



Inventory Method: IFMAP

Level 4 Cover Type	Size Density	Acres	Multi- Stored?	1st Age	Canopy Closure	BA Range	Upland / Lowland
1 6132 - Mixed Lowland Forest with Cedar	High Density Pole	10.5	No	91	75-100	1-50	Lowland
General Comments:							
Mngt Comments: Used for fishing access to Betsie River= recreational use. A mostly wet site.							
3 6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	2.6	No	76	75-100		Lowland
General Comments:							
Mngt Comments: Very steep hill going down to old river meander and/or possible spring.							
4 4130 - Aspen	High Density Sapling	32.9	No	17	75-100		Upland
General Comments:							
Mngt Comments: Scattered white pine, also, scattered maple, beech leave trees were left.							
6 4116 - Mixed N. Hardwood - Aspen	High Density Sapling	28.7	No	7	75-100		Upland
General Comments:							
Mngt Comments:							
7 4110 - Sugar Maple Association	High Density Log	32.9	No	81	75-100	141-170	Upland
General Comments:							
Mngt Comments: Many springs/creeks at various locations feeding into the Betsie River. Lots of variable topography. Slopes=55%							
8 42110 - Planted Red Pine	High Density Sapling	31.3	No	13	75-100		Upland
General Comments:							
Mngt Comments: planted redpine and volunteer jack. % of species cover is a guess due to poor imagery.							
9 4130 - Aspen	High Density Pole	37.6	No	37	75-100	1-50	Upland
General Comments:							
Mngt Comments: Nice healthy young aspen stand.							
10 4110 - Sugar Maple Association	High Density Sapling	4.6	No	21	75-100		Upland
General Comments:							
Mngt Comments: small parcel of hardwood "edge trees" that were cut with stand to west. Nice saplings.							



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12 4119 - Mixed Northern Hardwoods	High Density Log	35.3	No	76	75-100	81-110	Upland
General Comments:							
Mngt Comments: Good quality hardwoods. Some blow-downs from july 2006 storm. Portion of stand was thinned in 1990 where higher BA's were present. Average of 6 BA swings= 97							
14 4116 - Mixed N. Hardwood - Aspen	High Density Log	23.9	No	61	75-100		Upland
General Comments: Contains springs & ravines. Humicky ground--high water table. Scattered hemlock and a few yellow birch and ash.							
Mngt Comments: Mgt= for mix of hardwoods: could thin maple areas then clearcut small patches where aspen concentrations are heaviest. Would have to carefully work around springs.							
15 4130 - Aspen	High Density Pole	59.1	No	34	75-100	1-50	Upland
General Comments: Good quality Aspen, also has some white ash & paper birch.							
Mngt Comments:							
16 4119 - Mixed Northern Hardwoods	High Density Log	26.0	No	78	75-100	81-110	Upland
General Comments:							
Mngt Comments: Slender strip of land between highway M-115 and powerline. Some nice quality red maple and cherry.							
17 4130 - Aspen	High Density Pole	10.1	No	55	75-100		Upland
General Comments: This area had old homesteading site of some sort--had orchard trees, some old clearings, a couple old walnut trees.. Also, where an old bridge use to cross Betsie River.							
Mngt Comments: Many natural springs creating creeks down to Betsie River. Allow aspen to "fall-out" of stand by natural succession to keep springs and creeks shaded.							
20 4130 - Aspen	High Density Pole	9.0	No	40	75-100	1-50	Upland
General Comments:							
Mngt Comments: Mostly upland, some creeks/springs & wet areas.							
21 4130 - Aspen	High Density Pole	9.9	No	33	75-100		Upland
General Comments: Most of stand is on north facing aspect of a gentle hill going toward Dair Creek. Also has some Cedar & Cherry too.							
Mngt Comments:							
22 4116 - Mixed N. Hardwood - Aspen	High Density Sapling	9.2	No	33	75-100		Upland
General Comments: Lots of variable ground cover plants.							
Mngt Comments:							



