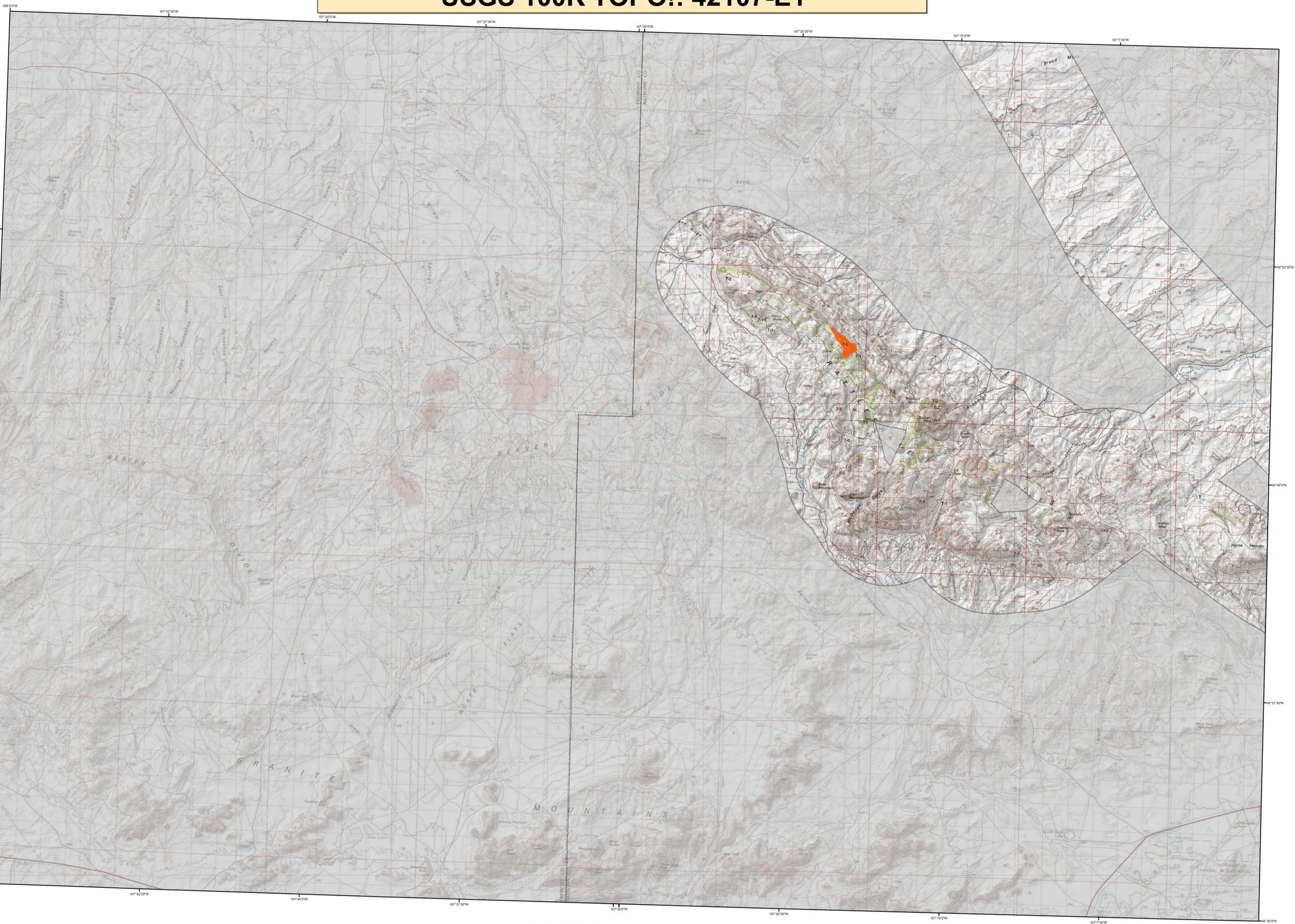


2014 Aerial Insect and Disease Survey RATTLESNAKE HILLS, WYOMING USGS 100K TOPO!: 42107-E1



1:100,000

Code	Causal Agent	Primary Host	Code	Causal Agent	Primary Host	Code	Causal Agent	Primary Host
1	Douglas fir beetle	Douglas fir	106	fox squirrel flagg	Cottonwood Poplar	107	fall webworm	Cottonwood Poplar
2	Engelmann spruce beetle	Engelmann spruce	108	road salt	Softwoods	109	pinewood nematode	Scotch Pine
3	Blue spruce tip	Blue spruce	110	oak wilt	Oak	111	foliage disease	All Tree Species
4	Mountain pine beetle	Ponderosa Pine	112	spruce ips	White Spruce	113	baseline chestnut borer	Oak
5	Mountain pine beetle	5-needle Pine	114	anthracnose like foliar disease	Bur Oak	115	Dieback	All Tree Species
6	Mountain pine beetle	Lodgepole Pine	116	Dieback	Softwoods	117	Mortality	All Tree Species
7	Mountain pine beetle	5-needle Pine	118	Dieback (cottonwood)	Cottonwood Poplar	119	Discoloration	Eastern Red Cedar
8	Western pine beetle	Ponderosa Pine	120	Dieback (hardwood)	Hardwoods	121	Dieback (oak)	Oak
9	Fir engraver	White fir	122	Mortality (oak cottonwood)	Cottonwood Poplar	123	Mortality (spruce)	Aspen
10	Douglas fir engraver beetle	Douglas fir	124	Mortality (eastern cedar)	Eastern Red Cedar	125	Quaking Aspen	Quaking Aspen
11	Western balsam bark beetle	Subalpine fir	126	Mortality (hardwood)	Hardwoods	127	Aspen decline	Aspen
12	Unidentified bark beetle	Softwoods	128	Discoloration (cottonwood)	Cottonwood Poplar	129	Discoloration (eastern cedar)	Eastern Red Cedar
13	Pine engraver	Lodgepole Pine	130	Discoloration (hardwood)	Hardwoods	131	Discoloration (oak)	Oak
14	Pine engraver	Ponderosa Pine	132	Mortality (spruce)	Aspen	133	Discoloration (cottonwood)	Cottonwood Poplar
15	Ponderosa pine needle miner	Lodgepole Pine	134	Mortality (eastern cedar)	Eastern Red Cedar	135	Quaking Aspen	Quaking Aspen
16	Lodgepole pine needle miner	Ponderosa Pine	136	Mortality (hardwood)	Hardwoods	137	Aspen decline (multiple agents)	Aspen
17	Jack pine budworm	Jack pine	138	Prion pine mortality	Common Prinyon	139	Juniper mortality (unknown agents)	Juniper
18	Spruce budworm, light defol.	Douglas fir	140	Juniper mortality (unknown agents)	Juniper	141	Gambel oak decline (unknown agents)	Gambel Oak
19	Spruce budworm, medium defol.	Douglas fir	142	Limber pine decline (multiple agents)	Limber Pine	143	Hail damage	All Tree Species
20	Spruce budworm, heavy defol.	Douglas fir	144	Unknown polygon	Common Prinyon	145	old prion mortality	Common Prinyon
21	Douglas fir tussock moth	Douglas fir	146	Flagging (hardwood)	Hardwoods	147	Flagging (hardwood)	Hardwoods
