



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 Graycalm 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 Haskell 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**

A horizontal scale bar with a black background and white markings. The bar is divided into four equal segments by white vertical lines. Above the bar, the numbers 0, 0.5, and 1 are printed in white. The word "Miles" is printed in white at the right end of the bar.

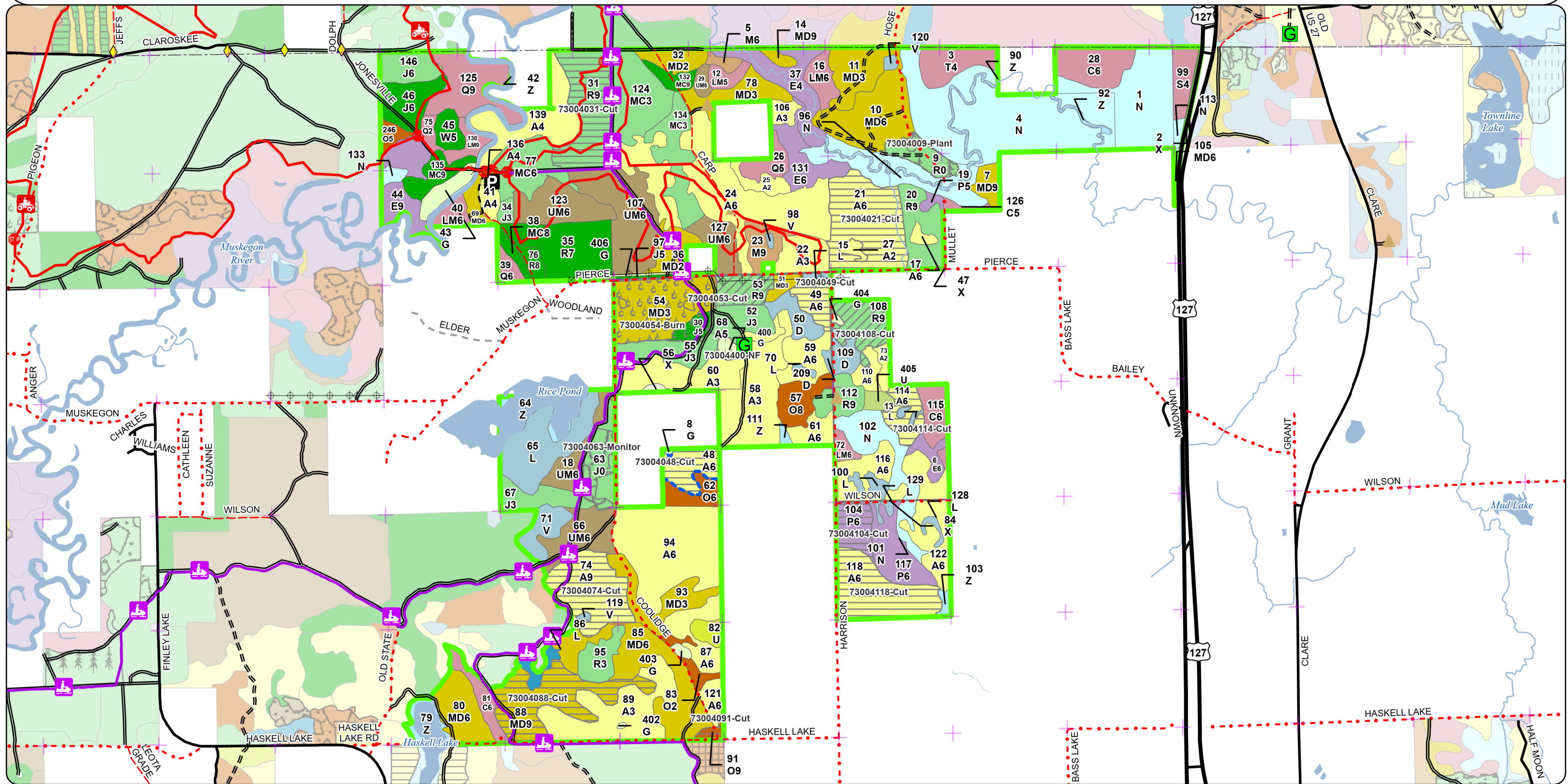
-  Remonumented Section Corners
-  Survey Grade Corners
-  Berms
-  Gate
-  Bridges
-  Parking Lot
-  Sign
-  Trailhead
-  Designated Snowmobile Trails

