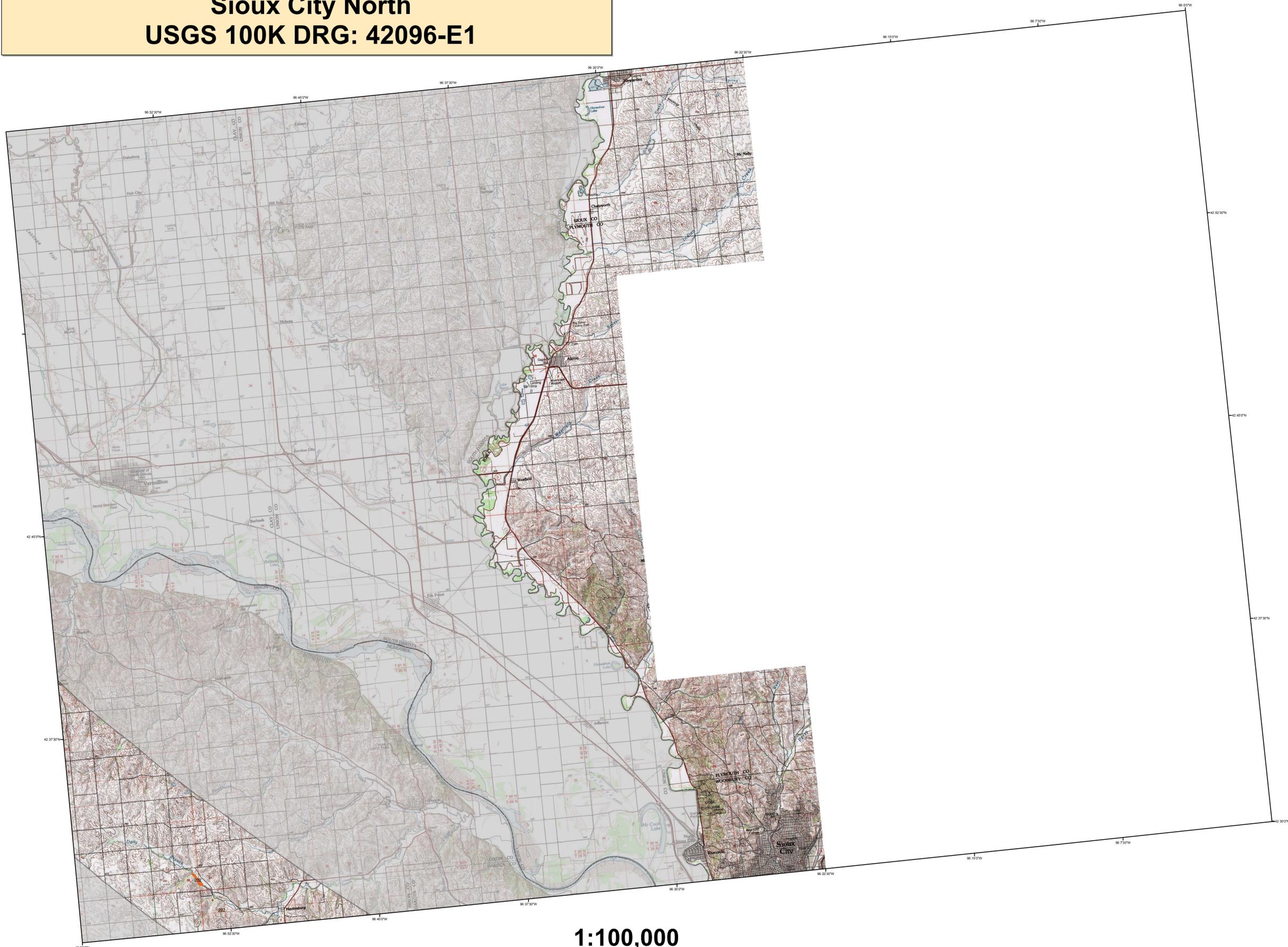


2005 Aerial Insect and Disease Survey Sioux City North USGS 100K DRG: 42096-E1



1:100,000

Code	Causal Agent	Primary Host	Code	Causal Agent	Primary Host	Code	Causal Agent	Primary Host
1	Douglas-fir beetle	Douglas-fir	109	Harvestite	Lodgepole Pine	109	For-Scoutlet Fleeging	Cottonwood/Poplar
2	Engelmann Spruce Beetle	Engelmann Spruce	110	White pine blister rust	5-Needle Pine	107	fall webworm	Cottonwood/Poplar
3	Mountain pine beetle	Ponderosa Pine	111	Dwarf mistletoe	Softwoods	108	rose saw	Softwoods
4	Mountain pine beetle	Lodgepole Pine	112	Elysiptoma	Ponderosa Pine	109	pine/cedar nematode	Scotch Pine
5	Mountain pine beetle	5-Needle Pine	113	Includes #05, 06 & 08	All Tree Species	110	oak wilt	Oak
6	Western pine beetle	Ponderosa Pine	114	Air pollutants	All Tree Species	111	foliage disease	All Tree Species
7	Fire Engrafer	White Fir	115	Chemical damage	Softwoods	112	spruce lvs	White Spruce
8	Douglas-fir engraver beetle	Douglas-fir	116	Lophodermium praeusti	Softwoods	113	heartleaf chestnut borer	Oak
9	White fir	Subalpine Fir	117	Rhabdocline pseudotsugae	Douglas-fir	114	anthracnose like foliar disease	Bur Oak
10	Douglas-fir engraver beetle	Softwoods	118	Lophodermium arcuta	Softwoods	115	Dieback	All Tree Species
11	Western balsam bark beetle	Lodgepole Pine	119	Lecanostoma axiosota	Softwoods	116	Dieback (ash)	All Tree Species
12	Unidentified bark beetle	Ponderosa Pine	120	Lophodermium concolor	Softwoods	117	Discoloration	All Tree Species
13	Pine engraver	Lodgepole Pine	121	Cochlostoma pin	Softwoods	118	Herbicide	All Tree Species
14	Pine engraver	Ponderosa Pine	122	Needle cast (Hypodermataceae)	Softwoods	119	Flagging	All Tree Species
15	Ponderosa pine needle miner	Lodgepole Pine	123	Root Rot	All Tree Species	120	aspens tortrix	Quaking Aspen
16	Ponderosa pine needle miner	Ponderosa Pine	124	Unidentified disease	All Tree Species	121	Mansonia blight	Quaking Aspen
17	Jack pine budworm	Jack Pine	125	Winter damage light	All Tree Species	200	Dieback (ash)	Ash
18	Jack pine budworm	Douglas-fir	126	Winter damage medium	All Tree Species	201	Dieback (cottonwood)	Cottonwood/Poplar
19	Jack pine budworm	Douglas-fir	127	Winter damage heavy	All Tree Species	202	Dieback (hardwood)	Hardwoods
