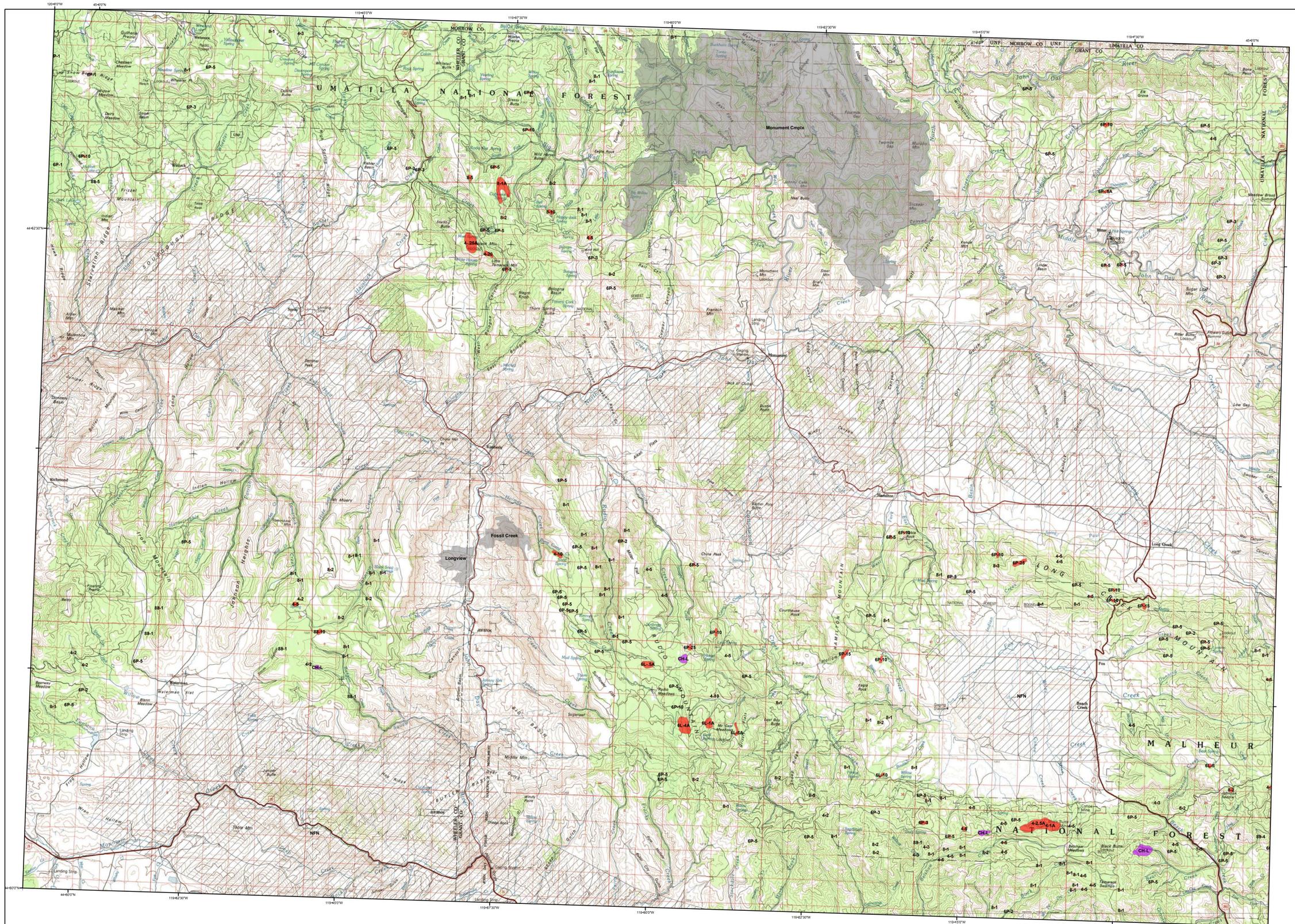


2007 Aerial Insect and Disease Survey USGS 100K Quad: Monument - E144119; 6I



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	Motdot budworm	3	Spruce beetle
BP	Sugar pine tortrix	4	Fir engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bynum's bright/Lophodermella	6B	Mountain pine beetle
CH	Larch	6C	Jeffrey pine
HL	Western hemlock looper	6L	Mountain pine beetle
LG	Green striped forest looper	6M	Mountain pine beetle
LL	Larch looper	6N	Mountain pine beetle
LS	Black pine needle scale	6S	Mountain white pine
MD	Douglas-fir budmoth	6W	Western white pine
ML	Larch budmoth	7	Western pine beetle
ND	Douglas-fir needle midge	8B	Western pine beetle
NS	Spruce budmoth	8C	Western pine beetle
NW	Needle miner	8D	Western pine beetle
NY	Needle miner	8E	Western pine beetle
NZ	Needle miner	8F	Western pine beetle
OA	Needle miner	8G	Western pine beetle
OB	Needle miner	8H	Western pine beetle
OC	Needle miner	8I	Western pine beetle
OD	Needle miner	8J	Western pine beetle
OE	Needle miner	8K	Western pine beetle
OF	Needle miner	8L	Western pine beetle
OG	Needle miner	8M	Western pine beetle
OH	Needle miner	8N	Western pine beetle
OI	Needle miner	8O	Western pine beetle
OJ	Needle miner	8P	Western pine beetle
OK	Needle miner	8Q	Western pine beetle
OL	Needle miner	8R	Western pine beetle
OM	Needle miner	8S	Western pine beetle
ON	Needle miner	8T	Western pine beetle
OO	Needle miner	8U	Western pine beetle
OP	Needle miner	8V	Western pine beetle
OQ	Needle miner	8W	Western pine beetle
OR	Needle miner	8X	Western pine beetle
OS	Needle miner	8Y	Western pine beetle
OT	Needle miner	8Z	Western pine beetle
OU	Needle miner	8AA	Western pine beetle
OV	Needle miner	8AB	Western pine beetle
OW	Needle miner	8AC	Western pine beetle
OX	Needle miner	8AD	Western pine beetle
OY	Needle miner	8AE	Western pine beetle
OZ	Needle miner	8AF	Western pine beetle
PA	Needle miner	8AG	Western pine beetle
PB	Needle miner	8AH	Western pine beetle
PC	Needle miner	8AI	Western pine beetle
PD	Needle miner	8AJ	Western pine beetle
PE	Needle miner	8AK	Western pine beetle
PF	Needle miner	8AL	Western pine beetle
PG	Needle miner	8AM	Western pine beetle