-  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

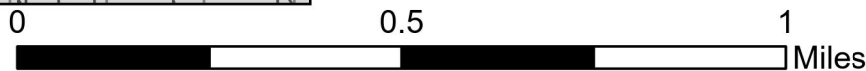
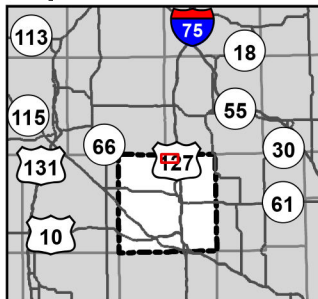
-  Treatments with Site Conditions
-  411 - Northern Hardwood
-  412 - Oak Types
-  413 - Aspen
-  419 - Mixed Upland Deciduous
-  421 - Planted Pines
-  422 - Natural Pines
-  430 - Upland Mixed Forest
-  500 - Water
-  611 - Lowland Deciduous Forest
-  612 - Lowland Coniferous Forest

- 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



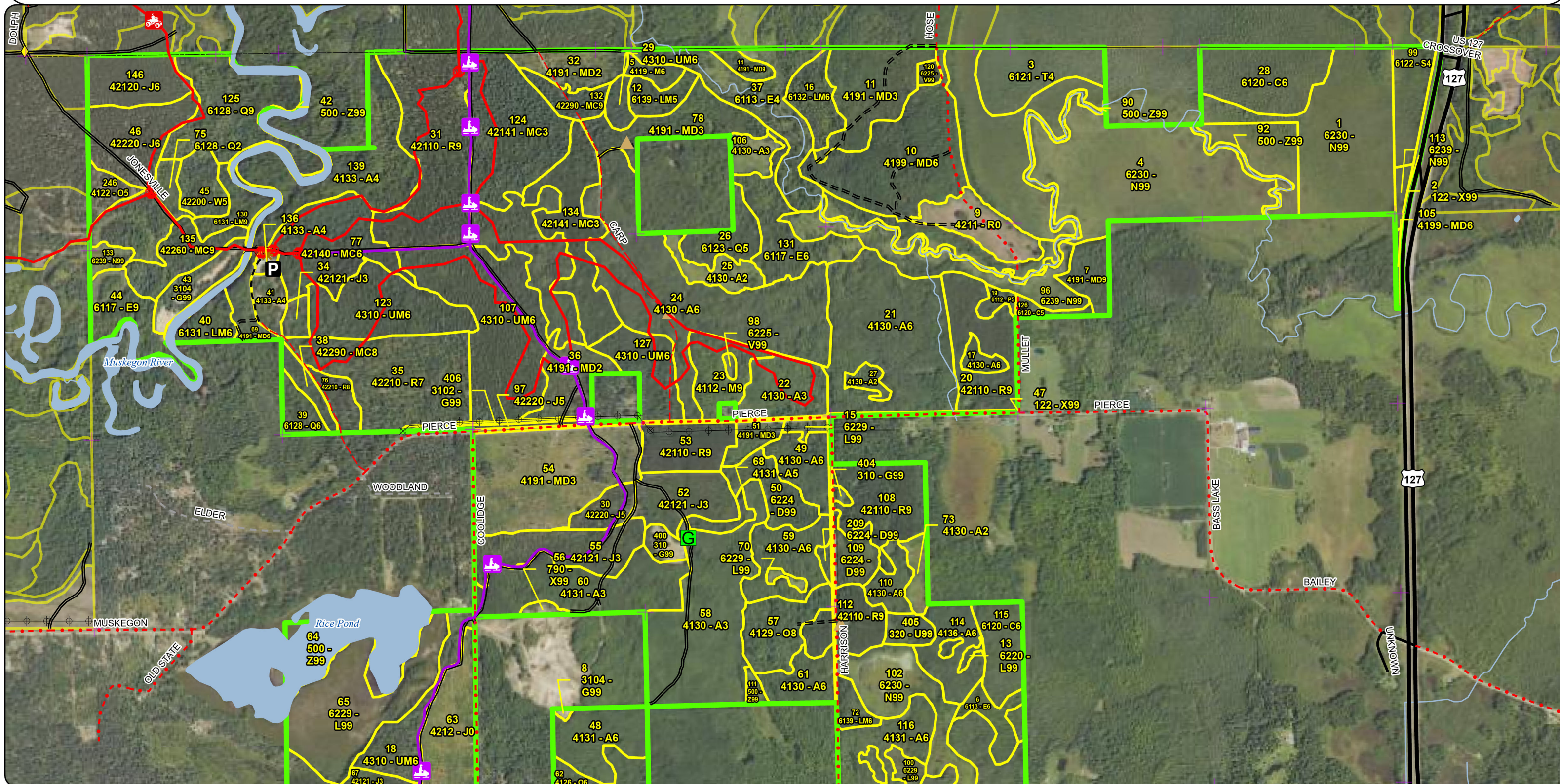
Stand Boundary Map

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

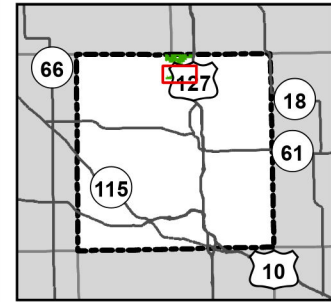


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- Survey Grade Corners
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Stand Boundary Map

