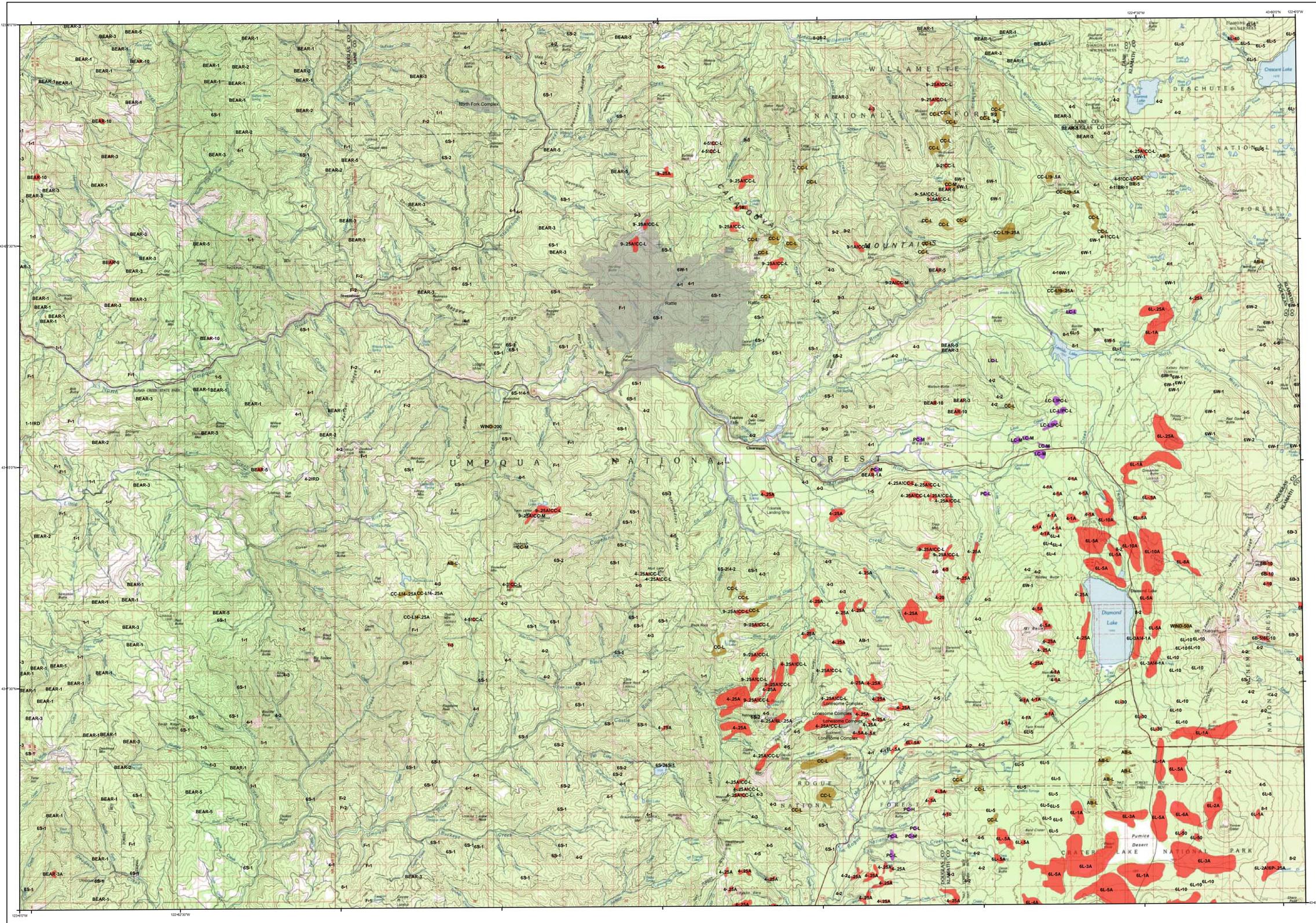


2008 Aerial Insect and Disease Survey

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



Defoliators		Mortality Agents	
Code	Primary Host	Code	Primary Host
AS	Sitka spruce	1	Douglas fir beetle
BB	Western blackheaded budworm	2	Douglas fir engraver
BM	Modor budworm	3	Spruce beetle
BP	Sugar pine tortrix	4	True fir
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bynum's bright/Lophodermella	6	Mountain pine beetle
CH	Larch	6J	Mountain pine beetle
CL	Green striped forest looper	6K	Mountain pine beetle
LL	Larch looper	6L	Mountain pine beetle
LS	Black pine needle scale	6M	Mountain pine beetle
LD	Douglas fir budmoth	6N	Mountain pine beetle
ML	Larch budmoth	6O	Mountain pine beetle
MN	Douglas fir needle midge	6P	Mountain pine beetle
MS	Spruce budmoth	6Q	Mountain pine beetle
ND	Needle miner	6R	Mountain pine beetle
NJ	Needle miner	6S	Mountain pine beetle
NK	Needle miner	6T	Mountain pine beetle
NL	Needle miner	6U	Mountain pine beetle
NR	Needle miner	6V	Mountain pine beetle
NP	Needle miner	6W	Mountain pine beetle
NQ	Needle miner	6X	Mountain pine beetle
NS	Needle miner	6Y	Mountain pine beetle
NT	Needle miner	6Z	Mountain pine beetle
OW	Western oak looper	7	Lvs. spp.
PC	Pine butterfly	8	Western pine beetle
PD	Pine needle cast	9	Silver fir beetle
PH	Phantom hemlock looper	BEAR	Bear damage
PI	Pine needle/ash miner	BEAR-1	Black stain root disease
PK	Pine needle scale	BEAR-2	Pine Oribol cedar
PL	Needle cast	BEAR-3	Root disease
PM	Spruce beetle	BEAR-4	Water damage
PN	Needle miner	BEAR-5	Water damage
PO	Needle miner	BEAR-10	Water damage
PS	Needle miner	BEAR-15	Water damage
SA	Sawfly	BEAR-20	Water damage
SB	Sawfly	BEAR-30	Water damage
SC	Sawfly	BEAR-40	Water damage
SD	Sawfly	BEAR-50	Water damage
SE	Sawfly	BEAR-60	Water damage
SH	Sawfly	BEAR-70	Water damage
SI	Sawfly	BEAR-80	Water damage
SM	Sawfly	BEAR-90	Water damage
SN	Sawfly	BEAR-100	Water damage
SO	Sawfly	BEAR-110	Water damage
SP	Sawfly	BEAR-120	Water damage
SW	Sawfly	BEAR-130	Water damage
TA	Tent caterpillar/ailer	BEAR-140	Water damage
TC	Tent caterpillar/ailer	BEAR-150	Water damage
TD	Tent caterpillar/ailer	BEAR-160	Water damage
TE	Tent caterpillar/ailer	BEAR-170	Water damage
TF	Tent caterpillar/ailer	BEAR-180	Water damage
TG	Tent caterpillar/ailer	BEAR-190	Water damage
