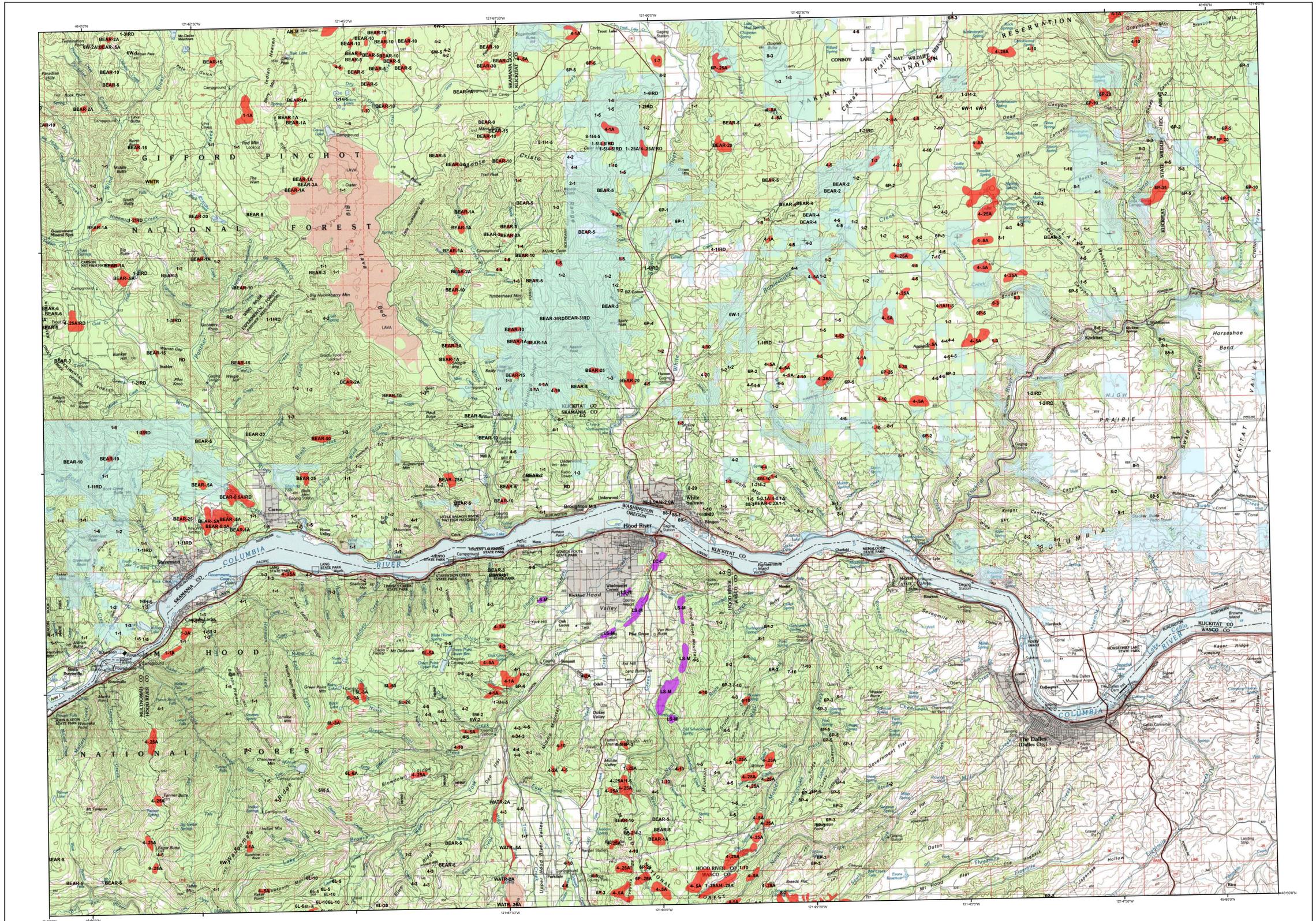


2007 Aerial Insect and Disease Survey Hood River - USGS 100K Quad A146121; 4G



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Sitka spruce	1	Douglas fir beetle
BB	Western blackheaded budworm	2	Douglas fir spruce girdler
BM	Modic budworm	3	Spruce beetle
BP	Sugar pine tortrix	4	Fire engine
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Burns's light/Lophodermella	6	Mountain pine beetle
CH	Larch	6J	Mountain pine beetle
HL	Western hemlock looper	6K	Mountain pine beetle
LD	Green striped forest looper	6L	Mountain pine beetle
LG	Larch looper	6M	Mountain pine beetle
LS	Black pine needle scale	6N	Mountain pine beetle
ML	Larch budmoth	6O	Mountain pine beetle
MS	Douglas fir needle midge	6P	Mountain pine beetle
NU	Needle miner	6Q	Mountain pine beetle
NV	Needle miner	6R	Mountain pine beetle
NW	Needle miner	6S	Mountain pine beetle
NT	Needle miner	6T	Mountain pine beetle
OB	Western oak looper	6U	Mountain pine beetle
PC	Pine butterfly	6V	Mountain pine beetle
PH	Phantom hemlock looper	6W	Mountain pine beetle
PI	Pine needle scale	6X	Mountain pine beetle
PN	Pine needle scale	6Y	Mountain pine beetle
PS	Pine needle scale	6Z	Mountain pine beetle
RC	Needle cast	7	Uls ssp.
SA	Sitka spruce	8	Pondus pine beetle
SD	Sitka spruce	9	Pondus pine beetle
SH	Sitka spruce	10	Pondus pine beetle
SK	Sitka spruce	11	Pondus pine beetle
SL	Sitka spruce	12	Pondus pine beetle
SM	Sitka spruce	13	Pondus pine beetle
SN	Sitka spruce	14	Pondus pine beetle
SP	Sitka spruce	15	Pondus pine beetle
SW	Sitka spruce	16	Pondus pine beetle
TA	Tent caterpillar	17	Pondus pine beetle
TC	Tent caterpillar	18	Pondus pine beetle
TD	Tent caterpillar	19	Pondus pine beetle
TE	Tent caterpillar	20	Pondus pine beetle
TF	Tent caterpillar	21	Pondus pine beetle
TG	Tent caterpillar	22	Pondus pine beetle
TH	Tent caterpillar	23	Pondus pine beetle
TI	Tent caterpillar	24	Pondus pine beetle
TJ	Tent caterpillar	25	Pondus pine beetle
TK	Tent caterpillar	26	Pondus pine beetle
TL	Tent caterpillar	27	Pondus pine beetle
TM	Tent caterpillar	28	Pondus pine beetle
TN	Tent caterpillar	29	Pondus pine beetle
TO	Tent caterpillar	30	Pondus pine beetle
TP	Tent caterpillar	31	Pondus pine beetle
TQ	Tent caterpillar	32	Pondus pine beetle
TR	Tent caterpillar	33	Pondus pine beetle
TS	Tent caterpillar	34	Pondus pine beetle
TT	Tent caterpillar	35	Pondus pine beetle
TU	Tent caterpillar	36	Pondus pine beetle
TV	Tent caterpillar	37	Pondus pine beetle
TW	Tent caterpillar	38	Pondus pine beetle
TX	Tent caterpillar	39	Pondus pine beetle
TY	Tent caterpillar	40	Pondus pine beetle