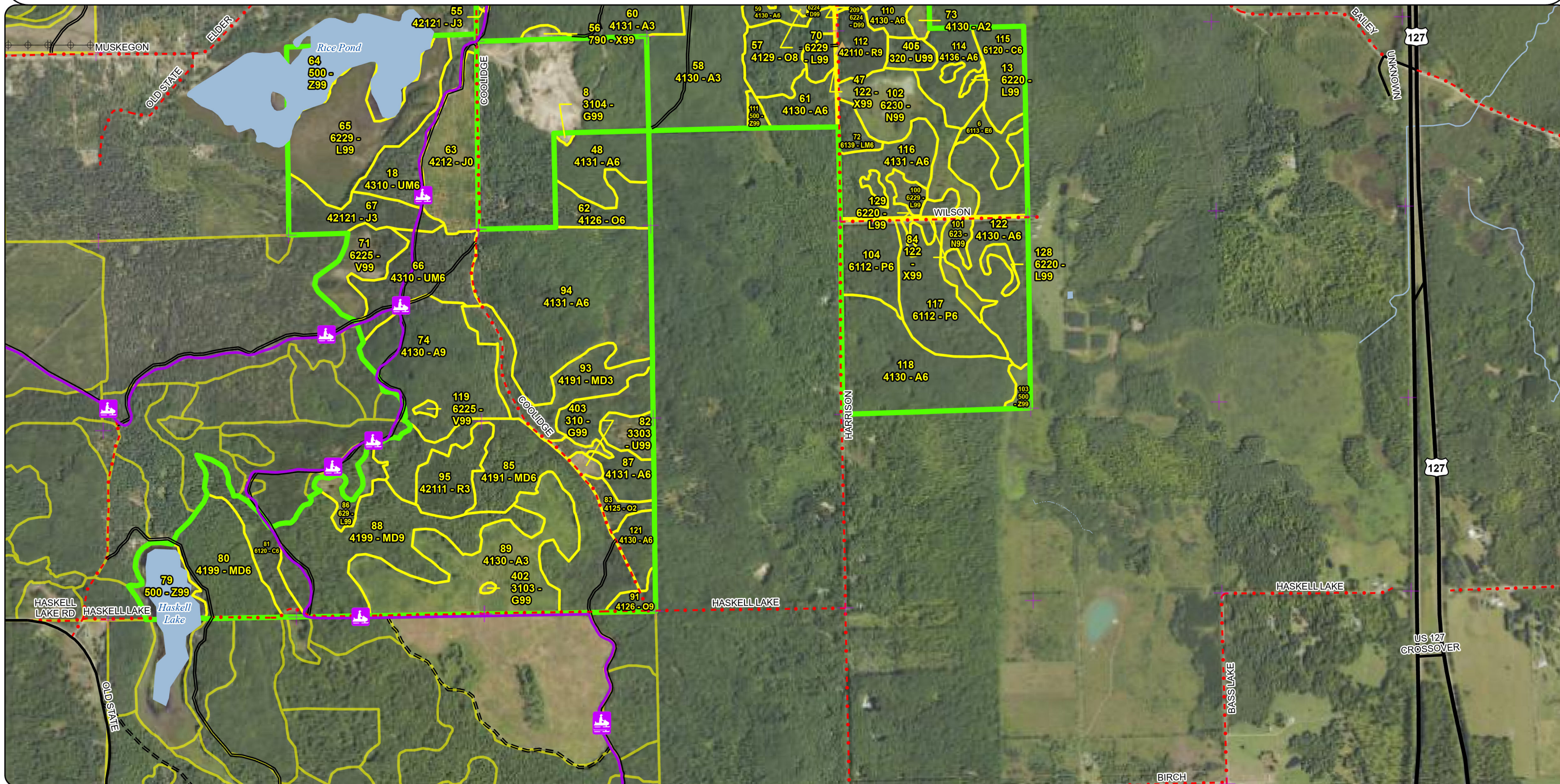


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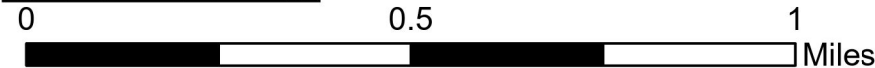
0 0.5 1 Miles



























