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Inventory Method: IFMAP

Pg. 1

| | Level 4 Cover Type | Size Density | Acres | Multi- Stored? | 1st Age | Canopy Closure | BA Range | Upland / Lowland |
|--------------------------|---|--|-------|-------------------|------------|-------------------|-------------|---------------------|
| 1 | 42110 - Planted Red Pine | High Density Log | 8.3 | No | 59 | 75-100 | 51-80 | Upland |
| General Comments: | | Nice pockets of variable regen. | | | | | | |
| Mngt Comments: | | A more natural looking stand with variable species and stand structure than adjacent plantation area to the south. Small natural gaps & holes. | | | | | | |
| 2 | 4112 - Maple, Beech, Cherry Association | High Density Log | 6.1 | No | 76 | 75-100 | 81-110 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | | Nice red maple and a few sugar Has some nice small natural openings. | | | | | | |
| 4 | 4112 - Maple, Beech, Cherry Association | High Density Log | 3.7 | No | 76 | 75-100 | 51-80 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | | Decent quality in east area. A couple oaks & beech in east area. | | | | | | |
| 5 | 42110 - Planted Red Pine | High Density Log | 95.9 | No | 59 | 75-100 | 141-170 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | | Already row-thinned Needs another thinning (3rd tree) | | | | | | |
| 6 | 4119 - Mixed Northern Hardwoods | High Density Log | 15.4 | No | 71 | 75-100 | 51-80 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | | Good Oak Some nice Cherry. | | | | | | |
| 7 | 6120 - Lowland Cedar | Medium Density Pole | 27.6 | No | 97 | 50-75 | | Lowland |
| General Comments: | | Lots of blowdowns. Some cedar regen in spots where deer can't get at them. (6" to 2' tall) But most regen is balsam fir. | | | | | | |
| Mngt Comments: | | | | | | | | |
| 9 | 4130 - Aspen | High Density Pole | 25.0 | No | 52 | 75-100 | | Upland |
| General Comments: | | & Occasional beech. | | | | | | |
| Mngt Comments: | | Wait another 10 or 20 years to cut so can stagger age class with adjacent stand 15 to be cut this YOE. | | | | | | |
| 10 | 4130 - Aspen | High Density Pole | 8.4 | No | 49 | 75-100 | 1-50 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | | Some undesigantated hiking paths along the river used by campers in the adjacent State Grasslake campground. Stagger age with stand north of campground | | | | | | |



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| 12 42110 - Planted Red Pine | High Density Log | 11.4 | No | 59 | 75-100 | 81-110 | Upland |
| General Comments: | Jack pine removed in 2000. | | | | | | |
| Mngt Comments: | | | | | | | |
| 14 42200 - Natural White Pine | High Density Log | 2.9 | No | 91 | 75-100 | 1-50 | Upland |
| General Comments: | Park- like understory 6" to 1' oak seedlings present. | | | | | | |
| Mngt Comments: | | | | | | | |
| 15 4130 - Aspen | High Density Pole | 10.3 | No | 48 | 75-100 | | Upland |
| General Comments: | occasional oak sap or pole. park-like open understory. | | | | | | |
| Mngt Comments: | Do not cut in south tip where topography drops down and no aspen there. | | | | | | |
| 17 4130 - Aspen | High Density Pole | 28.9 | No | 28 | 75-100 | | Upland |
| General Comments: | Variable terrain. Some higher ground. Occasional sugar maple. | | | | | | |
| Mngt Comments: | | | | | | | |
| 19 6119 - Mixed Lowland Deciduous Forest | Medium Density Pole | 22.3 | No | 28 | 50-75 | 1-50 | Lowland |
| General Comments: | | | | | | | |
| Mngt Comments: | River flood plain and old cut-off river meander area. wet. | | | | | | |
| 20 4130 - Aspen | High Density Sapling | 32.0 | No | 18 | 75-100 | | Upland |
| General Comments: | % cover is guesstimate. Contains many scattered large DBH oak trees - mostly red oak. | | | | | | |
| Mngt Comments: | | | | | | | |
| 21 6113 - Lowland Maple | High Density Log | 8.3 | No | 85 | 75-100 | 51-80 | Lowland |
| General Comments: | | | | | | | |
| Mngt Comments: | Wet, lowland, floodplain hardwoods. Some nice timber here. Would be too wet for logging. | | | | | | |
| 22 4116 - Mixed N. Hardwood - Aspen | High Density Log | 7.4 | No | 76 | 75-100 | | Upland |
| General Comments: | | | | | | | |
| Mngt Comments: | | | | | | | |



