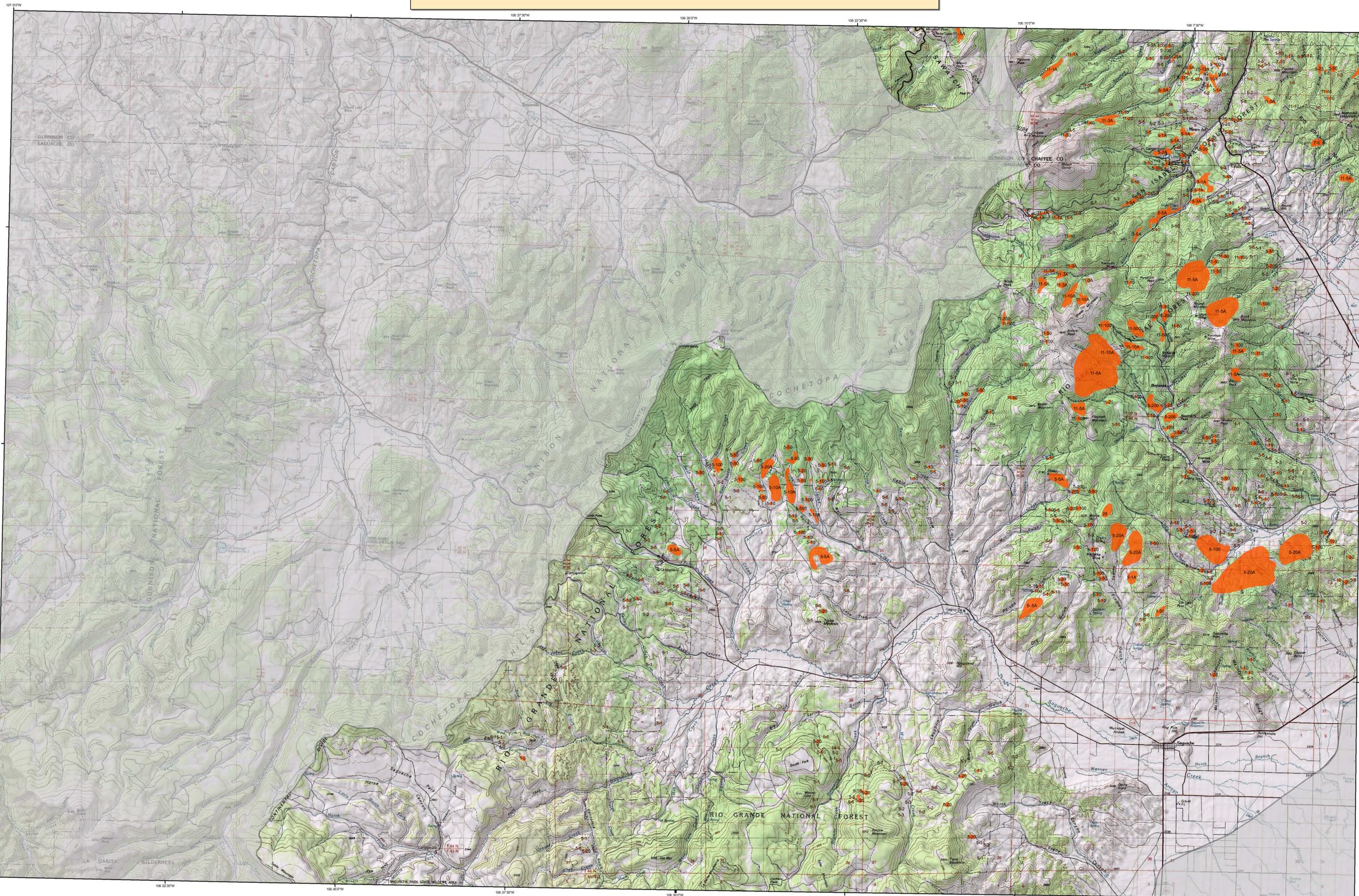


# 2005 Aerial Insect and Disease Survey Saguache, Colorado USGS 100K TOPO!: 38106-A1



1:100,000

## Legend

**Causal Agent(s)** **Not Flown in 2005**

Use of the Number System  
Example: 5-25 = The first number before the dash is the causal agent code. The number after the dash is the number of dead "faded" trees in the polygon or point. When recent dead trees are not counted, an intensity code of L-light, M-moderate, and H-high may be used after the causal agent code. Periodically, trees per acreage estimates are used after the causal agent code instead of number of dead "faded" trees (or an intensity code). For example: 5-120A = The first number before the dash is the causal agent code. The number after the dash is an estimation of the number of dead "faded" trees in the polygon per acre. In this case it would be an estimation that, on the average, one tree per every two acres would be a dead "faded" tree. In another example: 5-5A = that on the average, an estimated three trees per acre are dead "faded" trees. A "." is used as a separator when a point/polygon has more than one causal agent code.