22	Pine butterfly	Ponderosa Pine	148	Discoloration (eastern cedar)	Eastern Red Cedar	149	Unidentified defoliator (cottonwood)	Cottonwood Poplar
23	Pine looper	Ponderosa Pine	150	Discoloration (oak)	Oak	151	Unidentified defoliator (elm)	Elm
24	Pine tortrix	Ponderosa Pine	152	Discoloration (spruce)	Spruce	153	Unidentified defoliator (hardwood)	Hardwoods
25	Text caterpillars	Hardwoods	154	Herbicide (cottonwood)	Cottonwood Poplar	155	Mortality (spruce)	Pine
26	Leaf beetles	Hardwoods	156	Herbicide (eastern cedar)	Eastern Red Cedar			
27	Aspen defoliation	Hardwoods	157	Flagging (hardwood)	Hardwoods			
28	Oak leaf roller	Hardwoods	158	Discoloration (eastern cedar)	Eastern Red Cedar			
29	Pine needle-shaft miner	Ponderosa Pine	159	Discoloration (hardwood)	Hardwoods			
30	Pine sawflies	Ponderosa Pine	160	Discoloration (oak)	Oak			
31	Pine tussock moth	Hardwoods	161	Discoloration (spruce)	Spruce			
32	Cankermarks	Hardwoods	162	Herbicide (cottonwood)	Cottonwood Poplar			
33	Variable oak leaf caterpillar	Hardwoods	163	Herbicide (eastern cedar)	Eastern Red Cedar			
34	Unidentified defoliator	All Tree Species	164	Flagging (hardwood)	Hardwoods			
35	Cottonwood Decline/Mortality	Softwoods	165	Discoloration (eastern cedar)	Eastern Red Cedar			
36	Heterobasidion annosum (Fomes annosus)	Softwoods	166	Discoloration (hardwood)	Hardwoods			
37	Armillaria ostoyae (Armillaria mellea)	Softwoods	167	Discoloration (oak)	Oak			
38	Phomopsis	Softwoods	168	Discoloration (spruce)	Spruce			
39	Cytospora	All Tree Species	169	Herbicide (cottonwood)	Cottonwood Poplar			
40	Western gall rust	Unknown	170	Herbicide (eastern cedar)	Eastern Red Cedar			
41	Comandra rust	Unknown	171	Flagging (hardwood)	Hardwoods			
42			172	Discoloration (eastern cedar)	Eastern Red Cedar			
43			173	Discoloration (hardwood)	Hardwoods			
44			174	Discoloration (oak)	Oak			
45			175	Discoloration (spruce)	Spruce			
46			176	Herbicide (cottonwood)	Cottonwood Poplar			
47			177	Herbicide (eastern cedar)	Eastern Red Cedar			
48			178	Flagging (hardwood)	Hardwoods			
49			179	Discoloration (eastern cedar)	Eastern Red Cedar			
50			180	Discoloration (hardwood)	Hardwoods			
51			181	Discoloration (oak)	Oak			
52			182	Discoloration (spruce)	Spruce			
53			183	Herbicide (cottonwood)	Cottonwood Poplar			
54			184	Herbicide (eastern cedar)	Eastern Red Cedar			
55			185	Flagging (hardwood)	Hardwoods			
56			186	Discoloration (eastern cedar)	Eastern Red Cedar			
57			187	Discoloration (hardwood)	Hardwoods			