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|------------------------------|---|----------------------|-------------------|------------|-------------------|-------------|---------------------|---------|
| 23 | 6112 - Lowland Aspen | High Density Pole | 9.8 | No | 61 | 75-100 | 1-50 | Lowland |
| General Comments: | 1/2 upland 1/2 lowland. | | | | | | | |
| Mngt Comments: | Nice healthy aspen. Mostly river flood plain area too fragile for logging equipment. Also, alot of the stand is within Natural River setbacks & conditions. | | | | | | | |
| 25 | 42110 - Planted Red Pine | High Density Log | 24.8 | No | 59 | 75-100 | 111-140 | Upland |
| General Comments: | Was row-thinned in 2000. Was alternating rows of red & jack. jack has died out. | | | | | | | |
| Mngt Comments: | I took 6 BA swings, avg= 132 | | | | | | | |
| 26 | 42310 - Planted Spruce | High Density Pole | 19.1 | No | 47 | 75-100 | 81-110 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | Provides winter deer cover Benifit to row thin? To keep lower branches from self-pruning. & get some more open spots. | | | | | | | |
| 28 | 42310 - Planted Spruce | High Density Pole | 32.3 | No | 47 | 75-100 | 81-110 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | Interior trees: Lower limbs naturally dying back from self-pruning due to lack of sunlight. Could possibly thin to open-up stand to more sunlight to help retain lower limbs (for wildlife cover) if deemed necessary. | | | | | | | |
| 29 | 4116 - Mixed N. Hardwood - Aspen | Low Density Pole | 8.7 | No | 51 | 25-50 | 1-50 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | Mostly small pole size 6" dbh stand & heavy to saps understory with scattered larger trees. | | | | | | | |
| 33 | 4139 - Aspen, Mixed Deciduous | High Density Pole | 45.8 | No | 31 | 75-100 | 1-50 | Upland |
| General Comments: | & some scattered oak saps. | | | | | | | |
| Mngt Comments: | | | | | | | | |
| 35 | 42110 - Planted Red Pine | High Density Pole | 6.2 | No | 47 | 75-100 | 171-200 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | Never thinned. Due to size, would only be feasible to thin if when a nearby red pine stand is thinned too. | | | | | | | |
| 36 | 42110 - Planted Red Pine | High Density Log | 37.3 | No | 59 | 75-100 | 81-110 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: | | | | | | | | |



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|--|---|-------------------|-------|-------------------|------------|-------------------|-------------|---------------------|
| 41 | 42100 - Planted White Pine | High Density Pole | 1.2 | No | 41 | 75-100 | 51-80 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: Small pine areas --planted for wildlife cover? | | | | | | | | |
| 42 | 4130 - Aspen | High Density Pole | 233.6 | No | 37 | 75-100 | | Upland |
| General Comments: Also contains scattered w pine saps and scattered white oak saps. Lots of course woody debris. | | | | | | | | |
| Mngt Comments: Cut a couple areas to begin staggering the aspen age class in this area. | | | | | | | | |
| 43 | 42310 - Planted Spruce | High Density Pole | 1.0 | No | 47 | 75-100 | 1-50 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: Two small "islands" Keep for small areas of wildlife cover and diversity. | | | | | | | | |
| 44 | 42210 - Natural Red Pine | High Density Pole | 2.8 | No | 61 | 75-100 | 81-110 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: A natural stand of RP Humicky ground - high water table. | | | | | | | | |
| 46 | 4130 - Aspen | High Density Pole | 22.0 | No | 37 | 75-100 | | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: Very high water table--seasonably flooded. | | | | | | | | |
| 49 | 42101 - Planted White Pine, Mixed Deciduous | High Density Pole | 14.0 | No | 59 | 75-100 | 111-140 | Upland |
| General Comments: 1/3 to 1/2 weevil damaged WP. | | | | | | | | |
| Mngt Comments: Seasonably wet--high water table. Rows are quite hard to follow in places. Would most likely have to mark trees to thin. | | | | | | | | |
| 50 | 42101 - Planted White Pine, Mixed Deciduous | High Density Pole | 26.5 | No | 59 | 75-100 | 111-140 | Upland |
| General Comments: | | | | | | | | |
| Mngt Comments: Rows are hard to distinguish in some areas. Would likely have to mark to thin. High water table "humicky" ground, some wet spots. | | | | | | | | |
| 55 | 6113 - Lowland Maple | High Density Pole | 30.6 | No | 76 | 75-100 | | Lowland |
| General Comments: | | | | | | | | |
| Mngt Comments: Standing water--Lots of ground vegetation Lots of swamp cabbage. | | | | | | | | |