Code	Causal Agent	Primary Host	Code	Causal Agent	Primary Host	Code	Causal Agent	Primary Host
1	Douglas fir beetle	Douglas fir	40	Atropis	Lodgepole Pine	106	Box squirrel flagging	Cottowood/Poplar
2	Engelmann spruce beetle	Engelmann Spruce	41	White pine blister rust	5-Needle Pine	107	fall webworm	Cottowood/Poplar
3	Mountain pine beetle	Ponderosa Pine	42	Deer tick	Softwoods	108	east salt	Softwoods
4	Mountain pine beetle	Lodgepole Pine	43	Elytrodema	Ponderosa Pine	109	pine wood nematode	Scottish Pine
5	Needle scale	5-Needle Pine	44	Inclusus #55, 55 & 55	All Tree Species	110	oak wilt	Oak
6	Western pine beetle	Ponderosa Pine	45	As polystatus	All Tree Species	111	saligo disease	All Tree Species
7	Fire Engriever	White Fir	46	Chemical damage	All Tree Species	112	spruce Ips	White Spruce
8	Western pine beetle	Douglas fir	47	Lophodermium pinastri	Softwoods	113	beetled streamer borer	Oak
9	Fire Engriever	Subalpine Fir	48	Rhabdocline pseudotsugae	Douglas fir	114	anthracnose like foliar disease	Bur Oak
10	Douglas fir engraver beetle	Subalpine Fir	49	Lothodermella arceuta	Softwoods	115	Dieback	All Tree Species
11	Western balsam bark beetle	Subalpine Fir	50	Leucostoma axioscola	Softwoods	116	Mortality	All Tree Species
12	Unidentified bark beetle	Softwoods	51	Lophodermium concolor	Softwoods	117	Discoloration	All Tree Species
13	Spinee budworm, light defol.	Douglas fir	52	Needle cast (Hypodermataceae)	Softwoods	118	Herbicide	All Tree Species
14	Spinee budworm, medium defol.	Douglas fir	53	Root Rot	All Tree Species	119	Flagging	Quaking Aspen
15	Spinee budworm, heavy defol.	Douglas fir	54	Unidentified disease	Softwoods	120	aspen tortrix	Quaking Aspen
16	Lodgepole pine needle miner	Lodgepole Pine	55	Winter damage light	All Tree Species	121	Margosela Blight	Oak
17	Lodgepole pine needle miner	Lodgepole Pine	56	Winter damage medium	All Tree Species	200	Dieback (ash)	Ash
18	Jack pine budworm	Jack Pine	57	Winter damage heavy	All Tree Species	201	Dieback (cottonwood)	Cottowood/Poplar
19	Unidentified bark beetle	Softwoods	58	Pinus black stain	Common Pinon	202	Dieback (hardwood)	Hardwoods
20	Spinee budworm, light defol.	Douglas fir	59	Diplota	Oak	204	Dieback (oak)	Oak
21	Spinee budworm, medium defol.	Douglas fir	60	Pinus black stain	Common Pinon	210	Mortality (old cottonwood)	Cottowood/Poplar
22	Spinee budworm, heavy defol.	Douglas fir	61	Fire	All Tree Species	211	Mortality (eastern cedar)	Eastern Red Cedar
23	Douglas fir tussock moth	Douglas fir	62	Parus pine	Softwoods	212	Mortality (hardwood)	Hardwoods
24	Pine butterfly	Ponderosa Pine	63	Windthrow	All Tree Species	213	Mortality (oak)	Oak
25	Pine looper	Ponderosa Pine	64	High water damage	All Tree Species	214	Mortality (spruce)	Spruce
26	Pine tortrix	Ponderosa Pine	65	Avianiche	All Tree Species	220	Discoloration (ash)	Ash
27	Tent caterpillar	Hardwoods	66	Aspen decline-multiple agents)	Quaking Aspen	221	Discoloration (cottonwood)	Cottowood/Poplar
