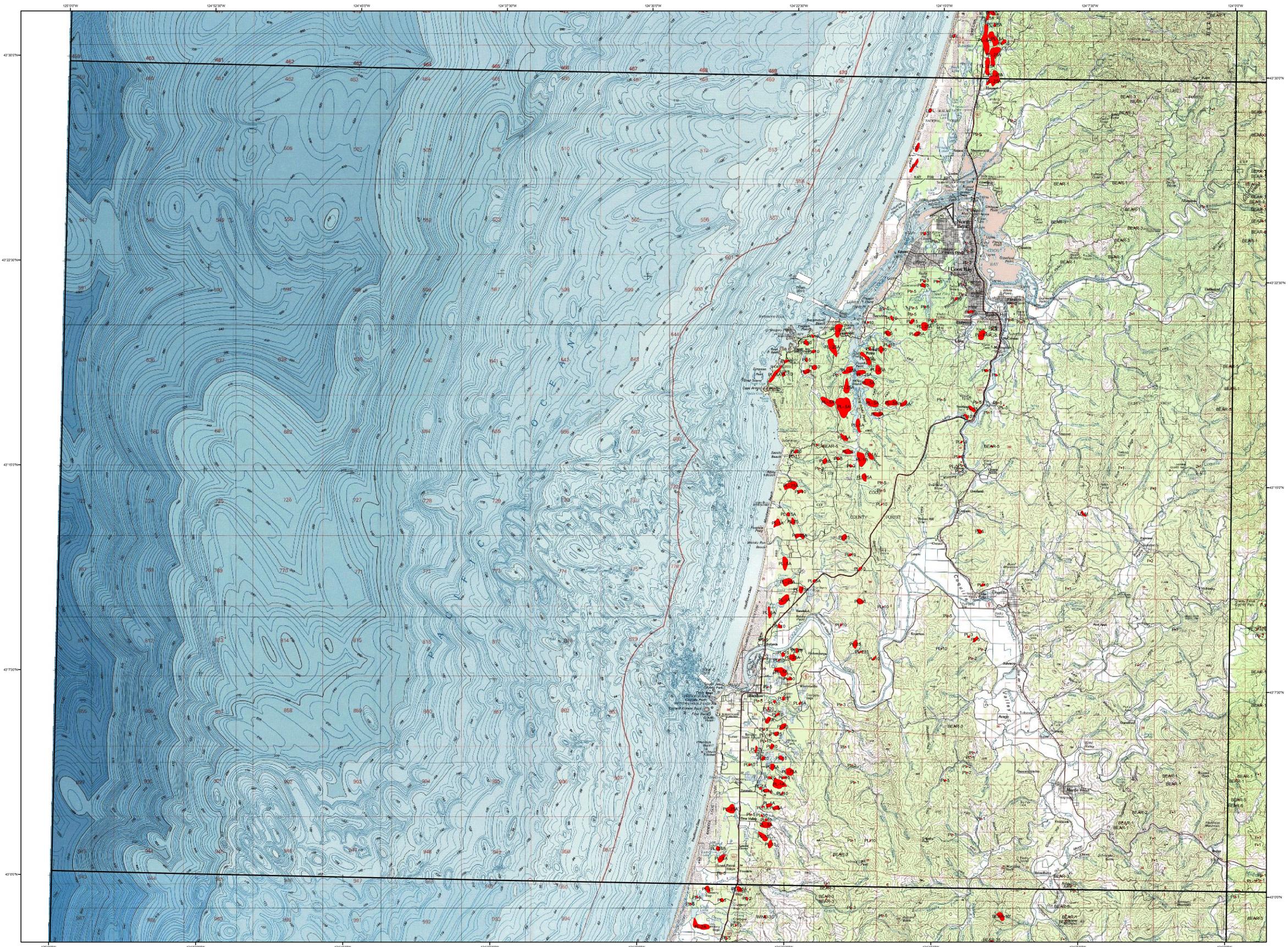


# \*\*Draft\*\* 2008 Aerial Insect and Disease Survey \*\*Draft\*\* USGS 100K Quad: Coos Bay 43124-A1



## Legend (For all Possible Agents)

Defoliating Agents			Mortality Agents			Other Damaging Agents		
Code	Damaging Agent	Primary Host	Code	Damaging Agent	Primary Host	Code	Damaging Agent	Primary Host
AS	Spruce aphid	Sitka spruce	1	Douglas fir beetle	Douglas fir	AB	Balsam woolly adelgid	Tree fir
BS	Western backheaded budworm	Hemlock, spruce, tree fir	2	Douglas fir engraver	Douglas fir	AC	Colony spruce gall adelgid	Spruce, Douglas fir
BB	Modoc budworm	White fir	3	Spruce beetle	Spruce	AD	Leaf discoloration	Maple
BC	Sugar pine borer	Lodgepole, ponderosa pine	4	Fir engraver	Spruce	AE	Buller's oak	Maple, Douglas fir
BD	Western spruce sawfly	Tree fir, Douglas fir, spruce	5	Mountain pine beetle	Whitebark pine	AF	Drying hemlock	Hemlock
BE	Byrum's light/elliptical sawfly	Ponderosa pine	6A	Mountain pine beetle	Jeffrey pine	AG	Chrysobothris sawyer	Fir
BF	Western hemlock looper	Western hemlock	6B	Mountain pine beetle	Knobcone pine	AH	Fir	Ponderosa pine
CG	Larch looper	Western larch	6C	Mountain pine beetle	Lodgepole pine	AI	Gouty pitch midge	All species
CH	Western hemlock looper	Douglas fir, Western hemlock	6D	Mountain pine beetle	Ponderosa pine	AJ	Hardwood decline	Hardwoods
CI	Green striped forest looper	Douglas fir	6E	Mountain pine beetle	Sugar pine	AK	Aspen root borer	Aspen
CL	Black pine needle scale	Ponderosa pine	6F	Mountain pine beetle	Western white pine	AL	No damage detected	All species
DM	Douglas fir bark beetle	Douglas fir	6G	Mountain pine beetle	Ponderosa, lodgepole pine	AM	Pacific madrone	Madrone
DL	Larch looper	Western larch	6H	Mountain pine beetle	Jeffrey pine	AN	Leaf fall in poplars	All species
DS	Douglas fir needle midge	Douglas fir	6I	Mountain pine beetle	Pole-sit/ponderosa pine	AO	Red bark	All species
DT	Spruce budworm	Douglas fir	6J	Mountain pine beetle	Shaw's tree fir	AP	UNKD	Unknown defoliation
DU	Needle miner	Jeffrey pine	6K	Mountain pine beetle	Black damage	AQ	UNKD	Unknown mortality
EV	Needle miner	Knobcone pine	6L	Mountain pine beetle	Farbanded wood borer	AR	UNKD	Water damage
EW	Needle miner	Lodgepole pine	6M	Mountain pine beetle	Black stain root disease	AS	UNKD	Windthrow
EX	Needle miner	Conifer	6N	Mountain pine beetle	Pink Olfert cedar root disease	AT	UNKD	Winter Damage
