



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73004

Entry Year 2027

Acreage: 3,281

County: Clare

Management Area: High Sand Plains

Stand Examiner: Colton Behrmann

Legal Description:

T20N R4W, Sections 4-8, 17-18. T20N R5W, Sections 1, 12, and 13.

Identified Planning Goals:

The compartment has a variety of covertypes ranging from non-forested wetland and swamp hardwood in the low lying areas to pines, aspen, oak and open herbaceous on the upland areas. There is a fair amount of diversity in the compartment that should be maintained so continue to manage the compartment for the current covertypes.

Soil and topography:

The terrain in the area is generally flat. However there are some moderate topography changes near Haskell Lake, the Muskegon River, and in sections 7, 18, and 13. The major upland soil types are Grayling and Grayalm associations. The lowland soil associations are mainly Lupton, Markey and Tawas mucks in the marshes and lowland shrubs stands and Wheatly and Winterfield-Evart association on the river flood plains.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

There are some private in-holdings including residencies and/or cabins within this compartment. To the north of this compartment is mainly State forest land in Roscommon County. To the west is mixed private and State ownership including the town of Leota. To the south and east is mixed State and private holdings.

Unique Natural Features:

This area has the potential to provide habitat for a wide variety of sensitive wildlife and vegetation including red-shouldered hawk, loons, eagles, osprey, Kirtland's warbler, goshawk, Blanding's turtle, wood turtle, eastern box turtle, spotted turtle, great blue heron rookery, and round pigtoe (mussel). It also has potential for beak grass and broad-leaved puccoon in stands that are along the Muskegon River.

There are records of a poor quality pine barrens in section 7 and an old record of massauga in section 13.

Archeological, Historical, and Cultural Features:

There are several old foundations and homestead openings throughout this compartment.

Special Management Designations or Considerations:

The boundaries of compartment 4 have been modified to put the critical KW habitat into compartment 9 and 10.

Watershed and Fisheries Considerations:

The Muskegon River bisects the North West portion of this compartment and Townline Creek bisects the north east portion of this compartment. The north half of Haskell Lake and the Rice Pond are also within this compartment.

Wildlife Habitat Considerations:

Compartment #4. Upland systems are dominant in this compartment, making it suitable for a number of early forest successional wildlife species. Stands of aspen and oak are prevalent, although, there are lowland cover types and coniferous stands present. Species such as Ruffed grouse, white-tailed deer and American woodcock are quite common. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Other game species likely to be present in this compartment include black bear, bobcat, raccoon, coyote, wild turkey and snowshoe hare. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, red-eyed vireo, white-throated sparrow, hermit thrush and red-breasted nuthatch. The compartment is easily accessible to hunters via Pierce Road.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel operation exists on private land within Sec 7, and there appears to be similar potential for sand & gravel within the compartment on the uplands. The Cranberry Lake oil & gas field is within a couple miles west of the compartment. Part of the field has been converted to gas storage, but some oil production still occurs. There does not appear to be significant potential for oil & gas production from beneath the compartment, however. There has been no recent well permit activity in the immediate area, and there is no current leasing activity involving State-owned mineral rights

in the compartment. Expansion of gas storage in this area is unlikely. No known metallic mineral potential exists in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Overall, access throughout this compartment is relatively extensive. Several county roads bisect the compartment and there are two track roads throughout. The roads that are in place seem to be causing minimal environmental impact. Several RDR have been initiated and completed around Haskel Lake to address the problems mentioned in the narrative for the last YOE.

Survey Needs:

Survey corner requests have been submitted for sections 6 & 7 in 20N 04W.

Recreational Facilities and Opportunities:

The Leota snowmobile trail and the ORV trail run throughout this compartment and north into Roscommon and Missaukee Counties. The Leota ORV Trailhead and scramble area are in place just to the east of the Jonesville Bridge in section 1 of T20N R5W. Focus retention pockets or clusters along or near trail. Ensure logging activity does not obliterate the designated trails by limiting the number of crossings. All stumps within 20 feet of the trail shall be Flush-Cut to ensure stumps do not result in unsafe conditions. Assure 'logging ahead' warning signs are placed on the designated trails and main access roads during logging activity. Ensure designated trails signs, post and directional markers are protected. If harvest activities occur during the snowmobile season of December 1 thru March 31 a snow bed must be preserved. Placement of material on the trail due to icy conditions will need to be approved by the department.

Fire Protection:

This compartment is in the Zone 4 dispatch area. Some suppression concerns include overgrown and narrow roads in areas, potentially explosive pine fuels, and the Muskegon River bisects an area in the NW corner of the compartment with the only usable bridge being in Leota. As mentioned before ORV use is heavy within this compartment, this poses a fire threat as users may start dispersed camping fires and illegal ORV's with no spark arrestors have the potential to start several dispersed fires.

Additional Compartment Information:

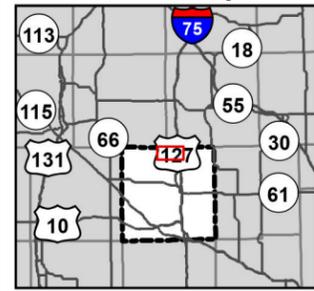
The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



Compartment: 73004
 T20N R04W 04-08, 16-18
 County: Clare
 Unit: Gladwin
 Mgmt. Area: High Sand Plains
 YOE: 2027
 Acres: 3,281 GIS Calculated
 Examiner: Colton Behrmann
 Date Exported: 5/27/2025
 Map Phase: Pre-Review

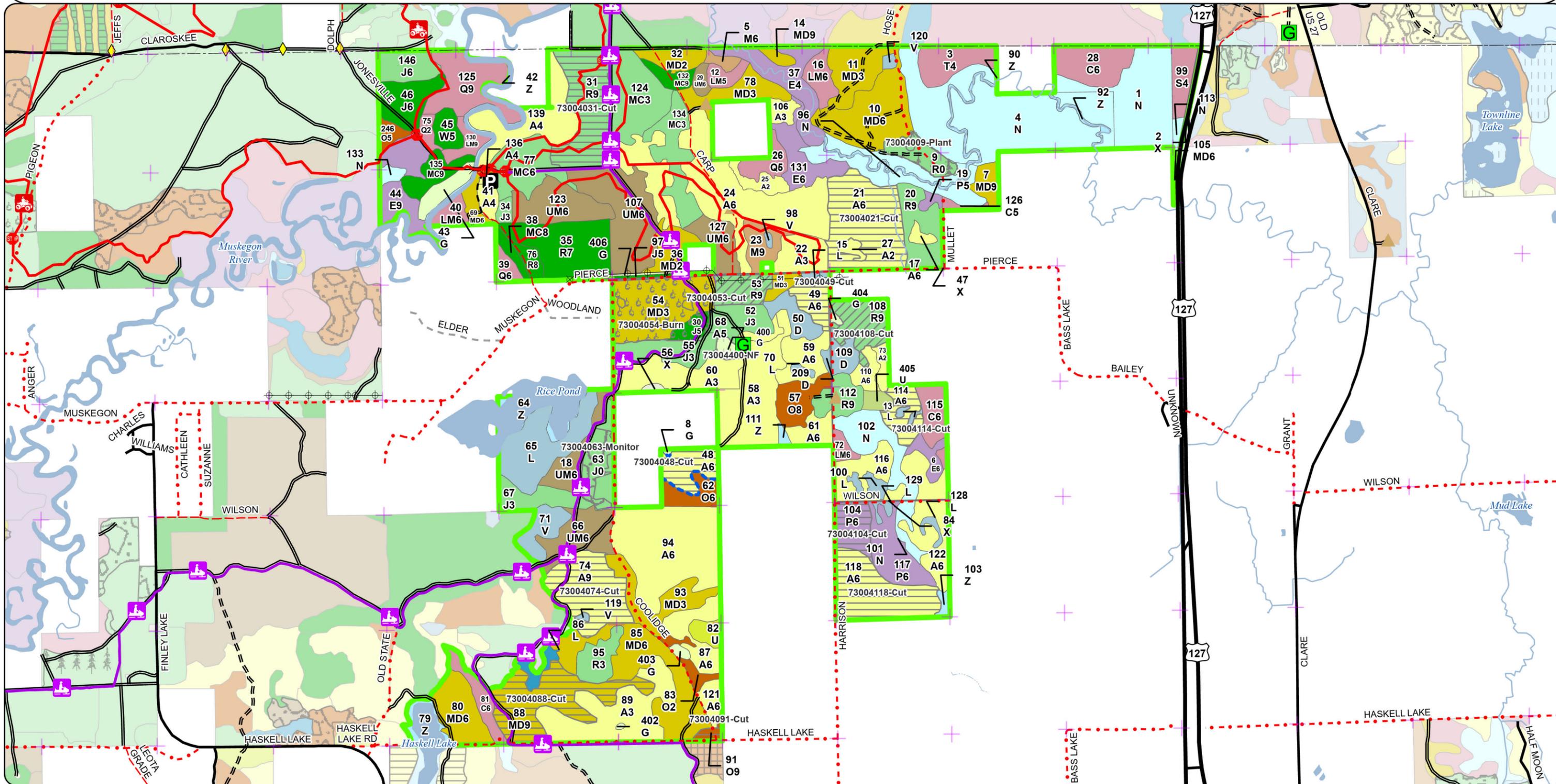
- ⊕ Remonumented Section Corners
- ◆ Survey Grade Corners
- ▲ Berms
- G Gate
- ☐ Bridges
- P Parking Lot
- STOP Sign
- ★ Trailhead
- Designated Snowmobile Trails

- Designated ATV Trails
- == DNR - Secondary Forest Road
- ≡≡ DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream

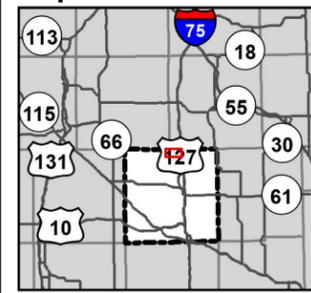
- Perennial River
- Lakes and Rivers
- Counties
- Powerline
- Compartment Boundary
- Clearcut
- Thinning
- Planting (tree species)
- Prescribed Burn
- Openings Mgmt.
- Monitoring - Regeneration

- ☒ Treatments with Site Conditions
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland
- 790 - Other Bare/Sparsely Vegetated

