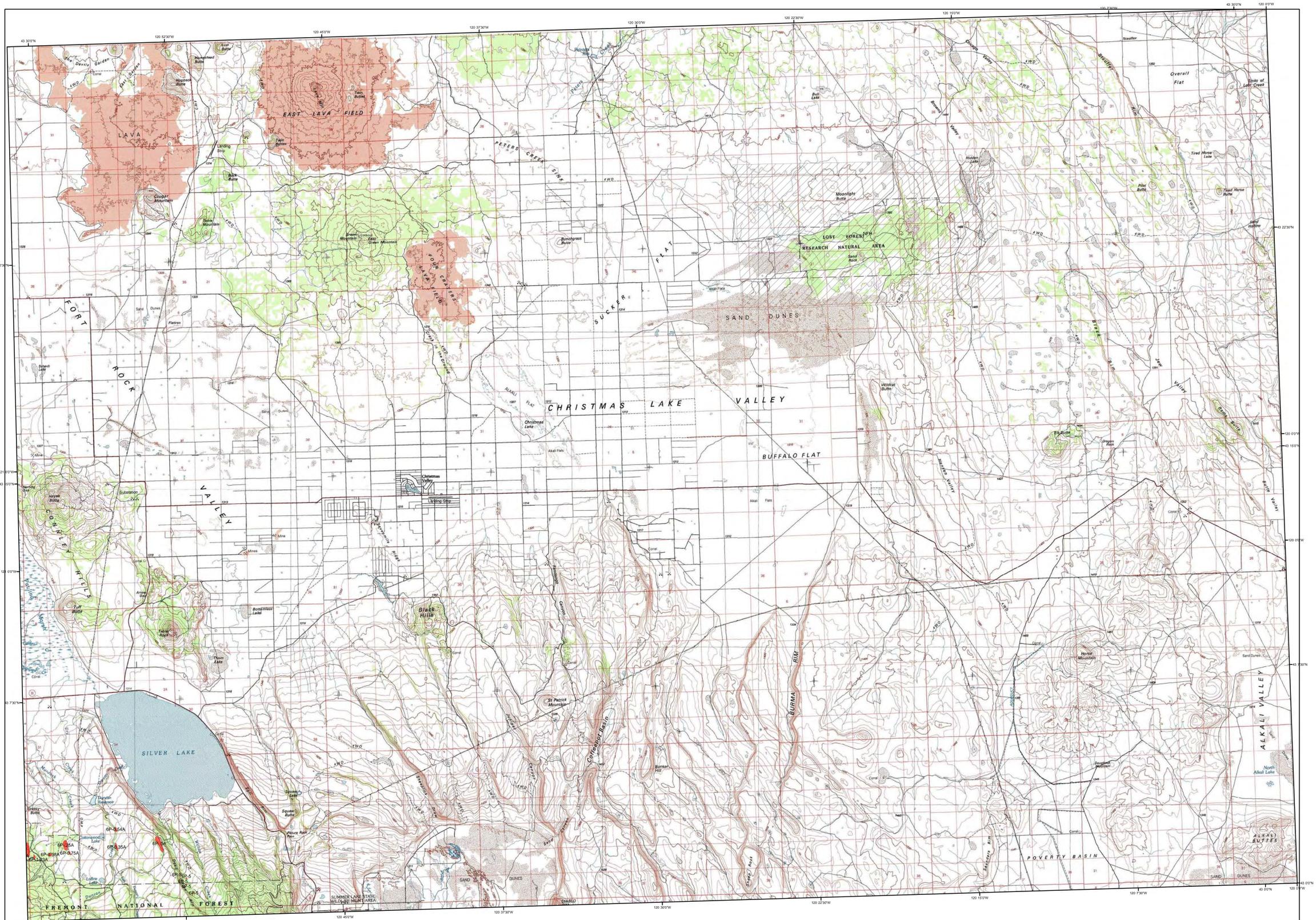


2010 Aerial Insect and Disease Survey

USGS 100K Quad: Christmas Valley - A143120; 5L



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Spruce aphid	1	Douglas-fir beetle
BS	Western blackheaded budworm	2	Douglas-fir engraver
BM	Meadow budoorm	3	Spruce beetle
BP	Sugar pine tortrix	4	Fir engraver
BS	Western spruce budworm	5	Western balsam bark beetle
BV	Bynum's bright light cophoclemella	6A	Mountain pine beetle
CH	Larch casebearer	6B	Mountain pine beetle
HL	Western hemlock looper	6C	Mountain pine beetle
LD	Green alder/cedar looper	6D	Mountain pine beetle
LL	Larch looper	6E	Mountain pine beetle
LD	Black pine leaf scale	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
NU	Needle miner	6K	Mountain pine beetle
NK	Needle miner	6L	Mountain pine beetle
NL	Needle miner	6M	Mountain pine beetle
NS	Needle miner	6N	Mountain pine beetle
NP	Needle miner	6O	Mountain pine beetle
NT	Needle miner	6P	Mountain pine beetle
NW	Needle miner	6Q	Mountain pine beetle
CL	Western oak looper	6R	Mountain pine beetle
PB	Pine butterfly	6S	Mountain pine beetle
PC	Pine needle cast	6T	Mountain pine beetle
PH	Phantom hemlock looper	6U	Mountain pine beetle
PM	Pine moth	6V	Mountain pine beetle
PN	Pine needle/health miner	6W	Mountain pine beetle
PS	Pine needle scale	6X	Mountain pine beetle
RC	Needle cast	6Y	Mountain pine beetle
SA	Spider mite	6Z	Mountain pine beetle
SD	Sawfly	7	Western white pine
SF	Sawfly	8	Western white pine
SH	Sawfly	9	Western white pine
SK	Sawfly	10	Western white pine
SL	Sawfly	11	Western white pine
SM	Sawfly	12	Western white pine
SN	Sawfly	13	Western white pine
SP	Sawfly	14	Western white pine
SW	Sawfly	15	Western white pine
TA	Tent caterpillar, alder	16	Western white pine
TC	Tent caterpillar, other	17	Western white pine
TD	Douglas-fir tussock moth	18	Western white pine
TE	Tent caterpillar, aspen	19	Western white pine

USGS 100K Quad: Christmas Valley - A143120; 5L
2010 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: January 10, 2011