FY	Needle miner	Ponderosa pine	6O	Mountain pine beetle	Root disease	AW	UNKD	All Species
GA	Needle miner	Sugar pine	6P	Mountain pine beetle	Water damage	AX	UNKD	All Species
GB	Needle miner	Tree fir	6Q	Mountain pine beetle	Water damage	AY	UNKD	All Species
GC	Needle miner	Western white pine	6R	Mountain pine beetle	Water damage	AZ	UNKD	All Species
GD	Needle miner	White fir	6S	Mountain pine beetle	Water damage	BA	UNKD	All Species
GE	Needle miner	Ponderosa pine	6T	Mountain pine beetle	Water damage	BB	UNKD	All Species
GF	Needle miner	Jeffrey pine	6U	Mountain pine beetle	Water damage	BC	UNKD	All Species
GG	Needle miner	Knobcone pine	6V	Mountain pine beetle	Water damage	BD	UNKD	All Species
GH	Needle miner	Lodgepole pine	6W	Mountain pine beetle	Water damage	BE	UNKD	All Species
GI	Needle miner	Conifer	6X	Mountain pine beetle	Water damage	BF	UNKD	All Species
GJ	Needle miner	Ponderosa pine	6Y	Mountain pine beetle	Water damage	BG	UNKD	All Species
GK	Needle miner	Sugar pine	6Z	Mountain pine beetle	Water damage	BH	UNKD	All Species
GL	Needle miner	Tree fir	7	Western white pine	Western white pine	BI	UNKD	All Species
GM	Needle miner	White fir	8	Ponderosa pine	Ponderosa pine	BJ	UNKD	All Species
GN	Needle miner	Jeffrey pine	9	Phantom hemlock looper	Hemlock, Douglas fir	BK	UNKD	All Species
GO	Needle miner	Knobcone pine	10	Phantom hemlock looper	Ponderosa, Jeffrey pines	BL	UNKD	All Species
GP	Needle miner	Lodgepole pine	11	Phantom hemlock looper	Ponderosa, Jeffrey pines	BM	UNKD	All Species
GQ	Needle miner	Conifer	12	Phantom hemlock looper	Ponderosa, Jeffrey pines	BN	UNKD	All Species
GR	Needle miner	Ponderosa pine	13	Phantom hemlock looper	Ponderosa, Jeffrey pines	BO	UNKD	All Species
GS	Needle miner	Sugar pine	14	Phantom hemlock looper	Ponderosa, Jeffrey pines	BP	UNKD	All Species
GT	Needle miner	Tree fir	15	Phantom hemlock looper	Ponderosa, Jeffrey pines	BQ	UNKD	All Species
GU	Needle miner	Western white pine	16	Phantom hemlock looper	Ponderosa, Jeffrey pines	BR	UNKD	All Species
GV	Needle miner	White fir	17	Phantom hemlock looper	Ponderosa, Jeffrey pines	BS	UNKD	All Species
GW	Needle miner	Ponderosa pine	18	Phantom hemlock looper	Ponderosa, Jeffrey pines	BT	UNKD	All Species
GX	Needle miner	Jeffrey pine	19	Phantom hemlock looper	Ponderosa, Jeffrey pines	BU	UNKD	All Species
GX	Needle miner	Knobcone pine	20	Phantom hemlock looper	Ponderosa, Jeffrey pines	BV	UNKD	All Species