TH	Tent caterpillar/ailer	BEAR-200	Water damage
TI	Tent caterpillar/ailer	BEAR-210	Water damage
TJ	Tent caterpillar/ailer	BEAR-220	Water damage
TK	Tent caterpillar/ailer	BEAR-230	Water damage
TL	Tent caterpillar/ailer	BEAR-240	Water damage
TM	Tent caterpillar/ailer	BEAR-250	Water damage
TN	Tent caterpillar/ailer	BEAR-260	Water damage
TO	Tent caterpillar/ailer	BEAR-270	Water damage
TP	Tent caterpillar/ailer	BEAR-280	Water damage
TQ	Tent caterpillar/ailer	BEAR-290	Water damage
TR	Tent caterpillar/ailer	BEAR-300	Water damage
TS	Tent caterpillar/ailer	BEAR-310	Water damage
TT	Tent caterpillar/ailer	BEAR-320	Water damage
TU	Tent caterpillar/ailer	BEAR-330	Water damage
TV	Tent caterpillar/ailer	BEAR-340	Water damage
TW	Tent caterpillar/ailer	BEAR-350	Water damage
TX	Tent caterpillar/ailer	BEAR-360	Water damage
TY	Tent caterpillar/ailer	BEAR-370	Water damage
TZ	Tent caterpillar/ailer	BEAR-380	Water damage
UA	Tent caterpillar/ailer	BEAR-390	Water damage
UB	Tent caterpillar/ailer	BEAR-400	Water damage
UC	Tent caterpillar/ailer	BEAR-410	Water damage
UD	Tent caterpillar/ailer	BEAR-420	Water damage
UE	Tent caterpillar/ailer	BEAR-430	Water damage
UF	Tent caterpillar/ailer	BEAR-440	Water damage
UG	Tent caterpillar/ailer	BEAR-450	Water damage
UH	Tent caterpillar/ailer	BEAR-460	Water damage
UI	Tent caterpillar/ailer	BEAR-470	Water damage
UJ	Tent caterpillar/ailer	BEAR-480	Water damage
UK	Tent caterpillar/ailer	BEAR-490	Water damage
UL	Tent caterpillar/ailer	BEAR-500	Water damage
UM	Tent caterpillar/ailer	BEAR-510	Water damage
UN	Tent caterpillar/ailer	BEAR-520	Water damage
UO	Tent caterpillar/ailer	BEAR-530	Water damage
UP	Tent caterpillar/ailer	BEAR-540	Water damage
UQ	Tent caterpillar/ailer	BEAR-550	Water damage
UR	Tent caterpillar/ailer	BEAR-560	Water damage
US	Tent caterpillar/ailer	BEAR-570	Water damage
UT	Tent caterpillar/ailer	BEAR-580	Water damage
UU	Tent caterpillar/ailer	BEAR-590	Water damage
UV	Tent caterpillar/ailer	BEAR-600	Water damage
UW	Tent caterpillar/ailer	BEAR-610	Water damage
UX	Tent caterpillar/ailer	BEAR-620	Water damage
UY	Tent caterpillar/ailer	BEAR-630	Water damage
UZ	Tent caterpillar/ailer	BEAR-640	Water damage
VA	Tent caterpillar/ailer	BEAR-650	Water damage
VB	Tent caterpillar/ailer	BEAR-660	Water damage
VC	Tent caterpillar/ailer	BEAR-670	Water damage