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage

Other Damaging Agents

Code	Damaging Agent	Primary Host
AB	Balsam woolly adelgid	True fir, Douglas-fir
AC	Cooley spruce gall adelgid	Spruce
AD	Leaf-miner	Various
AE	Leaf-miner	Various
AF	Leaf-miner	Various
AG	Leaf-miner	Various
AH	Leaf-miner	Various
AI	Leaf-miner	Various
AJ	Leaf-miner	Various
AK	Leaf-miner	Various
AL	Leaf-miner	Various
AM	Leaf-miner	Various
AN	Leaf-miner	Various
AO	Leaf-miner	Various
AP	Leaf-miner	Various
AQ	Leaf-miner	Various
AR	Leaf-miner	Various
AS	Leaf-miner	Various
AT	Leaf-miner	Various
AV	Leaf-miner	Various
AW	Leaf-miner	Various
AX	Leaf-miner	Various
AY	Leaf-miner	Various
AZ	Leaf-miner	Various
BA	Leaf-miner	Various
BB	Leaf-miner	Various
BC	Leaf-miner	Various
BD	Leaf-miner	Various
BE	Leaf-miner	Various
BF	Leaf-miner	Various
BG	Leaf-miner	Various
BH	Leaf-miner	Various
BI	Leaf-miner	Various
BJ	Leaf-miner	Various
BK	Leaf-miner	Various
BL	Leaf-miner	Various
BM	Leaf-miner	Various
BN	Leaf-miner	Various
BO	Leaf-miner	Various
BP	Leaf-miner	Various
BQ	Leaf-miner	Various
BR	Leaf-miner	Various
BS	Leaf-miner	Various
BT	Leaf-miner	Various
BV	Leaf-miner	Various
BW	Leaf-miner	Various
BX	Leaf-miner	Various
BY	Leaf-miner	Various
BZ	Leaf-miner	Various
CA	Leaf-miner	Various
CB	Leaf-miner	Various
CC	Leaf-miner	Various
CD	Leaf-miner	Various
CE	Leaf-miner	Various
CF	Leaf-miner	Various
CG	Leaf-miner	Various
CH	Leaf-miner	Various
CI	Leaf-miner	Various
CJ	Leaf-miner	Various
CK	Leaf-miner	Various
CL	Leaf-miner	Various
CM	Leaf-miner	Various
CN	Leaf-miner	Various
CO	Leaf-miner	Various
CP	Leaf-miner	Various
CQ	Leaf-miner	Various
CR	Leaf-miner	Various
CS	Leaf-miner	Various
CT	Leaf-miner	Various
CU	Leaf-miner	Various
CV	Leaf-miner	Various
CW	Leaf-miner	Various
CX	Leaf-miner	Various
CY	Leaf-miner	Various
CZ	Leaf-miner	Various
DA	Leaf-miner	Various
DB	Leaf-miner	Various
DC	Leaf-miner	Various
DD	Leaf-miner	Various
DE	Leaf-miner	Various
DF	Leaf-miner	Various
DG	Leaf-miner	Various
DH	Leaf-miner	Various
DI	Leaf-miner	Various
DJ	Leaf-miner	Various
DK	Leaf-miner	Various
DL	Leaf-miner	Various
DM	Leaf-miner	Various
DN	Leaf-miner	Various
DO	Leaf-miner	Various
DP	Leaf-miner	Various
DQ	Leaf-miner	Various
DR	Leaf-miner	Various
DS	Leaf-miner	Various
DT	Leaf-miner	Various
DU	Leaf-miner	Various
DV	Leaf-miner	Various
DW	Leaf-miner	Various
DX	Leaf-miner	Various
DY	Leaf-miner	Various
DZ	Leaf-miner	Various
EA	Leaf-miner	Various
EB	Leaf-miner	Various
EC	Leaf-miner	Various
ED	Leaf-miner	Various
EE	Leaf-miner	Various