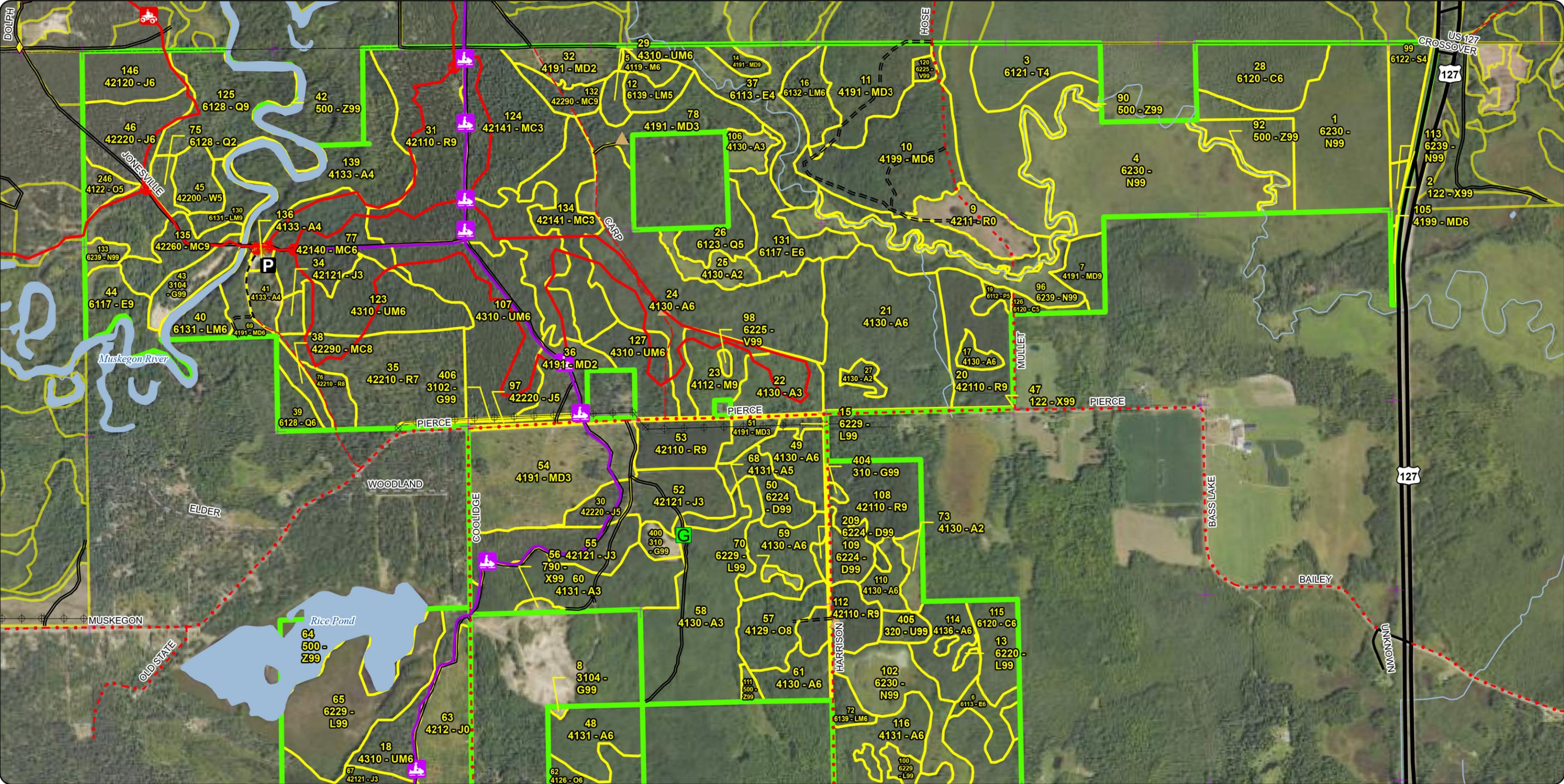
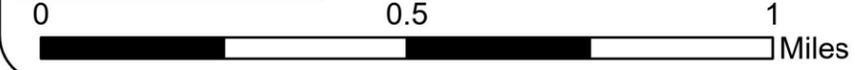


Stand Boundary Map

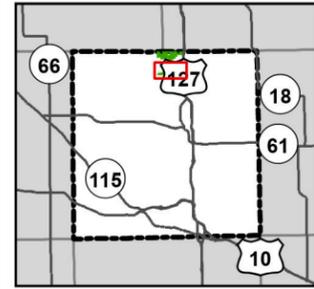


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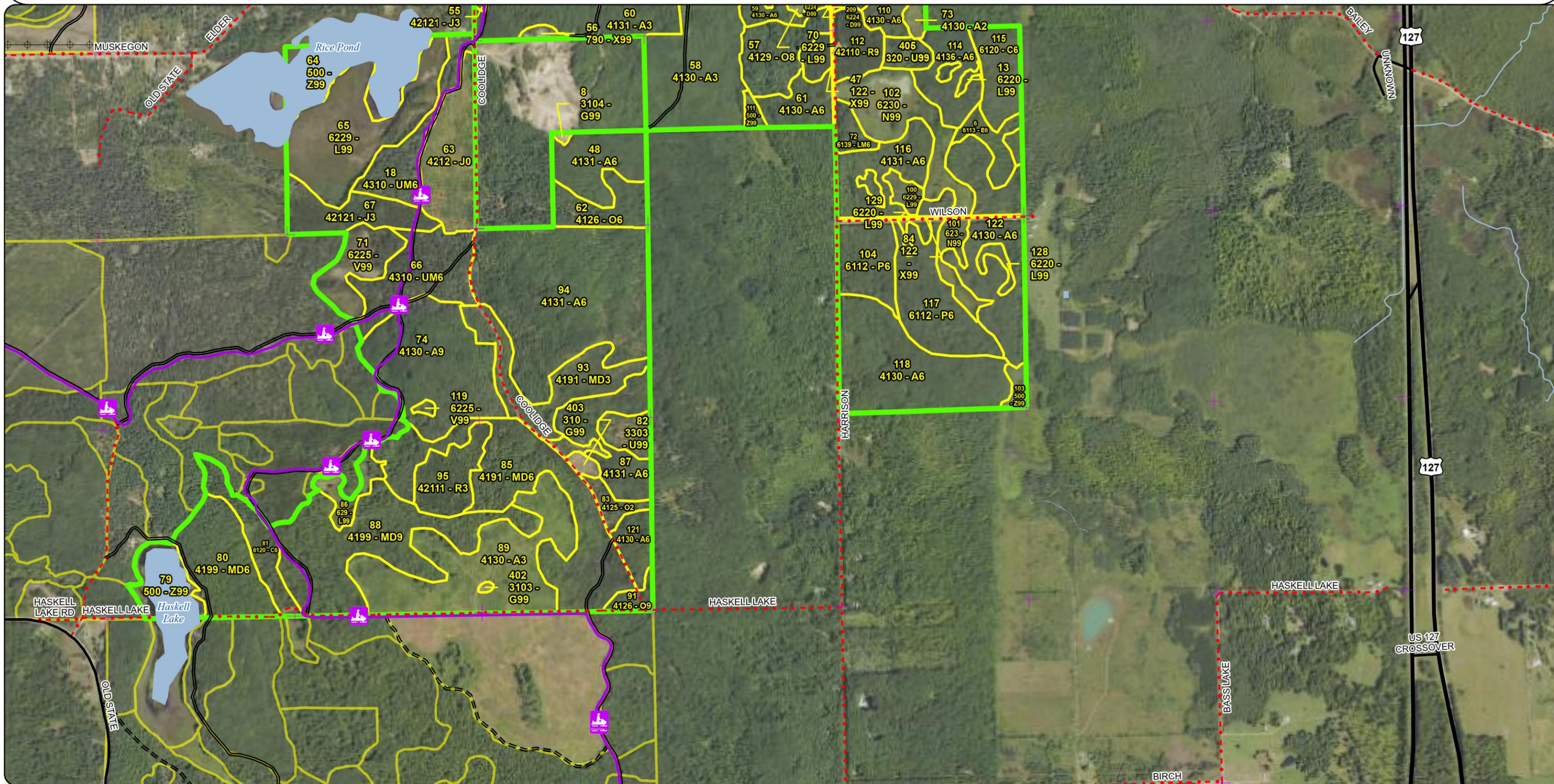


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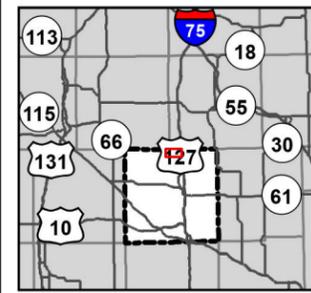
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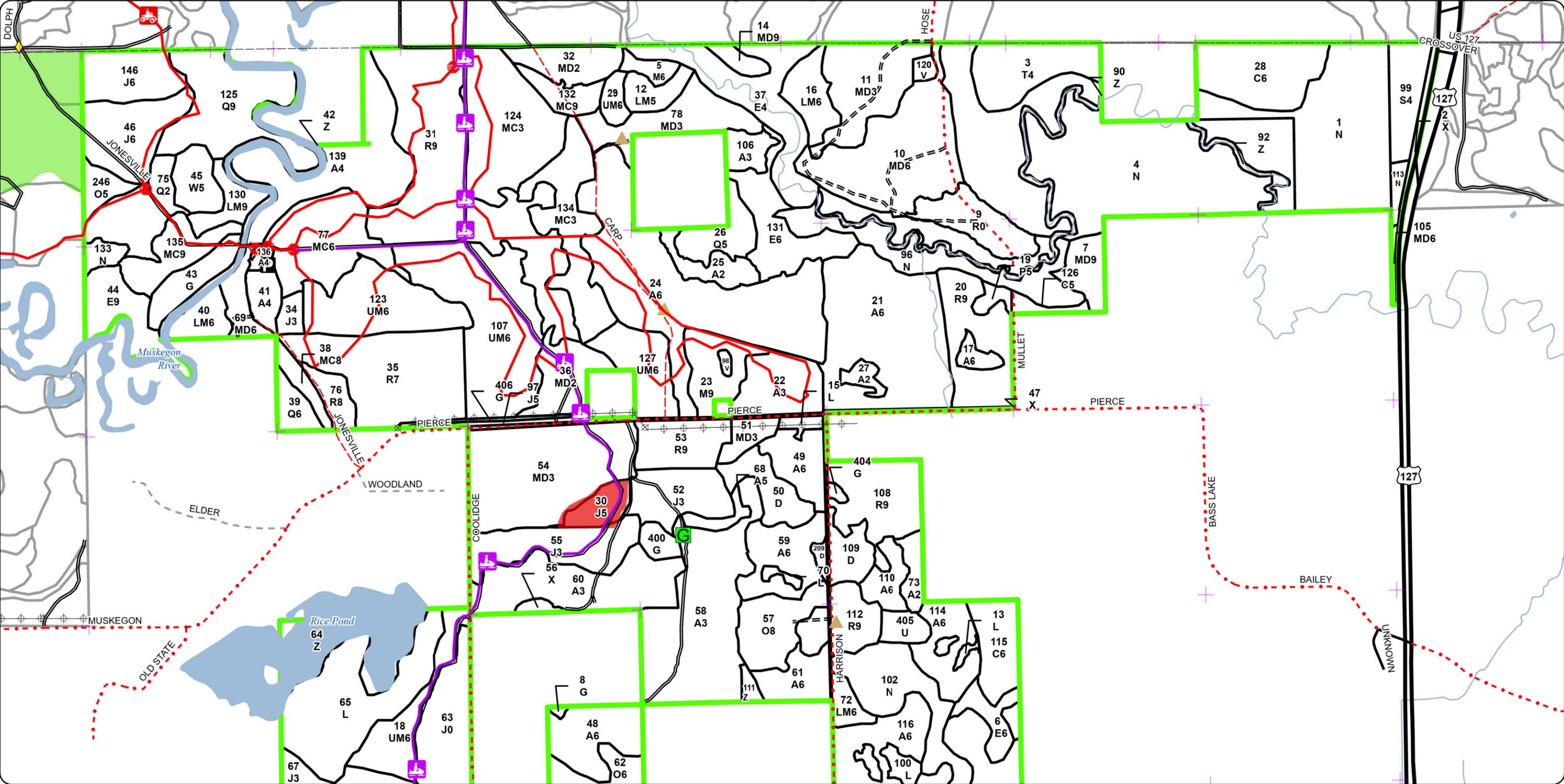


