pine
XM	Pine needle scale	9DV	Ponderosa pine
XN	Pine needle scale	9DV	Ponderosa pine
XO	Pine needle scale	9DV	Ponderosa pine
XP	Pine needle scale	9DV	Ponderosa pine
XQ	Pine needle scale	9DV	Ponderosa pine
XR	Pine needle scale	9DV	Ponderosa pine
XS	Pine needle scale	9DV	Ponderosa pine
XT	Pine needle scale	9DV	Ponderosa pine
XU	Pine needle scale	9DV	Ponderosa pine
XV	Pine needle scale	9DV	Ponderosa pine
XW	Pine needle scale	9DV	Ponderosa pine
XZ	Pine needle scale	9DV	Ponderosa pine
YA	Pine needle scale	9DV	Ponderosa pine
YB	Pine needle scale	9DV	Ponderosa pine
YC	Pine needle scale	9DV	Ponderosa pine
YD	Pine needle scale	9DV	Ponderosa pine
YE	Pine needle scale	9DV	Ponderosa pine
YF	Pine needle scale	9DV	Ponderosa pine
YG	Pine needle scale	9DV	Ponderosa pine
YH	Pine needle scale	9DV	Ponderosa pine
YI	Pine needle scale	9DV	Ponderosa pine
YJ	Pine needle scale	9DV	Ponderosa pine
YK	Pine needle scale	9DV	Ponderosa pine
YL	Pine needle scale	9DV	Ponderosa pine
YM	Pine needle scale	9DV	Ponderosa pine
YN	Pine needle scale	9DV	Ponderosa pine
YO	Pine needle scale	9DV	Ponderosa pine
YP	Pine needle scale	9DV	Ponderosa pine
YQ	Pine needle scale	9DV	Ponderosa pine
YR	Pine needle scale	9DV	Ponderosa pine
YS	Pine needle scale	9DV	Ponderosa pine
YT	Pine needle scale	9DV	Ponderosa pine
YU	Pine needle scale	9DV	Ponderosa pine
YV	Pine needle scale	9DV	Ponderosa pine
YW	Pine needle scale	9DV	Ponderosa pine
YZ	Pine needle scale	9DV	Ponderosa pine
ZA	Pine needle scale	9DV	Ponderosa pine
ZB	Pine needle scale	9DV	Ponderosa pine
ZC	Pine needle scale	9DV	Ponderosa pine
ZD	Pine needle scale	9DV	Ponderosa pine
ZE	Pine needle scale	9DV	Ponderosa pine
ZF	Pine needle scale	9DV	Ponderosa pine
ZG	Pine needle scale	9DV	Ponderosa pine
ZH	Pine needle scale	9DV	Ponderosa pine
ZI	Pine needle scale	9DV	Ponderosa pine
ZJ	Pine needle scale	9DV	Ponderosa pine
ZK	Pine needle scale	9DV	Ponderosa pine
ZL	Pine needle scale	9DV	Ponderosa pine

USGS 100K Quad: Diamond Lake - A143122; 3L
2006 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: November 29, 2006

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage

Vicinity Map

The map base was created with TOPOI (Copyright 2001, National Geographic); available online at: www.ngmstore.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

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

-- 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.