VD	Tent caterpillar/ailer	BEAR-680	Water damage
VE	Tent caterpillar/ailer	BEAR-690	Water damage
VF	Tent caterpillar/ailer	BEAR-700	Water damage
VG	Tent caterpillar/ailer	BEAR-710	Water damage
VH	Tent caterpillar/ailer	BEAR-720	Water damage
VI	Tent caterpillar/ailer	BEAR-730	Water damage
VJ	Tent caterpillar/ailer	BEAR-740	Water damage
VK	Tent caterpillar/ailer	BEAR-750	Water damage
VL	Tent caterpillar/ailer	BEAR-760	Water damage
VM	Tent caterpillar/ailer	BEAR-770	Water damage
VN	Tent caterpillar/ailer	BEAR-780	Water damage
VO	Tent caterpillar/ailer	BEAR-790	Water damage
VP	Tent caterpillar/ailer	BEAR-800	Water damage
VQ	Tent caterpillar/ailer	BEAR-810	Water damage
VR	Tent caterpillar/ailer	BEAR-820	Water damage
VS	Tent caterpillar/ailer	BEAR-830	Water damage
VT	Tent caterpillar/ailer	BEAR-840	Water damage
VU	Tent caterpillar/ailer	BEAR-850	Water damage
VV	Tent caterpillar/ailer	BEAR-860	Water damage
VW	Tent caterpillar/ailer	BEAR-870	Water damage
VX	Tent caterpillar/ailer	BEAR-880	Water damage
VY	Tent caterpillar/ailer	BEAR-890	Water damage
VZ	Tent caterpillar/ailer	BEAR-900	Water damage
WA	Tent caterpillar/ailer	BEAR-910	Water damage
WB	Tent caterpillar/ailer	BEAR-920	Water damage
WC	Tent caterpillar/ailer	BEAR-930	Water damage
WD	Tent caterpillar/ailer	BEAR-940	Water damage
WE	Tent caterpillar/ailer	BEAR-950	Water damage
WF	Tent caterpillar/ailer	BEAR-960	Water damage
WG	Tent caterpillar/ailer	BEAR-970	Water damage
WH	Tent caterpillar/ailer	BEAR-980	Water damage
WI	Tent caterpillar/ailer	BEAR-990	Water damage
WJ	Tent caterpillar/ailer	BEAR-1000	Water damage
WK	Tent caterpillar/ailer	BEAR-1010	Water damage
WL	Tent caterpillar/ailer	BEAR-1020	Water damage
WM	Tent caterpillar/ailer	BEAR-1030	Water damage
WN	Tent caterpillar/ailer	BEAR-1040	Water damage
WO	Tent caterpillar/ailer	BEAR-1050	Water damage
WP	Tent caterpillar/ailer	BEAR-1060	Water damage
WQ	Tent caterpillar/ailer	BEAR-1070	Water damage
WR	Tent caterpillar/ailer	BEAR-1080	Water damage
WS	Tent caterpillar/ailer	BEAR-1090	Water damage
WT	Tent caterpillar/ailer	BEAR-1100	Water damage
WU	Tent caterpillar/ailer	BEAR-1110	Water damage
WV	Tent caterpillar/ailer	BEAR-1120	Water damage
WW	Tent caterpillar/ailer	BEAR-1130	Water damage
WX	Tent caterpillar/ailer	BEAR-1140	Water damage
