



# Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73144

Entry Year 2027

Acreage: 2,731

County: Iosco

Management Area: Gladwin Lake Plain

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**Stand Examiner:** Steve Nyhoff

**Legal Description:**

T21N R6E, Sections 11 - 14

T21N R7E, Sections 7 & 18

**Identified Planning Goals:**

This compartment has a mixture of early and late successional ecosystems. The early successional ecosystems are aspen types. The late successional systems are mixed stands of red and white pines as well as swamp hardwoods. Because of the access issues, many of the stands are losing aspen and birch. In addition, because of the age of the aspen, they can no longer be managed for aspen successfully. Therefore, let them convert to later successional systems of maple and white pine. In the areas that are accessible continue to manage for existing covertypes.

**Soil and topography:**

The soils are a mixture of well-drained Proper Sand, somewhat poorly drained McIvor Sand, and very poorly drained Wabun Muck in the western half. In the eastern half the soils are a mixture of Proper-Finch-Denford complex and Denford muck. This combination of soils leads to a compartment that has access problems. It also makes the topography complex in the compartment. It is a mixture of ridges, large areas of hummocky ground, and broad wet basins.

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

The compartment is situated in the northeast corner of a block of state land. The state ownership is contiguous. The private land in the area is used for a mixture of permanent and seasonal residences, as well as hunting properties. This compartment is about 3 miles away from Saginaw Bay, which has many fulltime and seasonal homes on small lots.

Resource damage is present in the area east of Sand Lake Road and north of Alabaster Road due to illegal ORV use from adjacent private owners. In the past several illegal blinds and traps, small dumpsites and trespass violations were noted during inventory.

**Unique Natural Features:**

The compartment is a complex mix of drainages and large wetlands with islands of trees in them. There is also a lot of beaver activity on the various streams and creeks. This makes the wetland system dynamic going from open water to marsh to lowland shrubs.

**Archeological, Historical, and Cultural Features:**

None known or located during the inventory process.

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

Saddler Creek flows through the central portion of the compartment. Associated with this creek are large areas of open water, lowland brush and marshes. There are also several drainages flowing through the compartment; most of these are shallow, sand bottom creeks, so the fisheries are not a major concern.

**Wildlife Habitat Considerations:**

Both upland and lowland systems are present, making it suitable for a number of wildlife species. The majority of stands are lowland cover types. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Game species likely to be present in this compartment include black bear, bobcat, raccoon, coyote, wood duck, wild turkey, ruffed grouse and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These species include gray catbird, redbellied vireo, white-breasted nuthatch, tufted titmouse, black-capped chickadees, eastern kingbirds and northern flicker. The compartment is easily accessible to hunters via Alabaster Road.

**Mineral Resource and Development Concerns and/or Restrictions**

No active sand/gravel operations are known to exist in the area, and potential for development of sand & gravel within the

compartment may be limited due to the presence of a shallow water table and wetlands, which could inhibit surface mining. Significant exploration and mining of gypsum has occurred in the vicinity, with US Gypsum's active Alabaster Mine just over one mile southeast and the former National Gypsum Mine approximately two miles west. Within the compartment, however, gypsum beds are probably covered by too much glacial drift overburden to be economical to mine. The nearest hydrocarbon production, past or present, is about one mile west, consisting of a single deep gas well. There has been no well permit activity in the last 30 years, and no oil & gas leasing activity involving State-owned mineral rights within the last six years. Potential for oil & gas activity in the near future within the compartment is considered low. No known potential exists for commercial production of metallic minerals in this part of the state.

#### **Vehicle Access:**

The access to the compartment is limited because of the many drainages and wetlands. There is some access to the compartment off Alabaster Road. In addition, gated access to the western portion of the compartment via Sand Lake Road. The trail is very sandy and often unstable most of the year because of a high-water table. Maintenance of the road system is also problematic because of wetness. Along the northside of the compartment runs the Detroit and Mackinaw Railroad line. The rail is still active and cuts off access from the north.

#### **Survey Needs:**

A remonumentation survey was completed for the western 2/3 of the compartment in 2003. There are several private survey monuments in the eastern 1/3 of the compartment.

#### **Recreational Facilities and Opportunities:**

There are no established recreational facilities in the compartment. The area is mainly used for hunting. There is some illegal activity with 4x4s and ORVs. The trails that exist in the compartment are heavily used to access the State Land, but many do not go deep into the compartment because they are gated, have beaver activity or are wetlands. There is additional illegal ORV activity off of Alabaster Road, which is focused mainly right off of the road in stands 100 and 12.

#### **Fire Protection:**

Much of the compartment is inaccessible to fire suppression equipment because of the numerous drains and wetlands. Because of the inaccessibility, if a fire does get started it would take some time to get fire suppression equipment into the fire. The compartment has an active rail line in the northern portion that could lead to possible fire ignitions. The only county road frontage to the compartment is along Alabaster Road and Sand Lake Road. Access into the interior is limited to marginal two tracks and many do not go deep into the compartment. There are isolated stands of pine scattered throughout the compartment. However, the compartment has a high percentage of stands that are lowland brush, standing water, as well as several flowing streams. These could be a help or a hindrance to fire suppression. Michigan DNR is now responsible for wildland fire suppression.

#### **Additional Compartment Information:**

In addition, along the north edge of the compartment there is a major electric transmission line.

#### **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: 73144  
T21N R06E 11-14  
County: Iosco  
Unit: Gladwin  
Mgmt. Area: Gladwin Lake Plain  
YOE: 2027  
Acres: 2,731 GIS Calculated  
Examiner: Steve Nyhoff  
Date Exported: 5/27/2025  
Map Phase: Pre-Review



0 0.5 1 Miles

+ Remonumented Section Corners

▲ Berms

G Gate

== DNR - Secondary Forest Road

== DNR - Forest Access Route

— Federal / State / County - Paved Road

+ Active Railroads

--- Intermittent Stream

— Perennial River

— Lakes and Rivers

- - - Counties

+ Powerline

— Compartment Boundary

Clearcut

Shelterwood

Thinning

Planting (tree species)

