

# 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 cover types.

## **Soil and topography:**

The soils are a mixture of well-drained Proper Sand, somewhat poorly drained Mclvor 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:**

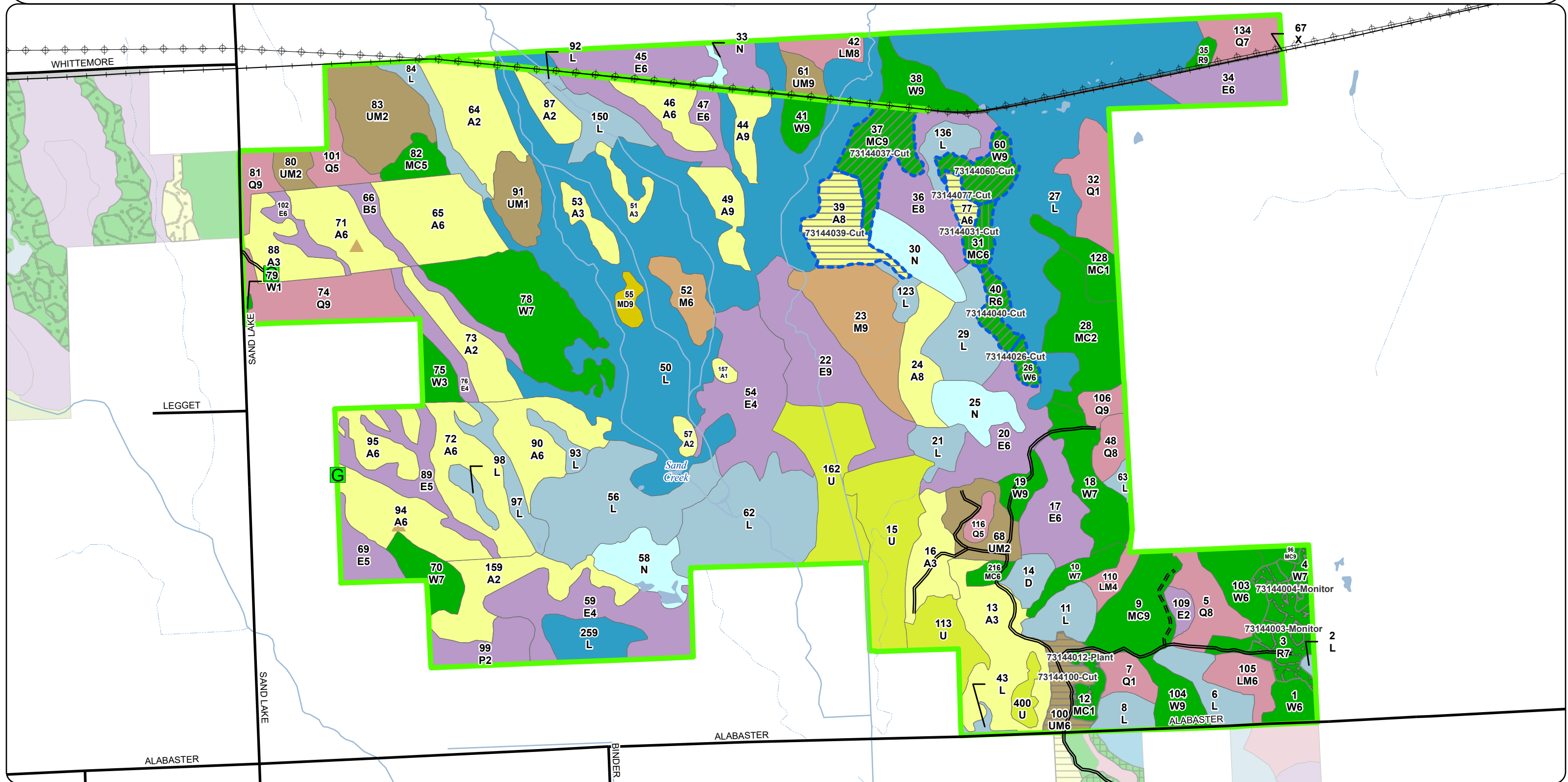
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**



A horizontal scale bar with a black background and white markings. It is labeled with '0' at the left end, '0.5' in the middle, and '1' at the right end. The word 'Miles' is written in black text at the far right end of the bar.

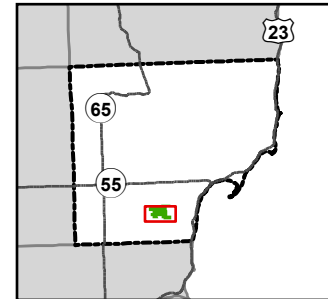
- |   |                                       |   |                      |
|---|---------------------------------------|---|----------------------|
|   | Berms                                 |   | Perennial River      |
|  | Gate                                  |  | Powerline            |
|  | DNR - Secondary Forest Road           |  | Lakes and Rivers     |
|  | DNR - Forest Access Route             |  | Counties             |
|  | Federal / State / County - Paved Road |  | Compartment Boundary |
|  | Active Railroads                      |  | Clearcut             |
|  | Intermittent Stream                   |  | Shelterwood          |
|   |                                       |  | Thinning             |