WY	Tent caterpillar/ailer	BEAR-1150	Water damage
WZ	Tent caterpillar/ailer	BEAR-1160	Water damage
XA	Tent caterpillar/ailer	BEAR-1170	Water damage
XB	Tent caterpillar/ailer	BEAR-1180	Water damage
XC	Tent caterpillar/ailer	BEAR-1190	Water damage
XD	Tent caterpillar/ailer	BEAR-1200	Water damage
XE	Tent caterpillar/ailer	BEAR-1210	Water damage
XF	Tent caterpillar/ailer	BEAR-1220	Water damage
XG	Tent caterpillar/ailer	BEAR-1230	Water damage
XH	Tent caterpillar/ailer	BEAR-1240	Water damage
XI	Tent caterpillar/ailer	BEAR-1250	Water damage
XJ	Tent caterpillar/ailer	BEAR-1260	Water damage
XK	Tent caterpillar/ailer	BEAR-1270	Water damage
XL	Tent caterpillar/ailer	BEAR-1280	Water damage
XM	Tent caterpillar/ailer	BEAR-1290	Water damage
XN	Tent caterpillar/ailer	BEAR-1300	Water damage
XO	Tent caterpillar/ailer	BEAR-1310	Water damage
XP	Tent caterpillar/ailer	BEAR-1320	Water damage
XQ	Tent caterpillar/ailer	BEAR-1330	Water damage
XR	Tent caterpillar/ailer	BEAR-1340	Water damage
XS	Tent caterpillar/ailer	BEAR-1350	Water damage
XT	Tent caterpillar/ailer	BEAR-1360	Water damage
XU	Tent caterpillar/ailer	BEAR-1370	Water damage
XV	Tent caterpillar/ailer	BEAR-1380	Water damage
XW	Tent caterpillar/ailer	BEAR-1390	Water damage
XX	Tent caterpillar/ailer	BEAR-1400	Water damage
XY	Tent caterpillar/ailer	BEAR-1410	Water damage
XZ	Tent caterpillar/ailer	BEAR-1420	Water damage
YA	Tent caterpillar/ailer	BEAR-1430	Water damage
YB	Tent caterpillar/ailer	BEAR-1440	Water damage
YC	Tent caterpillar/ailer	BEAR-1450	Water damage
YD	Tent caterpillar/ailer	BEAR-1460	Water damage
YE	Tent caterpillar/ailer	BEAR-1470	Water damage
YF	Tent caterpillar/ailer	BEAR-1480	Water damage
YG	Tent caterpillar/ailer	BEAR-1490	Water damage
YH	Tent caterpillar/ailer	BEAR-1500	Water damage
YI	Tent caterpillar/ailer	BEAR-1510	Water damage
YJ	Tent caterpillar/ailer	BEAR-1520	Water damage
YK	Tent caterpillar/ailer	BEAR-1530	Water damage
YL	Tent caterpillar/ailer	BEAR-1540	Water damage
YM	Tent caterpillar/ailer	BEAR-1550	Water damage
YN	Tent caterpillar/ailer	BEAR-1560	Water damage
YO	Tent caterpillar/ailer	BEAR-1570	Water damage
YP	Tent caterpillar/ailer	BEAR-1580	Water damage
YQ	Tent caterpillar/ailer	BEAR-1590	Water damage
YR	Tent caterpillar/ailer	BEAR-1600	Water damage
YS	Tent caterpillar/ailer	BEAR-1610	Water damage