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Level 4 Cover Type	Size Density	Acres	Multi- Storied?	1st Age	Canopy Closure	BA Range	Upland / Lowland
23 4110 - Sugar Maple Association	High Density Log	56.0	No	81	75-100	111-140	Upland
General Comments:	Medium quality.						
Mngt Comments:	If harvest, do some small clearcuts in areas of aspen especially west & NW sides.						
24 6119 - Mixed Lowland Deciduous Forest	High Density Log	24.1	No	62	75-100	1-50	Lowland
General Comments:	Some ash regen 1 to 3 feet tall.						
Mngt Comments:	Many springs & wet areas.						
25 6120 - Lowland Cedar	High Density Pole	45.7	No	78	75-100	81-110	Lowland
General Comments:	Lots of course woody debris.						
Mngt Comments:							
26 4119 - Mixed Northern Hardwoods	Medium Density Pole	82.0	No	65	50-75		Upland
General Comments:	Poles are nice, but larger trees are mostly multi-stem wolfy trees. Some good pockets of aspen clones.						
Mngt Comments:							
27 4110 - Sugar Maple Association	High Density Log	17.3	No	120	75-100	51-80	Upland
General Comments:							
Mngt Comments:	Thinned in 2002.						
28 4130 - Aspen	High Density Log	44.9	No	58	75-100	81-110	Upland
General Comments:	Also contains white ash, beech, white pine, paper birch. Quite a bit of windthrow from July 06 windstorm.						
Mngt Comments:	Harvest to regenerate and expand aspen component. Aspen nice...but will start to fall apart soon...need to cut. Leave some sugar, cherry, and all paper birch, pine, beech.						
29 4130 - Aspen	High Density Sapling	35.3	No	8	75-100		Upland
General Comments:							
Mngt Comments:							
30 4112 - Maple, Beech, Cherry Association	High Density Log	29.6	No	81	75-100	81-110	Upland
General Comments:							
Mngt Comments:	Lots of springs/creeks,(+ moist soils) that drain into the Betsie River. Also quite hilly. Due to above info --logistics for logging not possible.						



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Stand	Level 4 Cover Type	Size Density	Acres	Multi-Storied?	1st Age	Canopy Closure	BA Range	Upland / Lowland
32	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	4.5	No	41	50-75	1-50	Upland
General Comments:	Semi-open Some scattered old apple trees. Low quality site.							
Mngt Comments:	Consider cutting down all scotch pine (there are also some seedlings & saps too) to help stop spreading of seed.							
34	4110 - Sugar Maple Association	High Density Log	42.8	No	76	75-100	81-110	Upland
General Comments:	Several springs that feed into Betsie River. Lots of ground, indicator plants. Also has occasional elm, paper birch, white ash, beech.							
Mngt Comments:	Very good quality timber. 10 acres of stand was thinned in 2000.							
35	4139 - Aspen, Mixed Deciduous	High Density Log	8.7	No	76	75-100	51-80	Upland
General Comments:	Lots of ground flora moist fragile soils..especially west. Unsure of stand line accuracy due to poor imagery. Contains some areas of larger DBH aspen.							
Mngt Comments:	Lots of wet areas draining into a spring & creek that flows to Betsie River. West side of stand= Allow aspen to "fall out" of stand by natural succession sugar maple saps will take over. East side = could cut for aspen regen if wanted.							
36	4112 - Maple, Beech, Cherry Association	High Density Log	20.4	No	76	75-100	141-170	Upland
General Comments:	Also contains some yellow birch & cherry.							
Mngt Comments:	Selection thin. Mid- grade hardwoods. quite a few multi-stem trees.							
37	4110 - Sugar Maple Association	High Density Log	10.7	No	76	75-100	81-110	Upland
General Comments:								
Mngt Comments:	Low quality hardwood site.							
40	4110 - Sugar Maple Association	Low Density Pole	6.7	No	71	25-50	1-50	Upland
General Comments:	SGG 11/17/07 - Discuss with Craig regarding treating this stand to maintain it as Low Density Trees by some hand felling. This stand was typed as "U" last entry period and has since been encroached upon. Found BC, hawthorn, juneberry, witch hazel, choke cherry, various deciduous saplings, strawberry, some grasses, and bracken.							
Mngt Comments:	Low quality timber Very dry upland site.							
42	42110 - Planted Red Pine	High Density Pole	11.6	No	55	75-100	111-140	Upland
General Comments:								
Mngt Comments:	Possibly clearcut these strips with adjacent strips (stand 38) of thick jack pine sap regen...then replant all of the area to red pine.= wait till adjacent jack is merchantable then clearcut and replant to redpine. also has some scattered apple trees							
43	4130 - Aspen	High Density Pole	37.1	No	34	75-100		Upland
General Comments:								
Mngt Comments:								