GZ	Needle miner	Lodgepole pine	21	Phantom hemlock looper	Ponderosa, Jeffrey pines	BW	UNKD	All Species
HA	Needle miner	Conifer	22	Phantom hemlock looper	Ponderosa, Jeffrey pines	BX	UNKD	All Species
HB	Needle miner	Ponderosa pine	23	Phantom hemlock looper	Ponderosa, Jeffrey pines	BY	UNKD	All Species
HC	Needle miner	Sugar pine	24	Phantom hemlock looper	Ponderosa, Jeffrey pines	BZ	UNKD	All Species
HD	Needle miner	Tree fir	25	Phantom hemlock looper	Ponderosa, Jeffrey pines	CA	UNKD	All Species
HE	Needle miner	White fir	26	Phantom hemlock looper	Ponderosa, Jeffrey pines	CB	UNKD	All Species
HF	Needle miner	Ponderosa pine	27	Phantom hemlock looper	Ponderosa, Jeffrey pines	CC	UNKD	All Species
HG	Needle miner	Jeffrey pine	28	Phantom hemlock looper	Ponderosa, Jeffrey pines	CD	UNKD	All Species
HH	Needle miner	Knobcone pine	29	Phantom hemlock looper	Ponderosa, Jeffrey pines	CE	UNKD	All Species
HI	Needle miner	Lodgepole pine	30	Phantom hemlock looper	Ponderosa, Jeffrey pines	CF	UNKD	All Species
HJ	Needle miner	Conifer	31	Phantom hemlock looper	Ponderosa, Jeffrey pines	CG	UNKD	All Species
HK	Needle miner	Ponderosa pine	32	Phantom hemlock looper	Ponderosa, Jeffrey pines	CH	UNKD	All Species
HL	Needle miner	Sugar pine	33	Phantom hemlock looper	Ponderosa, Jeffrey pines	CI	UNKD	All Species
HM	Needle miner	Tree fir	34	Phantom hemlock looper	Ponderosa, Jeffrey pines	CJ	UNKD	All Species
HN	Needle miner	White fir	35	Phantom hemlock looper	Ponderosa, Jeffrey pines	CK	UNKD	All Species
HO	Needle miner	Ponderosa pine	36	Phantom hemlock looper	Ponderosa, Jeffrey pines	CL	UNKD	All Species
HP	Needle miner	Jeffrey pine	37	Phantom hemlock looper	Ponderosa, Jeffrey pines	CM	UNKD	All Species
HQ	Needle miner	Knobcone pine	38	Phantom hemlock looper	Ponderosa, Jeffrey pines	CN	UNKD	All Species
HR	Needle miner	Lodgepole pine	39	Phantom hemlock looper	Ponderosa, Jeffrey pines	CO	UNKD	All Species
HS	Needle miner	Conifer	40	Phantom hemlock looper	Ponderosa, Jeffrey pines	CP	UNKD	All Species
HT	Needle miner	Ponderosa pine	41	Phantom hemlock looper	Ponderosa, Jeffrey pines	CQ	UNKD	All Species
HU	Needle miner	Sugar pine	42	Phantom hemlock looper	Ponderosa, Jeffrey pines	CR	UNKD	All Species
HV	Needle miner	Tree fir	43	Phantom hemlock looper	Ponderosa, Jeffrey pines	CS	UNKD	All Species
HW	Needle miner	White fir	44	Phantom hemlock looper	Ponderosa, Jeffrey pines	CT	UNKD	All Species