Monitoring - Regeneration

Treatments with Site Conditions

411 - Northern Hardwood

413 - Aspen

419 - Mixed Upland Deciduous

422 - Natural Pines

430 - Upland Mixed Forest

611 - Lowland Deciduous Forest

612 - Lowland Coniferous Forest

613 - Lowland Mixed Forest

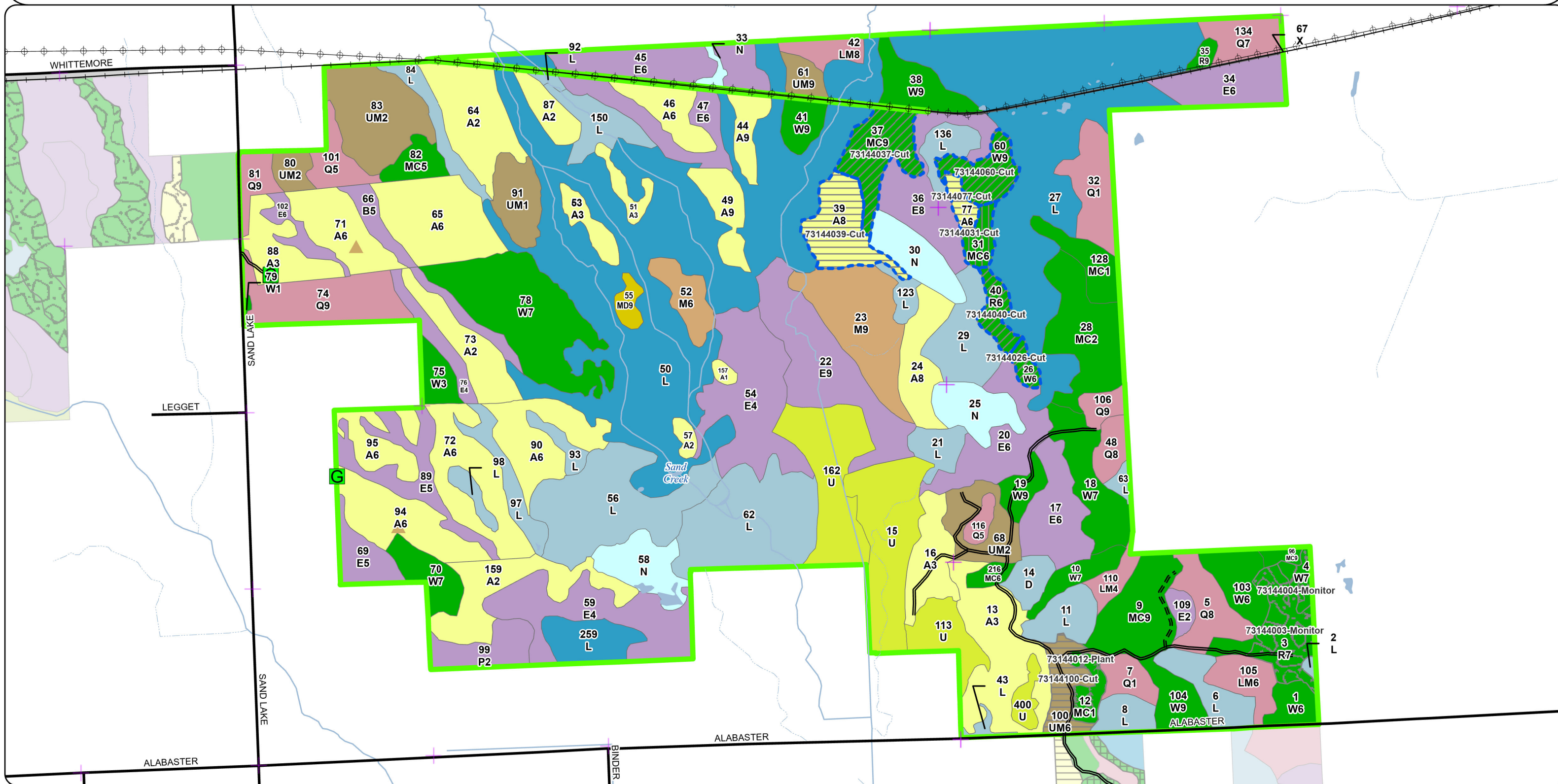
123 - Other High Intensity Urban

330 - Low Density Trees

622 - Lowland Shrub

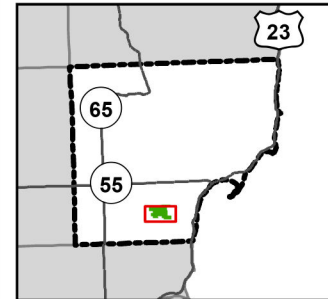
623 - Emergent Wetland

629 - Mixed non-forested Wetland





# Stand Boundary Map

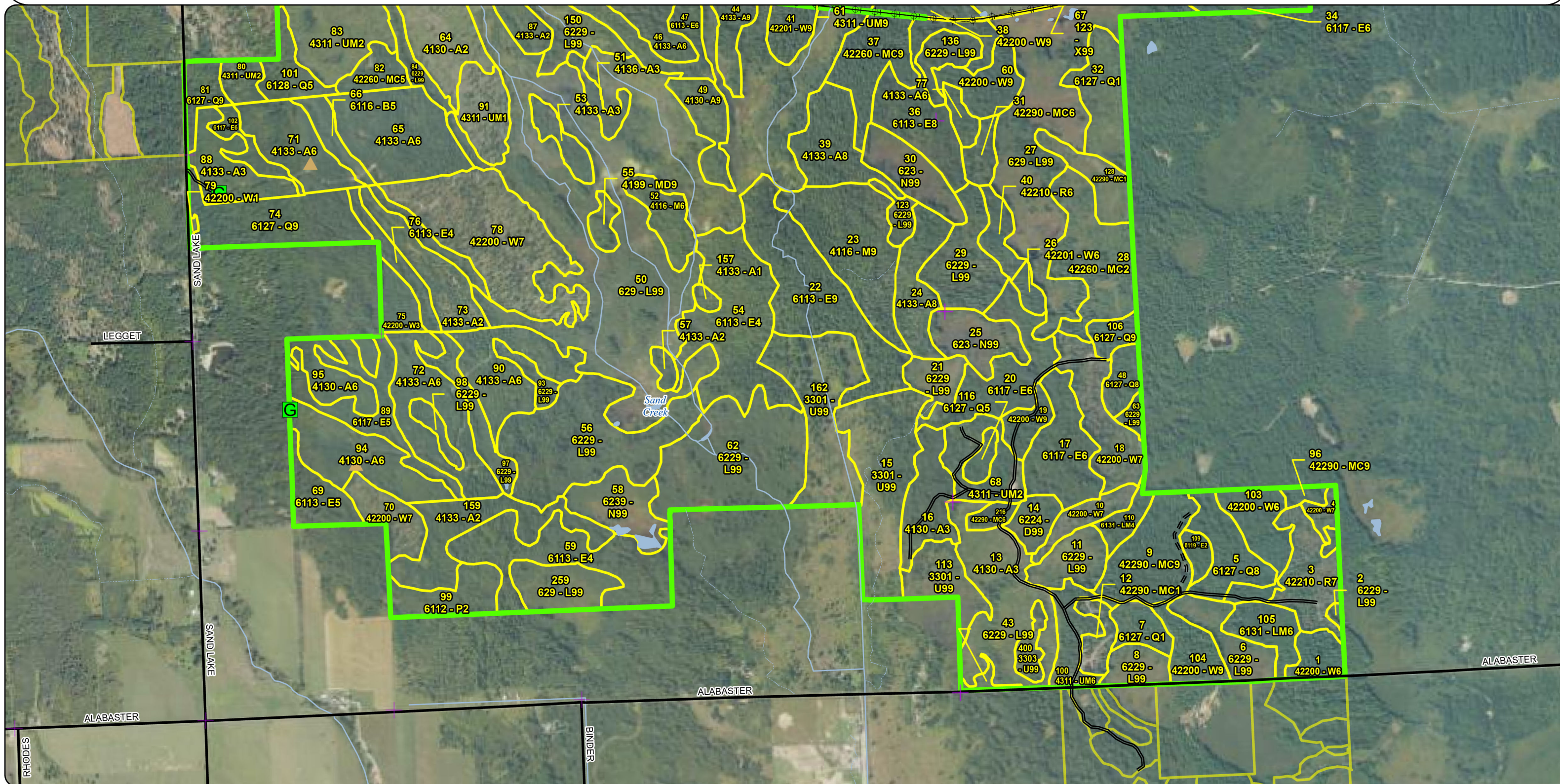


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- Remonumented Section Corners
- Berms
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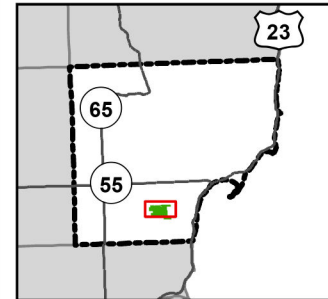
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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0 0.5 1 Miles





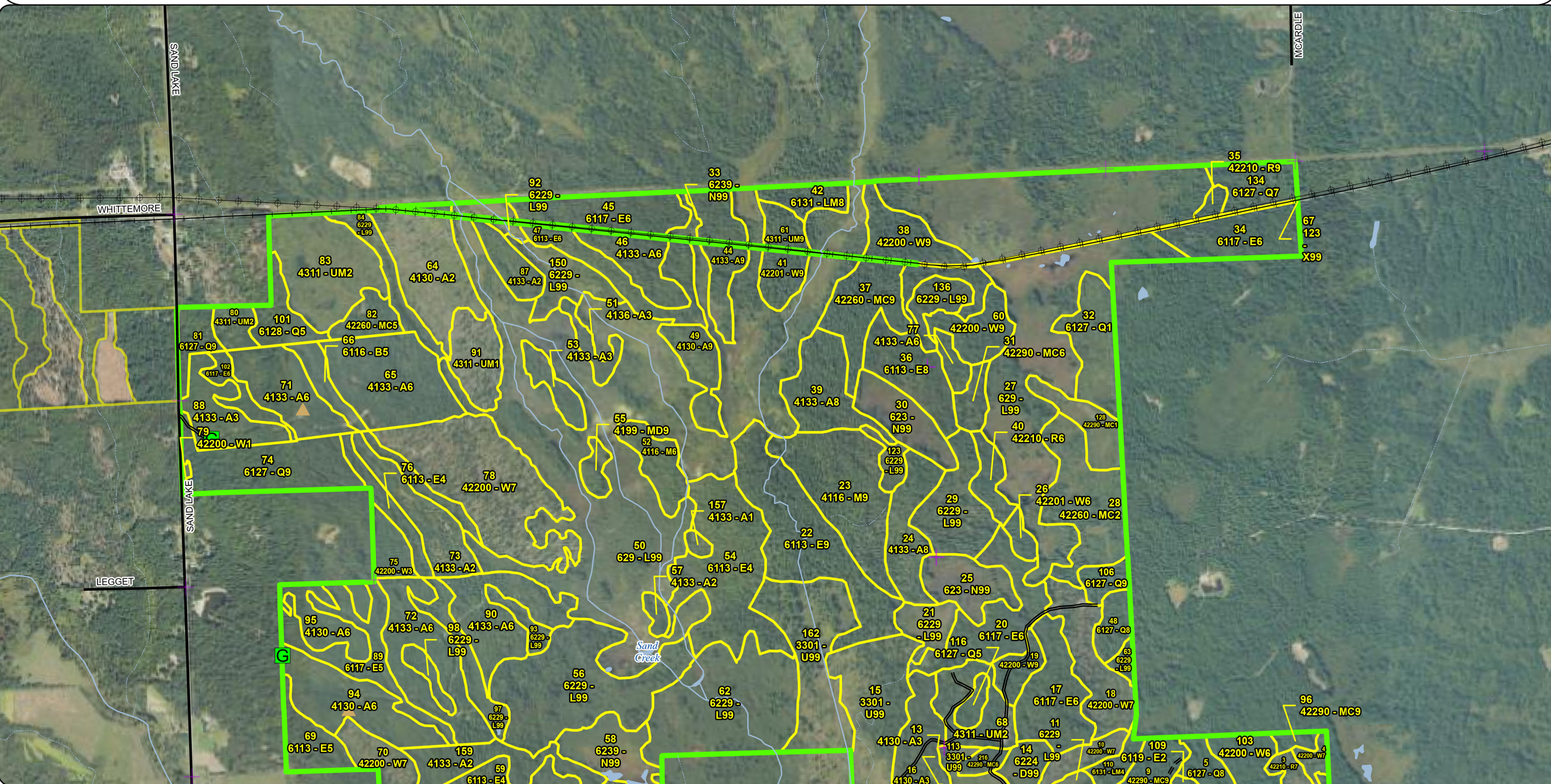
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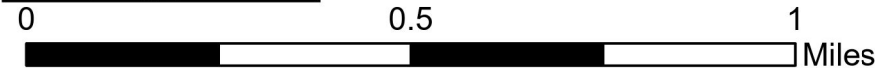
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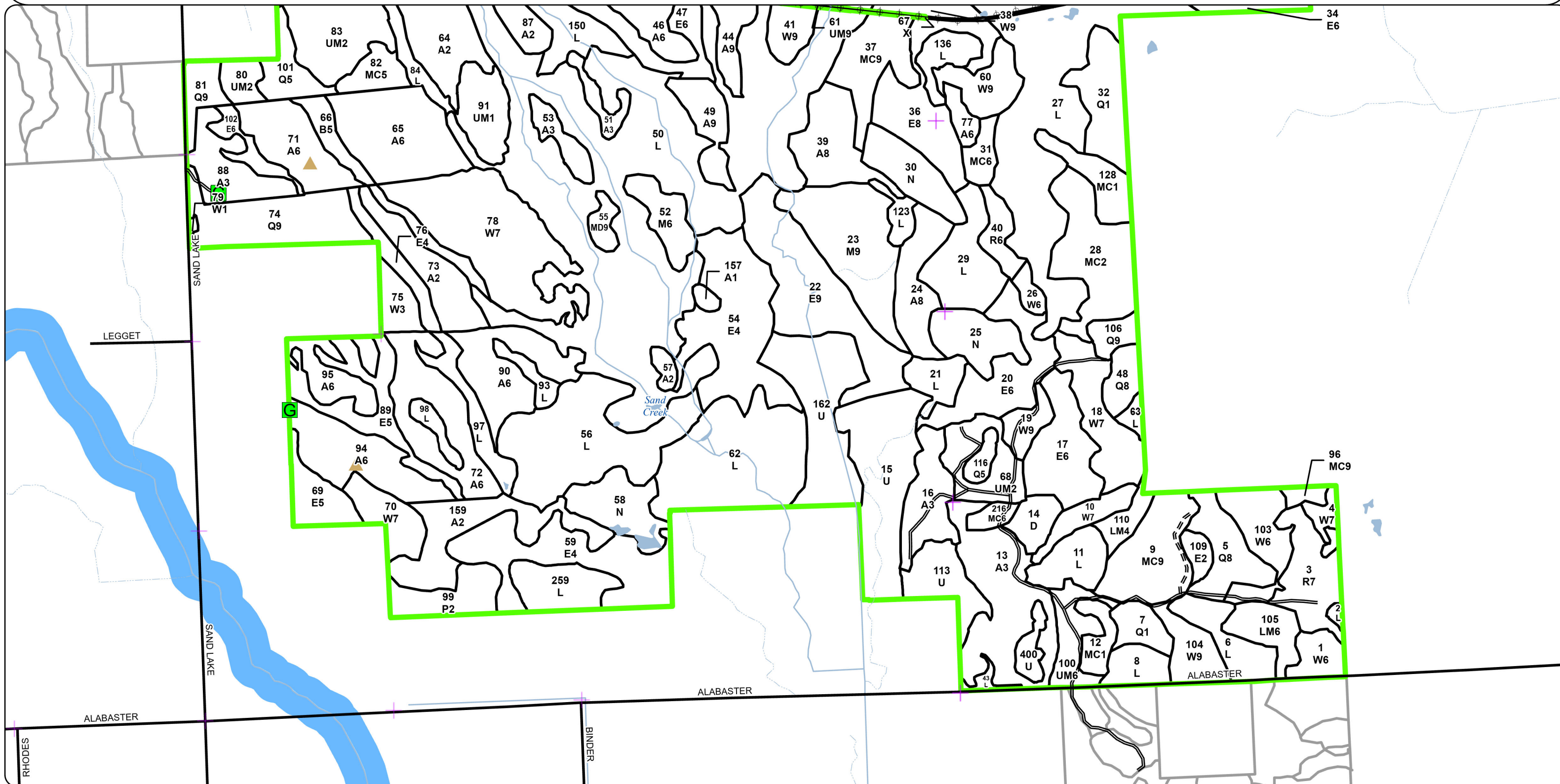