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Stand	Level 4 Cover Type	Size Density	Acres	Multi-Storied?	1st Age	Canopy Closure	BA Range	Upland / Lowland
44	42220 - Natural Jack Pine	High Density Sapling	16.3	No	14	75-100		Upland
General Comments:	some scattered old apple trees.							
Mngt Comments:	These are strips that were clearcut and now natural, thick regen occurred. May cut and replant with adjacent strips (stand 42) of red pine. Wait till this jack is merchantable, then clearcut with adjacent strips of redpine and replant all of this area to redpine.							
45	4110 - Sugar Maple Association	High Density Log	80.1	No	81	75-100	81-110	Upland
General Comments:	Quality and BA lowers heading east. Big DBH aspen zone in vally, west side where spring/seep going to Dair Creek.							
Mngt Comments:	Medium quality N. hardwoods. Not much ground plants.							
46	4112 - Maple, Beech, Cherry Association	High Density Pole	16.8	No	76	75-100	81-110	Upland
General Comments:								
Mngt Comments:	Decent quality hardwoods. not much for ground plants.							
47	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	3.6	No	45	50-75	1-50	Upland
General Comments:								
Mngt Comments:	Low quality timber.							
48	42310 - Planted Spruce	High Density Pole	21.9	No	46	75-100	51-80	Upland
General Comments:								
Mngt Comments:	Rows difficult to distinguish. Betsie vally Pathway goes thru stand.							
49	42110 - Planted Red Pine	High Density Log	11.7	No	61	75-100	200+	Upland
General Comments:								
Mngt Comments:	Approx 5 rows wide along road Most likely was planted for prevention of soil erosion/ wind break.							
51	42110 - Planted Red Pine	High Density Log	7.5	No	61	75-100	200+	Upland
General Comments:								
Mngt Comments:	5 rows wide, planted along road. some small pockets of mortality in the red pine.							
52	42120 - Planted Jack Pine	High Density Pole	7.7	No	54	75-100	111-140	Upland
General Comments:								
Mngt Comments:	Poor quality jack pine. Kept for diversity/wildlife cover??							



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53 42200 - Natural White Pine	Medium Density Log	5.6	No	41	50-75	1-50	Upland
General Comments:	Some elm saps too.						
Mngt Comments:							
54 4139 - Aspen, Mixed Deciduous	Medium Density	56.4	No	18	50-75		Upland
General Comments:	% cover is a guesstimate due to poor imagery.						
Mngt Comments:	Also contains some sugar maple.						
56 42310 - Planted Spruce	High Density Pole	10.3	No	45	75-100	81-110	Upland
General Comments:	Some old apple orchard trees mixed-in. Most of these trees are in very poor health or dead snags.						
Mngt Comments:	Rows still very distinct - not "closed-in" yet...open spots.						
58 4112 - Maple, Beech, Cherry Association	High Density Log	10.7	No	45	75-100	81-110	Upland
General Comments:	South side of M-22 has scattered red pine from failed plantation area...retain this for species diversity.						
Mngt Comments:	Mid to low quality hardwoods. Lots of multi-stem trees.						
59 4112 - Maple, Beech, Cherry Association	High Density Log	11.3	No	78	75-100	51-80	Upland
General Comments:							
Mngt Comments:	Low to medium quality hardwood.						
60 42110 - Planted Red Pine	High Density Log	1.5	No	61	75-100	200+	Upland
General Comments:							
Mngt Comments:	Just a few rows...planted as windbreak. 53' tall						
63 42311 - Planted Spruce, Mixed Deciduous	High Density Pole	7.5	No	45	75-100	51-80	Upland
General Comments:	Many scattered old apple orchard trees. Many nice natural openings.						
Mngt Comments:	Great wildlife cover/habitat.						
64 4319 - Mixed Upland Forest	High Density Pole	11.2	No	45	75-100	51-80	Upland
General Comments:	White pine was planted among and under existing hardwoods. Hardwoods= average quality.						
Mngt Comments:	Some weevil damage but overall nice form & condition of white pine.						