Special Conservation Areas & Site Conditions Map

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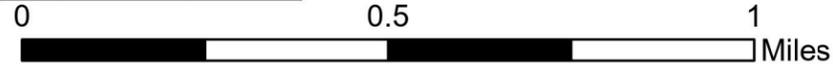


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- ▭ Stand Boundaries
- ▭ Ecological Reference Areas
- ▭ Kirtland's Warbler Habitat

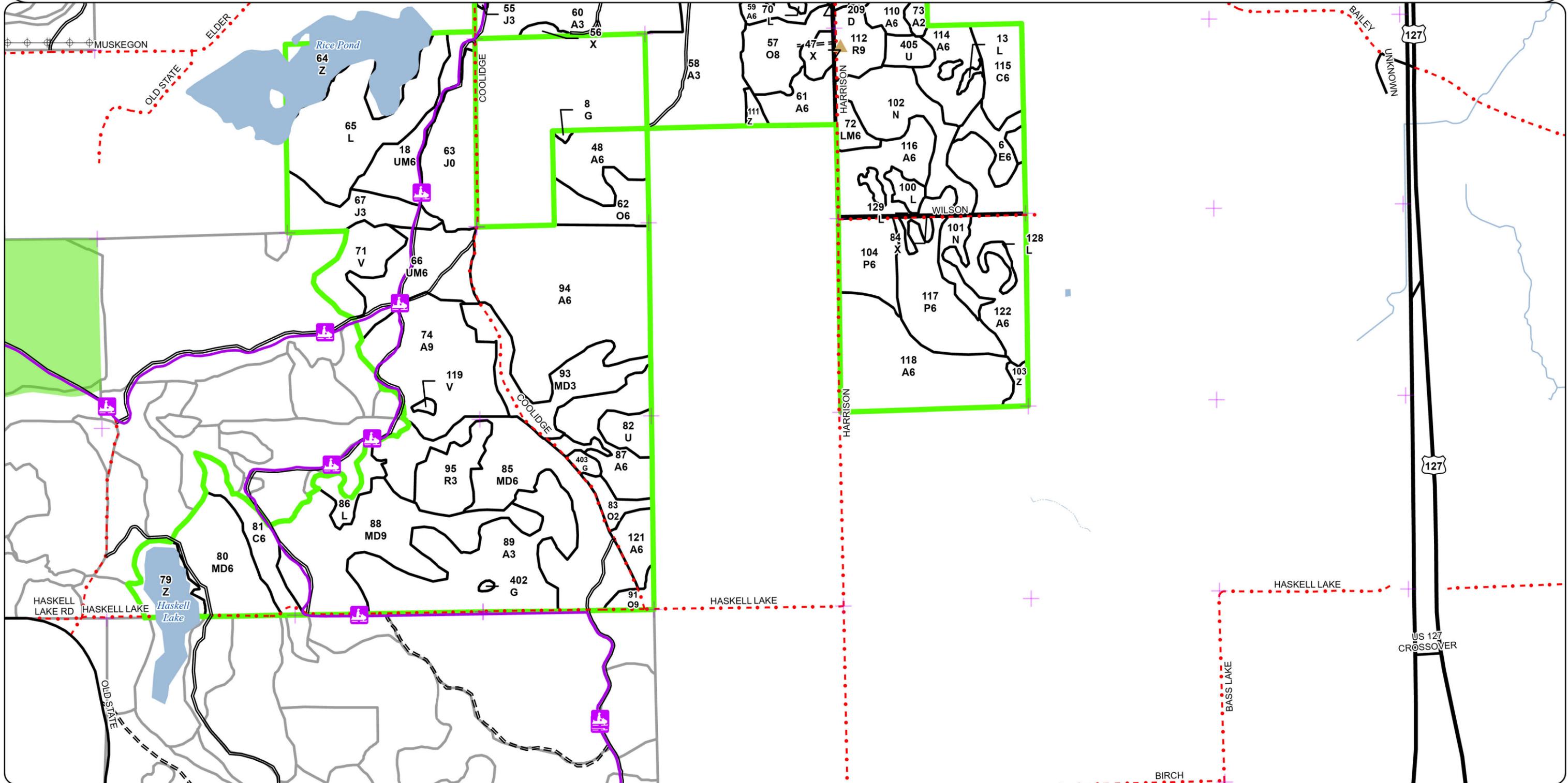


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Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Compartment 4

Year of Entry 2027

Colton Behrmann: Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	94	95	392	103	135	121	0	0	0	0	0	0	0	0	0	0	0	940
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Bog	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Cedar	0	0	0	0	0	0	0	0	0	0	33	40	0	0	0	0	0	0	73
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Jack Pine	32	0	27	50	21	28	9	0	0	3	0	0	0	0	0	0	0	0	169
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	0	33	21	3	0	0	0	0	0	0	0	0	0	0	0	57
Lowland Conifers	0	0	0	0	6	0	0	0	0	14	0	0	0	0	0	0	0	51	71
Lowland Deciduous	0	0	0	0	0	0	10	0	0	40	27	0	0	0	0	0	0	37	114
Lowland Mixed Forest	0	0	0	0	0	0	6	0	0	14	9	0	0	0	0	0	0	20	49
Lowland Shrub	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Marsh	329	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	329
Mixed Upland Deciduous	0	81	90	96	58	0	0	2	0	16	102	0	0	0	0	0	0	9	454
Natural Mixed Pines	0	0	0	0	0	0	18	15	0	0	0	0	0	0	0	0	0	0	33
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	23
Oak	0	0	0	9	7	0	16	0	0	0	5	0	0	21	0	0	0	0	58
Planted Mixed Pines	0	0	0	86	0	0	0	0	0	0	38	0	0	0	0	0	0	0	124
Red Pine	19	0	0	19	0	0	0	98	64	64	0	0	0	0	0	0	0	0	264
Tamarack	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	27
Treed Bog	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Upland Mixed Forest	0	0	0	125	33	0	0	0	0	22	5	0	0	0	0	0	0	0	185
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Water	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
White Pine	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	662	175	212	777	273	184	183	115	64	173	259	67	0	21	0	0	0	117	3280



Report 2 – Treatment Summary

Gladwin Mgt. Unit
Year of Entry: 2027

Compartment 4
Total Compartment Acres: 3,281

Acres of Harvest

Commercial Harvest - 759
Harvests with Site Condition - 46
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	252	0	0	0	0	0	0	0	0	252
Lowland Aspen/Balsam Poplar	21	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	68	0	0	0	0	0	0	0	0	68
Oak	5	0	0	0	0	0	0	0	0	5
Red Pine	64	0	0	0	0	49	0	0	0	114
Total	410	0	0	0	0	49	0	0	0	459

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	459	0	17	0	72	0	19	0	5	572
Next Step	0	0	0	0	0	0	380	0	0	380
Total	459	0	17	0	72	0	399	0	5	952



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Proposed Treatments:

91	73004091-Cut	4.6	4126 - White, Black, N. Pin Oak	9	95	81-110	Harvest	Clearcut	4126 - White, Black, N. Pin Oak	Planting Record	No
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Prescription Cut all trees 2 inches and greater in diameter. No retention due to stand size. Add oak wilt spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A naturally regenerated stand of mixed oak species with a minor hardwood component meeting minimum stocking standards.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

21	73004021-Cut	76.2	4130 - Aspen	6	49	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Cut all trees 2 inches and greater in diameter. Follow standard island retention. Add Gladwin Grouse spec. Add dry/frozen spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A naturally regenerated stand of aspen with mixed deciduous meeting minimum stocking standards.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

31	73004031-Cut	64.3	42110 - Planted Red Pine	9	85	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
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Prescription Cut all trees 2 inches and greater in diameter. Focus on boundary retention to assist with future silvicultural activities. Add low stump spec.

Specs: Add chipping spec. Add trail protection spec.

Next Step

Treatments:

Acceptable A fully stocked red pine plantation meeting minimum stocking standards.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
48 73004048-Cut	23.4	4131 - Aspen, Oak	6	50	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Add Gladwin grouse spec. Add oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of aspen with mixed deciduous meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026</p>										
49 73004049-Cut	15.5	4130 - Aspen	6	50	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Add Gladwin Grouse spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of aspen and mixed deciduous meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>										
53 73004053-Cut	19.2	42110 - Planted Red Pine	9	69	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Thin stand with a target residual of 90 BA/acre. Follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>										
74 73004074-Cut	58.8	4130 - Aspen	9	51	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Follow standard island retention. Add grouse spec. Add snowmobile trail spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of aspen with mixed deciduous meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
400	73004400-NF	5.1	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	3102 - Grass	Previous Inventory	No
<p><u>Prescription</u> mowing to maintain grassy opening. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
88	73004088-Cut	67.8	4199 - Other Mixed Upland Deciduous	9	92	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Follow standard island retention. Add oak wilt spec. Add Gladwin grouse spec. Add snowmobile spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of aspen, oak and maple meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
104	73004104-Cut	20.9	6112 - Lowland Aspen	6	46	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Follow standard island retention. Add Gladwin Grouse spec. Add dry/frozen spec. Add no chipping spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of aspen with mixed deciduous and conifers meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
108	73004108-Cut	30.0	42110 - Planted Red Pine	9	69	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Thin stand with a target residual of 90 BA/acre. Follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
114 73004114-Cut	19.2	4136 - Aspen, Mixed Conifer	6	50	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Add Gladwin Grouse spec. Add dry/frozen spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A naturally regenerated stand of aspen with mixed deciduous meeting minimum stocking standards.</p> <p><u>Other Comment:</u> There is a closed forest access route off of Harrison Avenue that will be used as access.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
118 73004118-Cut	59.0	4130 - Aspen	6	46	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Follow standard island retention. Add Gladwin Grouse spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A naturally regenerated stand of aspen with mixed deciduous meeting minimum stocking standards.</p> <p><u>Other Comment:</u> There is a closed forest access route off of Harrison Avenue that will be utilized as access. There are small lowland inclusions that will need painted out during sale prep.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
54 73004054-Burn	72.2	4191 - Mixed Upland Deciduous with Conifer	3	6	Immature	Burn	Prescribed Burn	3302 - Low Density Conifer Trees	Previous Inventory	No
<p><u>Prescription</u> The stand was an area flagged by MNFI as containing some prairie species. The burn is to move the stand toward barrens system. The areas that were retained areas that were retained are to be burned through and not salvaged if some of the retention dies. Include Stand 30 if conditions are favorable.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> the goal is to create a pine or pine/oak barrens.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