HX	Needle miner	Ponderosa pine	45	Phantom hemlock looper	Ponderosa, Jeffrey pines	CU	UNKD	All Species
HY	Needle miner	Jeffrey pine	46	Phantom hemlock looper	Ponderosa, Jeffrey pines	CV	UNKD	All Species
HZ	Needle miner	Knobcone pine	47	Phantom hemlock looper	Ponderosa, Jeffrey pines	CW	UNKD	All Species
IA	Needle miner	Lodgepole pine	48	Phantom hemlock looper	Ponderosa, Jeffrey pines	CX	UNKD	All Species
IB	Needle miner	Conifer	49	Phantom hemlock looper	Ponderosa, Jeffrey pines	CY	UNKD	All Species
IC	Needle miner	Ponderosa pine	50	Phantom hemlock looper	Ponderosa, Jeffrey pines	CZ	UNKD	All Species
ID	Needle miner	Sugar pine	51	Phantom hemlock looper	Ponderosa, Jeffrey pines	DA	UNKD	All Species
IE	Needle miner	Tree fir	52	Phantom hemlock looper	Ponderosa, Jeffrey pines	DB	UNKD	All Species
IF	Needle miner	White fir	53	Phantom hemlock looper	Ponderosa, Jeffrey pines	DC	UNKD	All Species
IG	Needle miner	Ponderosa pine	54	Phantom hemlock looper	Ponderosa, Jeffrey pines	DD	UNKD	All Species
IH	Needle miner	Jeffrey pine	55	Phantom hemlock looper	Ponderosa, Jeffrey pines	DE	UNKD	All Species
II	Needle miner	Knobcone pine	56	Phantom hemlock looper	Ponderosa, Jeffrey pines	DF	UNKD	All Species
IJ	Needle miner	Lodgepole pine	57	Phantom hemlock looper	Ponderosa, Jeffrey pines	DG	UNKD	All Species
IK	Needle miner	Conifer	58	Phantom hemlock looper	Ponderosa, Jeffrey pines	DH	UNKD	All Species
IL	Needle miner	Ponderosa pine	59	Phantom hemlock looper	Ponderosa, Jeffrey pines	DI	UNKD	All Species
IM	Needle miner	Sugar pine	60	Phantom hemlock looper	Ponderosa, Jeffrey pines	DJ	UNKD	All Species
IN	Needle miner	Tree fir	61	Phantom hemlock looper	Ponderosa, Jeffrey pines	DK	UNKD	All Species
IO	Needle miner	White fir	62	Phantom hemlock looper	Ponderosa, Jeffrey pines	DL	UNKD	All Species
IP	Needle miner	Ponderosa pine	63	Phantom hemlock looper	Ponderosa, Jeffrey pines	DM	UNKD	All Species
IQ	Needle miner	Jeffrey pine	64	Phantom hemlock looper	Ponderosa, Jeffrey pines	DN	UNKD	All Species
IR	Needle miner	Knobcone pine	65	Phantom hemlock looper	Ponderosa, Jeffrey pines	DO	UNKD	All Species
IS	Needle miner	Lodgepole pine	66	Phantom hemlock looper	Ponderosa, Jeffrey pines	DP	UNKD	All Species
IT	Needle miner	Conifer	67	Phantom hemlock looper	Ponderosa, Jeffrey pines	DQ	UNKD	All Species
IU	Needle miner	Ponderosa pine	68	Phantom hemlock looper	Ponderosa, Jeffrey pines	DR	UNKD	All Species