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- ▲ Berms
- Designated Snowmobile Trails
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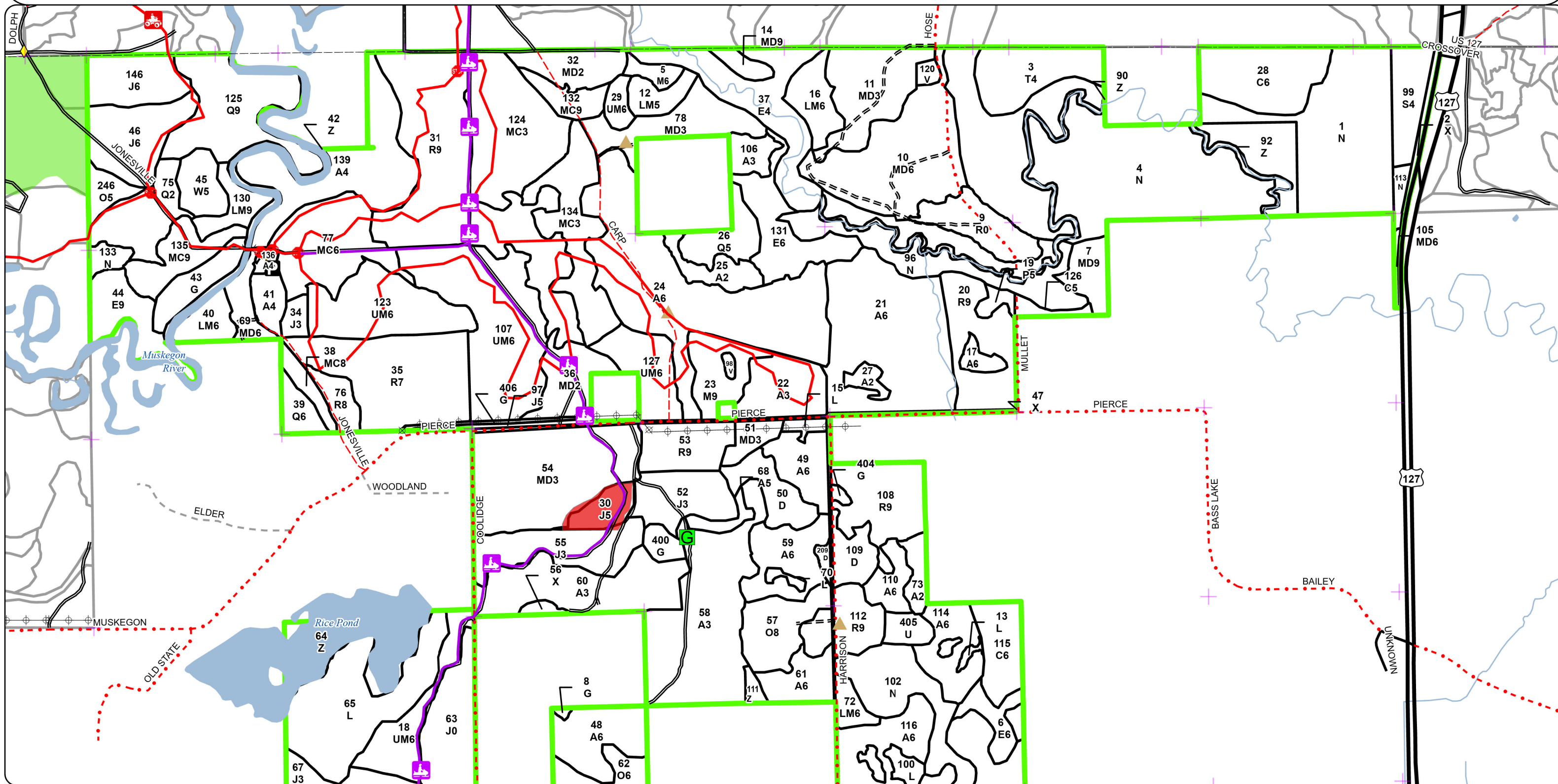
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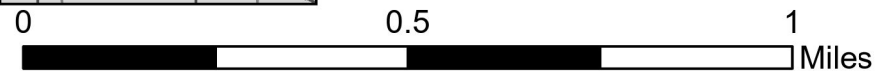


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|-------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|----------------------------|
|  | Remonumented Section Corners |  | Sign |  | Federal / State Highway |  | Lakes and Rivers |
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|  | Gate |  | Designated ATV Trails |  | County - Gravel Road |  | Compartment Boundary |
|  | Bridges |  | DNR - Secondary Forest Road |  | County - Dirt Road (Seasonal) |  | Stand Boundaries |
|  | Parking Lot |  | DNR - Forest Access Route |  | Private - Dirt / Gravel Road |  | Ecological Reference Areas |
| | | | |  | Perennial River |  | Kirtland's Warbler Habitat |