28	Leaf beetles	Hardwoods	67	Juniper mortality-unknown agents)	Juniper	222	Discoloration (eastern cedar)	Eastern Red Cedar
29	Oak leaf roller	Hardwoods	68	Limber pine decline-unknown agents)	Gambel Oak	223	Discoloration (hardwood)	Hardwoods
30	Pine needle-sheath miner	Ponderosa Pine	69	Limber pine decline-multiple agents)	Limber Pine	224	Discoloration (oak)	Oak
31	Pine sawflies	Ponderosa Pine	70	Hail damage	All Tree Species	225	Discoloration (spruce)	Spruce
32	Variable oak leaf caterpillar	Hardwoods	71	Unknown polygon	Unknown	230	Herbicide (cottonwood)	Cottowood/Poplar
33	Unidentified defoliator	All Tree Species	72	old pinon mortality	Common Pinon	231	Herbicide (eastern cedar)	Eastern Red Cedar
34	Heterobasidium annosum (Fomes annosus)	Softwoods	73	road salt top	Lodgepole Pine	240	Flagging (hardwood)	Hardwoods
35	Armillaria ostoyae (Armillaria mellea)	Softwoods	74	cutch elm disease	Elm	250	Unidentified defoliator (cottonwood)	Cottowood/Poplar
36	Polyporus schweinitzi	Softwoods	75	gilaia blight	Ponderosa Pine	251	Unidentified defoliator (elm)	Elm
37	Leptomyces	All Tree Species	76	Canby oak decline-unknown agents)	Canby Oak	252	Unidentified defoliator (hardwood)	Hardwoods
38	Cytospora	All Tree Species	77	old pinon mortality	Common Pinon	300	Mortality (pine)	Pine
39	Western gall rust	Unknown	78	road salt top	Lodgepole Pine			
40	Cananda rust	Unknown	79	cutch elm disease	Elm			
41	Starthorn rust	Lodgepole Pine	80	gilaia blight	Ponderosa Pine			
42	Starthorn rust	Lodgepole Pine	81	Canby oak decline-unknown agents)	Canby Oak			
43	Starthorn rust	Lodgepole Pine	82	old pinon mortality	Common Pinon			
44	Starthorn rust	Lodgepole Pine	83	road salt top	Lodgepole Pine			
45	Starthorn rust	Lodgepole Pine	84	cutch elm disease	Elm			
46	Starthorn rust	Lodgepole Pine	85	gilaia blight	Ponderosa Pine			
47	Starthorn rust	Lodgepole Pine	86	Canby oak decline-unknown agents)	Canby Oak			
48	Starthorn rust	Lodgepole Pine	87	old pinon mortality	Common Pinon			
49	Starthorn rust	Lodgepole Pine	88	road salt top	Lodgepole Pine			
50	Starthorn rust	Lodgepole Pine	89	cutch elm disease	Elm			
51	Starthorn rust	Lodgepole Pine	90	gilaia blight	Ponderosa Pine			
52	Starthorn rust	Lodgepole Pine	91	Canby oak decline-unknown agents)	Canby Oak			
53	Starthorn rust	Lodgepole Pine	92	old pinon mortality	Common Pinon			
54	Starthorn rust	Lodgepole Pine	93	road salt top	Lodgepole Pine			
55	Starthorn rust	Lodgepole Pine	94	cutch elm disease	Elm			
56	Starthorn rust	Lodgepole Pine	95	gilaia blight	Ponderosa Pine			
57	Starthorn rust	Lodgepole Pine	96	Canby oak decline-unknown agents)	Canby Oak			
58	Starthorn rust	Lodgepole Pine	97	old pinon mortality	Common Pinon			
59	Starthorn rust	Lodgepole Pine	98	road salt top	Lodgepole Pine			
60	Starthorn rust	Lodgepole Pine	99	cutch elm disease	Elm			
61	Starthorn rust	Lodgepole Pine	100	gilaia blight	Ponderosa Pine			
62	Starthorn rust	Lodgepole Pine	101	Canby oak decline-unknown agents)	Canby Oak			