IV	Needle miner	Sugar pine	69	Phantom hemlock looper	Ponderosa, Jeffrey pines	DS	UNKD	All Species
IW	Needle miner	Tree fir	70	Phantom hemlock looper	Ponderosa, Jeffrey pines	DT	UNKD	All Species
IX	Needle miner	White fir	71	Phantom hemlock looper	Ponderosa, Jeffrey pines	DU	UNKD	All Species
IY	Needle miner	Ponderosa pine	72	Phantom hemlock looper	Ponderosa, Jeffrey pines	DV	UNKD	All Species
IZ	Needle miner	Jeffrey pine	73	Phantom hemlock looper	Ponderosa, Jeffrey pines	DW	UNKD	All Species
JA	Needle miner	Knobcone pine	74	Phantom hemlock looper	Ponderosa, Jeffrey pines	DX	UNKD	All Species
JB	Needle miner	Lodgepole pine	75	Phantom hemlock looper	Ponderosa, Jeffrey pines	DY	UNKD	All Species
JC	Needle miner	Conifer	76	Phantom hemlock looper	Ponderosa, Jeffrey pines	DZ	UNKD	All Species
JD	Needle miner	Ponderosa pine	77	Phantom hemlock looper	Ponderosa, Jeffrey pines	EA	UNKD	All Species
JE	Needle miner	Sugar pine	78	Phantom hemlock looper	Ponderosa, Jeffrey pines	EB	UNKD	All Species
JF	Needle miner	Tree fir	79	Phantom hemlock looper	Ponderosa, Jeffrey pines	EC	UNKD	All Species
JG	Needle miner	White fir	80	Phantom hemlock looper	Ponderosa, Jeffrey pines	ED	UNKD	All Species
JH	Needle miner	Ponderosa pine	81	Phantom hemlock looper	Ponderosa, Jeffrey pines	EE	UNKD	All Species
JI	Needle miner	Jeffrey pine	82	Phantom hemlock looper	Ponderosa, Jeffrey pines	EF	UNKD	All Species
JJ	Needle miner	Knobcone pine	83	Phantom hemlock looper	Ponderosa, Jeffrey pines	EG	UNKD	All Species
JK	Needle miner	Lodgepole pine	84	Phantom hemlock looper	Ponderosa, Jeffrey pines	EH	UNKD	All Species
JL	Needle miner	Conifer	85	Phantom hemlock looper	Ponderosa, Jeffrey pines	EI	UNKD	All Species
JM	Needle miner	Ponderosa pine	86	Phantom hemlock looper	Ponderosa, Jeffrey pines	EJ	UNKD	All Species
JN	Needle miner	Sugar pine	87	Phantom hemlock looper	Ponderosa, Jeffrey pines	EK	UNKD	All Species
JO	Needle miner	Tree fir	88	Phantom hemlock looper	Ponderosa, Jeffrey pines	EL	UNKD	All Species
JP	Needle miner	White fir	89	Phantom hemlock looper	Ponderosa, Jeffrey pines	EM	UNKD	All Species
JQ	Needle miner	Ponderosa pine	90	Phantom hemlock looper	Ponderosa, Jeffrey pines	EN	UNKD	All Species
JR	Needle miner	Jeffrey pine	91	Phantom hemlock looper	Ponderosa, Jeffrey pines	EO	UNKD	All Species
JS	Needle miner	Knobcone pine	92	Phantom hemlock looper	Ponderosa, Jeffrey pines	EP	UNKD	All Species