PH	Needle miner	8AN	Western pine beetle
PI	Needle miner	8AO	Western pine beetle
PJ	Needle miner	8AP	Western pine beetle
PK	Needle miner	8AQ	Western pine beetle
PL	Needle miner	8AR	Western pine beetle
PM	Needle miner	8AS	Western pine beetle
PN	Needle miner	8AT	Western pine beetle
PO	Needle miner	8AU	Western pine beetle
PP	Needle miner	8AV	Western pine beetle
PQ	Needle miner	8AW	Western pine beetle
PR	Needle miner	8AX	Western pine beetle
PS	Needle miner	8AY	Western pine beetle
PT	Needle miner	8AZ	Western pine beetle
PV	Needle miner	8BA	Western pine beetle
PW	Needle miner	8BB	Western pine beetle
PX	Needle miner	8BC	Western pine beetle
PY	Needle miner	8BD	Western pine beetle
PZ	Needle miner	8BE	Western pine beetle
QA	Needle miner	8BF	Western pine beetle
QB	Needle miner	8BG	Western pine beetle
QC	Needle miner	8BH	Western pine beetle
QD	Needle miner	8BI	Western pine beetle
QE	Needle miner	8BJ	Western pine beetle
QF	Needle miner	8BK	Western pine beetle
QG	Needle miner	8BL	Western pine beetle
QH	Needle miner	8BM	Western pine beetle
QI	Needle miner	8BN	Western pine beetle
QJ	Needle miner	8BO	Western pine beetle
QK	Needle miner	8BP	Western pine beetle
QL	Needle miner	8BQ	Western pine beetle
QM	Needle miner	8BR	Western pine beetle
QN	Needle miner	8BS	Western pine beetle
QO	Needle miner	8BT	Western pine beetle
QP	Needle miner	8BU	Western pine beetle
QQ	Needle miner	8BV	Western pine beetle
QR	Needle miner	8BW	Western pine beetle
QS	Needle miner	8BX	Western pine beetle
QT	Needle miner	8BY	Western pine beetle
QU	Needle miner	8BZ	Western pine beetle
QV	Needle miner	8CA	Western pine beetle
QW	Needle miner	8CB	Western pine beetle
QX	Needle miner	8CC	Western pine beetle
QY	Needle miner	8CD	Western pine beetle
QZ	Needle miner	8CE	Western pine beetle
RA	Needle miner	8CF	Western pine beetle
RB	Needle miner	8CG	Western pine beetle
RC	Needle miner	8CH	Western pine beetle
RD	Needle miner	8CI	Western pine beetle
RE	Needle miner	8CJ	Western pine beetle
RF	Needle miner	8CK	Western pine beetle
RG	Needle miner	8CL	Western pine beetle
RH	Needle miner	8CM	Western pine beetle
RI	Needle miner	8CN	Western pine beetle
RJ	Needle miner	8CO	Western pine beetle