EF	Leaf-miner	Various
EG	Leaf-miner	Various
EH	Leaf-miner	Various
EI	Leaf-miner	Various
EJ	Leaf-miner	Various
EK	Leaf-miner	Various
EL	Leaf-miner	Various
EM	Leaf-miner	Various
EN	Leaf-miner	Various
EO	Leaf-miner	Various
EP	Leaf-miner	Various
EQ	Leaf-miner	Various
ER	Leaf-miner	Various
ES	Leaf-miner	Various
ET	Leaf-miner	Various
EU	Leaf-miner	Various
EV	Leaf-miner	Various
EW	Leaf-miner	Various
EX	Leaf-miner	Various
EY	Leaf-miner	Various
EZ	Leaf-miner	Various
FA	Leaf-miner	Various
FB	Leaf-miner	Various
FC	Leaf-miner	Various
FD	Leaf-miner	Various
FE	Leaf-miner	Various
FF	Leaf-miner	Various
FG	Leaf-miner	Various
FH	Leaf-miner	Various
FI	Leaf-miner	Various
FJ	Leaf-miner	Various
FK	Leaf-miner	Various
FL	Leaf-miner	Various
FM	Leaf-miner	Various
FN	Leaf-miner	Various
FO	Leaf-miner	Various
FP	Leaf-miner	Various
FQ	Leaf-miner	Various
FR	Leaf-miner	Various
FS	Leaf-miner	Various
FT	Leaf-miner	Various
FU	Leaf-miner	Various
FV	Leaf-miner	Various
FW	Leaf-miner	Various
FX	Leaf-miner	Various
FY	Leaf-miner	Various
FZ	Leaf-miner	Various
GA	Leaf-miner	Various
GB	Leaf-miner	Various
GC	Leaf-miner	Various
GD	Leaf-miner	Various
GE	Leaf-miner	Various
GF	Leaf-miner	Various
GG	Leaf-miner	Various
GH	Leaf-miner	Various
GI	Leaf-miner	Various
GJ	Leaf-miner	Various
GK	Leaf-miner	Various
GL	Leaf-miner	Various
GM	Leaf-miner	Various
GN	Leaf-miner	Various
GO	Leaf-miner	Various
GP	Leaf-miner	Various
GQ	Leaf-miner	Various
GR	Leaf-miner	Various
GS	Leaf-miner	Various
GT	Leaf-miner	Various
GU	Leaf-miner	Various
GV	Leaf-miner	Various
GW	Leaf-miner	Various
GX	Leaf-miner	Various
GY	Leaf-miner	Various
GA	Leaf-miner	Various
GB	Leaf-miner	Various
GC	Leaf-miner	Various
GD	Leaf-miner	Various
GE	Leaf-miner	Various
GF	Leaf-miner	Various
GG	Leaf-miner	Various
GH	Leaf-miner	Various
GI	Leaf-miner	Various
GJ	Leaf-miner	Various
GK	Leaf-miner	Various
GL	Leaf-miner	Various
GM	Leaf-miner	Various
GN	Leaf-miner	Various
GO	Leaf-miner	Various
GP	Leaf-miner	Various
GQ	Leaf-miner	Various
GR	Leaf-miner	Various
GS	Leaf-miner	Various
GT	Leaf-miner	Various
GU	Leaf-miner	Various
GV	Leaf-miner	Various
GW	Leaf-miner	Various
GX	Leaf-miner	Various
GY	Leaf-miner	Various
GA	Leaf-miner	Various
GB	Leaf-miner	Various
GC	Leaf-miner	Various
GD	Leaf-miner	Various
GE	Leaf-miner	Various
GF	Leaf-miner	Various
GG	Leaf-miner	Various
GH	Leaf-miner	Various
GI	Leaf-miner	Various
GJ	Leaf-miner	Various
GK	Leaf-miner	Various
GL	Leaf-miner	Various
GM	Leaf-miner	Various
GN	Leaf-miner	Various
GO	Leaf-miner	Various
GP	Leaf-miner	Various
GQ	Leaf-miner	Various