TZ	Tent caterpillar	41	Pondus pine beetle
AA	Tent caterpillar	42	Pondus pine beetle
AB	Tent caterpillar	43	Pondus pine beetle
AC	Tent caterpillar	44	Pondus pine beetle
AD	Tent caterpillar	45	Pondus pine beetle
AE	Tent caterpillar	46	Pondus pine beetle
AF	Tent caterpillar	47	Pondus pine beetle
AG	Tent caterpillar	48	Pondus pine beetle
AH	Tent caterpillar	49	Pondus pine beetle
AI	Tent caterpillar	50	Pondus pine beetle
AJ	Tent caterpillar	51	Pondus pine beetle
AK	Tent caterpillar	52	Pondus pine beetle
AL	Tent caterpillar	53	Pondus pine beetle
AM	Tent caterpillar	54	Pondus pine beetle
AN	Tent caterpillar	55	Pondus pine beetle
AO	Tent caterpillar	56	Pondus pine beetle
AP	Tent caterpillar	57	Pondus pine beetle
AQ	Tent caterpillar	58	Pondus pine beetle
AR	Tent caterpillar	59	Pondus pine beetle
AS	Tent caterpillar	60	Pondus pine beetle
AT	Tent caterpillar	61	Pondus pine beetle
AU	Tent caterpillar	62	Pondus pine beetle
AV	Tent caterpillar	63	Pondus pine beetle
AW	Tent caterpillar	64	Pondus pine beetle
AX	Tent caterpillar	65	Pondus pine beetle
AY	Tent caterpillar	66	Pondus pine beetle
AZ	Tent caterpillar	67	Pondus pine beetle
BA	Tent caterpillar	68	Pondus pine beetle
BB	Tent caterpillar	69	Pondus pine beetle
BC	Tent caterpillar	70	Pondus pine beetle
BD	Tent caterpillar	71	Pondus pine beetle
BE	Tent caterpillar	72	Pondus pine beetle
BF	Tent caterpillar	73	Pondus pine beetle
BG	Tent caterpillar	74	Pondus pine beetle
BH	Tent caterpillar	75	Pondus pine beetle
BI	Tent caterpillar	76	Pondus pine beetle
BJ	Tent caterpillar	77	Pondus pine beetle
BK	Tent caterpillar	78	Pondus pine beetle
BL	Tent caterpillar	79	Pondus pine beetle
BM	Tent caterpillar	80	Pondus pine beetle
BN	Tent caterpillar	81	Pondus pine beetle
BO	Tent caterpillar	82	Pondus pine beetle
BP	Tent caterpillar	83	Pondus pine beetle
BQ	Tent caterpillar	84	Pondus pine beetle
BR	Tent caterpillar	85	Pondus pine beetle
BS	Tent caterpillar	86	Pondus pine beetle
BT	Tent caterpillar	87	Pondus pine beetle
BU	Tent caterpillar	88	Pondus pine beetle
BV	Tent caterpillar	89	Pondus pine beetle
BW	Tent caterpillar	90	Pondus pine beetle
BX	Tent caterpillar	91	Pondus pine beetle
BY	Tent caterpillar	92	Pondus pine beetle
BZ	Tent caterpillar	93	Pondus pine beetle
CA	Tent caterpillar	94	Pondus pine beetle
CB	Tent caterpillar	95	Pondus pine beetle
CC	Tent caterpillar	96	Pondus pine beetle
CD	Tent caterpillar	97	Pondus pine beetle
CE	Tent caterpillar	98	Pondus pine beetle
CF	Tent caterpillar	99	Pondus pine beetle
CG	Tent caterpillar	100	Pondus pine beetle
CH	Tent caterpillar	101	Pondus pine beetle