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66	4110 - Sugar Maple Association	High Density Log	11.9	No	66	75-100	51-80	Upland
General Comments:								
Mngt Comments: Low quality hardwoods. Betsie River Pathway goes through in 2 places plus adjacent to trail head parking lot.								
67	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	20.0	No	66	75-100	81-110	Upland
General Comments: Also, occasional elm tree.								
Mngt Comments: Mid to low quality hardwoods with white pine planted under or around. Weevil damage to pine approx 40%.								
68	42320 - Upland Spruce	High Density Pole	13.3	No	44	75-100	81-110	Upland
General Comments:								
Mngt Comments: Diverse mix of species and canopy levels. Spruce was planted in 1963 between existing hardwoods.								
69	4319 - Mixed Upland Forest	High Density Pole	5.2	No	45	75-100	81-110	Upland
General Comments: Much of lower branches of spruce are dead or in process of self pruning due to minimal sunlight.								
Mngt Comments: Hardwoods = lower quality & lots of multi-stem trees.								
71	4112 - Maple, Beech, Cherry Association	High Density Pole	68.0	No	66	75-100	51-80	Upland
General Comments: occasional elm tree								
Mngt Comments: Lower quality timber. very dry site. Some scattered natural openings. varying densities.								
72	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	21.7	No	45	75-100	171-200	Upland
General Comments:								
Mngt Comments: Could possibly row thin...but rows come & go in areas and thick hardwood sub canopy in areas too. RP= 40' tall								
73	429 - Mixed Upland Conifers	High Density Pole	8.2	No	45	75-100	51-80	Upland
General Comments:								
Mngt Comments: Betsie pathway goes thru stand. White pine in good shape, not much weevil damage. Quite dense with saps.								
74	4119 - Mixed Northern Hardwoods	High Density Pole	5.9	No	78	75-100	81-110	Upland
General Comments: Elm regen & pole size trees present too.								
Mngt Comments: Low quality hardwoods.								



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Stand	Level 4 Cover Type	Size Density	Acres	Multi-Storied?	1st Age	Canopy Closure	BA Range	Upland / Lowland
78	4119 - Mixed Northern Hardwoods	High Density Log	28.2	No	81	75-100	51-80	Upland
General Comments:	+ some scattered ash.							
Mngt Comments:	Lower quality--Lots of multi-stem trees.							
80	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	54.9	Yes		75-100	81-110	Upland
General Comments:	Spruce planted among and under hardwoods. Mix of species and canopy heights.							
Mngt Comments:	I believe aspen is same age as spruce--possible sprouting after disturbance of planting furrows? Could possibly release spruce and regen & expand aspen component by cutting most of the hardwoods. or aspen could easily wait 10 years. Would recommend cut only east of Betsie pathway and leave slight buffer along trail edge.							
81	4112 - Maple, Beech, Cherry Association	High Density Log	20.0	No	74	75-100	81-110	Upland
General Comments:								
Mngt Comments:	Low quality.							
82	4139 - Aspen, Mixed Deciduous	Medium Density Pole	5.2	No	41	50-75	1-50	Upland
General Comments:								
Mngt Comments:	Very thick cover of ironwood & witch hazel. Most area may convert or expand to aspen. Too young for cutting yet.							
83	42110 - Planted Red Pine	High Density Pole	77.6	No	45	75-100	171-200	Upland
General Comments:	Scattered cherry.							
Mngt Comments:	Needs 1st thinning (every 3rd row) Most larger DBH hardwoods were removed or girdled in the 1970's.							
84	42110 - Planted Red Pine	High Density Pole	12.8	No	45	75-100	111-140	Upland
General Comments:								
Mngt Comments:	First thinning was done in 1999.							
85	42100 - Planted White Pine	High Density Pole	2.0	No	45	75-100	141-170	Upland
General Comments:								
Mngt Comments:	Treat this stand with adjacent compartment 29 to the south. Not much weevil damage.							
87	4311 - Pine, Aspen Mix	High Density Pole	54.7	No	45	75-100	111-140	Upland
General Comments:	Most of hardwoods were cut or girdled in 1970's as a part of a TSI operation. Many of the cherry resprouted.							
Mngt Comments:	Could cut all hardwoods (except elm) to allow regen/expansion of aspen , then mark pine heavily. This could easily wait another 10 years (or more) if necessary.							



