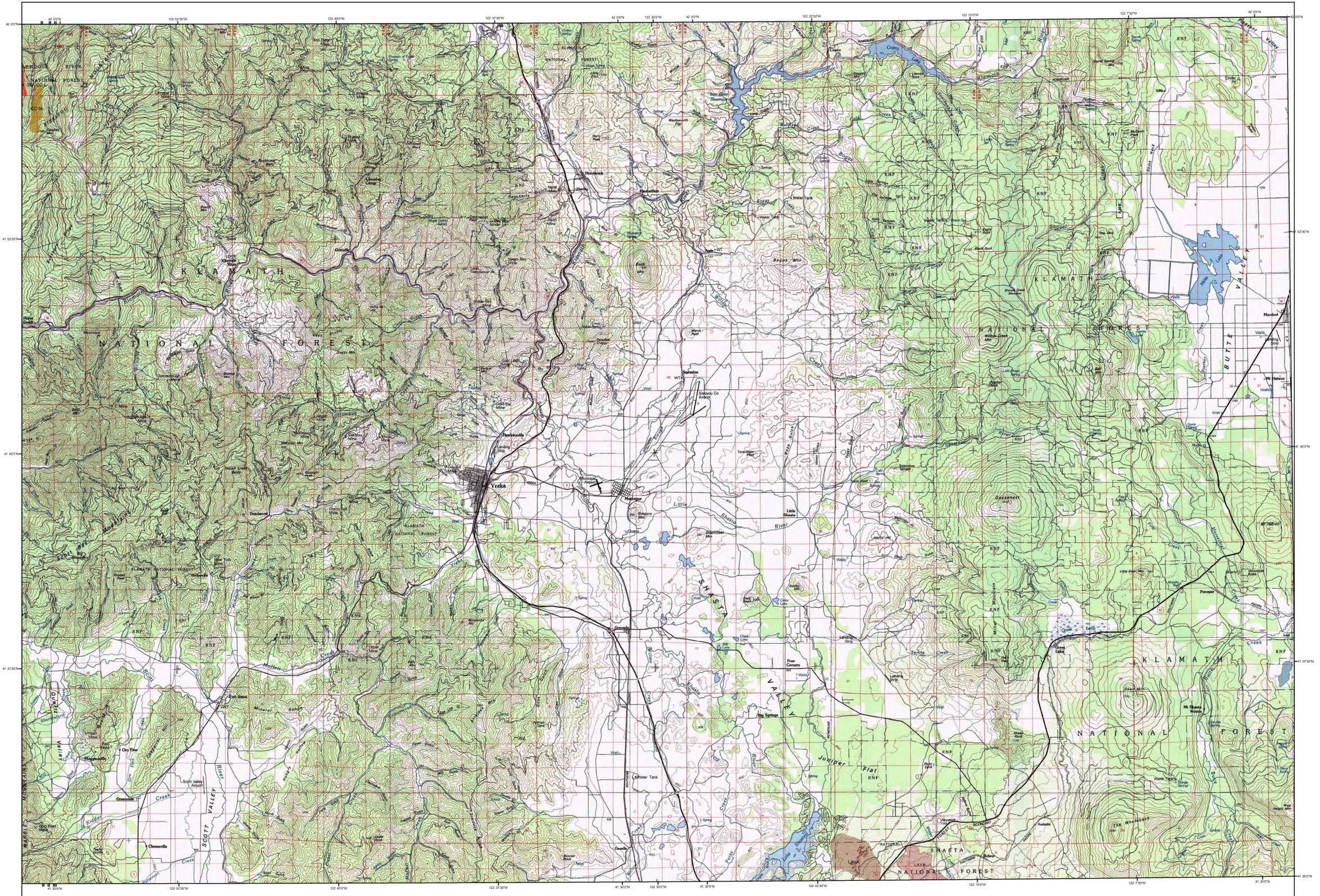


2010 Aerial Insect and Disease Survey

USGS 100K Quad: Yreka - E141122; 30



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	Meloid beetle	3	Spruce beetle
BP	Sugar pine tortrix	4	Fir engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bynum's bright Lophodermella	6	Mountain pine beetle
CH	Larch casebearer	6A	Mountain pine beetle
HL	Western hemlock looper	6B	Mountain pine beetle
LG	Green striped forest looper	6C	Mountain pine beetle
LL	Larch looper	6D	Mountain pine beetle
LS	Black pine leaf scale	6E	Mountain pine beetle
MD	Douglas fir budmoth	6F	Mountain pine beetle
ML	Larch budmoth	6G	Mountain pine beetle
MN	Douglas fir needle midge	6H	Mountain pine beetle
MS	Spruce budmoth	6I	Mountain pine beetle
ND	Needle miner	6J	Mountain pine beetle
NJ	Needle miner	6K	Mountain pine beetle
NK	Needle miner	6L	Mountain pine beetle
NL	Needle miner	6M	Mountain pine beetle
NM	Needle miner	6N	Mountain pine beetle
NP	Needle miner	6O	Mountain pine beetle
NS	Needle miner	6P	Mountain pine beetle
NT	Needle miner	6Q	Mountain pine beetle
NW	Needle miner	6R	Mountain pine beetle
OL	Western oak looper	6S	Mountain pine beetle
OP	Pine butterfly	6T	Mountain pine beetle
OC	Pine needle cast	6U	Mountain pine beetle
PH	Phantom hemlock looper	6V	Mountain pine beetle
PM	Pine moth	6W	Mountain pine beetle
PN	Pine needlehealth miner	6X	Mountain pine beetle
PS	Pine needle scale	6Y	Mountain pine beetle
RC	Needle cast	6Z	Mountain pine beetle
S	Sider mine	7	Larix sawfly
SA	Sawfly	8	Western pine beetle
SD	Sawfly	9	Western pine beetle
SE	Sawfly	10	Western pine beetle
SH	Sawfly	11	Western pine beetle
SI	Sawfly	12	Western pine beetle
SK	Sawfly	13	Western pine beetle
SL	Sawfly	14	Western pine beetle
SM	Sawfly	15	Western pine beetle
SN	Sawfly	16	Western pine beetle
SO	Sawfly	17	Western pine beetle
SP	Sawfly	18	Western pine beetle
SW	Sawfly	19	Western pine beetle
TA	Tent caterpillar	20	Western pine beetle
TC	Tent caterpillar	21	Western pine beetle
TD	Tent caterpillar	22	Western pine beetle
TE	Tent caterpillar	23	Western pine beetle
TF	Tent caterpillar	24	Western pine beetle
TG	Tent caterpillar	25	Western pine beetle
TH	Tent caterpillar	26	Western pine beetle
TI	Tent caterpillar	27	Western pine beetle
TJ	Tent caterpillar	28	Western pine beetle
TK	Tent caterpillar	29	Western pine beetle
TL	Tent caterpillar	30	Western pine beetle
TM	Tent caterpillar	31	Western pine beetle
TN	Tent caterpillar	32	Western pine beetle
TO	Tent caterpillar	33	Western pine beetle
TP	Tent caterpillar	34	Western pine beetle
TQ	Tent caterpillar	35	Western pine beetle