Special Conservation Areas & Site Conditions Map

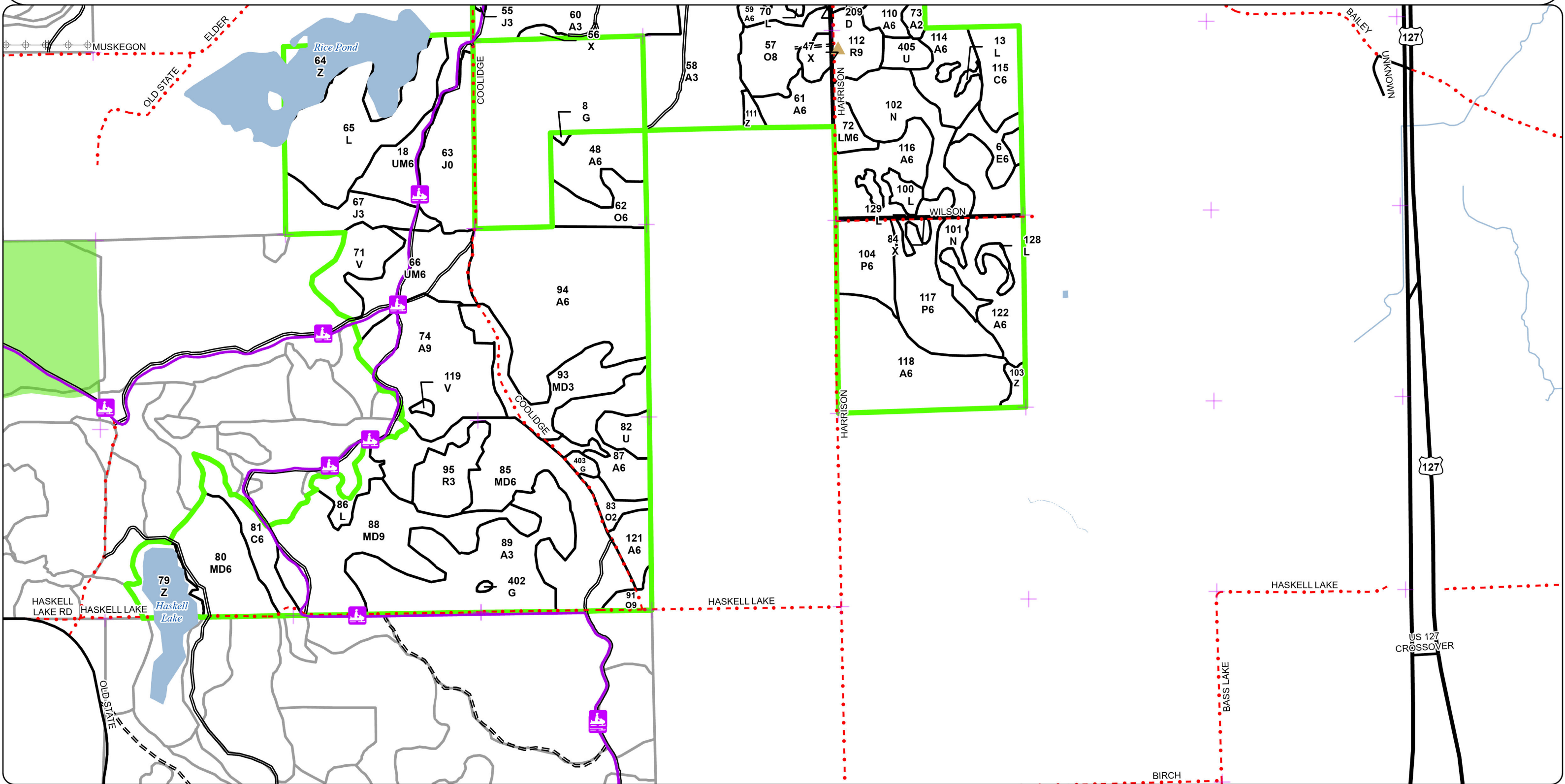
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- Kirtland's Warbler Habitat



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

Acres of Harvest

Compartment 4
Total Compartment Acres: 3,281

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



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 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



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

48 73004048-Cut 23.4 4131 - Aspen, Oak 6 50 111-140 Harvest Clearcut 413 - Aspen Planting Record No

Prescription Cut all trees 2 inches and greater in diameter. Add Gladwin grouse spec. Add oak wilt 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: Survey Needed

Proposed Start Date: 10/01/2026

49 73004049-Cut 15.5 4130 - Aspen 6 50 111-140 Harvest Clearcut 413 - Aspen Planting Record No

Prescription Cut all trees 2 inches and greater in diameter. Add Gladwin Grouse spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

53 73004053-Cut 19.2 42110 - Planted Red Pine 9 69 141-170 Harvest Thinning 4211 - Planted Red Pine Planting Record No

Prescription Thin stand with a target residual of 90 BA/acre. Follow marking guidelines.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

74 73004074-Cut 58.8 4130 - Aspen 9 51 111-140 Harvest Clearcut 413 - Aspen Planting Record No