63	Starthorn rust	Lodgepole Pine	102	old pinon mortality	Common Pinon			
64	Starthorn rust	Lodgepole Pine	103	road salt top	Lodgepole Pine			
65	Starthorn rust	Lodgepole Pine	104	cutch elm disease	Elm			
66	Starthorn rust	Lodgepole Pine	105	gilaia blight	Ponderosa Pine			
67	Starthorn rust	Lodgepole Pine	106	Canby oak decline-unknown agents)	Canby Oak			
68	Starthorn rust	Lodgepole Pine	107	old pinon mortality	Common Pinon			
69	Starthorn rust	Lodgepole Pine	108	road salt top	Lodgepole Pine			
70	Starthorn rust	Lodgepole Pine	109	cutch elm disease	Elm			
71	Starthorn rust	Lodgepole Pine	110	gilaia blight	Ponderosa Pine			
72	Starthorn rust	Lodgepole Pine	111	Canby oak decline-unknown agents)	Canby Oak			
73	Starthorn rust	Lodgepole Pine	112	old pinon mortality	Common Pinon			
74	Starthorn rust	Lodgepole Pine	113	road salt top	Lodgepole Pine			
75	Starthorn rust	Lodgepole Pine	114	cutch elm disease	Elm			
76	Starthorn rust	Lodgepole Pine	115	gilaia blight	Ponderosa Pine			
77	Starthorn rust	Lodgepole Pine	116	Canby oak decline-unknown agents)	Canby Oak			
78	Starthorn rust	Lodgepole Pine	117	old pinon mortality	Common Pinon			
79	Starthorn rust	Lodgepole Pine	118	road salt top	Lodgepole Pine			
80	Starthorn rust	Lodgepole Pine	119	cutch elm disease	Elm			
81	Starthorn rust	Lodgepole Pine	120	gilaia blight	Ponderosa Pine			
82	Starthorn rust	Lodgepole Pine	121	Canby oak decline-unknown agents)	Canby Oak			
83	Starthorn rust	Lodgepole Pine	122	old pinon mortality	Common Pinon			
84	Starthorn rust	Lodgepole Pine	123	road salt top	Lodgepole Pine			
85	Starthorn rust	Lodgepole Pine	124	cutch elm disease	Elm			
86	Starthorn rust	Lodgepole Pine	125	gilaia blight	Ponderosa Pine			
87	Starthorn rust	Lodgepole Pine	126	Canby oak decline-unknown agents)	Canby Oak			
88	Starthorn rust	Lodgepole Pine	127	old pinon mortality	Common Pinon			
89	Starthorn rust	Lodgepole Pine	128	road salt top	Lodgepole Pine			
90	Starthorn rust	Lodgepole Pine	129	cutch elm disease	Elm			
91	Starthorn rust	Lodgepole Pine	130	gilaia blight	Ponderosa Pine			
92	Starthorn rust	Lodgepole Pine	131	Canby oak decline-unknown agents)	Canby Oak			
93	Starthorn rust	Lodgepole Pine	132	old pinon mortality	Common Pinon			
94	Starthorn rust	Lodgepole Pine	133	road salt top	Lodgepole Pine			
95	Starthorn rust	Lodgepole Pine	134	cutch elm disease	Elm			
96	Starthorn rust	Lodgepole Pine	135	gilaia blight	Ponderosa Pine			
97	Starthorn rust	Lodgepole Pine	136	Canby oak decline-unknown agents)	Canby Oak			
98	Starthorn rust	Lodgepole Pine	137	old pinon mortality	Common Pinon			
99	Starthorn rust	Lodgepole Pine	138	road salt top	Lodgepole Pine			
100	Starthorn rust	Lodgepole Pine	139	cutch elm disease	Elm			
101	Starthorn rust	Lodgepole Pine	140	gilaia blight	Ponderosa Pine			
102	Starthorn rust	Lodgepole Pine	141	Canby oak decline-unknown agents)	Canby Oak			
103	Starthorn rust	Lodgepole Pine	142	old pinon mortality	Common Pinon			
104	Starthorn rust	Lodgepole Pine	143	road salt top	Lodgepole Pine			