TR	Tent caterpillar	36	Western pine beetle
TS	Tent caterpillar	37	Western pine beetle
TT	Tent caterpillar	38	Western pine beetle
TU	Tent caterpillar	39	Western pine beetle
TV	Tent caterpillar	40	Western pine beetle
TW	Tent caterpillar	41	Western pine beetle
TX	Tent caterpillar	42	Western pine beetle
TY	Tent caterpillar	43	Western pine beetle
TZ	Tent caterpillar	44	Western pine beetle
UA	Tent caterpillar	45	Western pine beetle
UB	Tent caterpillar	46	Western pine beetle
UC	Tent caterpillar	47	Western pine beetle
UD	Tent caterpillar	48	Western pine beetle
UE	Tent caterpillar	49	Western pine beetle
UF	Tent caterpillar	50	Western pine beetle
UG	Tent caterpillar	51	Western pine beetle
UH	Tent caterpillar	52	Western pine beetle
UI	Tent caterpillar	53	Western pine beetle
UJ	Tent caterpillar	54	Western pine beetle
UK	Tent caterpillar	55	Western pine beetle
UL	Tent caterpillar	56	Western pine beetle
UM	Tent caterpillar	57	Western pine beetle
UN	Tent caterpillar	58	Western pine beetle
UO	Tent caterpillar	59	Western pine beetle
UP	Tent caterpillar	60	Western pine beetle
UQ	Tent caterpillar	61	Western pine beetle
UR	Tent caterpillar	62	Western pine beetle
US	Tent caterpillar	63	Western pine beetle
UT	Tent caterpillar	64	Western pine beetle
UU	Tent caterpillar	65	Western pine beetle
UV	Tent caterpillar	66	Western pine beetle
UW	Tent caterpillar	67	Western pine beetle
UX	Tent caterpillar	68	Western pine beetle
UY	Tent caterpillar	69	Western pine beetle
UZ	Tent caterpillar	70	Western pine beetle
VA	Tent caterpillar	71	Western pine beetle
VB	Tent caterpillar	72	Western pine beetle
VC	Tent caterpillar	73	Western pine beetle
VD	Tent caterpillar	74	Western pine beetle
VE	Tent caterpillar	75	Western pine beetle
VF	Tent caterpillar	76	Western pine beetle
VG	Tent caterpillar	77	Western pine beetle
VH	Tent caterpillar	78	Western pine beetle
VI	Tent caterpillar	79	Western pine beetle
VJ	Tent caterpillar	80	Western pine beetle
VK	Tent caterpillar	81	Western pine beetle
VL	Tent caterpillar	82	Western pine beetle
VM	Tent caterpillar	83	Western pine beetle
VN	Tent caterpillar	84	Western pine beetle
VO	Tent caterpillar	85	Western pine beetle
VP	Tent caterpillar	86	Western pine beetle
VQ	Tent caterpillar	87	Western pine beetle
VR	Tent caterpillar	88	Western pine beetle
VS	Tent caterpillar	89	Western pine beetle
VT	Tent caterpillar	90	Western pine beetle
VU	Tent caterpillar	91	Western pine beetle
VV	Tent caterpillar	92	Western pine beetle
VW	Tent caterpillar	93	Western pine beetle
VX	Tent caterpillar	94	Western pine beetle
VY	Tent caterpillar	95	Western pine beetle
VZ	Tent caterpillar	96	Western pine beetle