Prescription Cut all trees 2 inches and greater in diameter. Follow standard island retention. Add grouse spec. Add snowmobile trail 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



Standard
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

Prescription mowing to maintain grassy opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

88 73004088-Cut 67.8 4199 - Other Mixed Upland Deciduous 9 92 81-110 Harvest Clearcut 4199 - Other Mixed Upland Deciduous Planting Record No

Prescription Cut all trees 2 inches and greater in diameter. Follow standard island retention. Add oak wilt spec. Add Gladwin grouse spec. Add snowmobile spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A naturally regenerated stand of aspen, oak and maple meeting minimum stocking standards.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

104 73004104-Cut 20.9 6112 - Lowland Aspen 6 46 81-110 Harvest Clearcut 6112 - Lowland Aspen Planting Record No

Prescription 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.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

108 73004108-Cut 30.0 42110 - Planted Red Pine 9 69 111-140 Harvest Thinning 4211 - Planted Red Pine Planting Record No

Prescription Thin stand with a target residual of 90 BA/acre. Follow marking guidelines.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026



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
114	73004114-Cut	19.2	4136 - Aspen, Mixed Conifer	6	50	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Cut all trees 2 inches and greater in diameter. Add Gladwin Grouse spec. Add dry/frozen 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> There is a closed forest access route off of Harrison Avenue that will be used as access. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
118	73004118-Cut	59.0	4130 - Aspen	6	46	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Cut all trees 2 inches and greater in diameter. Follow standard island retention. 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 with mixed deciduous meeting minimum stocking standards. <u>Regen:</u> <u>Other</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 <u>Comment:</u> painted out during sale prep. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
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
<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 <u>Specs:</u> 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. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> the goal is to create a pine or pine/oak barrens. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

Approved Treatments:

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



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

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/01/2024

Total Treatment 0
Acreage Proposed:

Report 4 – Site Conditions

Gladwin Mgt. Unit

Colton Behrmann: Examiner

Compartment: 4

Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
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Dominant Site Conditions

Acres	Available	With Condition	Not Available		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

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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



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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

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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

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Colton Behrmann: Examiner

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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	Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	1	Seedling	7		Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
								Northern White Cedar	5	Sapling	6		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
								Balsam Fir	10	Seedling	6		Tamarack	Low	5 - 10 feet	5 - 10 feet
								Tamarack	84	Sapling	5	105	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
Black/Red (Hybrid) Oak	25		16		Balsam Fir	Medium	< 5 feet									< 5 feet
Red Maple	70		13	99	Ironwood	Low	5 - 10 feet									5 - 10 feet
White Oak	5		11		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	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	95		8	55	Tag Alder	Low	5 - 10 feet	5 - 10 feet
								Paper Birch	2	Log	4		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
								Northern White Cedar	3	Sapling	5		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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		25		16	82	Red Pine		Low	10 - 20 feet	10 - 20 feet
White Pine		25		12	82	White Oak		Low	>20 feet	>20 feet
Jack Pine		6	Seedling	9		Black/Red (Hybrid) Oak		Low	>20 feet	>20 feet
Red Pine		4		12		White Pine		Medium	10 - 20 feet	10 - 20 feet
Red Maple		15	Sapling	5		Beech		Low	>20 feet	>20 feet
Bigtooth Aspen		25		14	82	Red Maple		Low	10 - 20 feet	10 - 20 feet
8	3104 - Degraded	Poletimber Well	0.7			No	Looks like a trespass. Will confirm with survey corners.			
9	4211 - Planted Red Pine	Unspecifed	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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		36	Seedling	6		Red Maple		Low	10 - 20 feet	10 - 20 feet
White Oak		2		8		Black/Red (Hybrid) Oak		Low	10 - 20 feet	10 - 20 feet
Balsam Fir		1	Sapling	5		White Pine		Medium	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak		45	Seedling	6	36	White Oak		Low	10 - 20 feet	10 - 20 feet
White Pine		15		12		Balsam Fir		Low	10 - 20 feet	10 - 20 feet
Jack Pine		1	Sapling	5						
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.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black/Red (Hybrid) Oak		25	Log	3						
Jack Pine		35	Log	3	15					
Bigtooth Aspen		35	Log	3	15					