Approved Treatments:

63 73004063-Monitor	18.8	4212 - Planted Jack Pine	0	1		Monitoring	Monitoring - Regeneration	4212 - Planted Jack Pine		No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> mixture of planted and natural jack pine mixed with some oak, maple and aspen.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition:</u></p>										



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Start Date: 01/01/2026

9	73004009- Plant	17.2	4211 - Planted Red Pine	0	0	Immatur re	Planting		4211 - Planted Red Pine	Planting Record	No
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Prescription

Specs:

Next Step Monitoring, Artificial Regen; ; Monitoring, Artificial Regen (3yr)

Treatments:

Acceptable Regen: The regeneration should be planted red pine mixed with some natural white pines and oaks south of the two-track.

Other

Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/01/2024

**Total Treatment
Acreage Proposed: 0**

Report 4 – Site Conditions

Gladwin Mgt. Unit
Colton Behrmann: Examiner

Compartment: 4
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
940	860	23	56

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions						
					2I	1D	2A	2G	2H	3D	5E
940	860	23	56	Aspen	23			49		8	
2	2	0	0	Bare/Sparsely Vegetated							
24	24	0	0	Bog							
73	0	0	73	Cedar		33		40			
26	26	0	0	Herbaceous Openland							
170	170	0	0	Jack Pine							
8	9	0	0	Low-Density Trees							
58	54	0	3	Lowland Aspen/Balsam Poplar				3			
71	0	0	71	Lowland Conifers				71			
110	0	0	110	Lowland Deciduous				110			
48	6	0	42	Lowland Mixed Forest				42			
82	82	0	0	Lowland Shrub							
17	0	0	17	Lowland Spruce/Fir				17			
329	257	0	72	Marsh		72					
455	439	0	16	Mixed Upland Deciduous			12		5		
33	24	0	9	Natural Mixed Pines							9
22	22	0	0	Northern Hardwood							
58	58	0	0	Oak							
124	124	0	0	Planted Mixed Pines							
265	265	0	0	Red Pine							
27	0	0	27	Tamarack				27			
27	27	0	0	Treed Bog							
185	164	0	21	Upland Mixed Forest							21
6	6	0	0	Upland Shrub							
17	17	0	0	Urban							
89	89	0	0	Water							
12	12	0	0	White Pine							
3,277	2,736	23	518	Total Forested Acres	23	105	12	359	5	8	30
	83%	1%	16%	Relative Percent							

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Report 4 – Site Conditions



Gladwin Mgt. Unit

Colton Behrmann: Examiner

Compartment: 4

Year of Entry: 2027

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3D: Recreational/scenic values	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	96	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	100	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Colton Behrmann: Examiner

Compartment: 4
Year of Entry: 2027



6	Available	2I: Survey needed	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2A: Adjacent landowner denied access	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



Gladwin Mgt. Unit

Colton Behrmann: Examiner

Compartment: 4

Year of Entry: 2027

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	1D: Interest group/neighbor	105	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Colton Behrmann: Examiner

Compartment: 4
Year of Entry: 2027



23	Unavailable	5E: Long-Term Retention	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
99	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
1	6230 - Cattail	Unspecified	71.9			No	This is an emergent wetlands along Townline Creek. The stand has a 1/3 ownership in the property.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Cattail spp.	Medium	Not Applicable	Not Applicable	
								Tamarack	Low	10 - 20 feet	10 - 20 feet	
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet									
2	122 - Road/Parking Lot	Unspecified	5.4			No	US-127 road right of way.					
3	6121 - Tamarack	Poletimber Poor	26.8	105	1-50	N/A	Lowland conifer stand currently dominated by Tamarack. Balsam fir and red maple is trying to recruit into the canopy.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	1	Seedling	7	
								Northern White Cedar	5	Sapling	6	
								Balsam Fir	10	Seedling	6	
								Tamarack	84	Sapling	5	105
								Sub-Canopy Species	Density	Avg. Height	Size	
								Michigan Holly	Medium	5 - 10 feet	5 - 10 feet	
								Balsam Fir	Low	10 - 20 feet	10 - 20 feet	
								Tamarack	Low	5 - 10 feet	5 - 10 feet	
								Red Maple	Low	>20 feet	>20 feet	
Tag Alder	High	5 - 10 feet	5 - 10 feet									
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet									
Labrador Tea	Low	5 - 10 feet	5 - 10 feet									
Leatherleaf	Full	5 - 10 feet	5 - 10 feet									
4	6230 - Cattail	Unspecified	161.2			No	The stand is the wetlands along Townline Creek. It is a mixture of lowland shrubs, marsh grass, leather leaf, and some scattered trees.					
5	4119 - Mixed Northern Hardwoods		4.9	99	81-110	N/A	The stand was set up to be harvested in 1997 as a clear cut. However it was not treated. The old redline is still visible. The large overstory oak are coming down. The gaps are filling in with maple, white pine and fir.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black/Red (Hybrid) Oak	25		16	
								Red Maple	70		13	99
								White Oak	5		11	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Medium	< 5 feet	< 5 feet	
Ironwood	Low	5 - 10 feet	5 - 10 feet									
Beech	Low	10 - 20 feet	10 - 20 feet									
Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet									
White Pine	Medium	5 - 10 feet	5 - 10 feet									
6	6113 - Lowland Maple	Poletimber Well	9.7	55	81-110	N/A	Lowland maple stand with standing water throughout. Cedar is starting to recruit into the canopy.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	95		8	55
								Paper Birch	2	Log	4	
								Northern White Cedar	3	Sapling	5	
Sub-Canopy Species	Density	Avg. Height	Size									
Tag Alder	Low	5 - 10 feet	5 - 10 feet									
Balsam Fir	Low	10 - 20 feet	10 - 20 feet									
Northern White Cedar	Low	10 - 20 feet	10 - 20 feet									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.5	82	81-110	N/A	The stand is an upland knob that slopes down to the Townline Creek flood plain. The north side is dominated more by white pine and oak, the south side is dominated by aspen and oak. Most of the jack pine has begun to die off.																																																													
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8	3104 - Degraded	Poletimber Well	0.7			No	Looks like a trespass. Will confirm with survey corners.																																																													
9	4211 - Planted Red Pine	Unspecified	19.2	0	Immature		Site sprayed August 2024. Stand trenched in Spring 2022. Stand cut under Town Line Creek Mix 73-001-17. Follow up work to trench and plant to red pine. Area south of two track may be too wet to trench according to treatment history. Small mixed pine retention island located in center of stand																																																													
10	4199 - Other Mixed Upland Deciduous	Poletimber Well	58.2	36	51-80	N/A	The stand is a nice mix of oak, aspen, and white pine regeneration that is just moving into poles. In the south western portion of the stand has more mature white pine. Stand cut under "Mullet Road" 73-044-87 in spring of 1989.																																																													
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11	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	32.9	15	Immature	N/A	The stand was interplanted with jack pine. Currently a mix of jack pine and aspen as the dominant species. Aspen regeneration is heaviest to the west of the 2-track. There were several mast oak left most are still on site but a few have die off. The stand may need to be split between jack pine and aspen in the future as it progresses. The stand was clear cut in 2009 under "Pierce Pine Harvest" 73-019-07 and interplanted with jack pine with the FTP C73-831 in 2010.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
12	6139 - Mixed Lowland Forest		8.8	99	51-80	N/A	The stand has a drainage that goes from stand 29 to the Townline Creek. The overstory has a high occurrence of windthrow and the understory is filling in the gaps well with balsam fir and spruce.																																																																										
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13	6220 - Alder/Willow	Poletimber Well	2.3			No	Lowland tag alder thicket.																																																																										
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14	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.8	84	81-110	N/A	Upland maple ridge surrounded by Towline creek and feeder creeks. Heavy to balsam fir in the understory and recruiting into the canopy.																																																																										
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15	6229 - Mixed Lowland Shrub	Poletimber Well	2.7			No	Lowland tag alder thicket with pockets of aspen and white pine.																																																																										
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16	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	13.9	84	81-110	N/A	The stand slopes down toward Townline Creek. The upland in the stand is on a couple of small islands and along the east side. The cedar is heaviest along the west side. Most hardwood regeneration is being browsed heavily by deer.																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 4130 - Aspen Sapling Well 4.2 28 51-80 N/A

The stand was cut in 1997 under "Rusty Dog Pine" 73-040-97 and has regenerated well. There is a small open area but it is less than 0.2 acres in size.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	10	Seedling	5	
Red Pine	5		12	
Red Maple	25	Seedling	5	
Bigtooth Aspen	60	Seedling	5	28

18 4310 - Pine, Oak Mix Poletimber Well 21.5 80 81-110 N/A

The stand is variable in density and species composition. It goes from oak to jack pine to aspen. The jack pine is declining.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1		12		Leatherleaf	Low	5 - 10 feet	5 - 10 feet
White Oak	1	Seedling	6		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	10		9		White Pine	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	15	Seedling	7		Common Lowbush Blueberry	High	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	18		9		Red Maple	Medium	5 - 10 feet	5 - 10 feet
White Pine	5		9					
Jack Pine	50		8	80				

19 6112 - Lowland Aspen Poletimber Medium 3.4 50 51-80 N/A

Lowland aspen finger in the west end with more maple and cherry in the east end. Wildlife cut the stand in 1975.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35		12		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Black Cherry	5	Seedling	7		Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	60		11	50	Red Maple	Low	10 - 20 feet	10 - 20 feet
					Tag Alder	Low	5 - 10 feet	5 - 10 feet