	Level 4 Cover Type	Size Density	Acres	Multi- Stored?	1st Age	Canopy Closure	BA Range	Upland / Lowland
89	42140 - Planted Mixed Pine	High Density Pole	9.3	No	45	75-100	81-110	Upland
General Comments:								
Mngt Comments:	Variable BA's and species composition. Some weevil damage...but overall, not bad. Most cherry & other hardwoods were girdled or cut (TSI operation), then re-sprouted @stumps.							
91	42110 - Planted Red Pine	High Density Pole	10.8	No	45	75-100	111-140	Upland
General Comments:	Height = 55'							
Mngt Comments:								



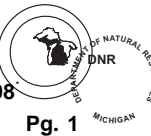
Stand	Cover Type	Acres	Gen Cmts:	Mgt Cmts:
2	11 - Low Intensity Urban	1.6	Utility ROW through lowland conifer stand.	
5	6229 - Mixed lowland shrub	2.8	Along Dair Creek.	
11	31021 - Cool Season Grass	4.9	This is a portion of an aspen cut along the edge that did not regenerate.	Maintain brushy cover along edge of non-forested stand. May need to hand fell a few saplings within the stand to facilitate further management of herbaceous component. Mow and top dress grass as needed during this 10 yr rotation. May find an occasional stump or bit of slash.
13	6229 - Mixed lowland shrub	8.1	Lowland shrub community along Dair Creek.	
18	3204 - Mast Producing Shrub	25.4	Ragweed, strawberry, bracken, rubus, qa poles, juniper, honeysuckle, hawkweed, lycopodium around some trees, Lombardy poplar along road. Deer and turkey tracks. Black walnut and chestnut per Craig Allen.	Prune apples. Otherwise this is a nice upland shrub community.
19	3301 - Low Density Deciduous Tree	1.4		Check for need of hand felling while working on other prescribed openings in the compartment.
31	6229 - Mixed lowland shrub	19.9	Lowland shrub along Betsie River.	
33	3301 - Low Density Deciduous Tree	2.7	Some of the juneberry appeared to have bear browse damage. Scattered autumn olive, common cinquefoil, some CSG and daisies along two track. Possible dust bowl. Some skw, sjw, hawkweed.	Two track access to this stand. Hand fell woody encroachment. Will need lots of work.
38	3301 - Low Density Deciduous Tree	2.2		Check for need of hand felling while working on other prescribed openings in the compartment.
39	11 - Low Intensity Urban	16.9		M-115