WA	Tent caterpillar	97	Western pine beetle
WB	Tent caterpillar	98	Western pine beetle
WC	Tent caterpillar	99	Western pine beetle
WD	Tent caterpillar	100	Western pine beetle
WE	Tent caterpillar	101	Western pine beetle
WF	Tent caterpillar	102	Western pine beetle
WG	Tent caterpillar	103	Western pine beetle
WH	Tent caterpillar	104	Western pine beetle
WI	Tent caterpillar	105	Western pine beetle
WJ	Tent caterpillar	106	Western pine beetle
WK	Tent caterpillar	107	Western pine beetle
WL	Tent caterpillar	108	Western pine beetle
WM	Tent caterpillar	109	Western pine beetle
WN	Tent caterpillar	110	Western pine beetle
WO	Tent caterpillar	111	Western pine beetle
WP	Tent caterpillar	112	Western pine beetle
WQ	Tent caterpillar	113	Western pine beetle
WR	Tent caterpillar	114	Western pine beetle
WS	Tent caterpillar	115	Western pine beetle
WT	Tent caterpillar	116	Western pine beetle
WU	Tent caterpillar	117	Western pine beetle
WV	Tent caterpillar	118	Western pine beetle
WW	Tent caterpillar	119	Western pine beetle
WX	Tent caterpillar	120	Western pine beetle
WY	Tent caterpillar	121	Western pine beetle
WZ	Tent caterpillar	122	Western pine beetle
XA	Tent caterpillar	123	Western pine beetle
XB	Tent caterpillar	124	Western pine beetle
XC	Tent caterpillar	125	Western pine beetle
XD	Tent caterpillar	126	Western pine beetle
XE	Tent caterpillar	127	Western pine beetle
XF	Tent caterpillar	128	Western pine beetle
XG	Tent caterpillar	129	Western pine beetle
XH	Tent caterpillar	130	Western pine beetle
XI	Tent caterpillar	131	Western pine beetle
XJ	Tent caterpillar	132	Western pine beetle
XK	Tent caterpillar	133	Western pine beetle
XL	Tent caterpillar	134	Western pine beetle
XM	Tent caterpillar	135	Western pine beetle
XN	Tent caterpillar	136	Western pine beetle
XO	Tent caterpillar	137	Western pine beetle
XP	Tent caterpillar	138	Western pine beetle
XQ	Tent caterpillar	139	Western pine beetle
XR	Tent caterpillar	140	Western pine beetle
XS	Tent caterpillar	141	Western pine beetle
XT	Tent caterpillar	142	Western pine beetle
XU	Tent caterpillar	143	Western pine beetle
XV	Tent caterpillar	144	Western pine beetle
XW	Tent caterpillar	145	Western pine beetle
XX	Tent caterpillar	146	Western pine beetle
XY	Tent caterpillar	147	Western pine beetle
XZ	Tent caterpillar	148	Western pine beetle
YA	Tent caterpillar	149	Western pine beetle
YB	Tent caterpillar	150	Western pine beetle
YC	Tent caterpillar	151	Western pine beetle
YD	Tent caterpillar	152	Western pine beetle
YE	Tent caterpillar	153	Western pine beetle
YF	Tent caterpillar	154	Western pine beetle
YG	Tent caterpillar	155	Western pine beetle