20 42110 - Planted Red Pine Sawtimber Well 30.0 66 111-140 N/A

The stand was thinned in the summer of 2011 in Clare Red Pine Assist sale number 73-009-07-01 to a residual of 90 BA/acre. Stand is now averaging around 120 BA/Acre. Overall there is a dense understory of maple, beech and oak. The southern end of the stand is more open grown with hardwoods and open pockets.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	85		12	66	Musclewood/Hornbeam	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	2		12		Quaking Aspen	Low	10 - 20 feet	10 - 20 feet
Red Maple	3		14		Red Maple	High	10 - 20 feet	10 - 20 feet
Paper Birch	2	Sapling	7		Beech	Low	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	3		16		Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet
White Pine	2		10		Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet
Black Cherry	3	Seedling	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	4130 - Aspen	Poletimber Well	76.2	49	111-140	N/A	The stand slopes down at the north end going on to the Townline Creek flood plain. There is a lot of down woody material. The fir in the stand is heavier at the north end and at the south edge. Scattered in the stand are areas where some of the aspen is moving into saw logs.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10		12		Black/Red (Hybrid) Oak	Low		10 - 20 feet	10 - 20 feet
Paper Birch	2	Seedling	6		White Oak	Low		10 - 20 feet	10 - 20 feet
Bigtooth Aspen	83		11	49	Balsam Fir	Low		>20 feet	>20 feet
White Pine	5		14		Beech	Low		5 - 10 feet	5 - 10 feet
					Ironwood	Trace		10 - 20 feet	10 - 20 feet
					Red Maple	Medium		>20 feet	>20 feet
					Paper Birch	Low		10 - 20 feet	10 - 20 feet
22	4130 - Aspen	Sapling Well	21.7	14	51-80	N/A	The stand was clearcut in 2010 under "Pierce Pine Harvest" 73-019-07. It has regenerated well and it is mainly bigtooth aspen with some red maple and oak. Some of the pines and oak were left along Pierce Road to break up the visual.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	20	Log	3		White Oak	Low		< 5 feet	< 5 feet
Choke Cherry	5	Sapling	5		Black/Red (Hybrid) Oak	Low		< 5 feet	< 5 feet
Red Maple	10	Pole	4		White Pine	Low		< 5 feet	< 5 feet
Bigtooth Aspen	51	Log	3	14	Tag Alder	Low		5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	10	Log	3		Red Osier Dogwood	Low		5 - 10 feet	5 - 10 feet
White Pine	4		10						
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.5	96	81-110	N/A	The stand was thinned in 1998 under "Spotted Dog" 73-054-97. The stand had the aspen and birch cut retaining the maple and ash. The stand has started to regenerate with aspen being denser north and maple in the central and south.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	94		13	96	Witch Hazel	Medium		5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	1		16		Black/Red (Hybrid) Oak	Low		10 - 20 feet	10 - 20 feet
White Pine	2		14		Black Cherry	Low		10 - 20 feet	10 - 20 feet
Red Pine	1		12		Hawthorn (spp.)	Low		5 - 10 feet	5 - 10 feet
White Oak	2		16		Beech	Low		10 - 20 feet	10 - 20 feet
					Red Maple	Medium		>20 feet	>20 feet
					Bigtooth Aspen	Low		>20 feet	>20 feet
					White Oak	Low		5 - 10 feet	5 - 10 feet
24	4130 - Aspen	Sapling Well	131.3	26	Immature	N/A	The stand was clear cut in 1998 under "Flying Chef" 73-053-97. It has regenerated well, being a well-stocked aspen stand. In the eastern portion of the stand there are some low pockets of swamp hardwoods that were left when it was harvested. These pockets are < 1 acre in size. The western portion contains pockets of more open grown aspen and cherry.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	30	Seedling	6		White Oak	Trace		5 - 10 feet	5 - 10 feet
Red Pine	5	Pole	4		Black/Red (Hybrid) Oak	Low		5 - 10 feet	5 - 10 feet
Red Maple	5	Seedling	6		White Pine	Low		5 - 10 feet	5 - 10 feet
Paper Birch	5	Seedling	6		Witch Hazel	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	45	Seedling	6	26					
Black/Red (Hybrid) Oak	10	Seedling	5						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	4130 - Aspen	Sapling Medium	10.6	5	Immature	N/A	Stand cut under Town Line Creek Mix 73-001-17 in fall of 2020 as a 2" clearcut. The stand is mainly lowland much could be treated but there are areas that are too wet to harvest. Much of the larger overstory, ash and aspen have come down leaving a lot of down wood. What ash is left has heavy EAB and the aspen a signs of significant rot. The fir and cedar is heavier long the flood plain and in the wetter ground. The understory in the process of taking the place of the overstory. The stand was difficult to navigate. The terrain is hummocky.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Log	1		Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen		85	Log	1	5	Black Willow		Low	5 - 10 feet	5 - 10 feet	
Black/Red (Hybrid) Oak		5	Log	1							

26	6123 - Lowland Fir		14.1	88	51-80	N/A	Lowland balsam fir stand with areas more dominated by cedar. Overall small diameter and short height.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		60	Seedling	6	88	Cattail spp.		Low	Not Applicable	Not Applicable	
Tamarack		3	Seedling	7		Balsam Fir		Low	< 5 feet	< 5 feet	
Red Maple		5	Sapling	6		Paper Birch		Low	10 - 20 feet	10 - 20 feet	
Paper Birch		10	Seedling	8		Tag Alder		Full	5 - 10 feet	5 - 10 feet	
Black Spruce		2	Pole	4		Red Osier Dogwood		Low	5 - 10 feet	5 - 10 feet	
Northern White Cedar		20	Seedling	6							

27	4130 - Aspen	Sapling Medium	4.0	16	Immature	N/A	The stand was clearcut in 2009 under "Pierce Pine Harvest" 73-019-07 with some overstory red pine left for seed and structural diversity.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black/Red (Hybrid) Oak		5	Log	2				
Red Pine		5		14				
Red Maple		20	Log	2				
Paper Birch		10	Log	2				
Bigtooth Aspen		60	Log	2	16			

28	6120 - Lowland Cedar	Poletimber Well	33.0	99	81-110	N/A	The cedar in the stand is short and has significant sweep. There is also a significant amount of mortality. The crown closure ranges from 100% down to 25%, but it averages around 75%. The tamarack is concentrated along the southern edge. The state has a 1/3 ownership interest in the property.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Tamarack		20	Seedling	6		Leatherleaf		Full	5 - 10 feet	5 - 10 feet	
Black Spruce		25	Seedling	6		Labrador Tea		Low	5 - 10 feet	5 - 10 feet	
Northern White Cedar		55	Seedling	8	99	Tamarack		Low	5 - 10 feet	5 - 10 feet	
						Paper Birch		Low	10 - 20 feet	10 - 20 feet	
						Tag Alder		High	5 - 10 feet	5 - 10 feet	
						Red Osier Dogwood		Low	5 - 10 feet	5 - 10 feet	
						Black Spruce		Low	5 - 10 feet	5 - 10 feet	
						Michigan Holly		Medium	5 - 10 feet	5 - 10 feet	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
29	4310 - Pine, Oak Mix		5.3	99	81-110	N/A	Upland ridge with mixed pine and oak. This stand has not been treated & is showing decline.																																																			
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30	42220 - Natural Jack Pine	Poletimber Medium	9.0	56	51-80	N/A	This stand was not cut with adjacent clearcut. It is now a mixed stand of jack pine and mature oak that is dying out. Canopy is patchy, areas of thicker jack pine and oak regeneration.																																																			
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31	42110 - Planted Red Pine		64.3	85	81-110	N/A	Stand thinned under Town Line Creek Mix 73-001-17 in spring of 2019. Stand thinned to 90 basal area. The maple understory is thicker in the southern half of the stand. Heavy deer browse. The residual Red Pine was planted in 1940 and 1959. The stand was harvested in 1990 under "Frying Pan Sale" 73-041-87 having the hardwoods and jack pines greater than 4" DBH harvested. The residual pines have variable density going from very high to low density. The ORV trail bisects the stand.																																																			
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32	4191 - Mixed Upland Deciduous with Conifer		15.9	6	Immature	N/A	Stand cut under Town Line Creek Mix 73-001-17 in spring of 2019. All trees greater than 8" were cut. Stand has regenerated well to oak and mixed pine. All the aspen and oak were cut in 1997 and all conifers were left.																																																			
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34	42121 - Planted Jack Pine, Mixed Deciduous		4.4	12		N/A	The stand was clearcut in 2011 under "Muskegon Pines" 73-007-08 and planted in 2013. Stand updated in December 2020 based on data of regen check.																																																			
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35	42210 - Natural Red Pine		56.4	76	1-50	N/A	The stand was harvested in 2011 under "Muskegon Pines" 73-007-08 retaining 34 BA to act as a shelter wood for the understory oak.																																																				
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36	4191 - Mixed Upland Deciduous with Conifer		18.7	15	Immature	N/A	The stand was clearcut in 2009 under "Pierce Pine Harvest" 73-019-07. It has regenerated fairly well with the oak being mainly stump sprouts.																																																				
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37	6113 - Lowland Maple	Poletimber Poor	39.6	86	51-80	N/A	The stand has the Townline Creek running through it. The density is low stocking now that the ash has died off. There is also evidence of current and past beaver activity.																																																				
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38	42290 - Natural Mixed Pine		6.2	65	81-110	N/A	The stand was cut in 1997 under "Spotted Dog" 73-054-97 cutting all oak, dead oak maple, jack pine and all red pine 10" or greater at DBH. The north end is heavier to white pine with an understory of aspen, maple and oak. The south end is heavy to red pine with balsam fir in the understory. Continue to nurse understory regeneration along.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39 6128 - Lowland Coniferous, Mixed Deciduous 7.8 98 111-140 N/A

The stand drops sharply to the river flood plain. It has a lot of down woody material as the ash, aspen, and oak is declining. The understory is now taking over the stand, which is heavy to balsam fir. The cedars are closer to the river. Soil under the stand is Winterfield-Evart.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	3		18		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	15		8		White Pine	Low	>20 feet	>20 feet
White Oak	3		16		Balsam Fir	High	>20 feet	>20 feet
Balsam Fir	20	Sapling	7					
White Pine	22		18					
Red Maple	30		10	98				
Paper Birch	5		13					

40 6131 - Hemlock, White Pine, Maple, Birch 9.9 98 81-110 N/A

Floodplain of the Muskegon river with a higher density of white pine. Balsam fir and maple are recruiting in any hardwood canopy gaps.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	29		9		Black/Red (Hybrid) Oak	Trace	5 - 10 feet	5 - 10 feet
Red Pine	3		16		White Pine	Low	>20 feet	>20 feet
Quaking Aspen	10		14		Balsam Fir	Low	>20 feet	>20 feet
White Oak	5		13		Red Maple	Low	>20 feet	>20 feet
Balsam Fir	3	Seedling	6		Paper Birch	Low	>20 feet	>20 feet
Black/Red (Hybrid) Oak	15		12					
White Pine	35		18	98				

41 4133 - Aspen, Mixed Pine 7.8 37 1-50 N/A

The stand is the ORV/snowmobile parking lot at the north end and special use area at the south end. The soils are heavily disturbed with about 40% being exposed sand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	20	Seedling	6		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
White Pine	30	Seedling	8		White Pine	Medium	10 - 20 feet	10 - 20 feet
Jack Pine	10	Seedling	6		Jack Pine	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	40	Seedling	6	37	Balsam Fir	Low	< 5 feet	< 5 feet
					Red Pine	Low	< 5 feet	< 5 feet

42 500 - Water Unspecified 14.7 No Muskegon River.