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
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.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>10</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>25</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>60</td><td>Seedling</td><td>5</td><td>28</td></tr></table>								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															
Canopy Species	% Cover	Size Class	DBH	Age																																											
Black/Red (Hybrid) Oak	10	Seedling	5																																												
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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.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>1</td><td></td><td>12</td><td></td></tr><tr><td>White Oak</td><td>1</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td></td><td>9</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>18</td><td></td><td>9</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>9</td><td></td></tr><tr><td>Jack Pine</td><td>50</td><td></td><td>8</td><td>80</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	1		12		White Oak	1	Seedling	6		Red Maple	10		9		Bigtooth Aspen	15	Seedling	7		Black/Red (Hybrid) Oak	18		9		White Pine	5		9		Jack Pine	50		8	80
Canopy Species	% Cover	Size Class	DBH	Age																																											
Red Pine	1		12																																												
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<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Leatherleaf</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Common Lowbush Blueberry</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Sub-Canopy Species	Density	Avg. Height	Size	Leatherleaf	Low	5 - 10 feet	5 - 10 feet	Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet	White Pine	Low	10 - 20 feet	10 - 20 feet	Common Lowbush Blueberry	High	5 - 10 feet	5 - 10 feet	Red Maple	Medium	5 - 10 feet	5 - 10 feet																
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Common Lowbush Blueberry	High	5 - 10 feet	5 - 10 feet																																												
Red Maple	Medium	5 - 10 feet	5 - 10 feet																																												
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.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>35</td><td></td><td>12</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Quaking Aspen</td><td>60</td><td></td><td>11</td><td>50</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	35		12		Black Cherry	5	Seedling	7		Quaking Aspen	60		11	50																				
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Sub-Canopy Species	Density	Avg. Height	Size																																												
Black Cherry	Low	5 - 10 feet	5 - 10 feet																																												
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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.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>85</td><td></td><td>12</td><td>66</td></tr><tr><td>Quaking Aspen</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>3</td><td></td><td>14</td><td></td></tr><tr><td>Paper Birch</td><td>2</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>3</td><td></td><td>16</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>10</td><td></td></tr><tr><td>Black Cherry</td><td>3</td><td>Seedling</td><td>9</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	85		12	66	Quaking Aspen	2		12		Red Maple	3		14		Paper Birch	2	Sapling	7		Black/Red (Hybrid) Oak	3		16		White Pine	2		10		Black Cherry	3	Seedling	9	
Canopy Species	% Cover	Size Class	DBH	Age																																											
Red Pine	85		12	66																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
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



MICHIGAN

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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Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet																																																											
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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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	Unspecifed	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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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.																																			
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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.																																			
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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.																																		
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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.																																			
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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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		15	Seedling	6		White Oak		Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak		25	Seedling	7		Black/Red (Hybrid) Oak		Medium	5 - 10 feet	5 - 10 feet
Jack Pine		50	Seedling	6	36					
Black Cherry		5	Seedling	6						
White Oak		5	Sapling	5						
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.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Oak		5	Pole	4						
Black/Red (Hybrid) Oak		10	Sapling	5						
Jack Pine		80	Sapling	5	22					
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		15	Seedling	7		Black/Red (Hybrid) Oak		Medium	5 - 10 feet	5 - 10 feet
Jack Pine		5	Pole	4		White Oak		Low	5 - 10 feet	5 - 10 feet
White Oak		5	Sapling	5						
Red Maple		10	Seedling	9						
Paper Birch		5	Seedling	8						
Bigtooth Aspen		60	Seedling	8	57					
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		29		14	98	Black/Red (Hybrid) Oak		Trace	5 - 10 feet	5 - 10 feet
White Oak		5		13		White Pine		Medium	>20 feet	>20 feet
Balsam Fir		3	Seedling	6		Balsam Fir		Low	>20 feet	>20 feet
Black/Red (Hybrid) Oak		25		12		Red Maple		Low	>20 feet	>20 feet
White Pine		20		18		Paper Birch		Low	>20 feet	>20 feet
Red Maple		15		9						
Red Pine		3		16						
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.																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Quaking Aspen</td><td>90</td><td>Log</td><td>1</td><td>5</td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>1</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Black/Red (Hybrid) Oak	5	Log	1		Quaking Aspen	90	Log	1	5	Red Maple	5	Log	1																												
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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 then 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		
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	10	Sapling	5		Willow spp.	Medium		< 5 feet	< 5 feet
Black/Red (Hybrid) Oak	55	Sapling	6	26	Sweet Fern	Full		5 - 10 feet	5 - 10 feet
Jack Pine	10	Seedling	5						
Black Cherry	20	Sapling	5						
Bigtooth Aspen	5	Sapling	5						
84	122 - Road/Parking Lot	Unspecifed	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	4	Pole	4		Witch Hazel	Medium		5 - 10 feet	5 - 10 feet
Red Pine	30	Pole	4	22					
Red Maple	5	Log	1						
Bigtooth Aspen	30	Seedling	5	22					
Black/Red (Hybrid) Oak	15	Seedling	5	26					
Jack Pine	6	Sapling	5						
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black/Red (Hybrid) Oak	25	Seedling	6		Oak (spp.)	Medium		5 - 10 feet	5 - 10 feet
Black Cherry	5	Seedling	5		Sweet Fern	Medium		5 - 10 feet	5 - 10 feet
Red Maple	10	Seedling	6		Serviceberry (Juneberry)	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	50	Seedling	5	26	Choke Cherry	Low		5 - 10 feet	5 - 10 feet
White Oak	10	Pole	4		Common Blackberry	Medium		5 - 10 feet	5 - 10 feet
					Red Maple	High		5 - 10 feet	5 - 10 feet
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	2		14		Red Oak	Low		10 - 20 feet	10 - 20 feet
Red Oak	28		15	92	White Pine	Low		>20 feet	>20 feet
Red Maple	20		11		White Oak	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	25		8		Balsam Fir	Low		10 - 20 feet	10 - 20 feet
White Oak	20		14		Red Maple	Medium		>20 feet	>20 feet
White Pine	5		12		Bigtooth Aspen	Medium	>20 feet	>20 feet	