CI	Tent caterpillar	102	Pondus pine beetle
CJ	Tent caterpillar	103	Pondus pine beetle
CK	Tent caterpillar	104	Pondus pine beetle
CL	Tent caterpillar	105	Pondus pine beetle
CM	Tent caterpillar	106	Pondus pine beetle
CN	Tent caterpillar	107	Pondus pine beetle
CO	Tent caterpillar	108	Pondus pine beetle
CP	Tent caterpillar	109	Pondus pine beetle
CQ	Tent caterpillar	110	Pondus pine beetle
CR	Tent caterpillar	111	Pondus pine beetle
CS	Tent caterpillar	112	Pondus pine beetle
CT	Tent caterpillar	113	Pondus pine beetle
CU	Tent caterpillar	114	Pondus pine beetle
CV	Tent caterpillar	115	Pondus pine beetle
CW	Tent caterpillar	116	Pondus pine beetle
CX	Tent caterpillar	117	Pondus pine beetle
CY	Tent caterpillar	118	Pondus pine beetle
CZ	Tent caterpillar	119	Pondus pine beetle
DA	Tent caterpillar	120	Pondus pine beetle
DB	Tent caterpillar	121	Pondus pine beetle
DC	Tent caterpillar	122	Pondus pine beetle
DD	Tent caterpillar	123	Pondus pine beetle
DE	Tent caterpillar	124	Pondus pine beetle
DF	Tent caterpillar	125	Pondus pine beetle
DG	Tent caterpillar	126	Pondus pine beetle
DH	Tent caterpillar	127	Pondus pine beetle
DI	Tent caterpillar	128	Pondus pine beetle
DJ	Tent caterpillar	129	Pondus pine beetle
DK	Tent caterpillar	130	Pondus pine beetle
DL	Tent caterpillar	131	Pondus pine beetle
DM	Tent caterpillar	132	Pondus pine beetle
DN	Tent caterpillar	133	Pondus pine beetle
DO	Tent caterpillar	134	Pondus pine beetle
DP	Tent caterpillar	135	Pondus pine beetle
DQ	Tent caterpillar	136	Pondus pine beetle
DR	Tent caterpillar	137	Pondus pine beetle
DS	Tent caterpillar	138	Pondus pine beetle
DT	Tent caterpillar	139	Pondus pine beetle
DU	Tent caterpillar	140	Pondus pine beetle
DV	Tent caterpillar	141	Pondus pine beetle
DW	Tent caterpillar	142	Pondus pine beetle
DX	Tent caterpillar	143	Pondus pine beetle
DY	Tent caterpillar	144	Pondus pine beetle
DA	Tent caterpillar	145	Pondus pine beetle
DB	Tent caterpillar	146	Pondus pine beetle
DC	Tent caterpillar	147	Pondus pine beetle
DD	Tent caterpillar	148	Pondus pine beetle
DE	Tent caterpillar	149	Pondus pine beetle
DF	Tent caterpillar	150	Pondus pine beetle
DF	Tent caterpillar	151	Pondus pine beetle
DF	Tent caterpillar	152	Pondus pine beetle
DF	Tent caterpillar	153	Pondus pine beetle
DF	Tent caterpillar	154	Pondus pine beetle
DF	Tent caterpillar	155	Pondus pine beetle
DF	Tent caterpillar	156	Pondus pine beetle
DF	Tent caterpillar	157	Pondus pine beetle
DF	Tent caterpillar	158	Pondus pine beetle
DF	Tent caterpillar	159	Pondus pine beetle
DF	Tent caterpillar	160	Pondus pine beetle