43 3104 - Degraded Unspecified 13.2 No

This area is a scramble area. Fence was put up in 2004. This area has been a historical problem spot for ORV damage along the river. It was agreed at the 2007 compartment review that this area should be kept for ORVs and disperse camping.

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Low	>20 feet	>20 feet
White Pine	Low	>20 feet	>20 feet
Jack Pine	Medium	>20 feet	>20 feet
Quaking Aspen	Low	>20 feet	>20 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
44	6117 - Lowland Deciduous, Mixed Coniferous		37.1	108	81-110	N/A	The stand is highly variable and it is on the Muskegon River Flood Plain. The terrain is undulating and there are areas of good upland but the majority is low and wet. There are numerous springs along the base of the slopes that border the flood plain. There are several oxbows in the stand some are more marsh like while others are red maple swales																																																													
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45	42200 - Natural White Pine		12.0	35	1-50	N/A	The stand was habitat cut in 1990 as a 2" clearcut. It is variable going from sparse to dense. Much of the crown closure is made up of open grown white pines. The white pines have a high amount of weevil damage. The overall crown closure is around 65%. "Jonesville Bridge Swamp"																																																													
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46	42220 - Natural Jack Pine		28.1	45	51-80	N/A	The stand was burned in 1979 and had a salvage cut done in 1980. Some residual larger red and jack pines remain but they are scattered throughout the stand. The red pine is in higher concentration in the eastern portion of the stand and jack pine in the western portion.																																																													
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47	122 - Road/Parking Lot	Unspecified	9.7			No	PIERCE Rd. and HARRISON AVE.																																																													
48	4131 - Aspen, Oak	Poletimber Well	23.4	50	111-140	N/A	The stand is self-thinning so there is a lot of down woody material. The terrain is rolling. The maple is concentrated on the east end and in the lowland pockets. Oak is heavier in the southern end.																																																													
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49	4130 - Aspen	Poletimber Well	15.5	50	111-140	N/A	The stand gets wetter going north with more quaking aspen and windthrow. There is an inclusion of lowland shrubs at the north end.																																																																	
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50	6224 - Treed Bog	Unspecified	15.1			No	The stand is mainly leather leaf with scattered white pine. Tag alder is higher density along the southern boundary.																																																																	
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51	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	6.9	15	Immature	N/A	The stand was clear-cut in 2009 under "Pierce Pine Harvest" 73-019-17. It was planted to jack pine in May of 2010, FTP C73-831. Even though the stand was planted to jack pine, currently the oak regeneration makes up the majority of the crown closure.																																																																	
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52	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	22.1	15	Immature	N/A	Young jack pine plantation with areas of thicker oak regeneration, mainly in the north and west side of stand. The stand was clear-cut in 2009 under "Pierce Pine Harvest" 73-019-17. It was planted to jack pine in May of 2010, FTP C73-831																																																																	
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53	42110 - Planted Red Pine	Poletimber Well	19.2	69	141-170	N/A	Stand averages around 150 BA/Acre currently. Little to no understory. Stand was cut under Clare Red Pine Assist sale number 73-009-07-01 and thinned to 125 BA/Acre. The rows are straight and workable. There is a power line going through the stand.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54 4191 - Mixed Upland Deciduous with Conifer Sapling Well 65.2 6 Immature N/A Fully stocked oak and jack pine sapling stand. Stand cut under Town Line Creek Mix 73-001-17 in spring of 2019 as a 2" clearcut. Stand identified to be restored as a jack pine barrens.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	45	Log	2	6
Jack Pine	30	Log	2	
Black Cherry	10	Log	2	
Red Maple	5	Log	2	
Quaking Aspen	10	Log	2	

55 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 28.2 26 1-50 N/A The stand was trenched and interplanted in 1999. Young jack pine stand with a heavy mix of hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	10	Pole	3		Sweet Fern	Medium	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	20	Pole	4		Common Blackberry	Medium	5 - 10 feet	5 - 10 feet
Jack Pine	65	Pole	3	26				
Black Cherry	5	Pole	4					

56 790 - Other Bare/Sparsely Vegetated Unspecified 2.2 No This area is a gravel trespass that has now become an herbaceous open land with a lot of spotted knapweed.

57 4129 - Mixed Oak Sawtimber Medium 21.2 125 51-80 N/A The stand was shelterwood harvested in 1999 under "Used Carpet" 73-059-97 retaining all oak and pine. Canopy oak is showing decline & some has died already. The regeneration is patchy and heavier in the east 1/2 of the stand. Maple is the dominant subcanopy species, ranging from large sapling to pole size.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10		16		White Pine	Low	5 - 10 feet	5 - 10 feet
Red Pine	5		16		Beech	Low	10 - 20 feet	10 - 20 feet
Red Oak	35		16	125	Red Oak	Low	10 - 20 feet	10 - 20 feet
Red Maple	15		9		Red Maple	Medium	>20 feet	>20 feet
Bigtooth Aspen	10		13		Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet
White Oak	25		15		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet

58 4130 - Aspen Sapling Well 69.1 13 Immature N/A The stand was clear cut in May of 2012 with the Pierce Road Aspen sale 73-020-10-01 All white pine less than 6" was left during harvest and some green marked trees. Dense stand with a minor component of oak and maple filling in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	1	Log	1		Common Blackberry	Medium	5 - 10 feet	5 - 10 feet
Choke Cherry	2	Log	1		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Red Maple	5	Log	2		Sweet Fern	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	90	Log	2	13				
Black/Red (Hybrid) Oak	2	Log	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
59	4130 - Aspen	Sapling Well	22.2	26	81-110	N/A	The stand was cut in 1999 under "Used Carpet" 73-059-97. The oak is more common at the south end. The stand includes several small ponds which still have mature aspen around them. These are more common at the north end.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		60	Seedling	6	26	Witch Hazel		
White Oak		5	Sapling	5		Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		10	Seedling	7		White Pine		
Red Maple		5	Sapling	5		White Oak		
Bigtooth Aspen		20	Seedling	6	26			
60	4131 - Aspen, Oak	Sapling Well	43.1	28	Immature	N/A	The stand was clearcut in 1997 under "Gravel Access" 73-052-97. This is the area of the cut that has regenerated well. The terrain is undulating. The northern portion of the stand has significant oak in the understory with some jack pine, creating a soft transition edge into the adjacent jack pine plantation	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		70	Sapling	5	28	Common Blackberry		
Black/Red (Hybrid) Oak		15	Pole	4		Sweet Fern		
Jack Pine		7	Pole	4				
White Oak		8	Pole	4				
61	4130 - Aspen	Sapling Well	13.7	37	81-110	N/A	The stand is progressing into poles. The east portion of the stand has more lowland depressions with balsam fir mixed in. Stand cut in 1988 under "Harrison Avenue" 73-042-87 2" clearcut.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		5	Sapling	5		Witch Hazel		
Red Maple		10	Seedling	7		Black Cherry		
Paper Birch		5	Seedling	6		Red Maple		
Bigtooth Aspen		55	Seedling	6	37	Paper Birch		
Quaking Aspen		25	Seedling	6		Red Oak		
62	4126 - White, Black, N. Pin Oak	Poletimber Well	16.2	50	81-110	N/A	Oak stand that is continuing to fill in with white pine, aspen and maple. Rolling hills. The far west end burned in the spring 2005.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Oak		30	Seedling	6		Witch Hazel		
Black/Red (Hybrid) Oak		45	Seedling	7	50	Serviceberry (Juneberry)		
White Pine		3		9		White Oak		
Jack Pine		2	Seedling	7		Black/Red (Hybrid) Oak		
Black Cherry		5	Seedling	6		White Pine		
Red Maple		10	Seedling	6		Jack Pine		
Bigtooth Aspen		5	Seedling	7				
63	4212 - Planted Jack Pine	Unspecified	32.1	1			Year 1 regen survey done fall of 2024. 660 TPA of planted jack pine, 100 TPA of natural jack pine & 1260 TPA of additional mixed species. Stand planted with jack pine in April 2024. 765 TPA of jack pine interplanted. Trenched in April/May 2023. Stand cut under Town Line Creek Mix 73-001-17 in spring of 2019 as a 2" clearcut. The stand is variable in density and species composition. It goes from oak to jack pine to aspen. The jack pine is declining. Currently there is a lot of down woody material especially along stand 65. The soil is a mixture of Graycalm and Crowwell.	
64	500 - Water	Unspecified	32.5			No	Rice Pond	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
65	6229 - Mixed Lowland Shrub	Unspecified	54.2			No	This stand grades from lowland shrubs to leather leaf as it goes out to the Rice Pond.																																																														
66	4310 - Pine, Oak Mix	Poletimber Well	33.1	36	81-110	N/A	The stand has some areas of jack pine over leather leaf along the west edge. The oak and aspen in the stand is heaviest along the east side and fades out going west.																																																														
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67	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	21.6	22	51-80	N/A	The stand was cut in fall of 1999 under "Sore Ankle Jack Pine" 73-039-97 and planted in 2002. There is a small drainage that runs north/south in the center of the stand. The northwest corner was not planted and is coming back to a mixture of oak and conifers.																																																														
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68	4131 - Aspen, Oak	Poletimber Medium	4.4	57	51-80	N/A	The stand was left as a buffer between two timber sales. The east 1/3 is oak, maple, and pine the rest is aspen with a heavy oak understory.																																																														
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69	4191 - Mixed Upland Deciduous with Conifer		8.9	98	81-110	N/A	Mature mixed hardwood stand between the road and Muskegon river floodplains. The aspen is falling out of the canopy and starting to be replaced by red maple and white pine in areas.																																																														
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70	6229 - Mixed Lowland Shrub	Unspecified	1.8			No	Lowland grassy opening																																																														
71	6225 - Bog	Unspecified	19.1			No	This is a leather leaf bog with some jack pine along the perimeter.																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
72	6139 - Mixed Lowland Forest	Poletimber Well	6.2	55	81-110	N/A	There are some wet pockets in the stand. The jack pine is starting to decline. Hold stand until adjacent aspen is ready for harvest.																																									
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73	4130 - Aspen	Unspecified	6.7	5	Immature	N/A	Stand meets minimum stocking standards with the aspen regeneration. The maple and oak is being browsed heavily, so it has not yet reached 6'. Overall a patchy stand, but should fill in as it ages.																																									
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74	4130 - Aspen	Sawtimber Well	58.8	51	111-140	N/A	Well stocked mature aspen stand in rolling topography. There are some trees beginning to fall out of the canopy. The oak component is located along the eastern boundary.																																									
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75	6128 - Lowland Coniferous, Mixed Deciduous		5.7	35	1-50	N/A	The stand was habitat cut in 1990 as a 2" clearcut. It is very wet with cattails in the southern portion of the stand. The crown closure is around 80%. There are pockets of marsh and lowland shrubs. The high water table gives the stand a low site index. "Jonesville Bridge Swamp" 73-004-88																																									
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76	42210 - Natural Red Pine		8.1	76	51-80	N/A	Stand cut under Town Line Creek Mix 73-001-17 in spring of 2019. All oak, jack pine, aspen and red maple were cut. Cruise cards show 37.5 BA/Acre residual. The stand is a mixture of red, white, and jack pines and oaks. The jack pine and the oak at the southern end of the stand are declining. Currently there is a lot of down woody material especially at the south end. It was not harvested with stand 35.																																									
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77	42140 - Planted Mixed Pine		37.7	98	81-110	N/A	The stand was harvested to 4" DBH retaining all pines in 1998 under "Flying Chef" 73-053-97. This portion of the sale had a higher percentage of mature pines than the rest. There were portions of the stand that were interplanted with red pine in 2002. However, the current residual pines make up the majority of the crown closure. The overstory is heavy to white pines in the north western 1/3 and red pines in the south eastern 1/3.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78 4191 - Mixed Upland Deciduous with Conifer Sapling Well 25.3 25 81-110 N/A