JT	Needle miner	Lodgepole pine	93	Phantom hemlock looper	Ponderosa, Jeffrey pines	EQ	UNKD	All Species
JU	Needle miner	Conifer	94	Phantom hemlock looper	Ponderosa, Jeffrey pines	ER	UNKD	All Species
JV	Needle miner	Ponderosa pine	95	Phantom hemlock looper	Ponderosa, Jeffrey pines	ES	UNKD	All Species
JW	Needle miner	Sugar pine	96	Phantom hemlock looper	Ponderosa, Jeffrey pines	ET	UNKD	All Species
JX	Needle miner	Tree fir	97	Phantom hemlock looper	Ponderosa, Jeffrey pines	EU	UNKD	All Species
JY	Needle miner	White fir	98	Phantom hemlock looper	Ponderosa, Jeffrey pines	EV	UNKD	All Species
JZ	Needle miner	Ponderosa pine	99	Phantom hemlock looper	Ponderosa, Jeffrey pines	EW	UNKD	All Species
KA	Needle miner	Jeffrey pine	100	Phantom hemlock looper	Ponderosa, Jeffrey pines	EX	UNKD	All Species
KB	Needle miner	Knobcone pine	101	Phantom hemlock looper	Ponderosa, Jeffrey pines	EY	UNKD	All Species
KC	Needle miner	Lodgepole pine	102	Phantom hemlock looper	Ponderosa, Jeffrey pines	EZ	UNKD	All Species
KD	Needle miner	Conifer	103	Phantom hemlock looper	Ponderosa, Jeffrey pines	FA	UNKD	All Species
KE	Needle miner	Ponderosa pine	104	Phantom hemlock looper	Ponderosa, Jeffrey pines	FB	UNKD	All Species
KF	Needle miner	Sugar pine	105	Phantom hemlock looper	Ponderosa, Jeffrey pines	FC	UNKD	All Species
KG	Needle miner	Tree fir	106	Phantom hemlock looper	Ponderosa, Jeffrey pines	FD	UNKD	All Species
KH	Needle miner	White fir	107	Phantom hemlock looper	Ponderosa, Jeffrey pines	FE	UNKD	All Species
KI	Needle miner	Ponderosa pine	108	Phantom hemlock looper	Ponderosa, Jeffrey pines	FF	UNKD	All Species
KJ	Needle miner	Jeffrey pine	109	Phantom hemlock looper	Ponderosa, Jeffrey pines	FG	UNKD	All Species
KK	Needle miner	Knobcone pine	110	Phantom hemlock looper	Ponderosa, Jeffrey pines	FH	UNKD	All Species
KL	Needle miner	Lodgepole pine	111	Phantom hemlock looper	Ponderosa, Jeffrey pines	FI	UNKD	All Species
KM	Needle miner	Conifer	112	Phantom hemlock looper	Ponderosa, Jeffrey pines	FJ	UNKD	All Species
KN	Needle miner	Ponderosa pine	113	Phantom hemlock looper	Ponderosa, Jeffrey pines	FK	UNKD	All Species
KO	Needle miner	Sugar pine	114	Phantom hemlock looper	Ponderosa, Jeffrey pines	FL	UNKD	All Species
KP	Needle miner	Tree fir	115	Phantom hemlock looper	Ponderosa, Jeffrey pines	FM	UNKD	All Species
KQ	Needle miner	White fir	116	Phantom hemlock looper	Ponderosa, Jeffrey pines	FN	UNKD	