GR	Leaf-miner	Various
GS	Leaf-miner	Various
GT	Leaf-miner	Various
GU	Leaf-miner	Various
GV	Leaf-miner	Various
GW	Leaf-miner	Various
GX	Leaf-miner	Various
GY	Leaf-miner	Various
GA	Leaf-miner	Various
GB	Leaf-miner	Various
GC	Leaf-miner	Various
GD	Leaf-miner	Various
GE	Leaf-miner	Various
GF	Leaf-miner	Various
GG	Leaf-miner	Various
GH	Leaf-miner	Various
GI	Leaf-miner	Various
GJ	Leaf-miner	Various
GK	Leaf-miner	Various
GL	Leaf-miner	Various
GM	Leaf-miner	Various
GN	Leaf-miner	Various
GO	Leaf-miner	Various
GP	Leaf-miner	Various
GQ	Leaf-miner	Various
GR	Leaf-miner	Various
GS	Leaf-miner	Various
GT	Leaf-miner	Various
GU	Leaf-miner	Various
GV	Leaf-miner	Various
GW	Leaf-miner	Various
GX	Leaf-miner	Various
GY	Leaf-miner	Various
GA	Leaf-miner	Various
GB	Leaf-miner	Various
GC	Leaf-miner	Various
GD	Leaf-miner	Various
GE	Leaf-miner	Various
GF	Leaf-miner	Various
GG	Leaf-miner	Various
GH	Leaf-miner	Various
GI	Leaf-miner	Various
GJ	Leaf-miner	Various
GK	Leaf-miner	Various
GL	Leaf-miner	Various
GM	Leaf-miner	Various
GN	Leaf-miner	Various
GO	Leaf-miner	Various
GP	Leaf-miner	Various
GQ	Leaf-miner	Various
GR	Leaf-miner	Various
GS	Leaf-miner	Various
GT	Leaf-miner	Various
GU	Leaf-miner	Various
GV	Leaf-miner	Various
GW	Leaf-miner	Various
GX	Leaf-miner	Various
GY	Leaf-miner	Various
GA	Leaf-miner	Various
GB	Leaf-miner	Various
GC	Leaf-miner	Various
GD	Leaf-miner	Various
GE	Leaf-miner	Various
GF	Leaf-miner	Various
GG	Leaf-miner	Various
GH	Leaf-miner	Various
GI	Leaf-miner	Various
GJ	Leaf-miner	Various
GK	Leaf-miner	Various
GL	Leaf-miner	Various
GM	Leaf-miner	Various
GN	Leaf-miner	Various
GO	Leaf-miner	Various
GP	Leaf-miner	Various
GQ	Leaf-miner	Various
GR	Leaf-miner	Various
GS	Leaf-miner	Various
GT	Leaf-miner	Various
GU	Leaf-miner	Various
GV	Leaf-miner	Various
GW	Leaf-miner	Various
GX	Leaf-miner	Various
GY	Leaf-miner	Various
GA	Leaf-miner	Various
GB	Leaf-miner	Various
GC	Leaf-miner	Various
GD	Leaf-miner	Various
GE	Leaf-miner	Various
GF	Leaf-miner	Various
GG	Leaf-miner	Various
GH	Leaf-miner	Various
GI	Leaf-miner	Various
GJ	Leaf-miner	Various
GK	Leaf-miner	Various
GL	Leaf-miner	Various
GM	Leaf-miner	Various
GN	Leaf-miner	Various
GO	Leaf-miner	Various
GP	Leaf-miner	Various
GQ	Leaf-miner	Various
GR	Leaf-miner	Various
GS	Leaf-miner	Various
GT	Leaf-miner	Various
GU	Leaf-miner	Various
GV	Leaf-miner	Various
GW	Leaf-miner	Various
GX	Leaf-miner	Various
GY	Leaf-miner	Various
GA	Leaf-miner	Various
GB	Leaf-miner	Various
GC	Leaf-miner	Various
GD	Leaf-miner	Various
GE	Leaf-miner	Various