



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	Medium Density	18.7	5		Stand was harvested and interplanted with J pine. The regeneration is fairly even mix of J pine and Oak.
2	4122 - Oak, Pine	Medium Density Pole	27.4	Uneven Age	51-80	Stand was harvested by removing J pine. The stand has a lot of w pine poles in it now.
4	4125 - Black, N. Pin Oak	High Density Sapling	17.6	26		Stand is a mixture of oaks and aspen. There are some over story oak, jack pine, and other conifers. The aspen in the stand is in clone pockets more to the southern end of the stand.
6	6129 - Mixed Coniferous Lowland Forest	High Density Pole	44.9	88	141-170	Terrain is hummocky. There is an upland knob in the stand at the west end. This knob has oak and w pine. Going south and east there is more cedar and fir. B spruce is more concentrated along the N edge of the stand.
7	4125 - Black, N. Pin Oak	Medium Density	17.5	5		Stand was interplanted with red pine. Currently the oak makes up the greater % of the crowns. Much of the oak in the stand are hybrids.
8	42220 - Natural Jack Pine	High Density Pole	9.1	83	81-110	Stand is around a gas injection well. The J pine in the stand is declining and there are many snags. Some oak mortality is also present. This stand was left as a buffer too break up the visual impact of a harvest.
9	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	26.2	5		There is some weevil activity in the stand.
11	4130 - Aspen	High Density Sapling	18.8	5		
12	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	26.9	29		Stand is sparse and very bushy.
13	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	10.6	14		New stand added. The stand is undulating and heavy to hardwoods. The jack pine is heavily galled with most of the galls on side branches.
15	6120 - Lowland Cedar	High Density Pole	75.8	88	200+	The stand is very hummocky. The crown closer is around 80%. Some area are very heavy to cedar. In the open areas there are seedling of black ash and black spruce. The area along the creek have some saw logs the diameter decreases going away from the creek.
16	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	3.2	32		Stand was a cedar cut. Some of the areas are very heavy to Balsam fir with out an overstory. The crown closure is high around 90%. Stand is at the base of a hill and is very hummocky. It is wet but drains to Townline Creek Flooding. There an N-type just N of the stand.
17	4310 - Pine, Oak Mix	High Density Sapling	11.7	14		New stand added. The stand is a mix of conifers and hardwoods. The terrain is undulating.



## Inventory Method: IFMAP

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	83.3	15		Stand is a mixture of J pine, B oak, choke cherry, and aspen. The oak, pine, and cherry are evenly distributed. However, the aspen is in clone pockets.
20	42220 - Natural Jack Pine	High Density Pole	19.7	63	111-140	Stand is mature and it is starting to break apart. There is a good amount of oak regeneration throughout the stand. There is a pocket of white pine in the NW corner.
21	42290 - Natural Mixed Pine	High Density Log	10.2	Uneven Age	141-170	The stand grades from red pine to white pine to pine mixed with maple and oak. The white pine goes from sapling to extra large saw logs.
22	42220 - Natural Jack Pine	Medium Density	57.4	14		Stand is mainly upland but there are some inclusions of leather leaf toward the south end of the stand. Jack pine is heavily galled but most galls are on side branches.
23	4133 - Aspen, Mixed Pine	High Density Sapling	26.8	16		
28	4130 - Aspen	High Density Pole	45.9	32		Terrain is undulating. Most of the conifer is on the south and west sides of the stand. Other trace species are Jack Pine and black spruce.
29	4130 - Aspen	High Density Sapling	40.9	17		The stand is variable with area heavier to conifer but mostly it is hardwoods. The ground is hummocky but the soil is of loose sand.
30	4130 - Aspen	High Density Pole	17.8	32	81-110	Stand is undulating. The conifer in stand is in pockets though White Pine regeneration is fairly common in stand.
32	42290 - Natural Mixed Pine	High Density Log	21.4	83	111-140	This stand is undulating with a mixture of upland ridges and lowland depression. The cover types varies from aspen to J pine to R pine. Currently the depression are full of water. Habitat is PVCd on the ridges and PARVCo in the depressions
34	4130 - Aspen	High Density Sapling	78.5	32		Stand is undulating. The cover type varies from aspen to conifer.
37	4310 - Pine, Oak Mix	High Density Pole	7.3	88	81-110	Stand is a mixed stand.
38	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	22.6	74	51-80	Crown Closure is variable going from less than 25% to greater than 75%. The stand also has about 30% upland. Fir is very heavy along the east side.