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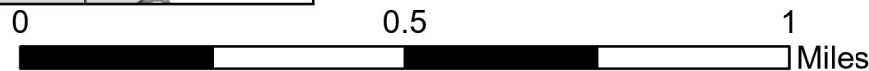


















- |   |                              |   |                                       |   |                                   |
|---|------------------------------|---|---------------------------------------|---|-----------------------------------|
|    | Remonumented Section Corners |    | Federal / State / County - Paved Road |    | Powerline                         |
|    | Berms                        |    | Active Railroads                      |    | Compartment Boundary              |
|  | Gate                         |  | Intermittent Stream                   |  | Stand Boundaries                  |
|   |                              |  | Perennial River                       |  | Cold Water Streams                |
|  | DNR - Secondary Forest Road  |  | Lakes and Rivers                      |  | High Priority Trout Stream Buffer |
|  | DNR - Forest Access Route    |  | Counties                              |   |                                   |

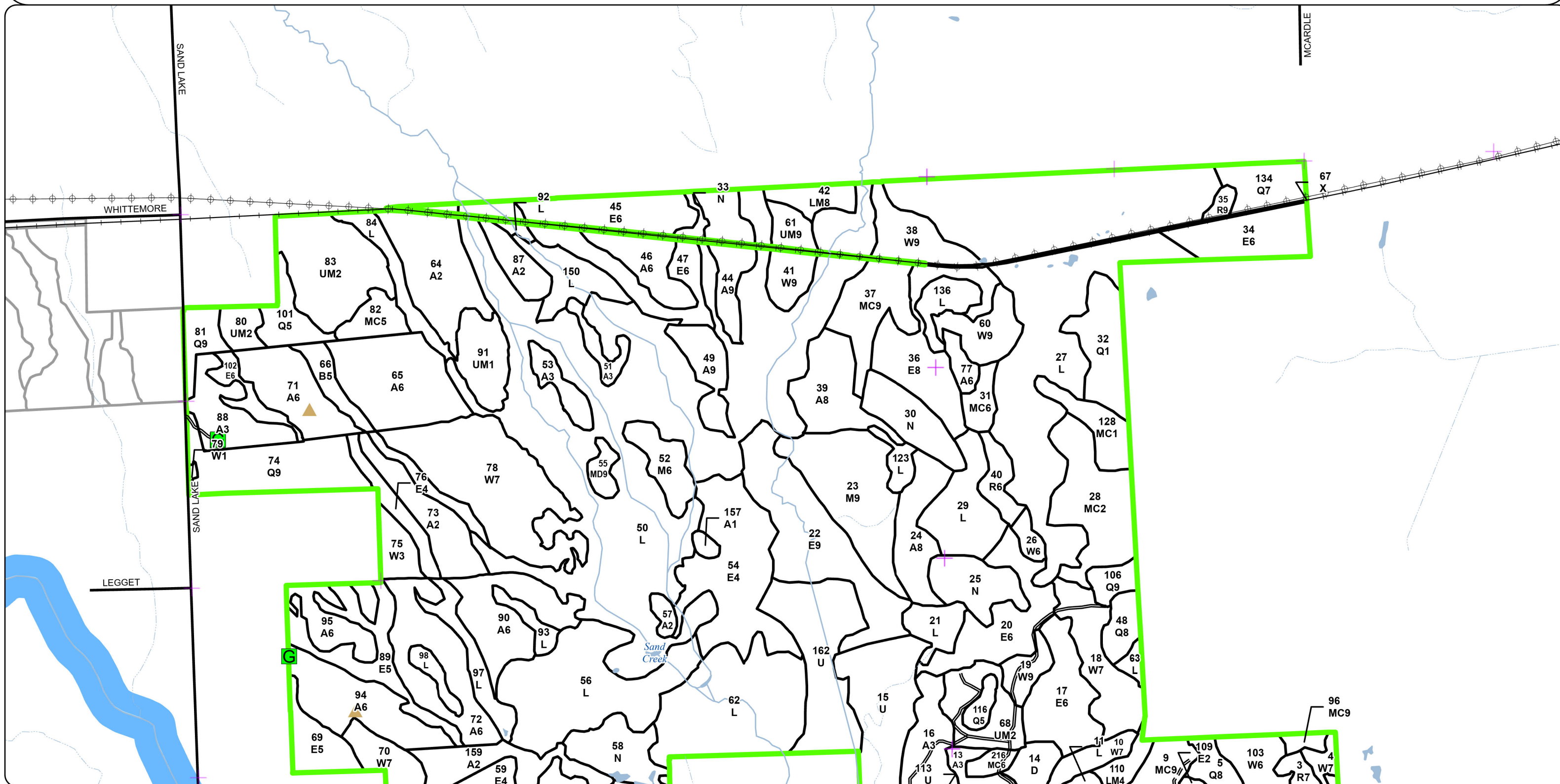




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- |   |                              |   |                                       |   |                                   |
|---|------------------------------|---|---------------------------------------|---|-----------------------------------|
|    | Remonumented Section Corners |    | Federal / State / County - Paved Road |    | Powerline                         |
|    | Berms                        |    | Active Railroads                      |    | Compartment Boundary              |
|  | Gate                         |  | Intermittent Stream                   |  | Stand Boundaries                  |
|   |                              |  | Perennial River                       |  | Cold Water Streams                |
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# Report 1 – Total Acres by Cover Type and Age Class



## 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	88	0	111	211	0	0	0	28	0	31	39	0	0	0	0	0	0	506
Low-Density Trees	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Lowland Aspen/Balsam Poplar	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Conifers	0	0	24	15	0	21	0	23	0	60	0	9	0	0	0	0	0	0	152
Lowland Deciduous	0	0	0	0	35	0	62	29	58	65	15	89	0	0	0	0	0	56	408
Lowland Mixed Forest	0	0	0	0	0	14	0	7	0	0	0	10	0	0	0	0	0	0	31
Lowland Shrub	811	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	811
Marsh	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Natural Mixed Pines	0	0	53	0	19	0	5	0	58	0	7	0	0	0	0	5	0	0	146
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	46	14	0	0	0	0	0	0	60
Paper Birch	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Red Pine	0	0	0	0	0	9	0	0	3	25	0	0	0	0	0	0	0	0	36
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	19	41	28	0	0	16	0	0	0	8	0	0	0	0	0	0	0	111
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	1	10	0	0	21	58	100	0	25	0	0	5	9	0	0	10	238
Total	1007	107	119	182	274	44	104	117	247	150	132	166	0	5	9	5	0	66	2727





## Report 2 – Treatment Summary

Gladwin Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 144  
Total Compartment Acres: 2,731

Commercial Harvest - 32  
Harvests with Site Condition - 131  
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	32	0	0	0	0	0	0	0	0	32
Natural Mixed Pines	0	0	0	0	7	26	0	0	0	33
Red Pine	0	0	0	0	0	9	0	0	0	9
Upland Mixed Forest	16	0	0	0	0	0	0	0	0	16
White Pine	0	0	0	0	0	21	0	0	0	21
Total	48	0	0	0	7	56	0	0	0	111

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	111	0	9	0	0	0	29	0	0	148
Next Step	0	0	0	0	0	0	55	0	0	55
Total	111	0	9	0	0	0	84	0	0	203





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:**

<b>100</b>	<b>73144100-Cut</b>	16.0	4311 - Pine, Aspen Mix	6	50	141- 170	Harvest	Clearcut	4133 - Aspen, Mixed Pine	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 and mixed conifers meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> Use stumps from this sale to block the illegal ORV access to stand 12. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
<b>77</b>	<b>73144077-Cut</b>	5.4	4133 - Aspen, Mixed Pine	6	95	111- 140	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Cut all trees 2 inches and greater in diameter. No retention due to stand size. Add Gladwin grouse spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Naturally regenerated stand of aspen, mixed pine and other deciduous, meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Road Needed <u>Proposed Start Date:</u> 10/01/2026											
<b>60</b>	<b>73144060-Cut</b>	16.1	42200 - Natural White Pine	9	60	171- 200	Harvest	Thinning	4220 - Natural White Pine	Cutting Record	No
<u>Prescription</u> Thin stand with a target residual of 120 BA/acre per interim natural pine management - VDT. 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> Road Needed <u>Proposed Start Date:</u> 10/01/2026											
<b>40</b>	<b>73144040-Cut</b>	9.3	42210 - Natural Red Pine	6	45	201+	Harvest	Thinning	4221 - Natural Red Pine	Cutting Record	No
<u>Prescription</u> Thin stand with a target residual of 120 BA/acre per interim natural pine management - VDT. 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> Road Needed <u>Proposed Start Date:</u> 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
39	73144039-Cut	26.2	4133 - Aspen, Mixed Pine	8	95	111-140	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Cut all trees 2 inches and greater in diameter. Follow standard island retention. Add Gladwin grouse spec. Add dry frozen spec. The harvest acres may be significantly less than the inventory acres. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Natural regeneration of aspen, mixed pine, and other deciduous, meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Road Needed <u>Proposed Start Date:</u> 10/01/2026											
37	73144037-Cut	25.8	42260 - Natural Pine, Mixed Deciduous	9	70	141-170	Harvest	Thinning	4319 - Mixed Upland Forest	Cutting Record	No
<u>Prescription</u> Thin stand with a target residual of 120 BA/acre per interim natural pine management - VDT. Follow marking guidelines. The harvest acres may be significantly less than the inventory acres. <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> Road Needed <u>Proposed Start Date:</u> 10/01/2026											
31	73144031-Cut	7.4	42290 - Natural Mixed Pine	6	95	111-140	Harvest	Shelterwood	42290 - Natural Mixed Pine	Cutting Record	No
<u>Prescription</u> Mark to retain a target of 20 BA per acre of mixed pine following interim natural pine guidance. - Irregular shelterwood. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Naturally regenerated stand of mixed pine with minor component of deciduous meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Road Needed <u>Proposed Start Date:</u> 10/01/2026											
26	73144026-Cut	4.4	42201 - Natural White Pine, Mixed Deciduous	6	65	171-200	Harvest	Thinning	4220 - Natural White Pine	Cutting Record	No
<u>Prescription</u> Thin stand with a target residual of 120 BA/acre per interim natural pine management - VDT. 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> Road Needed <u>Proposed Start Date:</u> 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
12	<b>73144012-Plant</b>	8.6	42290 - Natural Mixed Pine	1	30	Immature	Planting	Planting (tree species)	4210 - Planted White Pine	Cutting Record	No
<u>Prescription</u> Plant white pine in illegal ORV openings to restore the site back to a healthy stock of mixed conifers. Stumps and tops from the sale in stand 100 will be used to close illegal ORV entrances to this site. Planting should be at 450 trees per acre. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Mixed conifers to minimum stocking standards. <u>Regen:</u> <u>Other</u> Start date to plant white pine will be when stand 100 is closed. Then incorporate the east corner of stand 100 at the two-track with stand 12 <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
4	<b>73144004-Monitor</b>	4.5	42200 - Natural White Pine	7	121	1-50	Monitoring	Monitoring - Regeneration	42200 - Natural White Pine	Planting Record	No
<u>Prescription</u> Intermediate natural regeneration survey. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Naturally regenerated stand of white pine, red pine, 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											
3	<b>73144003-Monitor</b>	24.5	42210 - Natural Red Pine	7	87	1-50	Monitoring	Monitoring - Regeneration	42210 - Natural Red Pine	Planting Record	No
<u>Prescription</u> Intermediate natural regeneration survey. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Naturally regenerated stand of white pine, red pine, 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											