RK	Needle miner	8CP	Western pine beetle
RL	Needle miner	8CQ	Western pine beetle
RM	Needle miner	8CR	Western pine beetle
RN	Needle miner	8CS	Western pine beetle
RO	Needle miner	8CT	Western pine beetle
RP	Needle miner	8CU	Western pine beetle
RQ	Needle miner	8CV	Western pine beetle
RS	Needle miner	8CW	Western pine beetle
RT	Needle miner	8CX	Western pine beetle
RU	Needle miner	8CY	Western pine beetle
RV	Needle miner	8CZ	Western pine beetle
RW	Needle miner	8DA	Western pine beetle
RX	Needle miner	8DB	Western pine beetle
RY	Needle miner	8DC	Western pine beetle
RZ	Needle miner	8DD	Western pine beetle
SA	Needle miner	8DE	Western pine beetle
SB	Needle miner	8DF	Western pine beetle
SC	Needle miner	8DG	Western pine beetle
SD	Needle miner	8DH	Western pine beetle
SE	Needle miner	8DI	Western pine beetle
SF	Needle miner	8DJ	Western pine beetle
SG	Needle miner	8DK	Western pine beetle
SH	Needle miner	8DL	Western pine beetle
SI	Needle miner	8DM	Western pine beetle
SJ	Needle miner	8DN	Western pine beetle
SK	Needle miner	8DO	Western pine beetle
SL	Needle miner	8DP	Western pine beetle
SM	Needle miner	8DQ	Western pine beetle
SN	Needle miner	8DR	Western pine beetle
SO	Needle miner	8DS	Western pine beetle
SP	Needle miner	8DT	Western pine beetle
SQ	Needle miner	8DU	Western pine beetle
SR	Needle miner	8DV	Western pine beetle
SS	Needle miner	8DV	Western pine beetle
ST	Needle miner	8DV	Western pine beetle
SV	Needle miner	8DV	Western pine beetle
SW	Needle miner	8DV	Western pine beetle
SX	Needle miner	8DV	Western pine beetle
SY	Needle miner	8DV	Western pine beetle
SZ	Needle miner	8DV	Western pine beetle
TA	Tent caterpillar, alder	Hardwoods	
TB	Tent caterpillar, other	Hardwoods	
TC	Tent caterpillar, larch	Hardwoods	
TD	Tent caterpillar, aspen	Hardwoods	

USGS 100K Quad: Monument - E144119; 6I
2007 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: December 3, 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

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

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 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
 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.