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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
102	6230 - Cattail	Unspecified	32.0			No	Cattail marsh with evidence of Beaver activity																																																																								
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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 understory.																																																																								
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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.																																																																								
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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.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		60	Seedling	7	50	Balsam Fir		Medium	>20 feet	
Black/Red (Hybrid) Oak		3	Sapling	6		Beech		Low	10 - 20 feet	
White Pine		5		7		Paper Birch		Trace	>20 feet	
Balsam Fir		17	Sapling	6		Tag Alder		Low	5 - 10 feet	
Red Maple		5	Sapling	6		Hawthorn (spp.)		Trace	5 - 10 feet	
Bigtooth Aspen		10	Seedling	7	50					
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		5	Seedling	5		Tag Alder		Full	5 - 10 feet	
Balsam Fir		25	Sapling	6		Northern White Cedar		Low	>20 feet	
Northern White Cedar		55		8	109	Balsam Fir		Full	>20 feet	
Red Maple		10	Sapling	6						
Paper Birch		5	Seedling	6						
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		1	Sapling	5		White Pine		Low	< 5 feet	
White Oak		1	Log	4		Witch Hazel		Low	5 - 10 feet	
Balsam Fir		1	Sapling	6		Paper Birch		Low	>20 feet	
Black/Red (Hybrid) Oak		20	Seedling	6	27	Musclewood/Hornbeam		Low	5 - 10 feet	
White Pine		10	Sapling	5		Balsam Fir		Low	< 5 feet	
Red Maple		7	Seedling	6						
Paper Birch		10	Sapling	5						
Bigtooth Aspen		30	Seedling	5	27					
Quaking Aspen		20	Sapling	5						
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		35	Sapling	6	37	Balsam Fir		Medium	5 - 10 feet	
Black/Red (Hybrid) Oak		5	Seedling	7		Paper Birch		Low	>20 feet	
Balsam Fir		25	Sapling	6		Tag Alder		Low	5 - 10 feet	
Red Maple		5	Sapling	6						
Paper Birch		10	Sapling	5						
Bigtooth Aspen		20	Seedling	6						





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.																																																							
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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.																																																							
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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.																																																							
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126	6120 - Lowland Cedar	Poletimber Medium	3.7	108	81-110	N/A	Lowland cedar stand that transitions into the Towline Creek floodplain.																																																							
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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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		25	Seedling	5		Witch Hazel		Low	5 - 10 feet	5 - 10 feet
White Pine		10		15		White Oak		Trace	5 - 10 feet	5 - 10 feet
Red Pine		40	Pole	4	22	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					
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.			
Sub-Canopy Species		Density	Avg. Height	Size						
Quaking Aspen		Low	>20 feet	>20 feet						
Paper Birch		Low	>20 feet	>20 feet						
Tag Alder		Full	5 - 10 feet	5 - 10 feet						
129	6220 - Alder/Willow	Unspecified	2.5			No	This stand is a depression within an aspen stand that has some scattered aspen, maple and fir.			
Sub-Canopy Species		Density	Avg. Height	Size						
Quaking Aspen		Low	>20 feet	>20 feet						
Balsam Fir		Low	5 - 10 feet	5 - 10 feet						
Paper Birch		Low	>20 feet	>20 feet						
Tag Alder		Full	5 - 10 feet	5 - 10 feet						
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		3		14		Balsam Fir		Medium	10 - 20 feet	10 - 20 feet
Red Maple		41		13	108	Black Spruce		Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen		2		14		White Pine		Medium	>20 feet	>20 feet
Black/Red (Hybrid) Oak		6		16		Red Maple		Low	Variable	Variable
White Pine		25		18		Tag Alder		Low	5 - 10 feet	5 - 10 feet
Jack Pine		2	Seedling	8						
Black Spruce		1	Seedling	6						
Northern White Cedar		10		10						
Balsam Fir		10	Sapling	6						







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.																				
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406	3102 - Grass	Unspecified	2.7			No	utility line ROW																				