58			188	Discoloration (oak)	Oak			
59			189	Discoloration (spruce)	Spruce			
60			190	Herbicide (cottonwood)	Cottonwood Poplar			
61			191	Herbicide (eastern cedar)	Eastern Red Cedar			
62			192	Flagging (hardwood)	Hardwoods			
63			193	Discoloration (eastern cedar)	Eastern Red Cedar			
64			194	Discoloration (hardwood)	Hardwoods			
65			195	Discoloration (oak)	Oak			
66			196	Discoloration (spruce)	Spruce			
67			197	Herbicide (cottonwood)	Cottonwood Poplar			
68			198	Herbicide (eastern cedar)	Eastern Red Cedar			
69			199	Flagging (hardwood)	Hardwoods			
70			200	Discoloration (eastern cedar)	Eastern Red Cedar			
71			201	Discoloration (hardwood)	Hardwoods			
72			202	Discoloration (oak)	Oak			
73			203	Discoloration (spruce)	Spruce			
74			204	Herbicide (cottonwood)	Cottonwood Poplar			
75			205	Herbicide (eastern cedar)	Eastern Red Cedar			
76			206	Flagging (hardwood)	Hardwoods			
77			207	Discoloration (eastern cedar)	Eastern Red Cedar			
78			208	Discoloration (hardwood)	Hardwoods			
79			209	Discoloration (oak)	Oak			
80			210	Discoloration (spruce)	Spruce			
81			211	Herbicide (cottonwood)	Cottonwood Poplar			
82			212	Herbicide (eastern cedar)	Eastern Red Cedar			
83			213	Flagging (hardwood)	Hardwoods			
84			214	Discoloration (eastern cedar)	Eastern Red Cedar			
85			215	Discoloration (hardwood)	Hardwoods			
86			216	Discoloration (oak)	Oak			
87			217	Discoloration (spruce)	Spruce			
88			218	Herbicide (cottonwood)	Cottonwood Poplar			
89			219	Herbicide (eastern cedar)	Eastern Red Cedar			
90			220	Flagging (hardwood)	Hardwoods			
91			221	Discoloration (eastern cedar)	Eastern Red Cedar			
92			222	Discoloration (hardwood)	Hardwoods			
93			223	Discoloration (oak)	Oak			
94			224	Discoloration (spruce)	Spruce			
95			225	Herbicide (cottonwood)	Cottonwood Poplar			
96			226	Herbicide (eastern cedar)	Eastern Red Cedar			
97			227	Flagging (hardwood)	Hardwoods			
98			228	Discoloration (eastern cedar)	Eastern Red Cedar			
99			229	Discoloration (hardwood)	Hardwoods			
100			230	Discoloration (oak)	Oak			
101			231	Discoloration (spruce)	Spruce			
102			232	Herbicide (cottonwood)	Cottonwood Poplar			
103			233	Herbicide (eastern cedar)	Eastern Red Cedar			
104			234	Flagging (hardwood)	Hardwoods			
105			235	Discoloration (eastern cedar)	Eastern Red Cedar			
106			236	Discoloration (hardwood)	Hardwoods			
107			237	Discoloration (oak)	Oak			
108			238	Discoloration (spruce)	Spruce			
109			239	Herbicide (cottonwood)	Cottonwood Poplar			
110			240	Herbicide (eastern cedar)	Eastern Red Cedar			