20	Jack pine budworm	Douglas-fir	128	Winter damage medium	All Tree Species	203	Dieback (oak)	Oak
21	Douglas-fir tussock moth	Douglas-fir	129	Winter damage light	All Tree Species	204	Mortality (oak cottonwood)	Cottonwood/Poplar
22	Pine butterfly	Ponderosa Pine	130	Winter damage heavy	All Tree Species	205	Mortality (eastern cedar)	Eastern Red Cedar
23	Pine tortrix	Ponderosa Pine	131	Pyron Black stain	Common Piñon	206	Discoloration (hardwood)	Hardwoods
24	Leaf miner	Ponderosa Pine	132	Diptera	Softwoods	207	Discoloration (oak)	Oak
25	Leaf miner	Ponderosa Pine	133	Pyron Black stain	Common Piñon	208	Discoloration (spruce)	Spruce
26	Leaf miner	Ponderosa Pine	134	Fire	All Tree Species	209	Discoloration (ash)	Ash
27	Leaf miner	Hardwoods	135	Fire	All Tree Species	210	Discoloration (conifer)	Softwoods
28	Leaf miner	Hardwoods	136	Fire	All Tree Species	211	Discoloration (cottonwood)	Cottonwood/Poplar
29	Leaf miner	Hardwoods	137	Fire	All Tree Species	212	Discoloration (eastern cedar)	Eastern Red Cedar
30	Leaf miner	Hardwoods	138	Fire	All Tree Species	213	Discoloration (hardwood)	Hardwoods
31	Leaf miner	Hardwoods	139	Fire	All Tree Species	214	Mortality (spruce)	Spruce
32	Leaf miner	Hardwoods	140	Fire	All Tree Species	215	Mortality (oak)	Oak
33	Leaf miner	Hardwoods	141	Fire	All Tree Species	216	Mortality (spruce)	Spruce
34	Leaf miner	Hardwoods	142	Fire	All Tree Species	217	Mortality (oak)	Oak
35	Leaf miner	Hardwoods	143	Fire	All Tree Species	218	Mortality (spruce)	Spruce
36	Leaf miner	Hardwoods	144	Fire	All Tree Species	219	Mortality (oak)	Oak
37	Leaf miner	Hardwoods	145	Fire	All Tree Species	220	Mortality (spruce)	Spruce
38	Leaf miner	Hardwoods	146	Fire	All Tree Species	221	Mortality (oak)	Oak
39	Leaf miner	Hardwoods	147	Fire	All Tree Species	222	Mortality (spruce)	Spruce
40	Leaf miner	Hardwoods	148	Fire	All Tree Species	223	Mortality (oak)	Oak
41	Leaf miner	Hardwoods	149	Fire	All Tree Species	224	Mortality (spruce)	Spruce
42	Leaf miner	Hardwoods	150	Fire	All Tree Species	225	Mortality (oak)	Oak
43	Leaf miner	Hardwoods	151	Fire	All Tree Species	226	Mortality (spruce)	Spruce
44	Leaf miner	Hardwoods	152	Fire	All Tree Species	227	Mortality (oak)	Oak
45	Leaf miner	Hardwoods	153	Fire	All Tree Species	228	Mortality (spruce)	Spruce
46	Leaf miner	Hardwoods	154	Fire	All Tree Species	229	Mortality (oak)	Oak
