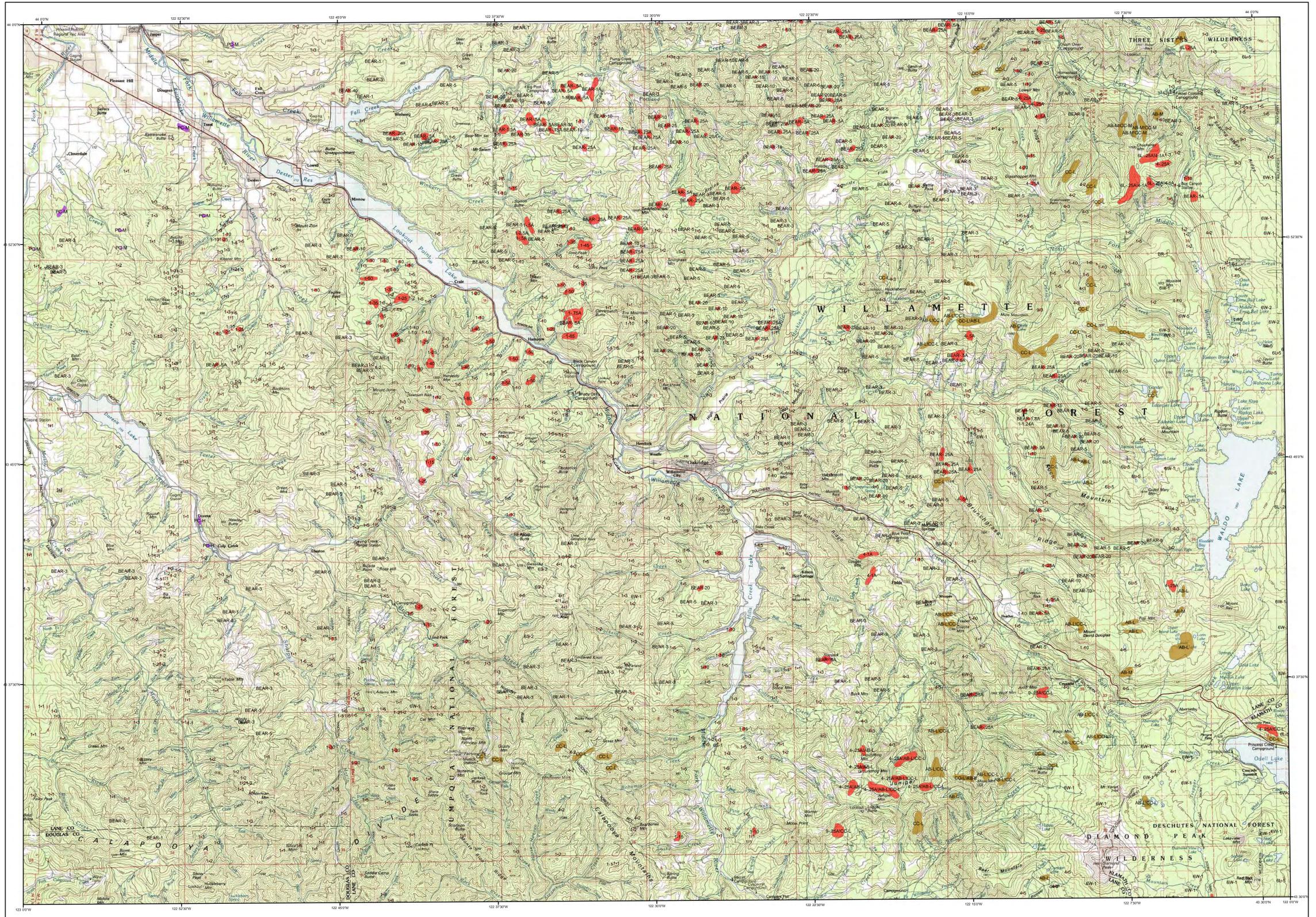


2010 Aerial Insect and Disease Survey

USGS 100K Quad: Oak Ridge - E143122; 3K



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Spruce aphid	1	Douglas-fir beetle
BS	Western blueheaded budworm	2	Douglas-fir engraver
BM	Motoc budworm	3	Spruce beetle
BP	Sugar pine tortrix	4	Fire engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bynum's light lophodermella	6	Mountain pine beetle
CA	Green aldered forest looper	6K	Mountain pine beetle
CL	Western hemlock looper	6L	Mountain pine beetle
CO	Green aldered forest looper	6M	Mountain pine beetle
LL	Larch looper	6N	Mountain pine beetle
LS	Black pine leaf scale	6P	Mountain pine beetle
MD	Douglas-fir budmoth	6S	Mountain pine beetle
MS	Larch budmoth	6T	Mountain pine beetle
ND	Douglas-fir needle midge	6U	Mountain pine beetle
NE	Spruce budmoth	6V	Mountain pine beetle
NF	Needle miner	6W	Mountain pine beetle
NH	Needle miner	6X	Mountain pine beetle
NI	Needle miner	6Y	Mountain pine beetle
NJ	Needle miner	6Z	Mountain pine beetle
NK	Needle miner	7	Ursid
NL	Needle miner	8	Western pine beetle
NM	Needle miner	8A	Western pine beetle
NP	Needle miner	8B	Western pine beetle
NQ	Needle miner	8C	Western pine beetle
NR	Needle miner	8D	Western pine beetle
NS	Needle miner	8E	Western pine beetle
NT	Needle miner	8F	Western pine beetle
NW	Needle miner	8G	Western pine beetle
OX	Western oak looper	8H	Western pine beetle
PA	Pine bark beetle	8I	Western pine beetle
PC	Pine needle scale	8J	Western pine beetle
PD	Pine bark beetle	8K	Western pine beetle
PE	Pine bark beetle	8L	Western pine beetle
PF	Pine bark beetle	8M	Western pine beetle
PG	Pine bark beetle	8N	Western pine beetle
PH	Pine bark beetle	8O	Western pine beetle
PI	Pine bark beetle	8P	Western pine beetle
PJ	Pine bark beetle	8Q	Western pine beetle
PK	Pine bark beetle	8R	Western pine beetle
PL	Pine bark beetle	8S	Western pine beetle
PM	Pine bark beetle	8T	Western pine beetle
PN	Pine bark beetle	8U	Western pine beetle
PO	Pine bark beetle	8V	Western pine beetle
PP	Pine bark beetle	8W	Western pine beetle
PQ	Pine bark beetle	8X	Western pine beetle
PR	Pine bark beetle	8Y	Western pine beetle
PS	Pine bark beetle	8Z	Western pine beetle
PT	Pine bark beetle	9	Fire
PU	Pine bark beetle	10	Fire
PV	Pine bark beetle	11	Fire
PW	Pine bark beetle	12	Fire
PX	Pine bark beetle	13	Fire
PY	Pine bark beetle	14	Fire
PZ	Pine bark beetle	15	Fire
QA	Pine bark beetle	16	Fire
QB	Pine bark beetle	17	Fire
QC	Pine bark beetle	18	Fire
QD	Pine bark beetle	19	Fire
QE	Pine bark beetle	20	Fire
QF	Pine bark beetle	21	Fire
QG	Pine bark beetle	22	Fire
QH	Pine bark beetle	23	Fire
QI	Pine bark beetle	24	Fire
QJ	Pine bark beetle	25	Fire
QK	Pine bark beetle	26	Fire
QL	Pine bark beetle	27	Fire
QM	Pine bark beetle	28	Fire
QN	Pine bark beetle	29	Fire
QO	Pine bark beetle	30	Fire
QP	Pine bark beetle	31	Fire