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| Level 4 Cover Type | Size Density | Acres | Multi- Storied? | 1st Age | Canopy Closure | BA Range | Upland / Lowland | |
|---|----------------------|---------------------|--------------------|------------|-------------------|-------------|---------------------|---------|
| 56 | 6112 - Lowland Aspen | High Density Pole | 80.3 | No | 37 | 75-100 | Lowland | |
| General Comments: | | | | | | | | |
| Mngt Comments: Very wet. Most of year, Seasonably? | | | | | | | | |
| 58 | 6113 - Lowland Maple | Medium Density Pole | 31.2 | No | 37 | 50-75 | 1-50 | Lowland |
| General Comments: | | | | | | | | |
| Mngt Comments: Wet--flooded timber. | | | | | | | | |
| 60 | 4130 - Aspen | High Density Pole | 58.0 | No | 37 | 75-100 | 1-50 | Upland |
| General Comments: Also, has some scattered White pine of various size and age class. | | | | | | | | |
| Mngt Comments: Barely merchantable size. | | | | | | | | |
| 61 | 6113 - Lowland Maple | High Density Log | 63.3 | No | 76 | 75-100 | 81-110 | Lowland |
| General Comments: | | | | | | | | |
| Mngt Comments: Too wet to consider logging operations...standing water in most locations of stand. | | | | | | | | |
| 63 | 6112 - Lowland Aspen | High Density Pole | 104.4 | No | 37 | 75-100 | 1-50 | Lowland |
| General Comments: Also has some ash, birch, elm | | | | | | | | |
| Mngt Comments: Mostly Wet. | | | | | | | | |
| 66 | 4130 - Aspen | High Density Pole | 42.6 | No | 37 | 75-100 | 1-50 | Upland |
| General Comments: Stand is on ridge line. | | | | | | | | |
| Mngt Comments: Occasional white oak, (sap & pole). | | | | | | | | |
| 67 | 6122 - Black Spruce | High Density Pole | 2.4 | No | 61 | 75-100 | | Lowland |
| General Comments: | | | | | | | | |
| Mngt Comments: Wet--bog Variable heights of spruce | | | | | | | | |
| 70 | 6122 - Black Spruce | Medium Density Pole | 28.4 | No | 76 | 50-75 | | Lowland |
| General Comments: Black Spruce Cedar paperbirch red maple | | | | | | | | |
| Mngt Comments: Standing water | | | | | | | | |
| Comments: Stand part of original Potential Old Growth designated area | | | | | | | | |



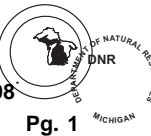
| Stand | Cover Type | Acres | Gen Cmts: | Mgt Cmts: |
|-------|-----------------------------------|-------|---|--|
| 3 | 3105 - Mixed Upland Herbaceous | 1.1 | | Hand fell woody encroachment. |
| 8 | 3105 - Mixed Upland Herbaceous | 3.4 | This is a nice forest opening situated near the edge of the Grass Lake Flooding. | Hand fell woody encroachment to maintain opening. |
| 11 | 11 - Low Intensity Urban | 8.8 | Grass Lake State Forest Campground. | |
| 13 | 3301 - Low Density Deciduous Tree | 32.0 | Also found sjw, skw, strawberry, rubus, cladonia, moss, goldenrod, sheep sorrel. Starting to fill in with woody encroachment. | Terrain is generally flat and operable. Propose to hand fell some encroachment, burn, then plant native prairie species, centered around road to Grass Lake Campground. |
| 16 | 50 - Water | 33.3 | Betsie River | |
| 18 | 6239 - Mixed Emergent Wetland | 201.8 | Cattails, marsh grasses, willow, alder, probable glossy buckthorn in areas. High concentration of cattails. | This is part of the Grass Lake Flooding State Wildlife Management Area. This SWMA is contains the Grass Lake Wildlife Dam, which is located adjacent to stand 11 (campground). Management of this SWMA will be based on the Management Plan which has begun to be updated. |
| 24 | 3301 - Low Density Deciduous Tree | 22.8 | This stand was inventoried in the field and is essentially a continuation of stand 31, where the complete data has been entered and comments and management considerations have been logged. Also found some autumn olive here. | See stand 31. |
| 27 | 2113 - Forage Crops | 14.3 | This field is currently planted to a grass/clover mix and is maintained on an annual basis. | Continue to maintain this wildlife opening as a pasture mix or similar herbaceous cover for forage needs of area wildlife. Maintain general consists of mowing and top dressing annually, or as needed. |
| 30 | 6220 - Alder/willow | 6.9 | | |