105	Starthorn rust	Lodgepole Pine	144	cutch elm disease	Elm			
106	Starthorn rust	Lodgepole Pine	145	gilaia blight	Ponderosa Pine			
107	Starthorn rust	Lodgepole Pine	146	Canby oak decline-unknown agents)	Canby Oak			
108	Starthorn rust	Lodgepole Pine	147	old pinon mortality	Common Pinon			
109	Starthorn rust	Lodgepole Pine	148	road salt top	Lodgepole Pine			
110	Starthorn rust	Lodgepole Pine	149	cutch elm disease	Elm			
111	Starthorn rust	Lodgepole Pine	150	gilaia blight	Ponderosa Pine			
112	Starthorn rust	Lodgepole Pine	151	Canby oak decline-unknown agents)	Canby Oak			
113	Starthorn rust	Lodgepole Pine	152	old pinon mortality	Common Pinon			
114	Starthorn rust	Lodgepole Pine	153	road salt top	Lodgepole Pine			
115	Starthorn rust	Lodgepole Pine	154	cutch elm disease	Elm			
116	Starthorn rust	Lodgepole Pine	155	gilaia blight	Ponderosa Pine			
117	Starthorn rust	Lodgepole Pine	156	Canby oak decline-unknown agents)	Canby Oak			
118	Starthorn rust	Lodgepole Pine	157	old pinon mortality	Common Pinon			
119	Starthorn rust	Lodgepole Pine	158	road salt top	Lodgepole Pine			
120	Starthorn rust	Lodgepole Pine	159	cutch elm disease	Elm			
121	Starthorn rust	Lodgepole Pine	160	gilaia blight	Ponderosa Pine			
122	Starthorn rust	Lodgepole Pine	161	Canby oak decline-unknown agents)	Canby Oak			
123	Starthorn rust	Lodgepole Pine	162	old pinon mortality	Common Pinon			
124	Starthorn rust	Lodgepole Pine	163	road salt top	Lodgepole Pine			
125	Starthorn rust	Lodgepole Pine	164	cutch elm disease	Elm			
126	Starthorn rust	Lodgepole Pine	165	gilaia blight	Ponderosa Pine			
127	Starthorn rust	Lodgepole Pine	166	Canby oak decline-unknown agents)	Canby Oak			
128	Starthorn rust	Lodgepole Pine	167	old pinon mortality	Common Pinon			
129	Starthorn rust	Lodgepole Pine	168	road salt top	Lodgepole Pine			
130	Starthorn rust	Lodgepole Pine	169	cutch elm disease	Elm			
131	Starthorn rust	Lodgepole Pine	170	gilaia blight	Ponderosa Pine			
132	Starthorn rust	Lodgepole Pine	171	Canby oak decline-unknown agents)	Canby Oak			
133	Starthorn rust	Lodgepole Pine	172	old pinon mortality	Common Pinon			
134	Starthorn rust	Lodgepole Pine	173	road salt top	Lodgepole Pine			
135	Starthorn rust	Lodgepole Pine	174	cutch elm disease	Elm			
136	Starthorn rust	Lodgepole Pine	175	gilaia blight	Ponderosa Pine			
137	Starthorn rust	Lodgepole Pine	176	Canby oak decline-unknown agents)	Canby Oak			
138	Starthorn rust	Lodgepole Pine	177	old pinon mortality	Common Pinon			
139	Starthorn rust	Lodgepole Pine	178	road salt top	Lodgepole Pine			
140	Starthorn rust	Lodgepole Pine	179	cutch elm disease	Elm			
141	Starthorn rust	Lodgepole Pine	180	gilaia blight	Ponderosa Pine			
142	Starthorn rust	Lodgepole Pine	181	Canby oak decline-unknown agents)	Canby Oak			
143	Starthorn rust	Lodgepole Pine	182	old pinon mortality	Common Pinon			
144	Starthorn rust	Lodgepole Pine	183	road salt top	Lodgepole Pine			
145	Starthorn rust	Lodgepole Pine						