47	Leaf miner	Hardwoods	155	Fire	All Tree Species	230	Mortality (spruce)	Spruce
48	Leaf miner	Hardwoods	156	Fire	All Tree Species	231	Mortality (oak)	Oak
49	Leaf miner	Hardwoods	157	Fire	All Tree Species	232	Mortality (spruce)	Spruce
50	Leaf miner	Hardwoods	158	Fire	All Tree Species	233	Mortality (oak)	Oak
51	Leaf miner	Hardwoods	159	Fire	All Tree Species	234	Mortality (spruce)	Spruce
52	Leaf miner	Hardwoods	160	Fire	All Tree Species	235	Mortality (oak)	Oak
53	Leaf miner	Hardwoods	161	Fire	All Tree Species	236	Mortality (spruce)	Spruce
54	Leaf miner	Hardwoods	162	Fire	All Tree Species	237	Mortality (oak)	Oak
55	Leaf miner	Hardwoods	163	Fire	All Tree Species	238	Mortality (spruce)	Spruce
56	Leaf miner	Hardwoods	164	Fire	All Tree Species	239	Mortality (oak)	Oak
57	Leaf miner	Hardwoods	165	Fire	All Tree Species	240	Mortality (spruce)	Spruce
58	Leaf miner	Hardwoods	166	Fire	All Tree Species	241	Mortality (oak)	Oak
59	Leaf miner	Hardwoods	167	Fire	All Tree Species	242	Mortality (spruce)	Spruce
60	Leaf miner	Hardwoods	168	Fire	All Tree Species	243	Mortality (oak)	Oak
61	Leaf miner	Hardwoods	169	Fire	All Tree Species	244	Mortality (spruce)	Spruce
62	Leaf miner	Hardwoods	170	Fire	All Tree Species	245	Mortality (oak)	Oak
63	Leaf miner	Hardwoods	171	Fire	All Tree Species	246	Mortality (spruce)	Spruce
64	Leaf miner	Hardwoods	172	Fire	All Tree Species	247	Mortality (oak)	Oak
65	Leaf miner	Hardwoods	173	Fire	All Tree Species	248	Mortality (spruce)	Spruce
66	Leaf miner	Hardwoods	174	Fire	All Tree Species	249	Mortality (oak)	Oak
67	Leaf miner	Hardwoods	175	Fire	All Tree Species	250	Mortality (spruce)	Spruce
68	Leaf miner	Hardwoods	176	Fire	All Tree Species	251	Mortality (oak)	Oak
69	Leaf miner	Hardwoods	177	Fire	All Tree Species	252	Mortality (spruce)	Spruce
70	Leaf miner	Hardwoods	178	Fire	All Tree Species	253	Mortality (oak)	Oak
71	Leaf miner	Hardwoods	179	Fire	All Tree Species	254	Mortality (spruce)	Spruce
72	Leaf miner	Hardwoods	180	Fire	All Tree Species	255	Mortality (oak)	Oak
73	Leaf miner	Hardwoods	181	Fire	All Tree Species	256	Mortality (spruce)	Spruce
74	Leaf miner	Hardwoods	182	Fire	All Tree Species	257	Mortality (oak)	Oak
75	Leaf miner	Hardwoods	183	Fire	All Tree Species	258	Mortality (spruce)	Spruce