39	4130 - Aspen	High Density Sapling	10.2	17		
41	6112 - Lowland Aspen	High Density Sapling	19.3	17		Stand was habitat cut. The terrain is hummocky with a lot of slash. The logs in the stand are about 50% decayed. The oak in the stand that was left were poles and have poor form. The stand overall, is mainly lowland but there is about 25% upland present.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	4311 - Pine, Aspen Mix	High Density Sapling	27.4	Uneven Age	81-110	Stand had the hardwoods removed. It has regenerated which is heavy to aspen in the open areas but very low in the dense white pine areas. The terrain is undulating with no significant lowland areas.
45	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	44.6	15		Stand is undulating and was interplanted with J pine. The aspen is in clones mainly in the north half of the stand.
47	4133 - Aspen, Mixed Pine	High Density Sapling	6.8	4		Stand has a pocket of red pine that was left after harvest.
49	6124 - Lowland Spruce- Fir	High Density Pole	18.2	Uneven Age	111-140	Stand has a lot of blow down especially along the west side. There is an upland ridge that is very narrow toward the north end. The stand grades from wet mesic along the east side to very wet along the west.
52	4130 - Aspen	High Density Pole	17.6	32	81-110	Stand is slightly undulating.
53	4130 - Aspen	High Density Pole	37.5	52	111-140	The stand had a major blow down event at the south end.
54	4130 - Aspen	High Density Sapling	25.8	17		The stand is very thick. Some of the Q aspen has hypoxolen canker but it is not extensive. The density of B aspen and Q aspen is variable throughout the stand. Some areas are 80% Q aspen and other areas are 90% B aspen.
55	42330 - Upland Fir	High Density Pole	12.5	Uneven Age	81-110	Stand is on a west facing slope. The center portion of the stand had received some blow down. The newer one is still very open but the older one is filling in with R maple.
56	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	5.0	53	81-110	Stand is an island surrounded by lowland. It is heavy to fir in subcanopy positions
57	6118 - Lowland Deciduous with Cedar	Medium Density Pole	56.9	Uneven Age		Stand is very wet and grades from lowland hardwoods to lowland brush. The cedar in the stand is in pockets so is the balsam fir.
58	4126 - White, Black, N. Pin Oak	High Density Sapling	20.9	26		Stand was harvested and some over story oak was left. Most of it is white oak but some R oak also. The cherry in the understory is a mixture of choke and black. The oak regeneration is good overall.
60	4130 - Aspen	High Density Pole	4.9	26		
61	4319 - Mixed Upland Forest	Medium Density Pole	28.3	69	111-140	Stand is variable going from w Pine to fir to maple. Beaver along the west side have removed the aspen leaving w Pine. The south edge of the stand is a mixture of upland and lowland with it mostly being upland.
62	6121 - Tamarack	High Density Pole	24.6	62	111-140	The tamarack is approximately 48 feet tall and is now overtopping the cedar. The terrain is very hummocky and very wet. The Black ash in the stand appears to have a very low SI and many of the trees have dead tops.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	6123 - Lowland Fir	Medium Density	33.2	17		Stand was cut with pre-inventory stand 52. The aspen has been taken out by beaver. The fir in the stand appears to be residual.
66	4130 - Aspen	High Density Sapling	9.9	4		Stand is mainly upland but there is a low swale through center of stand.
67	4130 - Aspen	High Density Pole	14.3	26	81-110	Stand was harvested leaving some of the white oak as residual. Regeneration is some what patchy with oak and R maple. Stand is also going through a natural thinning.
69	4133 - Aspen, Mixed Pine	High Density Sapling	27.9	6		Stand was harvested leaving the overstory conifer. Regeneration is good and there are conifers seeding into the stand. The conifer regeneration is heavy to white pine.
70	4199 - Other Mixed Upland Deciduous	High Density Pole	9.5	Uneven Age		New stand added. The stand is on a ridge that goes through a lowland type. The aspen and paper birch in the stand is declining and needs to be harvested.
71	4129 - Mixed Oak	High Density Sapling	44.1	17	1-50	Stand is undulating with inclusions of lowlands in small pockets. The conifer in the stand is in scattered pockets. It was harvested leaving some overstory oak and pine. The aspen has regenerated well in most places, also the oak. There is evidence of fire disturbance in the stand.
72	42210 - Natural Red Pine	High Density Log	23.3	69	81-110	Stand is mainly red pine sawlogs with some oak regeneration. The aspen in the stand is toward the north end.
73	4130 - Aspen	High Density Pole	83.8	26	111-140	Stand is undulating and it is currently going through a natural thinning. Stand is very dense.