Total Treatment 0  
Acreage Proposed:

# Report 4 – Site Conditions

Gladwin Mgt. Unit  
Steve Nyhoff: Examiner

Compartment: 144  
Year of Entry: 2027



## Availability for Management

Total Acres    Acres Available    Acres With Condition    Acres Not Available

## Dominant Site Conditions

2E    5B    2A    2G    2H    5E

431	289	54	88	Aspen	54			8	77	3
120	6	0	114	Low-Density Trees				114		
18	18	0	0	Lowland Aspen/Balsam Poplar						
151	83	37	30	Lowland Conifers		37		23		7
409	110	34	265	Lowland Deciduous	34		35	207	23	
31	14	0	17	Lowland Mixed Forest			9	7		
811	811	0	0	Lowland Shrub						
63	63	0	0	Marsh						
5	0	0	5	Mixed Upland Deciduous					5	
146	81	65	0	Natural Mixed Pines	33	32				
61	0	46	14	Northern Hardwood	46				14	
9	9	0	0	Paper Birch						
37	27	9	0	Red Pine	9					
9	9	0	0	Treed Bog						
111	103	0	8	Upland Mixed Forest			8			
4	4	0	0	Urban						
238	180	29	29	White Pine	21	9			29	
2,653	1,808	276	570	Total Forested Acres	198	78	52	358	149	11
	68%	10%	21%	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.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



# Report 4 – Site Conditions

Gladwin Mgt. Unit  
Steve Nyhoff: Examiner

Compartment: 144  
Year of Entry: 2027



2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	120	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	225	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2A: Adjacent landowner denied access	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

# Report 4 – Site Conditions

Gladwin Mgt. Unit  
Steve Nyhoff: Examiner

Compartment: 144  
Year of Entry: 2027



10	Available	2E: Road needed	198	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



# Report 4 – Site Conditions

Gladwin Mgt. Unit  
Steve Nyhoff: Examiner

Compartment: 144  
Year of Entry: 2027



18	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5B: Maintain for regeneration purposes	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	9	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Gladwin Mgt. Unit  
Steve Nyhoff: Examiner

## Report 4 – Site Conditions

Compartment: 144  
Year of Entry: 2027



25	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
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Comments:

28	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
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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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	42200 - Natural White Pine		10.0	31	81-110	N/A	The stand is hummocky. It was harvested by removing the hardwoods and leaving the pines. The harvest occurred in November 2010 with the timber sale Alabaster Harvest; sale number 73-018-07-01. The stand has 3 age classes. There is a super canopy of white pines and red pines in the Xlog class. There is a heavy sub canopy of mostly white pine with some red pines that are pole/log sized. There is a strong cohort of sapling sized white pine, red pines, aspen, and red maple underneath. The soil under the stand is Mclvor Sand.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	White Pine	15		30	98	Huckleberry		High	5 - 10 feet	5 - 10 feet
	White Pine	70	Seedling	9	31	Sheep Laurel		Full	5 - 10 feet	5 - 10 feet
	Red Pine	10		18		White Pine		High	10 - 20 feet	10 - 20 feet
	Red Pine	5	Seedling	9		Red Maple		Medium	10 - 20 feet	10 - 20 feet
					Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet		
2	6229 - Mixed Lowland Shrub		Unspecified	1.3		No	This stand is a pocket of L-Type in a depression that goes from state land onto private. The soil is Wabun Muck. Mostly consisting of cat tails, tag alder, and marsh grass with white pine saplings scattered within.			
						Sub-Canopy Species		Density	Avg. Height	Size
						Cattail spp.		Full	Not Applicable	Not Applicable
						Red Maple		Low	10 - 20 feet	10 - 20 feet
						Paper Birch		Low	10 - 20 feet	10 - 20 feet
						Tag Alder		Full	5 - 10 feet	5 - 10 feet
					White Pine	Medium	10 - 20 feet	10 - 20 feet		
3	42210 - Natural Red Pine		Sawtimber Poor	24.5	87	1-50	N/A	This stand was first thinned by removing the hardwood and some pines in 1998. Then the stand was harvested in Sand Hill Harvest in summer/fall of 2020. Regeneration is mostly white pine with some red pine in dense pockets in higher areas, with scarce regeneration in lower, wetter spots. The center of the stand is experiencing blowdown, losing some of the larger red pines and white pines, lowering the BA. The sub canopy is wind swept in the same area. There is a large patch of young Jack pine in the south end of the stand. The soil under the stand is Mclvor Sand. Passed minimum stocking for natural red pine during re-inventory.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Red Pine	60		14	87	Red Maple	Low		10 - 20 feet	10 - 20 feet
	White Pine	38		12		Leatherleaf	Low		5 - 10 feet	5 - 10 feet
	Jack Pine	2	Pole	4		Huckleberry	Medium		5 - 10 feet	5 - 10 feet
						Red Pine	Medium		10 - 20 feet	10 - 20 feet
						White Pine	High		10 - 20 feet	10 - 20 feet
						Jack Pine	Low		10 - 20 feet	10 - 20 feet
					Sheep Laurel	High	5 - 10 feet	5 - 10 feet		
4	42200 - Natural White Pine		Sawtimber Poor	4.5	121	1-50	N/A	The stand was harvested in November of 2010 with the timber sale Alabaster Harvest; sale number 73-018-07-01. The stand is mostly Xlog sized white pines with quality red pine mixed in. Regeneration is poor, with just a few clusters. There is some mortality in the older, large diameter trees. Some split and some are blown over, lowering the BA. The soils are a mixture of Mclvor Sand and Croswell-Proper Sand association.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Red Pine	38		16		Sheep Laurel	Full		5 - 10 feet	5 - 10 feet
	White Pine	60		28	121	Huckleberry	Medium		5 - 10 feet	5 - 10 feet
	Red Maple	2	Pole	4		Red Pine	Medium		>20 feet	>20 feet
						White Pine	High		>20 feet	>20 feet
					Red Maple	Low	>20 feet	>20 feet		
					Paper Birch	Low	>20 feet	>20 feet		
5	6127 - Lowland Pine		Sawtimber Medium	21.0	45	51-80	N/A	This area is fairly open and wet and it is mainly lowland shrub with multiple small treed islands. Most of the islands are dominated with white pines and a couple of them are heavy to hardwoods. The white pines are squat and many of them have multiple leaders. The soil under the stand is Wabun Muck.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Quaking Aspen	5	Sapling	6		Huckleberry	Medium		5 - 10 feet	5 - 10 feet
	Red Maple	10		7		Sheep Laurel	High		5 - 10 feet	5 - 10 feet
	Paper Birch	5	Sapling	5		Tag Alder	High		5 - 10 feet	5 - 10 feet
	Red Pine	5	Seedling	7		Michigan Holly	High		5 - 10 feet	5 - 10 feet
White Pine	75		12	45	White Pine	Medium	10 - 20 feet	10 - 20 feet		





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
6	6229 - Mixed Lowland Shrub	Unspecified	17.1			No	This stand is an L-Type of mainly tag alder, Michigan holly and white pine saplings. The shrubs are mainly over marsh grass with a lot of standing water. The soil is Wabun Muck.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Full	5 - 10 feet	5 - 10 feet	
								White Pine	Low	5 - 10 feet	5 - 10 feet	
7	6127 - Lowland Pine	Sapling Poor	9.9	25	1-50	N/A	The stand is seeding in from the surrounding stands. The site is low and wet and is rather sparse. The white pines have significant weevil damage. The soil is Mclvor Sand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	5	Log	4	
								White Pine	75	Sapling	6	25
								Red Pine	20	Log	4	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Huckleberry	High	5 - 10 feet	5 - 10 feet	
								White Pine	Low	10 - 20 feet	10 - 20 feet	
								Sheep Laurel	High	5 - 10 feet	5 - 10 feet	
								Red Pine	Low	10 - 20 feet	10 - 20 feet	
								Michigan Holly	Medium	5 - 10 feet	5 - 10 feet	
								Paper Birch	Low	10 - 20 feet	10 - 20 feet	
Tag Alder	High	5 - 10 feet	5 - 10 feet									
8	6229 - Mixed Lowland Shrub	Unspecified	10.5			No	The soil under the stand is Wabun Muck. The shrubs and trees seemed to have been dwarfed because of the water. Mostly white pine saplings, marsh grass and cattails.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Common Cattail	High	Not Applicable	Not Applicable	
								White Pine	Low	10 - 20 feet	10 - 20 feet	
9	42290 - Natural Mixed Pine	Sawtimber Well	32.2	70	171-200	N/A	This stand was thinned by having the hardwood removed. The stand has regenerated well and now includes 2 size classes, with log/pole sized white pine and red pine. Along with a pole/sapling sized sub canopy of red pine, white pine, and black spruce. The terrain is hummocky and has many low wet pockets. In the lower areas is where the black spruce is growing. The east side of the stand is a ridge but the rest is a mixture of uplands and lowlands. The soil is Mclvor Sand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Spruce	4	Seedling	7	
								White Pine	45		12	70
								Red Maple	2	Sapling	6	
								Paper Birch	2	Sapling	6	
								Bigtooth Aspen	2	Seedling	8	
								Red Pine	45		12	70
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	>20 feet	>20 feet	
								Huckleberry	High	5 - 10 feet	5 - 10 feet	
								Sheep Laurel	High	5 - 10 feet	5 - 10 feet	
Red Pine	Medium	>20 feet	>20 feet									
White Pine	Medium	10 - 20 feet	10 - 20 feet									
Leatherleaf	Medium	5 - 10 feet	5 - 10 feet									
Black Spruce	Medium	>20 feet	>20 feet									
10	42200 - Natural White Pine	Sawtimber Poor	10.3	60	1-50	N/A	The stand was harvested in Sand Hill Harvest in the summer of 2020. The harvest retained 10-20 BA of white and red pine. This stand is a narrow ridge. The base of the ridge was treed for some distance. This is where the black spruce was located. There is some regeneration of spruce, but it is minimal. The aspen and birch on the ridge has regenerated in patches. White and red pine are seeding in. It will eventually fill in with pine. A portion of this stand had a wildfire that reduced the hardwood and may have impacted the regeneration of deciduous trees. The fire was mild for the scorch heights on the red pine was less than 1 foot. The soils are Croswell-Proper Complex.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	75		14	60
								Red Pine	25		14	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Full	< 5 feet	< 5 feet	
Sheep Laurel	Medium	5 - 10 feet	5 - 10 feet									
White Pine	Low	< 5 feet	< 5 feet									
Red Maple	Medium	5 - 10 feet	5 - 10 feet									
Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet									







Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
17	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	29.2	65	81-110	N/A	The stand is a mixture of uplands and lowlands at the south end. There are L-Type inclusions throughout the stand as well as upland islands. The aspen and birch are declining, and the ash has completely died off. The stand lies between two ridges and is low and wet with areas of standing water. There is a super canopy of Xlog white pine and red pine seen mostly in the center of the stand in upland islands. There are some pole sized white pines that are not captured in the data. The rest of the stand is mostly pole/log sized red maple and other hardwoods, with a thick white pine sapling understory. The stand could be managed in a limited fashion treating the operable ground and staying out of the areas that are too wet. The BA is around 105. The soil under the stand is Mclvor Sand.																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>10</td><td></td><td>13</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>19</td><td></td></tr><tr><td>Red Maple</td><td>50</td><td></td><td>9</td><td>65</td></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>White Pine</td><td>30</td><td></td><td>26</td><td>105</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	10		13		Red Pine	5		19		Red Maple	50		9	65	Paper Birch	5	Seedling	7		White Pine	30		26	105	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>Full</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Sheep Laurel</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	10 - 20 feet	White Pine	Full	10 - 20 feet	10 - 20 feet	Sheep Laurel	High	5 - 10 feet	5 - 10 feet
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18	42200 - Natural White Pine	Sawtimber Poor	27.4	64	1-50	N/A	This stand was thinned in 1999 having some of the larger overstory trees removed. This resulted in stand gaps. The gaps then regenerated with white pine. The stand was then harvested in Sand Hill Harvest in the summer of 2020. The cut retained 10-20 BA of sawlog red and white pine. Also, the pine less than 4 inches DBH were retained. This stand is now moving toward a multi age structure. Currently there is the residual sawlogs, areas of advance regeneration, and the open areas from the last harvest that are seeding in with red and white pine. The regeneration in the open areas is low at the current time but there is plenty of trees to provide seed around the cut. There is some wind throw of the residual sawlogs in the lower wetter ground. The soils are a mixture of Croswell-Proper Complex and Mclvor Sand.																																											
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19	42200 - Natural White Pine	Sawtimber Well	8.6	130	171-200	N/A	This stand sits on a ridge and was thinned in 1998. There is a super canopy of log/Xlog white pine and red pine. Regeneration has come in strong, with mostly pole/sapling sized white pine, bigtooth aspen, and red maple in the sub canopy. There are good quality pole sized bigtooth aspen along the eastern stand boundary, and along the forest road. Regeneration is strong, with a seedling layer of white pines found mostly in the center of the stand. The BA is about 175.																																											
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20	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	31.2	50	111-140	N/A	The ash has completely died off. The stand grades from E6 to A2/L with a drainage along the east side. The soil is Mclvor Sand under the dryer areas and Tawas-Lupton Muck under the wetter areas. In terms of operability, the center of the stand is where most of the upland is, containing most of the bigtooth aspen is with some white pines. I would leave the northeastern and southwestern portions of the stand out of the harvest because the ground gets lower and contains pockets of standing water, containing mostly white pines, balsam fir, and red maple. The BA is about 130.																																											
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Wintergreen	Full	5 - 10 feet	5 - 10 feet																																															
21	6229 - Mixed Lowland Shrub	Unspecified	10.7			No	This stand is predominately marsh grass and tag alder.																																											
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22

6113 - Lowland Maple

56.0

121

141-170

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	1	Seedling	8	
Red Maple	95		22	121
Bigtooth Aspen	2		14	
Green Ash	2	Seedling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	10 - 20 feet	10 - 20 feet
Musclewood/Hornbeam	Medium	10 - 20 feet	10 - 20 feet
Red Maple	Low	>20 feet	>20 feet
Green Ash	Low	10 - 20 feet	10 - 20 feet

This stand is variable there are areas of dry ridges but also larger wet depressions. The trees are very large in diameter and many have cavities. They have large fluted butts and a shallow root system. There is a lot of blow down in the stand. It is wetter in the north end and dries out toward the south. Saddler Creek flows along part of the west side of the stand and it has a defined bed and bank. It is only about 6-12" below the grade of the stand. The soil under the stand is Mclvor-Wakeley. In addition to the high water table, there are springs in the stand in the draws. Most of the ash are dead except some green ash still hanging on. Currently the creek has flooded most of the stand from the snow melt.

23

4116 - Mixed N. Hardwood - Aspen

46.3

95

81-110

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	60		14	95
Paper Birch	2	Seedling	6	
Bigtooth Aspen	15		10	
Green Ash	5	Seedling	8	
White Pine	3	Seedling	6	
Quaking Aspen	15		10	

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	Medium	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
White Pine	Low	10 - 20 feet	10 - 20 feet
Michigan Holly	Low	5 - 10 feet	5 - 10 feet
Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet
Musclewood/Hornbeam	Medium	10 - 20 feet	10 - 20 feet
Wintergreen	Full	5 - 10 feet	5 - 10 feet

The stand is a mix of low ridges and wet swales and it needs to be harvested. The aspen and ash is declining. The ash has heavy EAB. Some of the damage is new but there is a fair amount of older damage. There is a lot of down trees mainly aspen, paper birch and ash. The crown closure is around 80%. The soil under the stand is Proper Sand.

24

4133 - Aspen, Mixed Pine

Sawtimber Medium

22.7

105

111-140

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	15		12	
Red Maple	5		8	
Paper Birch	5	Seedling	8	
Bigtooth Aspen	60		11	105
White Pine	15		12	

Sub-Canopy Species	Density	Avg. Height	Size
Huckleberry	High	5 - 10 feet	5 - 10 feet
Sheep Laurel	Full	5 - 10 feet	5 - 10 feet
White Pine	Medium	10 - 20 feet	10 - 20 feet
Red Pine	Low	10 - 20 feet	10 - 20 feet

The access to the stand is difficult being blocked by L and N types. The stand itself is mainly on a ridge. It is made up of poor quality aspen that has a lot of rot. The aspen and birch are declining. The stand is slowly filling in with red pines and white pines. The BA varies but sits around 135. The center of the stand is the least dense and contains mostly aspen. The north end of the stand is the most dense and contains mostly conifers.

25

623 - Emergent Wetland

Unspecified

19.0

No

Sub-Canopy Species	Density	Avg. Height	Size
Common Cattail	Full	Not Applicable	Not Applicable
Balsam Fir	High	5 - 10 feet	5 - 10 feet
White Pine	High	5 - 10 feet	5 - 10 feet

This area is an old beaver flooding. It is still holding water.

26

42201 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

27

42202 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

28

42203 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

29

42204 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

30

42205 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

31

42206 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

32

42207 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

33

42208 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

34

42209 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

35

42210 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

36

42211 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

37

42212 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

38

42213 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

39

42214 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

40

42215 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

41

42216 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

42

42217 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

43

42218 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

44

42219 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

45

42220 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

46

42221 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet
Wintergreen	High	5 - 10 feet	5 - 10 feet
White Pine	Medium	>20 feet	>20 feet

This stand is on a Croswell Sand ridge. It has some larger Xlog sized white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining.

47

42222 - Natural White Pine, Mixed Deciduous

4.4

65

171-200

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15		10	
Bigtooth Aspen	15		11	
White Pine	70		9	65

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	5 - 10 feet	5 - 10 feet
Huckleberry	High	5 - 10 feet	5 - 10 feet







Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
32	6127 - Lowland Pine	Unspecified	24.1	14	Immature	N/A	The ground is hummocky with ridges of pines and lowland shrub draws. It was harvested in the fall of 2010. The timber sale was Alabaster Harvest; sale 73-018-07-01. The red maple retention pockets are small and scattered around the stand. Over the last 10 years pines have been seeding into the stand. The soil is Mclvor Sand.																																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>40</td><td>Pole</td><td>2</td><td>14</td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Pine</td><td>40</td><td>Log</td><td>2</td><td>14</td></tr><tr><td>Red Maple</td><td>15</td><td>Log</td><td>2</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	40	Pole	2	14	Quaking Aspen	5	Log	2		Red Pine	40	Log	2	14	Red Maple	15	Log	2		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Trace	5 - 10 feet	5 - 10 feet																														
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33	6239 - Mixed Emergent Wetland		2.7			No	This stand is a drain through stand 45 that used to be ash dominated. Now that the ash has died, the canopy cover has dropped below 25%. The north end of the stand has a sparse canopy of red maple, and the south end of the stand is mostly open wetland.																																																												
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34	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	25.4	50	111-140	N/A	The stand lies along the Detroit Mackinac rail line. It is variable ranging from E6 to R6. The terrain is hummocky with many areas that are holding water. The soil is Mclvor Sand. The ash has died off completely. The west and north boundaries of the stand is where you can find the conifers where it's dryer, they range from pole to Xlog. The rest of the stand is dense pole/sapling sized maple and other hardwoods where it's wetter.																																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>20</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>15</td><td></td><td>18</td><td></td></tr><tr><td>Red Maple</td><td>40</td><td>Sapling</td><td>6</td><td>50</td></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>White Pine</td><td>15</td><td></td><td>16</td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	20	Seedling	8		Red Pine	15		18		Red Maple	40	Sapling	6	50	Paper Birch	5	Seedling	7		White Pine	15		16		Jack Pine	5	Seedling	7		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sheep Laurel</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Willow spp.</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Pine</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Maple</td><td>High</td><td>&gt;20 feet</td><td>&gt;20 feet</td></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Sheep Laurel	Medium	5 - 10 feet	5 - 10 feet	Willow spp.	Low	5 - 10 feet	5 - 10 feet	Red Pine	Low	10 - 20 feet	10 - 20 feet	Red Maple	High	>20 feet	>20 feet	Tag Alder	Low	5 - 10 feet	5 - 10 feet	White Pine	Medium	10 - 20 feet	10 - 20 feet
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White Pine	Medium	10 - 20 feet	10 - 20 feet																																																																
35	42210 - Natural Red Pine	Sawtimber Well	2.9	77	201+	N/A	This stand is a pocket of good quality red pine and white pine that needs to be harvested. However, it has very limited access because of the rail road and the L type standa that boundary at along with no access through the private land. The soil is Mclvor Sand.																																																												
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36	6113 - Lowland Maple		34.4	105	81-110	N/A	The soil under the stand is Mclvor Sand. The terrain is hummocky. There is a drainage that goes through the stand which comes off the south end of stand 136. The ash had died off, and the aspen and birch are declining. The stand has many pockets of standing water and is too wet to manage. There is a strong layer of sapling and seedling white pine, indicating that white pine will be a larger component in the stand in the future. The BA is about 100, and the Canopy cover is closer to 75%.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
37	42260 - Natural Pine, Mixed Deciduous		25.8	70	141-170	N/A	This stand is variable with pockets of thick white pine and some areas having more hardwoods. The ground is slightly hummocky The soil under the stand is Proper Sand. The aspen and jack pine are declining. The BA is about 160. The stand sits on a ridge and is mostly harvestable other than the scattered pockets of lowland.																																																								
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38	42200 - Natural White Pine	Sawtimber Well	19.2	78	111-140	N/A	The soil under the stand is Proper Sand. The terrain is hummocky. White pine is growing thickly in the open areas. Because of gap dynamics there are multiple age classes in the stand. The White pine DBH goes from 1-24", Red pine DBH goes from 1-22", and oak DBH goes from 6-10".																																																								
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39	4133 - Aspen, Mixed Pine		26.2	95	111-140	N/A	The aspen and birch are declining. Access to the stand is difficult. The soil under the stand is Proper Sand. The ground is hummocky. There is beaver activity in this stand. There is a full white pine sapling and seedling understory, which may indicate that the stand may convert to natural white pine with time.																																																								
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40	42210 - Natural Red Pine		9.3	45	201+	N/A	This stand is on a Croswell Sand ridge. It has some larger Xlog sized red pines and a few Xlog red pines that are much older than the 45 year old understory (dominant size class). The aspen is declining. The BA is around 210. There are burned stumps indicating at least a small intensity fire passed through this stand at one point. There are some felled trees from beaver activity.																																																								
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41	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	10.2	90	111-140	N/A	The white pine in this stand looks like it has a history of weevil activity. Many of the trees have multiple leaders as well as crooks. The white pine goes from 1" to 28" DBH. Much of it has a DBH around 10". The soil under the stand is Croswell Sand.																																																								
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42	6131 - Hemlock, White Pine, Maple, Birch			9.6	105	1-50	N/A	Crown closure is closer to 50%. The stand is too wet to manage. There are islands of trees surrounded by tag alder thickets and wetland. The aspen is declining and is now a lesser component. The soil under this stand is AuGres-Denford complex and is quite wet and hummocky.																																																	
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43	6229 - Mixed Lowland Shrub	Unspecified		2.6			No	This stand is an L-Type pocket that was a part of stand 13. The stand runs along Alabaster road. All of the ash trees have died off, leaving just a few aspens. Overall the crown closure is just a little below 15%.																																																	
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44	4133 - Aspen, Mixed Pine			11.1	78	111-140	N/A	The stand is over mature. The access is a problem because of the rail road tracks to the north and the wet drainages on the other three sides, but the stand itself is operable. Most of the aspen is in poor shape and has significant rot. The stand also has lots of downed woody material. There is a strong cohort of white pine sapling and seedlings, suggesting the stand is converting to natural pine. The soil under the stand is Proper Sand.																																																	
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45	6117 - Lowland Deciduous, Mixed Coniferous			35.3	78	81-110	N/A	The area is hummocky with many depressions, most of which hold water. The stand is too wet to manage. The ash have died off. The stand is too wet to manage and has access issues. The stand drains into the center where the ash used to be, now converted into wetland.																																																	
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46	4133 - Aspen, Mixed Pine			17.2	78	81-110	N/A	This stand is on the soil type of Proper Sand. The crown closure is closer to 75%. There is a lot of down woody material, mainly aspen and birch. White pine is seeding in and becoming a larger component of the stand.																																																	
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47	6113 - Lowland Maple			22.9	78	81-110	N/A	This stand is on the transitional edge of Proper Sand and Denford Muck. The area is hummocky with many depressions, most of which hold water. The stand is a mix of red maple, aspen, other swamp hardwoods, and some pines. Overall the stand is too wet to manage. The ash has died off.																																																	
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48	6127 - Lowland Pine	Poletimber Well	9.0	105	81-110	N/A	The stand is along a base of a ridge, and it is low and wet. The ground is hummocky, and it has a high-water table. The area is like stand 17, but it has fewer commercial size trees. Some of the overstory has come down and the crown closure is now around 60%. The soil is Mclvor Sand.																																															
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49	4130 - Aspen	Sawtimber Well	15.6	105	81-110	N/A	This stand is on a ridge and it is over mature. There is no good way to access the stand. The edges have significant beaver damage but the damage looks fairly old. Also along the edges white pine is coming in thick. The red maple regeneration and juneberry understory is heaviest at the south end. The soil under the stand is Proper Sand..																																															
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50	629 - Mixed non-forested Wetland	Unspecified	312.7			No	This stand is a large, interconnected wetlands. It is a mix of beaver floodings, tag alder, marshes, and open water. The area has several small pockets of Phragmites. In addition, there are islands of trees. The ash trees have died off leaving mainly maple. There are also numerous drains and creeks running through the stand.																																															
51	4136 - Aspen, Mixed Conifer	Sapling Well	6.9	24	Immature	N/A	The stand was habitat cut in the winter of 2000-2001. It has regenerated fairly well. The northern 1/4 is a little sparse. However, it is filling in with white pine and fir. The central 1/2 has good aspen regeneration. The eastern lobe has a medium stocking of aspen that is also filling in with white pine and fir.																																															
52	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	14.3	105	81-110	N/A	The data from the 2015 inventory was retained. This stand is an island in an extensive wetland with no way to access it except on foot. The stand is mainly upland red maple. The soil under the stand is mainly Proper Sand. The birch and aspen is mostly gone being on the ground. The west side has a significant understory of white pine.																																															
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53	4133 - Aspen, Mixed Pine	Sapling Well	9.0	24	Immature	N/A	The stand was habitat cut in the winter of 2000-2001 and has regenerated well. The soil under the stand is Proper Sand. The open areas do have some white pine and fir seeding in. The conifer along the edges were retained.																																															
54	6113 - Lowland Maple		55.4	105	51-80	N/A	The stand is low and wet and has an overstory of mainly pole size ash. The ground cover ranges from marsh grass to cattails to tag alder. Within the stand there are small islands of upland that are less than 1 acre in size. The soil under the stand is an association of Proper Sand and Leafriver Muck. EAB is heavy in the stand and much of the activity looks older so this may be a place to look for ash survival.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
55	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.4	105	81-110	N/A	The data from the 2015 inventory was retained. This stand is an island in an extensive wetland. There is no way to access the stand except on foot. The stand is mainly upland red maple. The soil is mainly Proper Sand. The aspen and birch are declining and there is a lot of down woody material. The aspen density is highest in the northern 2/3 of the stand. If it is habitat cut it is not expected to regenerate to aspen.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5		11		White Pine	High		5 - 10 feet	5 - 10 feet
Red Maple	45		10	105	Red Maple	Medium		10 - 20 feet	10 - 20 feet
Paper Birch	25		10		Tag Alder	Medium		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	25		12		Serviceberry (Juneberry)	Low		5 - 10 feet	5 - 10 feet
					Musclewood/Hornbeam	Low		5 - 10 feet	5 - 10 feet
56	6229 - Mixed Lowland Shrub	Sawtimber Medium	64.7			No	This stand has rolling terrain and is a mix of dry knolls and wet depressions. The soil under the stand is an association made up of Proper Sand, Finch Mucky sand and Denford Muck making most of it too wet to manage. The ash is gone. The aspen in the stand is over mature and has significant rot. The crown closure is 60-70%.		
					Sub-Canopy Species	Density		Avg. Height	Size
					White Pine	Low		>20 feet	>20 feet
					Red Maple	Low		>20 feet	>20 feet
					Tag Alder	Full		5 - 10 feet	5 - 10 feet
					Serviceberry (Juneberry)	Low		5 - 10 feet	5 - 10 feet
					Musclewood/Hornbeam	Low		10 - 20 feet	10 - 20 feet
57	4133 - Aspen, Mixed Pine	Sapling Medium	3.5	24	Immature	N/A	The stand was habitat cut in the winter of 2000-2001 and has regenerated fairly well. The soil under the stand is Proper Sand. The north end of this stand did not regenerate too well being more of a W1A1 but the southern end regenerated very well and is a good A3.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	1	Pole	3		Serviceberry (Juneberry)	Medium		5 - 10 feet	5 - 10 feet
White Pine	30	Pole	3						
Red Maple	14	Pole	3						
Bigtooth Aspen	55	Pole	3	24					
58	6239 - Mixed Emergent Wetland	Poletimber Poor	21.5			No	The stand has standing water in the south half that grades to lowland shrubs going north. The soil under the stand is an association of Mclvor Sand and Wakeley Muck. The ash is gone. The trees are heaviest in the eastern portion of the stand. The western portion is heavier to lowland shrubs.		
					Sub-Canopy Species	Density		Avg. Height	Size
					Tag Alder	Full		5 - 10 feet	5 - 10 feet
					Michigan Holly	High		5 - 10 feet	5 - 10 feet
59	6113 - Lowland Maple	Poletimber Medium	46.7	85	1-50	N/A	The stand is wet with several small upland ridges and islands. The ash has died out and red maple is the primary species. The overmature aspen and birch are dying out. Birch and conifers are seeding in. However, it is not uniform. The crown closure is now closer to 25%. The soil under the stand is mainly Denford Muck, Leafriver Muck with a few islands of Proper, and Croswell Sands.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	100		12	85	Red Maple	Low		5 - 10 feet	5 - 10 feet
					Paper Birch	Low		10 - 20 feet	10 - 20 feet
					Deciduous Shrubs	High		5 - 10 feet	5 - 10 feet
					Tag Alder	High		5 - 10 feet	5 - 10 feet
					Michigan Holly	High		5 - 10 feet	5 - 10 feet