| Stand | Cover Type | Acres | Gen Cmts: | Mgt Cmts: |
|-------|-----------------------------------|-------|---|--|
| 31 | 3301 - Low Density Deciduous Tree | 80.2 | Unlisted species is goldenrod. Occasional juniper and skw. Nice stand of widely spaced open grown black cherry, with scattered other species. Ground cover has become choked with sedge and bracken. The already present mast producing trees and large acreage create a nice opportunity to manage for a barrens type habitat interspersed with various deciduous and coniferous stands. | Would be appropriate to burn this and several other identical stands (# 24, #32, # 38, #37) in order to set back sedge and bracken. Repeated mowing a portion of this area would be a second alternative if burning regularly is not possible. Could burn within boundary created by existing two-tracks and then would have mix of burned and unburned habitat. |
| 32 | 3301 - Low Density Deciduous Tree | 90.4 | This stand was inventoried in the field and is essentially a continuation of stand 31, where the complete data has been entered and comments and management considerations have been logged. Also found some autumn olive here. | |
| 34 | 6225 - Bog | 1.4 | | |
| 37 | 3301 - Low Density Deciduous Tree | 11.7 | This stand was inventoried in the field and is essentially a continuation of stand 31, where the complete data has been entered and comments and management considerations have been logged. | |
| 38 | 3301 - Low Density Deciduous Tree | 30.6 | This stand was inventoried in the field and is essentially a continuation of stand 31, where the complete data has been entered and comments and management considerations have been logged. | |
| 39 | 6225 - Bog | 5.0 | | |
| 40 | 3105 - Mixed Upland Herbaceous | 3.7 | Some leafy spurge. Very similar to #32. | Monitor, contain, eradicate leafy spurge. |
| 45 | 3105 - Mixed Upland Herbaceous | 1.0 | | Hand fell woody encroachment. |
| 47 | 6224 - Treed Bog | 3.1 | | |
| 48 | 6229 - Mixed lowland shrub | 2.2 | | |



| Stand | Cover Type | Acres | Gen Cmts: | Mgt Cmts: |
|-------|-----------------------------------|-------|---|--|
| 51 | 3104 - Degraded | 1.8 | Lot of barren sand/gravel soil. Spotted knapweed and occasional upland will shrub and autumn olive. | Revegetate to herbaceous cover suitable for wildlife cover and foraging. Adjacent W6 stand provides good upland conifer cover. |
| 52 | 6239 - Mixed Emergent Wetland | 1.9 | | |
| 53 | 6224 - Treed Bog | 3.0 | | Believe to have found glossy buckthorn here. Confirm identification and work with MNFI on eradication or containment strategy. Botanist from MNFI has confirmed presence of glossy buckthorn in the Betsie River watershed and within this general area. |
| 54 | 6225 - Bog | 13.3 | | Believe to have found glossy buckthorn here. Confirm identification and work with MNFI on eradication or containment strategy. Botanist from MNFI has confirmed presence of glossy buckthorn in the Betsie River watershed and within this general area. |
| 57 | 6239 - Mixed Emergent Wetland | 14.4 | | |
| 59 | 3104 - Degraded | 2.5 | | Probable old well site. Extremely sandy and degraded. Revegetate to herbaceous cover suitable for wildlife cover and foraging. |
| 62 | 6239 - Mixed Emergent Wetland | 14.9 | | |
| 64 | 6239 - Mixed Emergent Wetland | 5.4 | | |
| 65 | 6239 - Mixed Emergent Wetland | 26.4 | | |
| 68 | 3301 - Low Density Deciduous Tree | 10.6 | | Hand fell some of the woody encroachment. |
| 69 | 6239 - Mixed Emergent Wetland | 29.4 | | |



SPECIAL CONSERVATION AREA* (SCA) DETAILS

Inventory Method: IFMAP

| Stand | SCA Name | Acres |
|-------|----------|-------|
|-------|----------|-------|

* 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