75	429 - Mixed Upland Conifers	High Density Pole	4.1	74		Stand is an island that is surrounded by L-Type.
76	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	42.1	Uneven Age	111-140	Stand is very hummocky but upland for the most part. The east arm of the stand is the wettest having about 40% lowland. There are areas of heavy blow down on the west side of the stand.
78	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.5	87	1-50	Stand is very wet with catails and lots of stand water. The Black Ash is declining, it looks like the beavers are expanding its pond. Stand will probably an L-type in 10 years.
80	4319 - Mixed Upland Forest	High Density Pole	5.2	87	51-80	Stand is mainly R maple over fir. There are inclusions of lowlands brush. The terrain is very hummocky.
81	6122 - Black Spruce	Medium Density Pole	9.3	92	1-50	This area is sparsely tree but it is still medium stocked. It has areas of catabail and marsh grass. The DBH on average are small. This stand has a lot of tamrack and balsam fir regeneration.
82	6119 - Mixed Lowland Deciduous Forest	High Density Sapling	23.5	27		The stand is a matrix of black ash/ tag alder/Balsam popular.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
86	4130 - Aspen	High Density Sapling	8.1	16		
87	6115 - Lowland Ash	Medium Density Pole	136.2	92	51-80	The stand varies to some degree. The central part of the stand has a higher concentration of birch. Going south in the stand more to maple, yellow birch and green ash is present.
88	4191 - Mixed Upland Deciduous with Conifer	Medium Density	5.1	17		Stand is undulating
89	4129 - Mixed Oak	Medium Density	5.4	4		New stand added. Stand is dryer then Stand to the south pre-inventory stand 90. The aspen regeneration is along the west edge were it is moisten.
90	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	18.0	92	51-80	This is a low area with a lot or standing water. Here is a fair amont of wind throw. Ash has many opening their are more of L- Type.
91	4130 - Aspen	High Density Sapling	38.0	6		The stand is regeneration well. The crown closuer is closer 75%. The stand is an upland ridge.
92	6112 - Lowland Aspen	High Density Sapling	13.1	27		
93	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	7.2	83	1-50	Stand has a lot of blow down. The grounds very hummocky
94	6120 - Lowland Cedar	High Density Pole	55.4	92	141-170	The stand is variable going from black ash to dense cedar. Overall it is heavier to cedar then other species. Some ash regeneration is present through out stand but it is very heavy in scattered areas The stand is a transitional stand between pre-inventory stand 101 and stand 85.
95	6120 - Lowland Cedar	High Density Pole	27.4	83	171-200	Stand has some pockets of blow down. The stand is varible with areas of thick cedar and areas thick with B fir. The terrain is hummocky and mostly lowland, but some upland areas are present. The upland areas are heavy to B fir and maple.
97	4130 - Aspen	High Density Sapling	9.0	4		Stand has regenerated very well.
98	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.6	74	51-80	Stand is a mixture of saps and poles with some super canopy oak. There is a good amount of oak regeneration present. The J pine and pole aspen is declining and needs to be harvested. Leota grade has private land corridor that need to be taken into account.
99	4199 - Other Mixed Upland Deciduous	Medium Density	62.2	4		Stand was interplanted with J pine. The stand has been heavily browsed by deer. Much of the J pine has been damaged. It was clear Cut in 2005 and interplanted in 2007.
100	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	23.4	29		The west arm is heavy to B-ash and the amount birch increases going east along arm. There are opening that are mainly birch and caltails. In the main part of stand it goes to b popular, B fir, B ash, birch and the fir increases going south.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
101	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	21.1	83	81-110	Part of the stand is now flooding by beavers but it is less than 1 acre. The south end is heavy to hardwood in Center and North End it is heavier to conifer.
103	4134 - Aspen, Spruce/Fir	High Density Pole	12.1	74	141-170	Stand is mainly a aspen stand over balsam fir. It is on a N facing slope and it is mostly upland, but grades to lowland near the cedar type N of the stand.
104	4130 - Aspen	High Density Sapling	38.7	6		The stand is about 40% lowland the rest is upland. This stand lay east of a significant ridge. The crown closure around 75%. There are opening area with crown closure of less then 25% and areas were it is 100%.
105	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	15.6	23		Stand is a mixture of uplands and lowlands. The uplands are heavy to fir the lowland are heavy to Q aspen, B popular, and fir. Terrain is hummocky and wet
106	6120 - Lowland Cedar	High Density Pole	373.8	92	171-200	The stand is very thick with small diameter swamp conifer. Cedar in the stand is ok but many have dead tops. There are wind throw opening scattered in these opening have regenerated to B fir. There are heavy Cedar pocket. Also in the stand there inclusion of B ash lowlands brush.