76	Leaf miner	Hardwoods	184	Fire	All Tree Species	259	Mortality (oak)	Oak
77	Leaf miner	Hardwoods	185	Fire	All Tree Species	260	Mortality (spruce)	Spruce
78	Leaf miner	Hardwoods	186	Fire	All Tree Species	261	Mortality (oak)	Oak
79	Leaf miner	Hardwoods	187	Fire	All Tree Species	262	Mortality (spruce)	Spruce
80	Leaf miner	Hardwoods	188	Fire	All Tree Species	263	Mortality (oak)	Oak
81	Leaf miner	Hardwoods	189	Fire	All Tree Species	264	Mortality (spruce)	Spruce
82	Leaf miner	Hardwoods	190	Fire	All Tree Species	265	Mortality (oak)	Oak
83	Leaf miner	Hardwoods	191	Fire	All Tree Species	266	Mortality (spruce)	Spruce
84	Leaf miner	Hardwoods	192	Fire	All Tree Species	267	Mortality (oak)	Oak
85	Leaf miner	Hardwoods	193	Fire	All Tree Species	268	Mortality (spruce)	Spruce
86	Leaf miner	Hardwoods	194	Fire	All Tree Species	269	Mortality (oak)	Oak
87	Leaf miner	Hardwoods	195	Fire	All Tree Species	270	Mortality (spruce)	Spruce
88	Leaf miner	Hardwoods	196	Fire	All Tree Species	271	Mortality (oak)	Oak
89	Leaf miner	Hardwoods	197	Fire	All Tree Species	272	Mortality (spruce)	Spruce
90	Leaf miner	Hardwoods	198	Fire	All Tree Species	273	Mortality (oak)	Oak
91	Leaf miner	Hardwoods	199	Fire	All Tree Species	274	Mortality (spruce)	Spruce
92	Leaf miner	Hardwoods	200	Fire	All Tree Species	275	Mortality (oak)	Oak
93	Leaf miner	Hardwoods	201	Fire	All Tree Species	276	Mortality (spruce)	Spruce
94	Leaf miner	Hardwoods	202	Fire	All Tree Species	277	Mortality (oak)	Oak
95	Leaf miner	Hardwoods	203	Fire	All Tree Species	278	Mortality (spruce)	Spruce
96	Leaf miner	Hardwoods	204	Fire	All Tree Species	279	Mortality (oak)	Oak
97	Leaf miner	Hardwoods	205	Fire	All Tree Species	280	Mortality (spruce)	Spruce
98	Leaf miner	Hardwoods	206	Fire	All Tree Species	281	Mortality (oak)	Oak
99	Leaf miner	Hardwoods	207	Fire	All Tree Species	282	Mortality (spruce)	Spruce
100	Leaf miner	Hardwoods	208	Fire	All Tree Species	283	Mortality (oak)	Oak
101	Leaf miner	Hardwoods	209	Fire	All Tree Species	284	Mortality (spruce)	Spruce
102	Leaf miner	Hardwoods	210	Fire	All Tree Species	285	Mortality (oak)	Oak
103	Leaf miner	Hardwoods	211	Fire	All Tree Species	286	Mortality (spruce)	Spruce
104	Leaf miner	Hardwoods	212	Fire	All Tree Species	287	Mortality (oak)	Oak
105	Leaf miner	Hardwoods	213	Fire	All Tree Species	288	Mortality (spruce)	Spruce