Mixed upland deciduous stand with maple, aspen, oak and mixed conifers. The red maple is common throughout the stand. Birch is more prevalent in the east end where the ground is lower and wetter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Seedling	7		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	20	Seedling	5		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
White Pine	20		14		Red Maple	Low	>20 feet	>20 feet
Jack Pine	5	Sapling	6		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Red Maple	17	Seedling	7		Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet
Paper Birch	8	Sapling	5		Black Cherry	Low	5 - 10 feet	5 - 10 feet

This stand was harvested as a 4" spec clearcut in 1997 under "Flying Chef" 73-053-97.

79 500 - Water Unspecified 18.0 No North half of Haskel Lake

80 4199 - Other Mixed Upland Deciduous Poletimber Well 34.4 92 81-110 N/A

The stand is two-aged with mature mixed oak and maple. Maple and aspen is filling in the canopy. The terrain is rolling. The white pine is concentrated along the shore of Haskel Lake and a pocket along the north edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1		15		White Pine	Low	5 - 10 feet	5 - 10 feet
White Pine	3		14		Red Oak	Low	10 - 20 feet	10 - 20 feet
Red Oak	15		14		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Red Maple	35		12	92	Red Maple	Medium	>20 feet	>20 feet
Bigtooth Aspen	31	Seedling	8	36	Paper Birch	Low	>20 feet	>20 feet
White Oak	15		14		Bigtooth Aspen	Medium	>20 feet	>20 feet
					Witch Hazel	Low	5 - 10 feet	5 - 10 feet

81 6120 - Lowland Cedar Poletimber Well 16.5 109 81-110 N/A

Lowland cedar stand with a good majority of blow down. There are more open grassy swales in the north half.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10		13		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	15	Sapling	5		White Pine	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	60		9	109	Balsam Fir	High	5 - 10 feet	5 - 10 feet
Red Maple	10		10					
Paper Birch	5	Seedling	6					

82 3303 - Mixed Low Density Trees Unspecified 8.5 No

Open grown stand that is below the 25% canopy closure. The cherry & jack pine is 5-7" DBH and open grown. Minimal oak regeneration and it is under 10' tall. Heavy orv use.

Sub-Canopy Species	Density	Avg. Height	Size
Choke Cherry	Medium	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Jack Pine	Medium	>20 feet	>20 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
83	4125 - Black, N. Pin Oak	Sapling Medium	8.8	26	Immature	N/A	The stand was harvested in 1998 under "New Purchase Salvage" 73-051-97 and it was not interplanted. The terrain is fairly flat. The regeneration is somewhat variable. Canopy closure is closer to 75% as the stand continues to fill in and grow.																																																														
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84	122 - Road/Parking Lot	Unspecified	1.7			No	This is Wilson Road																																																														
85	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	71.1	22	Immature	N/A	The stand was harvested in 1998 under "New Purchase Salvage" 73-051-97. Pockets of 4" saplings were left during previous harvest. Stand was interplanted with red pine in 2002 with a portion being redone in 2004. The red pine is doing well in the swales and the hardwood is doing better on the slopes and hills.																																																														
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86	629 - Mixed non-forested Wetland	Unspecified	8.7			No	Marsh with standing water during non-drought conditions. There are also pockets of thick willow & tag alder																																																														
87	4131 - Aspen, Oak	Sapling Well	25.7	26	81-110	N/A	The stand was harvested in 1998 under "New Purchase Salvage" 73-051-97 and regenerated well naturally. There are pockets of pure oak towards the north end as well as heavy oak understory beneath the aspen. The southern portion of the stand is heavy to aspen with not much in the understory.																																																														
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88	4199 - Other Mixed Upland Deciduous	Sawtimber Well	67.8	92	81-110	N/A	Mature upland hardwoods stand. Large red and white oak with a heavy maple component. Red maple saplings are recruiting into the pole class.																																																														
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89	4130 - Aspen	Sapling Well	69.4	8	Immature	N/A	Harvested as a clearcut with retention in Long Lake Mix 73-004-16. It was completed Aug. 2018. Coming back very well to aspen with a good portion of maple and oak mixed in.																																																		
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90	500 - Water	Unspecified	13.5			No	This stand is Townline Creek																																																		
91	4126 - White, Black, N. Pin Oak	Sawtimber Well	4.6	95	81-110	N/A	The stand was thinned in 1990. Subcanopy is heavy to oak now with a good majority being white oak. Canopy closure is closer to 75%																																																		
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92	500 - Water	Unspecified	4.3			No	Townline Creek																																																		
93	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	31.5	15	Immature	N/A	The stand was final harvested in March of 2009, Hawthorn Mix, sale number 73-008-08-01. It was planted to jack pine in 2011, FTP C73-836. The oak regeneration dominates the northern half of the stand, while the planted jack pine is doing better in the south and eastern portion of the stand.																																																		
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94	4131 - Aspen, Oak	Sapling Well	102.4	26	Immature	N/A	The stand was clear cut in 1999 under "New Purchase Salvage" 73-051-97. Then a portion of it burned in a wildfire in the spring of 2005. The terrain is rolling. The species density and composition is variable. There are numerous aspen clones with an oak understory. Areas of oak and choke cherry are found in the lower elevation pockets & are slowly filling in.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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95 42111 - Planted Red Pine, Mixed Deciduous Sapling Well 18.9 22 51-80 N/A

This stand was cut out of surrounding mixed hardwoods and planted red pine. More contiguous red pine rows and can now be managed as a red pine plantation. The stand was harvested in 1998 under "New Purchase Salvage" 73-051-97 and then interplanted in 2002.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Sapling	5		White Oak	Low	5 - 10 feet	5 - 10 feet
Black Cherry	3	Pole	4		Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet
White Oak	8	Log	4		Black Cherry	Low	10 - 20 feet	10 - 20 feet
Red Pine	69	Sapling	5	22	Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Red Maple	5	Sapling	5					

96 6239 - Mixed Emergent Wetland Unspecified 47.3 No

This stand is the wetlands on either side of Townline Creek. The south east end is heavier to cattails and marsh grass with some large snags along the edges.

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Low	Not Applicable	Not Applicable
Red Maple	Low	>20 feet	>20 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
White Pine	Low	>20 feet	>20 feet

97 42220 - Natural Jack Pine Poletimber Medium 3.2 85 51-80 N/A

The stand is a strip of trees left between the power line and Pierce Road. It is a mix of oaks and pines.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	25		6	
White Pine	10		8	
Jack Pine	65	Seedling	7	85

98 6225 - Bog Unspecified 1.1 No

The stand is in a depression on a pocket of Loxley Muck soil.

99 6122 - Black Spruce Poletimber Poor 16.7 99 1-50 N/A

This area is a large wetlands with scattered black spruce and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	85	Sapling	5	99	Tag Alder	Full	5 - 10 feet	5 - 10 feet
Northern White Cedar	15	Sapling	5		Michigan Holly	High	5 - 10 feet	5 - 10 feet

100 6229 - Mixed Lowland Shrub Unspecified 6.5 No

This stand is a depression that is heavy to tag alder, willow and dogwood. Any canopy trees are dying out.

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Low	5 - 10 feet	5 - 10 feet
Paper Birch	Low	>20 feet	>20 feet
Tag Alder	Full	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet

101 623 - Emergent Wetland Unspecified 8.8 No

The stand is now more of a cattail marsh than a beaver pond. The dam is still presence but it has been breached.

Sub-Canopy Species	Density	Avg. Height	Size
Common Cattail	High	Not Applicable	Not Applicable
Willow spp.	Low	5 - 10 feet	5 - 10 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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102 6230 - Cattail Unspecified 32.0 No Cattail marsh with evidence of Beaver activity

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	>20 feet	>20 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet
Common Cattail	High	Not Applicable	Not Applicable

103 500 - Water Unspecified 3.5 No

104 6112 - Lowland Aspen Poletimber Well 20.9 46 81-110 N/A

Mature aspen stand with a more lowland influence than the adjacent stand to the south. Smaller diameter aspen and heavier to balsam fir in the overstory and understorey.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Sapling	7	46	Musclewood/Hornbeam	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	2	Sapling	6		Paper Birch	Low	>20 feet	>20 feet
White Pine	1		14		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Red Maple	10	Sapling	6		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	35	Seedling	8	46				
White Oak	1	Sapling	6					
Balsam Fir	6	Seedling	6					

105 4199 - Other Mixed Upland Deciduous 1.7 60 81-110 N/A Upland hardwood ridge along the US-127 corridor.