107	4130 - Aspen	High Density Sapling	66.2	17		Stand is undulating with heavy grass ground cover. The bigtooth aspen is concentrated on a knob at the north end of the stand.
108	4134 - Aspen, Spruce/Fir	High Density Sapling	42.2	24	1-50	Stand has a pocket of cedar that is dense. There are areas of low wet ground in pockets. Trees vary in diameter from poles to sap. It is mostly upland.
109	4124 - Red with White Oak	High Density Log	11.7	92	141-170	Stand is undulating. There is a lot of downed old oak in the stand. R maple is fairly well established and will take over the stand if not controlled.
111	4139 - Aspen, Mixed Deciduous	High Density Pole	5.7	Uneven Age	111-140	Stand is hummocky but it is upland. There is a lot of blow down along the south edge of the stand.
112	4199 - Other Mixed Upland Deciduous	High Density Sapling	29.2	24		The stand is on a ridge and is a mixture of aspen and oak some trace species or R Pine, P Birch, W Pine. The ground is slightly hummocky but not bad. the ground cover B Fern and low blueberry.
113	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	17.8	24		Stand is heavily rutted at the N end. The center of the stand is heavier to birch and tamerack in south end heavy to aspen and red maple.
116	4131 - Aspen, Oak	High Density Sapling	22.4	9		Stand is undulating with some wet depressions. Aspen is more dense toward the north end and oak is more common toward the south.
117	42210 - Natural Red Pine	High Density Log	44.7	Uneven Age	111-140	Stand had the hardwoods removed and it has regenerated quite well. There is a good layer of advance oak regeration under the R Pine.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	8.5	23		East edge is upland but this is less than 15% of the stand. Overall the stand is very wet and hummocky.
4130 - Aspen	High Density Sapling	18.2	4		Stand swapped from Non-Forested to Forested. Stand is undulating with some low wet areas. Overall it is 90% upland.
42330 - Upland Fir	High Density Pole	5.5	42	51-80	This is the northern tip of stand 123 that is heavy to fir.
4139 - Aspen, Mixed Deciduous	High Density Pole	14.7	57	111-140	There is a creek running through the stand. The area is about 40% of lowland the rest of the stand is upland as it slope to the creek.
6123 - Lowland Fir	High Density Sapling	6.5	25		Patch harvest of c-type has regenerated and is very thick. Some B spruce in pocket also hardwoods. The cedar in cut is residual nor regeneration.
42290 - Natural Mixed Pine	High Density Log	10.7	Uneven Age	81-110	J pine in the stand is declining. R maple is starting to invade the under story. Stand has inclusions or lowland but it makes up less than 10%. Terrain is hummocky but not very wet.
4319 - Mixed Upland Forest	High Density Pole	19.8	42	81-110	Stand is a mix of hardwood and conifers. The aspen in the stand needs to be cut.
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	8.3	83	81-110	Stand is very wet and has a creek running through it. There is thick regeneration of mainly B fir, some ash, and p birch. The density of the stand decreases going west. There is a lot of blow down in stand.
4191 - Mixed Upland Deciduous with Conifer	Medium Density	11.4	3		Land was recently acquired and previous owner did a real estate cut leaving some overstory trees. Overall the stand is regenerating fairly well.
42220 - Natural Jack Pine	Low Density Pole	6.4	68		Stand swapped from Non-Forested to Forested. This is an area was planted to autumn olive and the Jack pine in the stand now has a crown closure of > 25%
42210 - Natural Red Pine	High Density Log	22.8	Uneven Age	141-170	Stand was cut removing the hardwood. The R pine over story was left. There is a fair amount of oak regeneration occurring in the stand.
4130 - Aspen	High Density Pole	40.1	25		
6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	3.7	23		Stand was habitat cut and has regenerated well. B fir high at N End and aspen at the south end. In 10 years stand will be a pole stand.
6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	79.2	92	111-140	The ground is hummocky and it is a mixture of upland and lowland. Some areas are very wet and others and dry. The majority is lowland. There are open area where crown closure is less than 75%. In these areas the stand is black ash over catails. The edges have high concentration of B fir.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
132	4130 - Aspen	High Density Pole	21.6	25	1-50	Stand is on a ridge and has a fairly decent red maple regeneration mixed with oak. Stand will be a nice pole stand in 10 years.