111			241	Flagging (hardwood)	Hardwoods			
112			242	Discoloration (eastern cedar)	Eastern Red Cedar			
113			243	Discoloration (hardwood)	Hardwoods			
114			244	Discoloration (oak)	Oak			
115			245	Discoloration (spruce)	Spruce			
116			246	Herbicide (cottonwood)	Cottonwood Poplar			
117			247	Herbicide (eastern cedar)	Eastern Red Cedar			
118			248	Flagging (hardwood)	Hardwoods			
119			249	Discoloration (eastern cedar)	Eastern Red Cedar			
120			250	Discoloration (hardwood)	Hardwoods			
121			251	Discoloration (oak)	Oak			
122			252	Discoloration (spruce)	Spruce			
123			253	Herbicide (cottonwood)	Cottonwood Poplar			
124			254	Herbicide (eastern cedar)	Eastern Red Cedar			
125			255	Flagging (hardwood)	Hardwoods			
126			256	Discoloration (eastern cedar)	Eastern Red Cedar			
127			257	Discoloration (hardwood)	Hardwoods			
128			258	Discoloration (oak)	Oak			
129			259	Discoloration (spruce)	Spruce			
130			260	Herbicide (cottonwood)	Cottonwood Poplar			
131			261	Herbicide (eastern cedar)	Eastern Red Cedar			
132			262	Flagging (hardwood)	Hardwoods			
133			263	Discoloration (eastern cedar)	Eastern Red Cedar			
134			264	Discoloration (hardwood)	Hardwoods			
135			265	Discoloration (oak)	Oak			
136			266	Discoloration (spruce)	Spruce			
137			267	Herbicide (cottonwood)	Cottonwood Poplar			
138			268	Herbicide (eastern cedar)	Eastern Red Cedar			
139			269	Flagging (hardwood)	Hardwoods			
140			270	Discoloration (eastern cedar)	Eastern Red Cedar			
141			271	Discoloration (hardwood)	Hardwoods			
142			272	Discoloration (oak)	Oak			
143			273	Discoloration (spruce)	Spruce			
144			274	Herbicide (cottonwood)	Cottonwood Poplar			
145			275	Herbicide (eastern cedar)	Eastern Red Cedar			
146			276	Flagging (hardwood)	Hardwoods			
147			277	Discoloration (eastern cedar)	Eastern Red Cedar			
148			278	Discoloration (hardwood)	Hardwoods			
149			279	Discoloration (oak)	Oak			
150			280	Discoloration (spruce)	Spruce			
151			281	Herbicide (cottonwood)	Cottonwood Poplar			
152			282	Herbicide (eastern cedar)	Eastern Red Cedar			
153			283	Flagging (hardwood)	Hardwoods			
154			284	Discoloration (eastern cedar)	Eastern Red Cedar			
155			285	Discoloration (hardwood)	Hardwoods			
156			286	Discoloration (oak)	Oak			
157			287	Discoloration (spruce)	Spruce			
158			288	Herbicide (cottonwood)	Cottonwood Poplar			
159			289	Herbicide (eastern cedar)	Eastern Red Cedar			
160			290	Flagging (hardwood)	Hardwoods			
161			291	Discoloration (eastern cedar)	Eastern Red Cedar			
162			292	Discoloration (hardwood)				