106 4130 - Aspen Sapling Medium 7.6 5 Immature N/A

Stand cut under Town Line Creek Mix 73-001-17 in fall of 2020 as a 2" clearcut. This stand regenerated better than stand 25 to the south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Log	1		Black Willow	Low	5 - 10 feet	5 - 10 feet
Red Maple	25	Log	1		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	65	Log	1	5				
Black/Red (Hybrid) Oak	5	Log	1					

107 4310 - Pine, Oak Mix Sapling Well 66.6 22 Immature N/A

The stand was clear cut in 1998 under "Flying Chef" 73-053-97 and interplanted with red pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	50	Pole	4	22	White Oak	Trace	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	25	Seedling	5		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	5	Seedling	6		White Pine	Low	5 - 10 feet	5 - 10 feet
Paper Birch	5	Seedling	6		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	15	Seedling	6	26				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
108	42110 - Planted Red Pine	Sawtimber Well	30.0	69	111-140	N/A	Good quality red pine in both form and height. The average basal area is sitting around 130-140 BA/Acre. The stand was thinned in the summer of 2011, Clare Red Pine Assist, sale number 73-009-07-01 to 117 BA/Acre. There is an inclusion of L-Type and a vein of hardwoods and white pines in the central portion of the stand.																																																			
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110	4130 - Aspen	Sapling Well	9.6	28	51-80	N/A	A well stocked aspen stand that is starting to grow into pole size. The stand was clearcut in 1997 under "Rusty Dog Pine" 73-040-97.																																																			
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111	500 - Water	Unspecified	2.4			No	The stand looks to be an old beaver flooding that is starting to fill in with lowland shrubs																																																			
112	42110 - Planted Red Pine	Sawtimber Well	18.5	69	81-110	N/A	The stand was thinned in the summer 2011 under Clare Red Pine Assist 73-009-07-01. Current basal area ranged from 90-120 BA/Acre. Good quality and form in the stand.																																																			
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113	6239 - Mixed Emergent Wetland	Unspecified	3.4			No	The stand is the wetlands along Townline Creek. It is a mixture of lowland shrubs, marsh grass, leather leaf, and some scattered trees.																																																			
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114	4136 - Aspen, Mixed Conifer	Poletimber Well	19.2	50	81-110	N/A	The stand has areas of thick understory of 2-3' balsam fir. Areas of lower ground contain pockets of windthrow.																																																																						
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115	6120 - Lowland Cedar	Poletimber Well	19.9	109	111-140	N/A	There is a lot of down trees in the stand. In areas where the cedar over story has come down the fir is so thick it is hard to navigate. Very dense stand of cedar, balsam fir and tag alder.																																																																						
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116	4131 - Aspen, Oak	Sapling Well	43.6	27	Immature	N/A	The stand was clearcut in spring of 1998 under "Marsh Divide" 73-061-97. There is a small (1-2 acre) section of mixed aspen, white pine, and balsam fir that was painted out because of wet ground. All cedar and hemlock were left during 1998 harvest. Areas that were less canopy cover are seeding in with oak and white pine.																																																																						
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117	6112 - Lowland Aspen	Poletimber Well	33.4	37	81-110	N/A	This stand is a lowland aspen stand with a heavy influence of balsam fir. There are now some pockets of pole size balsam fir and also areas of blow down where balsam fir was left during 1988 harvest. It was harvested in 1988 as a 4" clearcut under "Wilson Road" 73-043-87.																																																																						
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118	4130 - Aspen	Poletimber Well	59.0	46	81-110	N/A	Mature aspen stand with lowland thicket inclusions and ridges. There are lowland drains bisecting stand containing higher density of balsam fir and smaller diameter hardwoods.																																																												
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Musclewood/Hornbeam	Low	5 - 10 feet	5 - 10 feet																																																																
119	6225 - Bog	Unspecified	1.1			No	The stand is a leather leaf depression with some conifer on the west end.																																																												
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121	4130 - Aspen	Sapling Well	9.8	26	Immature	N/A	The stand was harvested in 1998 under "New Purchase Salvage" 73-051-97. Pockets of 4" saplings were left during previous harvest. This portion of the stand was not interplanted to red pine.																																																												
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Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

123 4310 - Pine, Oak Mix Sapling Well 37.8 22 Immature N/A

The stand was clear cut in 1998 under "Flying Chef" 73-053-97 and interplanted with red pine. This portion has a higher percentage of white pine logs left in the canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	40	Pole	4	22	Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	25	Seedling	5		White Oak	Trace	5 - 10 feet	5 - 10 feet
White Pine	10		15		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	5	Seedling	6		White Pine	Low	5 - 10 feet	5 - 10 feet
Paper Birch	5	Seedling	6					
Bigtooth Aspen	15	Seedling	6	26				

124 42141 - Planted Mixed Pine, Mixed Deciduous 50.3 22 Immature N/A

The stand was clearcut to 4" in 1997 retaining pines under "Flying Chef" 73-053-97 & interplanted with red pine in 2002. Very diverse stand with log sized white pine and natural regen, while also containing areas of planted red pine. The residual jack pine poles are higher at the north end, white pine logs are throughout and red pine sawlogs are scattered.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	21	Sapling	5		Common Lowbush Blueberry	Low	5 - 10 feet	5 - 10 feet
White Pine	12		14		Sweet Fern	Low	5 - 10 feet	5 - 10 feet
Jack Pine	30	Pole	2	22	Willow spp.	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	2	Sapling	6					
Choke Cherry	4	Pole	4					
Red Pine	1		12					

125 6128 - Lowland Coniferous, Mixed Deciduous 43.6 102 81-110 N/A

The stand is highly variable and it is on the Muskegon River Flood Plain. The west end is heavier to a cedar lowland type. The east end towards the river transitions more to lowland hardwood & balsam fir with a few small upland ridges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2		12		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	20	Sapling	7		Balsam Fir	High	Variable	Variable
White Pine	25		12		White Pine	High	10 - 20 feet	10 - 20 feet
Red Maple	33		13	102				

126 6120 - Lowland Cedar Poletimber Medium 3.7 108 81-110 N/A

Lowland cedar stand that transitions into the Towline Creek floodplain.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5		12		Quaking Aspen	Low	5 - 10 feet	5 - 10 feet
White Pine	10		13		Beech	Low	5 - 10 feet	5 - 10 feet
Red Maple	17		14		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Paper Birch	3	Sapling	5		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	50		14	108				
Hemlock	15		12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
127	4310 - Pine, Oak Mix	Sapling Well	20.8	22	Immature	N/A	The stand was clear cut in 1998 under "Flying Chef" 73-053-97 and interplanted with red pine. This portion of the area has a higher density of white pine logs in the canopy.																																																																							
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128	6220 - Alder/Willow	Unspecified	3.0			No	This stand is in a depression and is mainly tag alder. There are pockets of aspen and birch but there is not much.																																																																							
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130	6131 - Hemlock, White Pine, Maple, Birch		9.7	108	81-110	N/A	The stand is highly variable and it is on the Muskegon River Flood Plain. Overall the stand has a red maple canopy with conifers filling in canopy gaps.																																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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131 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 26.8 92 81-110 N/A

The stand is transitioning into a lowland coniferous stand, dominated by balsam fir. The northern half is more patchy in canopy cover and contains more tag alder thickets. The southern half has a few isolated upland knobs where the aspen and oak is found. The southwest corner was in the recent timber sale to the west, but never got harvested due to low, wet ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	6	Seedling	6		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	30	Sapling	7		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Red Maple	40		8	92	Balsam Fir	High	10 - 20 feet	10 - 20 feet
Paper Birch	4		8		Beech	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	10		12		Red Maple	Medium	10 - 20 feet	10 - 20 feet

132 42290 - Natural Mixed Pine 9.2 60 51-80 N/A

All the aspen and oak were cut in 1997 under "Flying Chef" 73-053-97 and all conifers were left. White pine basal area was around 40-50 ba/acre in Feb 2025. The oak regeneration is coming along well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Seedling	6	28	Beech	Low	5 - 10 feet	5 - 10 feet
White Pine	50		14	60	Black/Red (Hybrid) Oak	High	>20 feet	>20 feet
Jack Pine	40		7		White Pine	Low	10 - 20 feet	10 - 20 feet
					Jack Pine	Low	>20 feet	>20 feet

133 6239 - Mixed Emergent Wetland 4.6 No

Lowland swale along the Muskegon River flood plain

134 42141 - Planted Mixed Pine, Mixed Deciduous 35.8 22 Immature N/A

The stand was clearcut to 4" in 1997 retaining pines under "Flying Chef" 73-053-97 & interplanted with red pine in 2002. Very diverse stand with log sized white pine and natural regen, while also containing areas of planted red pine. The residual jack pine poles are higher at the north end, white pine logs are throughout and red pine sawlogs are scattered.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Sapling	6		Willow spp.	Low	5 - 10 feet	5 - 10 feet
Choke Cherry	4	Pole	4		Common Lowbush Blueberry	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	21	Sapling	5		Sweet Fern	Low	5 - 10 feet	5 - 10 feet
White Pine	12		14					
Jack Pine	30	Pole	2	22				
Red Pine	30	Pole	4	22				

135 42260 - Natural Pine, Mixed Deciduous 18.0 50 81-110 N/A

Mixed upland white pine stand with a minor component of red maple and oak. Stand is higher than adjacent lowland type.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5		15		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	10		14		White Pine	High	Variable	Variable
White Pine	49		14	50	Red Maple	Low	>20 feet	>20 feet
Jack Pine	15	Seedling	8		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Red Maple	20		15					
Bigtooth Aspen	1		12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
136	4133 - Aspen, Mixed Pine		2.3	37	1-50	N/A	The stand is the ORV/snowmobile parking lot at the north end and special use area at the south end. The soils are heavily disturbed with about 40% being exposed sand.																																													
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146	42120 - Planted Jack Pine		21.3	35	81-110	N/A	The stand was planted in 1990. The jack pine has a low occurrence of galls. Also there are some killed leaders and dead trees but they are widely scattered. Stand 144 in compartment 9 was planted at the same time.																																													
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209	6224 - Treed Bog	Unspecified	1.8			No	The crown closure is closer to 20%.																																													
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246	4122 - Oak, Pine		7.2	35	1-50	N/A	The stand has a crown closure of around 60%. Most of the oak is stump sprout origin but some are seed source. The density in the stand is variable going from dense to sparse. The ORV trail runs through the stand.																																													
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400	310 - Herbaceous Openland	Unspecified	5.1			Yes	Wildlife Division maintained opening																																													
402	3103 - Rubus-Fern	Unspecified	0.5			No	The stand is heavy to blackberry. It is not a maintained opening so it would make a good landing for stand 89.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
403	310 - Herbaceous Openland	Unspecified	2.5			No	Unmanaged opening that may be an old gravel pit. Heavy orv use and small hill climbs on the west edge.				
404	310 - Herbaceous Openland	Unspecified	1.2			No	The stand appears to be the landing used to harvest stand 108. There are now some shrubs filling in along the edges.				
405	320 - Upland Shrub	Unspecified	6.4			No	The stand is mainly shrubs 3-5' with some areas where it is 5-10'. There are also a couple of open areas of herbaceous ground cover.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet
								Black Willow	Full	5 - 10 feet	5 - 10 feet
								Choke Cherry	Low	>20 feet	>20 feet
White Pine	Low	>20 feet	>20 feet								
406	3102 - Grass	Unspecified	2.7			No	utility line ROW				