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
60	42200 - Natural White Pine		16.2	60	171-200	N/A	The stand is at the end of a ridge that goes along stand 27. The soil under the ridge is Proper Sand. Most of the red pines and white pines are log/pole sized but there is a strong presence of Xlog in this stand compared to the rest of the stands on the ridge. There are some white pines up to 40 DBH. There are burned stumps indicating at least a small intensity fire passed through this stand at one point.																																																
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Red Pine	Low	10 - 20 feet	10 - 20 feet																																																				
61	4311 - Pine, Aspen Mix		7.7	95	141-170	N/A	The stand gets wetter in the north as it approaches stand 42. This stand can be managed if access is found. Larger log sized pines to the south along the rail, smaller dense pole sized pines to the north along stand 42. There's multiple drains from this stand into stand 50. BA is closer to 170. The soil under the stand is Croswell Sand.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>50</td><td></td><td>12</td><td>95</td></tr><tr><td>Red Maple</td><td>20</td><td></td><td>11</td><td></td></tr><tr><td>Paper Birch</td><td>10</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>20</td><td></td><td>11</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	50		12	95	Red Maple	20		11		Paper Birch	10	Seedling	8		Bigtooth Aspen	20		11		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Wintergreen</td><td>Full</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Sheep Laurel</td><td>Full</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr><tr><td>Serviceberry (Juneberry)</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	High	10 - 20 feet	10 - 20 feet	Wintergreen	Full	5 - 10 feet	5 - 10 feet	Sheep Laurel	Full	< 5 feet	< 5 feet	Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet				
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62	6229 - Mixed Lowland Shrub	Unspecified	63.1			No	The stand is low and wet with many areas of standing water. There are some islands of trees but most of the stand is lowland shrubs. The soil under the stand is an association of Mclvor Sand and Wakeley Muck. The ash is dead. The trees are heaviest in the eastern portion of the stand. The western portion is heavier to lowland shrubs. There are also some inclusions of emergent marsh.																																																
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63	6229 - Mixed Lowland Shrub	Unspecified	3.0			No	This stand sits in a depression at the base of a ridge. It looks to have drained down since it was last inventoried. The ash is now gone and down. There are some areas of lowland shrub mixed with some ash regeneration, but most of the stand is non-forested.																																																
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64	4130 - Aspen	Sapling Poor	38.5	5	Immature	N/A	The soil under the stand is mainly Proper-Finch-Denford complex. It was cut in July of 2021 in Sand Lake Gate sale 73-009-17. The terrain is hummocky. The regeneration is patchy, and the crown closure goes from 10 to 80% with an average of 55%. The areas with the lowest crown closure are along the drainage. There is some seeding in with pine.																																																
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65	4133 - Aspen, Mixed Pine	Sapling Well	43.2	33	51-80	N/A	The stand was clearcut in 1992. The terrain is hummocky. The white pine is now starting to get into the overstory. There appears to be scattered trees with hypoxylon canker. There appears to have some pole size white pine that were left when the stand was harvested. However, now they are sawlogs. The soil under the stand is mainly Proper-Finch-Denford Complex.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
66	6116 - Lowland Birch	Sapling Well	8.8	33	1-50	N/A	The stand was clearcut in 1992. It is dominated by a drainage and its associated low wet ground. The terrain is hummocky. The ash that has died off in the central portion along the drain is now more of a lowland shrub type.																																																																
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67	123 - Other High Intensity Urban	Unspecified	3.6			No	This stand is a section of the Detroit Mackinac rail line. The DNR technically owns the land east of the township line, which is why this stand exists.																																																																
68	4311 - Pine, Aspen Mix	Sapling Medium	20.2	27	1-50	N/A																																																																	
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Canopy Species	% Cover	Size Class	DBH	Age																																																																			
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69	6113 - Lowland Maple	Poletimber Medium	14.5	90	51-80	N/A																																																																	
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70	42200 - Natural White Pine	Sawtimber Poor	15.4	90	1-50	N/A																																																																	
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MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
71	4133 - Aspen, Mixed Pine	Sapling Well	26.4	33	81-110	N/A	The stand was clearcut in 1992. Much of the overstory white pine are the residual trees left when it was harvested. They have now grown into logs. The terrain is hummocky.
<div>Canopy Species% CoverSize ClassDBH Age</div>		<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>					
Quaking Aspen13Sapling5		White PineHigh10 - 20 feet10 - 20 feet					
White Pine258							
Red Maple3Pole4							
Paper Birch4Pole4							
Bigtooth Aspen55Sapling633							
72	4133 - Aspen, Mixed Pine	Sapling Well	36.5	33	81-110	N/A	The stand was clearcut in 1992. It is mainly uplands with some small low pockets. The terrain is hummocky. The soil is Proper-Finch-Denford complex.
<div>Canopy Species% CoverSize ClassDBH Age</div>		<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>					
Quaking Aspen10Sapling6		Tag AlderLow5 - 10 feet5 - 10 feet					
Red Pine4Sapling6		White PineMedium10 - 20 feet10 - 20 feet					
White Pine30Sapling7		Serviceberry (Juneberry)Low5 - 10 feet5 - 10 feet					
Jack Pine1Sapling6		Common BlackberryMedium5 - 10 feet5 - 10 feet					
Red Maple5Sapling5							
Paper Birch10Pole4							
Bigtooth Aspen40Sapling733							
73	4133 - Aspen, Mixed Pine	Sapling Medium	22.7	25	1-50	N/A	The stand was clearcut in 2000. The white pine less than 4 inches DBH were retained. The crown closure is near 100% at the north end but decreases to around 30% at the south end. When averaging the crown closure is around 65%. The aspen regeneration is patchy, but it is more common along the east side. White, red, and jack pines are seeding into the open areas.
<div>Canopy Species% CoverSize ClassDBH Age</div>		<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>					
Bigtooth Aspen40Pole425		White PineLow5 - 10 feet5 - 10 feet					
White Pine30Sapling5		Sheep LaurelMedium5 - 10 feet5 - 10 feet					
Jack Pine5Pole4		Common BlackberryMedium5 - 10 feet5 - 10 feet					
Red Pine5Pole4		Serviceberry (Juneberry)Low5 - 10 feet5 - 10 feet					
Quaking Aspen20Pole3							
74	6127 - Lowland Pine	Sawtimber Well	37.3	88	81-110	N/A	The stand was selectively harvested in 2003. The harvest removed 10-20 BA of hardwoods and some pines. It has regenerated well to a mix of hardwoods, aspen and pines. Maple is starting to become more common in much of the stand. The soils are quite wet, and the terrain is hummocky.
<div>Canopy Species% CoverSize ClassDBH Age</div>		<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>					
White Pine601388		Quaking AspenMedium>20 feet>20 feet					
Red Pine2015		Red PineLowVariableVariable					
Red Maple107		White PineHighVariableVariable					
Paper Birch10Sapling7		Red MapleMedium>20 feet>20 feet					
		Paper BirchMedium>20 feet>20 feet					
		Deciduous ShrubsHigh5 - 10 feet5 - 10 feet					
75	42200 - Natural White Pine	Sapling Well	9.8	26	1-50	N/A	The stand was clearcut in 2003. When it was harvested some of the white pines were retained. The crown closure is closer to 75%. The soil under the stand is Proper-Finch-Denford complex, as such there are some small pockets of lower ground in the stand. The terrain is hummocky.
<div>Canopy Species% CoverSize ClassDBH Age</div>		<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>					
White Pine70Sapling526		Serviceberry (Juneberry)Low5 - 10 feet5 - 10 feet					
Red Pine5Pole4							
Red Maple10Log3							
Bigtooth Aspen15Pole322							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
76	6113 - Lowland Maple	Poletimber Medium	18.3	88	1-50	N/A	The stand was a drainage of ash. The ash has died out and the current crown closure is less than 20%. There is a lot of down woody material in the stand. Birch and maple are scattered. However, most are located along the edges of the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	60	Pole	10	88	Deciduous Shrubs	Full		5 - 10 feet	5 - 10 feet
Paper Birch	5		3						
White Pine	35		10						
77	4133 - Aspen, Mixed Pine		5.4	95	111-140	N/A	The stand runs on a ridge along stand 27. The soil under the stand is Proper Sand. The trees in this stand are somewhat scattered and in pockets. The terrain is hummocky. The aspen is in poor shape having evidence of significant rot. The crown closure is closer to 75%. The BA is higher in the north of the stand, and the BA is lower at the south end of the stand. The aspen, birch, and jack pine are declining. Some of the trees have been felled by beavers. Regeneration is low. There are burned stumps indicating at least a small intensity fire passed through this stand at one point.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	15		9		Huckleberry	Medium		5 - 10 feet	5 - 10 feet
White Pine	15		11		White Pine	Low		10 - 20 feet	10 - 20 feet
Red Maple	15		9		Red Pine	Low		10 - 20 feet	10 - 20 feet
Paper Birch	5	Seedling	6		Michigan Holly	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	50		11	95	Sheep Laurel	High	5 - 10 feet	5 - 10 feet	
78	42200 - Natural White Pine	Sawtimber Poor	66.2	79	1-50	N/A	The terrain is hummocky. The stand was harvested in Sand Lake Gate sale 73-009-17. The residual was measured at 27 sq. ft. The deciduous regeneration is patchy. However, the pines are also seeding in.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	70		14	79	Serviceberry (Juneberry)	Low		10 - 20 feet	10 - 20 feet
Red Maple	5		8		Red Maple	Medium		5 - 10 feet	5 - 10 feet
Paper Birch	5		9		Bigtooth Aspen	Medium		10 - 20 feet	10 - 20 feet
Red Pine	20		14		Deciduous Shrubs	Low		5 - 10 feet	5 - 10 feet
					White Pine	Medium		Variable	Variable
					Sheep Laurel	Full		5 - 10 feet	5 - 10 feet
79	42200 - Natural White Pine	Sapling Poor	0.9	19	Immature	N/A	The stand has red, white, and jack pine seeding in. The white pine has some weevil problems. The diameter, age, and height of the trees are variable.		
Canopy Species	% Cover	Size Class	DBH	Age					
White Pine	60	Log	3	19					
Jack Pine	10	Log	3						
Red Pine	30	Log	3						
80	4311 - Pine, Aspen Mix	Sapling Medium	7.5	22	1-50	N/A	The stand was clearcut in 2003. The overall crown closure is now around 70%. Pines have been seeding in and it is slowly becoming fully stocked. The terrain is hummocky. There are some weevil problems, but it is minor at the current time.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	50	Pole	3	22	White Pine	Medium		5 - 10 feet	5 - 10 feet
White Pine	40	Pole	4						
Red Pine	10	Pole	4						
81	6127 - Lowland Pine	Sawtimber Well	10.0	88	81-110	N/A	The stand was selectively harvested in 2003. The harvest removed the aspen and birch which was about 40 BA. There is very little aspen regeneration in the stand. Most of the regeneration is white pine. The west half is wetter, and it is more of a lowland with upland pockets and the east half is more of an upland with lowland pockets. The terrain is hummocky. The ash is dead. There is a well-stocked white pine understory in 3/4 of the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Seedling	6		Sheep Laurel	High		5 - 10 feet	5 - 10 feet
Quaking Aspen	6		6		Tag Alder	Medium		5 - 10 feet	5 - 10 feet
Hemlock	9		12		White Pine	High		10 - 20 feet	10 - 20 feet
White Pine	70		11	88	Michigan Holly	Low		5 - 10 feet	5 - 10 feet









Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
95	4130 - Aspen	Sapling Well	17.3	33	51-80	N/A	The stand was clearcut in 1992. The stands are ridges of Proper Sand boarder by drainages and private land. There are a couple of swales that could be classified as lowlands. But the overall crown closure is over 75%.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	20	Sapling	6		Tag Alder	Low		5 - 10 feet	5 - 10 feet
White Pine	10	Sapling	5		Sheep Laurel	High		5 - 10 feet	5 - 10 feet
Red Maple	10	Pole	4		White Pine	High		10 - 20 feet	10 - 20 feet
Paper Birch	10	Pole	4		Serviceberry (Juneberry)	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	50	Sapling	7	33					
96	42290 - Natural Mixed Pine	Sawtimber Well	4.8	148	111-140	N/A	This stand was thinned by removing the hardwood and some pines in 1998. There are two age classes in this stand now. the western half of the northern section of the stand stand is dense, pole sized white pine with larger red maple mixed in. The eastern half is log sized red pine and white pine with red maple mixed in, which the southeastern section of the stand also resembles. The soil under the stand is Mclvor Sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	45		14	148	Huckleberry	Medium		5 - 10 feet	5 - 10 feet
White Pine	40		12		Sheep Laurel	High		5 - 10 feet	5 - 10 feet
Red Maple	12		8		Red Pine	Low		10 - 20 feet	10 - 20 feet
Paper Birch	3	Sapling	6		Red Maple	Medium		>20 feet	>20 feet
					Paper Birch	Low		>20 feet	>20 feet
					Leatherleaf	Low		5 - 10 feet	5 - 10 feet
					White Pine	High	>20 feet	>20 feet	
97	6229 - Mixed Lowland Shrub	Unspecifed	14.0			No	The stand was clearcut in 1992. This area is a drainage that has regenerated in a mix of lowland shrubs with some overstory trees. The trees are mainly white pine with some quaking aspen. The ash that was present has died off. The trees are in small patches and along the edges. The overall crown closure is less than 15%. The soil under the stand is Denford muck.		
					Sub-Canopy Species	Density		Avg. Height	Size
					Willow spp.	Low		5 - 10 feet	5 - 10 feet
					Tag Alder	High		5 - 10 feet	5 - 10 feet
					Quaking Aspen	Low		>20 feet	>20 feet
					Michigan Holly	Full		5 - 10 feet	5 - 10 feet
					White Pine	Low	>20 feet	>20 feet	
98	6229 - Mixed Lowland Shrub	Unspecifed	5.4			No	The stand was clearcut in 1992. This area is a low depression and has regenerated to tag alder and Michigan holly with some scattered trees. The crown closure is less than 15%.		
					Sub-Canopy Species	Density		Avg. Height	Size
					Quaking Aspen	Trace		>20 feet	>20 feet
					Michigan Holly	Medium		5 - 10 feet	5 - 10 feet
					White Pine	Low		>20 feet	>20 feet
					Red Maple	Trace		>20 feet	>20 feet
					Green Ash	Trace	10 - 20 feet	10 - 20 feet	
					Tag Alder	Full	5 - 10 feet	5 - 10 feet	
99	6112 - Lowland Aspen	Sapling Well	17.9	25	Immature	N/A	The stand was harvested in 2000. It was heavily rutted during the harvest. Most of the stand is low but there are upland islands. The crown closure is around 70%, but it is hard to tell because the tag alder is only a little shorter than the regeneration. The terrain is hummocky. The soil under the stand is a mixture of Proper Sand, Finch, Denford Muck and Leafriver Muck.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	15	Pole	4		Tag Alder	Full		5 - 10 feet	5 - 10 feet
Quaking Aspen	60	Pole	4	25	Michigan Holly	Medium		5 - 10 feet	5 - 10 feet
Red Maple	15	Log	3						
Paper Birch	10	Log	3						



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100	4311 - Pine, Aspen Mix	Poletimber Well	16.0	50	141-170	N/A	This stand is mainly bigtooth aspen and white pine with pockets of trembling aspen and red maple. The soil under the stand is Mclvor Sand. The stand is ready to be harvested as the BA is high and the aspen are age 50 and pole sized.																																																															
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101	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	12.8	88	51-80	N/A	There is a drain running through the center of the stand. The ash is dead. There is a high-water table. There are areas of marsh grass and some flowing water. The whole stand is very wet, and the terrain is hummocky. The crown closure is now closer to 50%.																																																															
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102	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	8.2	32	51-80	N/A	The stand was clearcut in 1992. This area is a drainage that has some upland islands as well as low ridges. There are pockets of lowland shrubs and marshes scattered in the stand. The ash in the stand is gone.																																																															
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103	42200 - Natural White Pine	Poletimber Well	20.8	50	141-170	N/A	The stand is a mixture of size classes. They range from sapling to extra-large sawlogs, however most are pole size. The trees have poor form, especially the XL white pine sawlogs. The aspen is short for its age and it has poor form, in addition it is declining. The terrain is hummocky with many small L-Type inclusions. The soil is Wabun Muck.																																																															
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104	42200 - Natural White Pine	Sawtimber Well	14.7	70	141-170	N/A	This stand was thinned by having the hardwoods removed. It has regenerated well and it is now a two aged stand. The soil under the stand is Mclvor Sand. The northeastern portion of the stand has a higher BA of about 200+ with dense log/pole white pine and red pine. The center of the stand has a Lower BA of about 120 featuring a super canopy of Xlog white pine and red pine with a sub canopy of pole/sapling sized white pine, red pine, and red maple. The southern boundary along Alabaster road features more hardwoods mixed in including pole sized bigtooth aspen and red maple.																																																															
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105	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	14.3	45	141-170	N/A	The stand is low and wet. The stand is well stocked with log and pole sized white pines on the eastern and western sides of the stand. With pole and sapling sized red maple and mixed hardwoods down the center of the stand where its a bet lower and wetter.																																																			
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106	6127 - Lowland Pine	Sawtimber Poor	6.9	64	81-110	N/A	The stand was not harvested with stand 10 because of the small diameters. The area is a mix of uplands and lowlands with the lowlands being the majority. The soil is Mclvor Sand.																																																			
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109	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	5.0	50	1-50	N/A	The stand is in a low wet depression, with a lot of standing water and some water flow along the east side. The ash has completely died off leaving behind mostly pole sized red maple, aspen, and white pine. The soil under the stand is Wabun Muck.																																																			
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110	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Poor	7.3	60	51-80	N/A	The stand is a low, wet ash drain. The ash has completely died out, leaving mostly islands of red maple and white pine behind on the higher ground. There are sparse areas with standing water where regeneration is sparse.																																																			
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113	3301 - Low Density Deciduous Trees	Unspecifed	18.3			No	This stand is along the south private line and is on very moist soil. The soil under the stand is Wabun Muck. There are areas within the stand with water that is 1-1.5 feet deep. The ash has completely died off, leaving behind islands of pole sized quaking aspen and black cherry where the ground is a little higher. There are now vast fields of L-type wetland with little regeneration and mostly shrubs and marsh grass where the ash used to be. The canopy closure is up to 50% on the tree islands, but the rest of the stand is on the low end of the 0-25% range.																																																			
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116	6127 - Lowland Pine	Poletimber Medium	4.7	27	51-80	N/A	This stand is in a depression. The terrain is hummocky, and the soil under the stand is Mclvor Sand. The south half of the stand is a very wet L-type with mostly tag alder and cattails. This area was heavily rutted when it was harvested. There is also another smaller pocket of L-type at the northern tip of the stand. The overall crown closure is between 50-75% but ranges from 0-100%. The BA also varies heavily. The stand is too wet to manage.																																																																				
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123	6229 - Mixed Lowland Shrub	Unspecified	5.9			No	The ash in the stand has died out. It has converted to lowland shrubs for the most part. There are a few scattered live paper birch and red maples. The soil under the stand is Wabun Muck.																																																																				
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128	42290 - Natural Mixed Pine	Unspecified	14.3	14	Immature	N/A	This stand is on a ridge that comes from the private land to the east. It was harvested in the fall of 2010. The timber sale was Alabaster Harvest; sale 73-018-07-01. Overall, it is upland with some lowland inclusions in the south end. The southern portion of the stand is hummocky. The area is seeding in with red and white pine. The driest portion of the ridge has a lower density than the rest of the stand. The soil is the Croswell-Proper Complex.																																																																				
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134	6127 - Lowland Pine	Sawtimber Poor	15.6	67	1-50	N/A	The stand was burned between the years of 1998 and 2002. The scorch height on the red pine is 3-4 feet. The regeneration is coming along well. There are pockets of very dense regeneration, and some areas with only a few conifers regenerating. The canopy is scattered and in clumps, causing BA to be highly variable. The area has several wet depressions that are holding water. The terrain is hummocky. The soil is Mclvor Sand.																																																																				
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136	6229 - Mixed Lowland Shrub		10.5			No	The ash in the stand has died out and it has converted to tag alder and Michigan holly. Some white pine and red maple occur in the stand but they have < 15% Crown closure. The soil under the stand is Kenotin Muck.																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
259	629 - Mixed non-forested Wetland	Unspecified	18.8			No	This stand is mainly tag alder and Michigan holly over marsh grass with some open water along the south edge. The soil is Leafriver Muck.
				<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
				Tag Alder	High	5 - 10 feet	5 - 10 feet
				Michigan Holly	High	5 - 10 feet	5 - 10 feet
400	3303 - Mixed Low Density Trees	Unspecified	6.3			No	There are islands of pole sized trees up to 90 BA on the north and south ends of the stand. These could almost become their own stand. The rest of the stand near the center is 0-25 BA and is mostly sheep laurel fields with a few white pines. The average BA for the stand is 40.
				<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
				Sheep Laurel	Full	5 - 10 feet	5 - 10 feet
				White Pine	Medium	10 - 20 feet	10 - 20 feet
				Red Maple	Medium	>20 feet	>20 feet
				Paper Birch	Low	>20 feet	>20 feet
				Bigtooth Aspen	Low	>20 feet	>20 feet
				Tag Alder	Low	5 - 10 feet	5 - 10 feet
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