YH	Tent caterpillar	156	Western pine beetle
YI	Tent caterpillar	157	Western pine beetle
YJ	Tent caterpillar	158	Western pine beetle
YK	Tent caterpillar	159	Western pine beetle
YL	Tent caterpillar	160	Western pine beetle
YM	Tent caterpillar	161	Western pine beetle
YN	Tent caterpillar	162	Western pine beetle
YO	Tent caterpillar	163	Western pine beetle
YP	Tent caterpillar	164	Western pine beetle
YQ	Tent caterpillar	165	Western pine beetle
YR	Tent caterpillar	166	Western pine beetle
YS	Tent caterpillar	167	Western pine beetle
YT	Tent caterpillar	168	Western pine beetle
YU	Tent caterpillar	169	Western pine beetle
YV	Tent caterpillar	170	Western pine beetle
YW	Tent caterpillar	171	Western pine beetle
YX	Tent caterpillar	172	Western pine beetle
YY	Tent caterpillar	173	Western pine beetle
YZ	Tent caterpillar	174	Western pine beetle
ZA	Tent caterpillar	175	Western pine beetle
ZB	Tent caterpillar	176	Western pine beetle
ZC	Tent caterpillar	177	Western pine beetle
ZD	Tent caterpillar	178	Western pine beetle
ZE	Tent caterpillar	179	Western pine beetle
ZF	Tent caterpillar	180	Western pine beetle
ZG	Tent caterpillar	181	Western pine beetle
ZH	Tent caterpillar	182	Western pine beetle
ZI	Tent caterpillar	183	Western pine beetle
ZJ	Tent caterpillar	184	Western pine beetle
ZK	Tent caterpillar	185	Western pine beetle
ZL	Tent caterpillar	186	Western pine beetle
ZM	Tent caterpillar	187	Western pine beetle
ZN	Tent caterpillar	188	Western pine beetle
ZO	Tent caterpillar	189	Western pine beetle
ZP	Tent caterpillar	190	Western pine beetle
ZQ	Tent caterpillar	191	Western pine beetle
ZR	Tent caterpillar	192	Western pine beetle
ZS	Tent caterpillar	193	Western pine beetle
ZT	Tent caterpillar	194	Western pine beetle
ZU	Tent caterpillar	195	Western pine beetle
ZV	Tent caterpillar	196	Western pine beetle
ZW	Tent caterpillar	197	Western pine beetle
ZX	Tent caterpillar	198	Western pine beetle
ZY	Tent caterpillar	199	Western pine beetle
ZZ	Tent caterpillar	200	Western pine beetle

USGS 100K Quad: Yreka - E141122; 30
2010 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: January 5, 2011

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- Area Not Flown

Vicinity Map

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/rn/rfid/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
 Forest Health Protection (FHP) and Oregon Department of Forestry (ODF) strive to maintain an accurate Aerial Detection Survey (ADS) Dataset, 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/ads/accuracyassessment.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 this data in maps and publications.