QQ	Pine bark beetle	32	Fire
QR	Pine bark beetle	33	Fire
QS	Pine bark beetle	34	Fire
QT	Pine bark beetle	35	Fire
QU	Pine bark beetle	36	Fire
QV	Pine bark beetle	37	Fire
QW	Pine bark beetle	38	Fire
QX	Pine bark beetle	39	Fire
QY	Pine bark beetle	40	Fire
QZ	Pine bark beetle	41	Fire
RA	Pine bark beetle	42	Fire
RB	Pine bark beetle	43	Fire
RC	Pine bark beetle	44	Fire
RD	Pine bark beetle	45	Fire
RE	Pine bark beetle	46	Fire
RF	Pine bark beetle	47	Fire
RG	Pine bark beetle	48	Fire
RH	Pine bark beetle	49	Fire
RI	Pine bark beetle	50	Fire
RJ	Pine bark beetle	51	Fire
RK	Pine bark beetle	52	Fire
RL	Pine bark beetle	53	Fire
RM	Pine bark beetle	54	Fire
RN	Pine bark beetle	55	Fire
RO	Pine bark beetle	56	Fire
RP	Pine bark beetle	57	Fire
RQ	Pine bark beetle	58	Fire
RR	Pine bark beetle	59	Fire
RS	Pine bark beetle	60	Fire
RT	Pine bark beetle	61	Fire
RU	Pine bark beetle	62	Fire
RV	Pine bark beetle	63	Fire
RW	Pine bark beetle	64	Fire
RX	Pine bark beetle	65	Fire
RY	Pine bark beetle	66	Fire
RZ	Pine bark beetle	67	Fire
SA	Pine bark beetle	68	Fire
SB	Pine bark beetle	69	Fire
SC	Pine bark beetle	70	Fire
SD	Pine bark beetle	71	Fire
SE	Pine bark beetle	72	Fire
SF	Pine bark beetle	73	Fire
SG	Pine bark beetle	74	Fire
SH	Pine bark beetle	75	Fire
SI	Pine bark beetle	76	Fire
SJ	Pine bark beetle	77	Fire
SK	Pine bark beetle	78	Fire
SL	Pine bark beetle	79	Fire
SM	Pine bark beetle	80	Fire
SN	Pine bark beetle	81	Fire
SO	Pine bark beetle	82	Fire
SP	Pine bark beetle	83	Fire
SQ	Pine bark beetle	84	Fire
SR	Pine bark beetle	85	Fire
SS	Pine bark beetle	86	Fire
ST	Pine bark beetle	87	Fire
SV	Pine bark beetle	88	Fire
SW	Pine bark beetle	89	Fire
SX	Pine bark beetle	90	Fire
SY	Pine bark beetle	91	Fire
SZ	Pine bark beetle	92	Fire
TA	Pine bark beetle	93	Fire
TB	Pine bark beetle	94	Fire
TC	Pine bark beetle	95	Fire
TD	Pine bark beetle	96	Fire
TE	Pine bark beetle	97	Fire
TF	Pine bark beetle	98	Fire
TF	Pine bark beetle	99	Fire
TF	Pine bark beetle	100	Fire

USGS 100K Quad: Oak Ridge - E143122; 3K
2010 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: January 4, 2011

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage

The map base was created with TOPO! (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/field/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 agent. 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: Forest Health Protection (FHP) 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 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 dataset; however, ground checks are completed in accordance with local and national guidelines. <http://www.fs.fed.us/foresthealth/odf/qualityassurance.shtml>. Maps and data may be updated without notice. Please cite: "USDA Forest Service, Forest Health Protection and Oregon Department of Forestry, Forest Health Management" as the source of the data in maps and publications.