133	4130 - Aspen	High Density Sapling	24.5	25	1-50	The Q aspen is mainly along the edges of the stand. Overall it a B aspen stand. It should be well stocked pole stand in 10 years.
135	4130 - Aspen	High Density Pole	21.0	40	51-80	Stand is varible with areas of dense trees and areas that are very open. The hawthorn in the stand is both as sapling and as shrub.
136	4134 - Aspen, Spruce/Fir	High Density Log	8.1	74	111-140	Stand is on a ridge. The aspen is greater in the west end and the east end is heavy to B fir. Other trace species are B Cherry, B aspen, tamerack and black spruce.
139	4129 - Mixed Oak	High Density Log	15.2	85	51-80	Stand had some sort of harvest like a selection. Currently the stand is two aged. The oak in the stand is over mature.



Stand	Cover Type	Acres	Gen Cmts:
3	50 - Water	55.1	
5	310 - Herbaceous Openland	4.6	
10	623 - Emergent Wetland	136.0	This is a large area of emergent wetland of marsh grass and catails.
14	6229 - Mixed lowland shrub	13.6	Stand swapped from Forested to Non-Forested. This is a black ash and tag alder swamp. The ash make up less than 25% crown closure.
18	50 - Water	8.5	This is a beaver pond.
24	310 - Herbaceous Openland	1.6	This is and wildlife opening.
25	6225 - Bog	9.6	Stand is filling in with white pine, jack pine , black spruce, and some lowland brush. The crown closer is less than 25%.
26	310 - Herbaceous Openland	1.6	
27	310 - Herbaceous Openland	1.4	
31	310 - Herbaceous Openland	3.5	
33	50 - Water	24.2	This is an active beaver flooding and so there open water.
35	622 - Lowland Shrub	8.8	Stand is mainly leather leaf with some over story trees. The species present are white pine, jack pine, and black spruce. The crown closer is less than 25%
36	6225 - Bog	9.9	New stand added. Stand is surrounded by pre- inventory Stand 28. The cover type is leather leaf while stand 46 is emergent marsh.
40	622 - Lowland Shrub	94.7	
43	622 - Lowland Shrub	24.1	Tag alder with marsh grass in East and going to N-type west
44	6229 - Mixed lowland shrub	13.4	Stand swapped from Forested to Non-Forested. Stand is a lowland brush stand that has some old beaver activity around it
46	622 - Lowland Shrub	6.5	This is an L-type that has some active beaver activity it mainly confined to a depression.



Stand	Cover Type	Acres	Gen Cmts:
48	622 - Lowland Shrub	80.5	This are is mainly marsh grass with tag alder. There are a few black ash around the edges but they are quite spare.
50	622 - Lowland Shrub	6.8	L-Type with some areas of open emergent wetlands but lowland brush for the most part
51	50 - Water	16.7	Stand is a beaver flooding. The water looks down and now the edges are grassy marshes. Beaver activity around stand is old.
59	310 - Herbaceous Openland	13.3	Stand has areas planted to autumn olive and there are others areas of open grass. There are some warm season grasses in these areas.
63	310 - Herbaceous Openland	6.5	
65	622 - Lowland Shrub	13.6	Stand is an emergent marsh of catails and marsh grass had some beaver activity.
68	622 - Lowland Shrub	34.4	
74	6225 - Bog	2.1	
77	622 - Lowland Shrub	37.1	
79	50 - Water	20.9	
83	622 - Lowland Shrub	10.5	This is an old beaver flooding. The dam has a break and now it is more of an emergent marsh.
84	622 - Lowland Shrub	10.6	This is a depression of L-type.
85	622 - Lowland Shrub	13.8	Beaver flooding
96	6225 - Bog	2.0	Stand has leather leaf at north end going to brush south.
102	310 - Herbaceous Openland	3.0	Stand has about 15 % Red Pine cover. There are some warm season grasses present.
110	622 - Lowland Shrub	7.9	This is a lowland area at the base a hill.
114	622 - Lowland Shrub	16.4	This is a old beaver flooding. It is starting to fill in with brush and some conifer and hardwoods.



Stand	Cover Type	Acres	Gen Cmts:
115	310 - Herbaceous Openland	4.5	The stand is an upland brush of autumn olive and some maple coming in.
134	622 - Lowland Shrub	13.0	This is a drainage and is a L-type there with some black ash but the crown closures of less than 25%.
137	50 - Water	1.5	This area appears to be an old barrow pit.
138	622 - Lowland Shrub	1.6	
140	310 - Herbaceous Openland	8.7	