106	Leaf miner	Hardwoods	214	Fire	All Tree Species	289	Mortality (oak)	Oak
107	Leaf miner	Hardwoods	215	Fire	All Tree Species	290	Mortality (spruce)	Spruce
108	Leaf miner	Hardwoods	216	Fire	All Tree Species	291	Mortality (oak)	Oak
109	Leaf miner	Hardwoods	217	Fire	All Tree Species	292	Mortality (spruce)	Spruce
110	Leaf miner	Hardwoods	218	Fire	All Tree Species	293	Mortality (oak)	Oak
111	Leaf miner	Hardwoods	219	Fire	All Tree Species	294	Mortality (spruce)	Spruce
112	Leaf miner	Hardwoods	220	Fire	All Tree Species	295	Mortality (oak)	Oak
113	Leaf miner	Hardwoods	221	Fire	All Tree Species	296	Mortality (spruce)	Spruce
114	Leaf miner	Hardwoods	222	Fire	All Tree Species	297	Mortality (oak)	Oak
115	Leaf miner	Hardwoods	223	Fire	All Tree Species	298	Mortality (spruce)	Spruce
116	Leaf miner	Hardwoods	224	Fire	All Tree Species	299	Mortality (oak)	Oak
117	Leaf miner	Hardwoods	225	Fire	All Tree Species	300	Mortality (spruce)	Spruce
118	Leaf miner	Hardwoods	226	Fire	All Tree Species	301	Mortality (oak)	Oak
119	Leaf miner	Hardwoods	227	Fire	All Tree Species	302	Mortality (spruce)	Spruce
120	Leaf miner	Hardwoods	228	Fire	All Tree Species	303	Mortality (oak)	Oak
121	Leaf miner	Hardwoods	229	Fire	All Tree Species	304	Mortality (spruce)	Spruce
122	Leaf miner	Hardwoods	230	Fire	All Tree Species	305	Mortality (oak)	Oak
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125	Leaf miner	Hardwoods	233	Fire	All Tree Species	308	Mortality (spruce)	Spruce
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135	Leaf miner	Hardwoods	243	Fire	All Tree Species	318	Mortality (spruce)	Spruce
136	Leaf miner	Hardwoods	244	Fire	All Tree Species	319	Mortality (oak)	Oak
137	Leaf miner	Hardwoods	245	Fire	All Tree Species	320	Mortality (spruce)	Spruce
138	Leaf miner	Hardwoods	246	Fire	All Tree Species	321	Mortality (oak)	Oak
139	Leaf miner	Hardwoods	247	Fire	All Tree Species	322	Mortality (spruce)	Spruce
140	Leaf miner	Hardwoods	248	Fire	All Tree Species	323	Mortality (oak)	Oak
141	Leaf miner	Hardwoods	249	Fire	All Tree Species	324	Mortality (spruce)	Spruce
142	Leaf miner	Hardwoods	250	Fire	All Tree Species	325	Mortality (oak)	Oak
143	Leaf miner	Hardwoods	251	Fire	All Tree Species	326	Mortality (spruce)	Spruce
144	Leaf miner	Hardwoods	252	Fire	All Tree Species			