DF	Tent caterpillar	161	Pondus pine beetle
DF	Tent caterpillar	162	Pondus pine beetle
DF	Tent caterpillar	163	Pondus pine beetle
DF	Tent caterpillar	164	Pondus pine beetle
DF	Tent caterpillar	165	Pondus pine beetle
DF	Tent caterpillar	166	Pondus pine beetle
DF	Tent caterpillar	167	Pondus pine beetle
DF	Tent caterpillar	168	Pondus pine beetle
DF	Tent caterpillar	169	Pondus pine beetle
DF	Tent caterpillar	170	Pondus pine beetle
DF	Tent caterpillar	171	Pondus pine beetle
DF	Tent caterpillar	172	Pondus pine beetle
DF	Tent caterpillar	173	Pondus pine beetle
DF	Tent caterpillar	174	Pondus pine beetle
DF	Tent caterpillar	175	Pondus pine beetle
DF	Tent caterpillar	176	Pondus pine beetle
DF	Tent caterpillar	177	Pondus pine beetle
DF	Tent caterpillar	178	Pondus pine beetle
DF	Tent caterpillar	179	Pondus pine beetle
DF	Tent caterpillar	180	Pondus pine beetle
DF	Tent caterpillar	181	Pondus pine beetle
DF	Tent caterpillar	182	Pondus pine beetle
DF	Tent caterpillar	183	Pondus pine beetle
DF	Tent caterpillar	184	Pondus pine beetle
DF	Tent caterpillar	185	Pondus pine beetle
DF	Tent caterpillar	186	Pondus pine beetle
DF	Tent caterpillar	187	Pondus pine beetle
DF	Tent caterpillar	188	Pondus pine beetle
DF	Tent caterpillar	189	Pondus pine beetle
DF	Tent caterpillar	190	Pondus pine beetle
DF	Tent caterpillar	191	Pondus pine beetle
DF	Tent caterpillar	192	Pondus pine beetle
DF	Tent caterpillar	193	Pondus pine beetle
DF	Tent caterpillar	194	Pondus pine beetle
DF	Tent caterpillar	195	Pondus pine beetle
DF	Tent caterpillar	196	Pondus pine beetle
DF	Tent caterpillar	197	Pondus pine beetle
DF	Tent caterpillar	198	Pondus pine beetle
DF	Tent caterpillar	199	Pondus pine beetle
DF	Tent caterpillar	200	Pondus pine beetle

USGS 100K Quad - Hood River; A146121; 4G
2007 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: November 27, 2007

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- WadNR Managed Lands

Source: Washington Dept. of Natural Resources

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/fid/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, the Washington Department of Natural Resources 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.

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Resource Protection
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1111 Washington St. SE
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OR --

Oregon Department of Forestry
Forest Health Management
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Salem, OR 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.