Stand	Cover Type	Acres	Gen Cmts:	Mgt Cmts:
41	11 - Low Intensity Urban	21.9	Unlisted species is hoary alyssum. Second unlisted species is golden rod.	Powerline clearing.
50	3204 - Mast Producing Shrub	74.0	Old orchards.	Prune apple trees.
55	3204 - Mast Producing Shrub	25.6	Old orchard with grass.	Prune apple trees.
57	3301 - Low Density Deciduous Tree	28.1	Unlisted species is hoary alyssum. The apple trees range from some dead to some that look good and some in between. Sjlw, moss, rice grass. Occasional juniper and spruce.	Prune apple trees and use prunings for brush piles. Logistically and ease of access/operability would make this a good spot for a grass planting. Borders private property on east and west.
61	11 - Low Intensity Urban	1.2	King Rd.	
62	3105 - Mixed Upland Herbaceous	2.6	Unlisted species is goldenrod. Second unlisted species is ironwood saplings. hawkweed, straeberry, goats beard, shrubby browsed IW, occ hawthorn seedling, occ sm pole/log, dogbane. Occ sedge pocket.	Old landing site. Some bumps but otherwise level. Would be nice if it had a better forage component. At least selectively handfell woody encroachment to maintain opening. This should be enough for this entry period. Maybe next entry cycle seed in additional grasses.
65	11 - Low Intensity Urban	1.3		
70	3105 - Mixed Upland Herbaceous	9.8		This 10 acre square stand is bordered by private property on 3 sides (W, S, E). FMFM would like to plant to pine. Agreed to this as there is not much habitat management potential as is. A young pine stand will offer some nesting and cover components to adjacent hardwood stand.
75	3301 - Low Density Deciduous Tree	3.3	Unlisted species is goldenrod. Second unlisted species is ironwood. Hawkweed, mint sp, rose sp, moss, seedlings, occ elm pole, strawberry. Nice juneberries! Bear damaged juneberries.	Encroached upon so that now this opening has become a series of small forest openings. Some will be difficult to reconnect to main stand. First one can be seen from the pathway. Selectively cut back encroachment to perpetuate the non-forest type and mixture of thickets (qa & rm). Foot access only. May want to delineate work area prior to field work. Probably 2 people for 2 days.



Stand	Cover Type	Acres	Gen Cmts:	Mgt Cmts:
76	3303 - Mixed Low Density Trees	19.6	Unlisted species is hoary alyssum. CSG, poverty grass, mullin, rp saps, rice grass, rubus, occ shrubby pine, occ rm pole/log. Small patches of bracken. A small patch of LBS. Occ choke cherry. Badger excavation. Minor encroachment of qa in NW corner. Failed attempt at a grass planting here?	This stand is only a short distance from M-115. 1. Consider native wsg planting leaving all woody vegetation but seedlings. Could cut some patches of bc. Preserve sumac (seedlings) along two track.
77	11 - Low Intensity Urban	1.0	This is basically Joyfield Rd and very small opening adjacent to road.	
79	3105 - Mixed Upland Herbaceous	6.6		
86	3303 - Mixed Low Density Trees	4.1	Maple-leaf viburnum, bracken, goldenrod, strawberry, rice grass, BTA and rm poles, sheep sorrel, hoary alyssum, milkweed, daisy fleabane, sjq, sedge, one wp log. Spruce along west edge of west finger of stand. There is a trail going north from west finger along rp stand.	Selectively hand fell. Maybe girdle some of the logs. After handfelling, consider removing skw and adding forage species. Problem is there won't be much light and most of this stand is along a forest road.
88	3105 - Mixed Upland Herbaceous	1.0	Unlisted species is goldenrod. Hawkweed, mint, sjw, strawberry, sheep sorrel, current?, rubus, bedstraw, mullin, some hawthorn seedlings, witch hazel, honeysuckle, goatsbeard. Excellent small forest opening. Main portion though is choked with skw. Lots of edge.	Along an old RR grade. Foot access only. Selectively hand fell some woody encroachment. Consider removing the skw/lvs and adding grasses. This would be a 4x4 quad type food plot.
90	3105 - Mixed Upland Herbaceous	9.0	Some cherry and juneberry.	Adjacent to private property on south and east.



SPECIAL CONSERVATION AREA* (SCA) DETAILS

Inventory Method: IFMAP

Stand	SCA Name	Acres
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* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Comments