YT	Tent caterpillar/ailer	BEAR-1620	Water damage
YU	Tent caterpillar/ailer	BEAR-1630	Water damage
YV	Tent caterpillar/ailer	BEAR-1640	Water damage
YW	Tent caterpillar/ailer	BEAR-1650	Water damage
YX	Tent caterpillar/ailer	BEAR-1660	Water damage
YY	Tent caterpillar/ailer	BEAR-1670	Water damage
YZ	Tent caterpillar/ailer	BEAR-1680	Water damage
ZA	Tent caterpillar/ailer	BEAR-1690	Water damage
ZB	Tent caterpillar/ailer	BEAR-1700	Water damage
ZC	Tent caterpillar/ailer	BEAR-1710	Water damage
ZD	Tent caterpillar/ailer	BEAR-1720	Water damage
ZE	Tent caterpillar/ailer	BEAR-1730	Water damage
ZF	Tent caterpillar/ailer	BEAR-1740	Water damage
ZG	Tent caterpillar/ailer	BEAR-1750	Water damage
ZH	Tent caterpillar/ailer	BEAR-1760	Water damage
ZI	Tent caterpillar/ailer	BEAR-1770	Water damage
ZJ	Tent caterpillar/ailer	BEAR-1780	Water damage
ZK	Tent caterpillar/ailer	BEAR-1790	Water damage
ZL	Tent caterpillar/ailer	BEAR-1800	Water damage
ZM	Tent caterpillar/ailer	BEAR-1810	Water damage
ZN	Tent caterpillar/ailer	BEAR-1820	Water damage
ZO	Tent caterpillar/ailer	BEAR-1830	Water damage
ZP	Tent caterpillar/ailer	BEAR-1840	Water damage
ZQ	Tent caterpillar/ailer	BEAR-1850	Water damage
ZR	Tent caterpillar/ailer	BEAR-1860	Water damage
ZS	Tent caterpillar/ailer	BEAR-1870	Water damage
ZT	Tent caterpillar/ailer	BEAR-1880	Water damage
ZU	Tent caterpillar/ailer	BEAR-1890	Water damage
ZV	Tent caterpillar/ailer	BEAR-1900	Water damage
ZW	Tent caterpillar/ailer	BEAR-1910	Water damage
ZX	Tent caterpillar/ailer	BEAR-1920	Water damage
ZY	Tent caterpillar/ailer	BEAR-1930	Water damage
ZZ	Tent caterpillar/ailer	BEAR-1940	Water damage

USGS 100K Quad: Diamond Lake - A143122; 3L
2008 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: November 18, 2008

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- 2008 Large Fires

Source: Northwest Coordination Center

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

A data dictionary, digital copies of this map and ArcGIS Insect and disease data are available at: www.fs.fed.us/r6/nr/rd/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:

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 Forest Health Management
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 Salem, Oregon 97310

-- OR --

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