- |   |                                 |   |                                  |
|---|---------------------------------|---|----------------------------------|
|   | Planting (tree species)         |   | 611 - Lowland Deciduous Forest   |
|  | Monitoring - Regeneration       |  | 612 - Lowland Coniferous Forest  |
|  | Treatments with Site Conditions |  | 613 - Lowland Mixed Forest       |
|  | 411 - Northern Hardwood         |  | 123 - Other High Intensity Urban |
|  | 413 - Aspen                     |  | 330 - Low Density Trees          |
|  | 419 - Mixed Upland Deciduous    |  | 622 - Lowland Shrub              |
|  | 422 - Natural Pines             |  | 623 - Emergent Wetland           |
|  | 430 - Upland Mixed Forest       |  | 629 - Mixed non-forested Wetland |

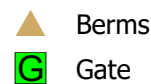




# Stand Boundary Map



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: 09/26/2025  
Map Phase: Post Review

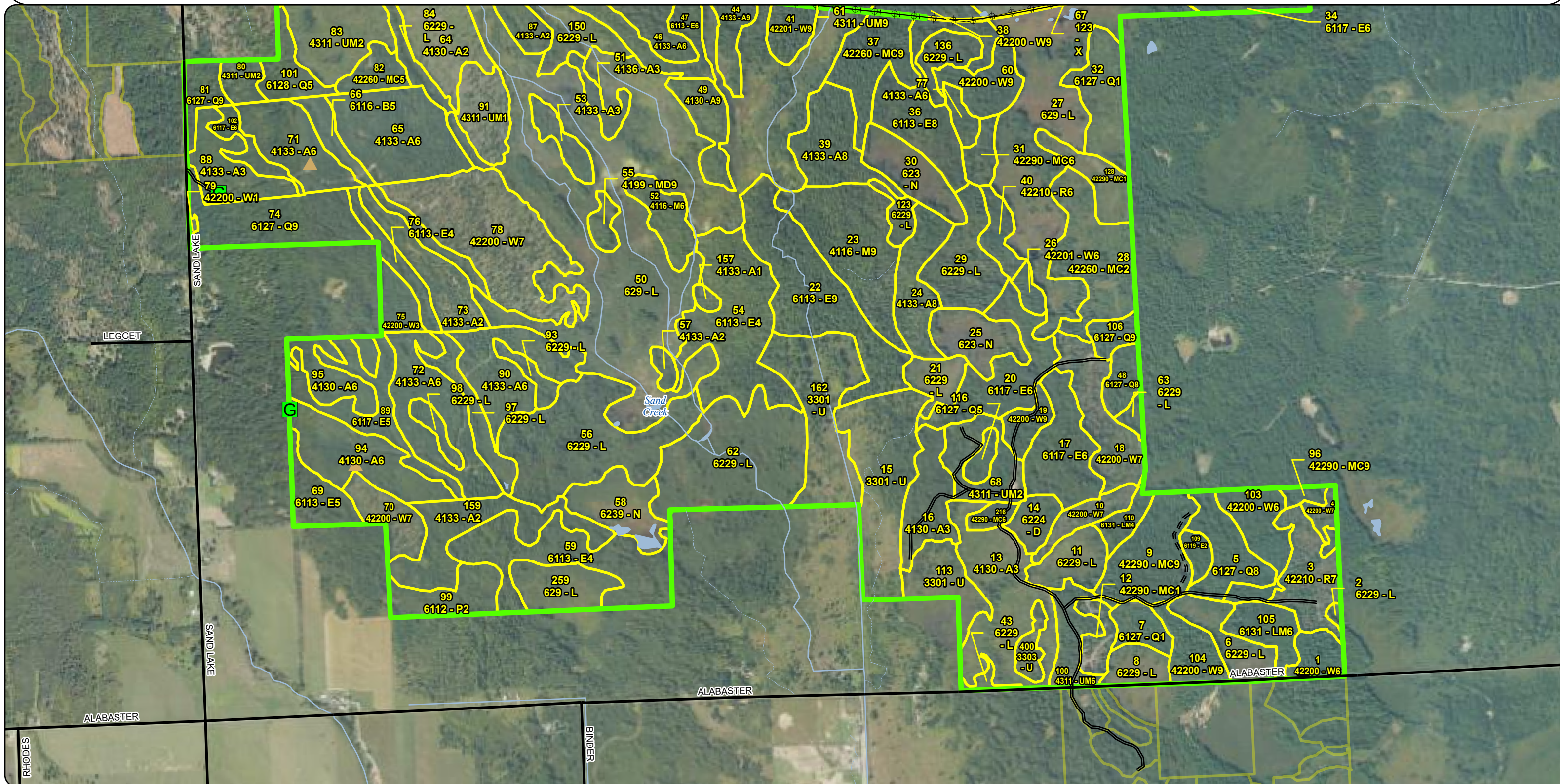


— DNR - Secondary Forest Road  
== DNR - Forest Access Route  
— Federal / State / County - Paved Road  
+— Active Railroads

— Intermittent Stream  
— Perennial River  
+— Powerline  
— Lakes and Rivers  
— Counties  
— Compartment Boundary  
411 - Northern Hardwood

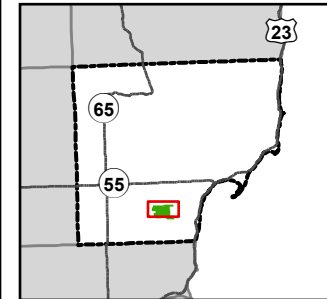
413 - Aspen  
419 - Mixed Upland Deciduous  
422 - Natural Pines  
430 - Upland Mixed Forest  
611 - Lowland Deciduous Forest  
612 - Lowland Coniferous Forest  
613 - Lowland Mixed Forest  
123 - Other High Intensity Urban  
330 - Low Density Trees  
622 - Lowland Shrub  
623 - Emergent Wetland  
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0 0.5 1 Miles





# Stand Boundary Map



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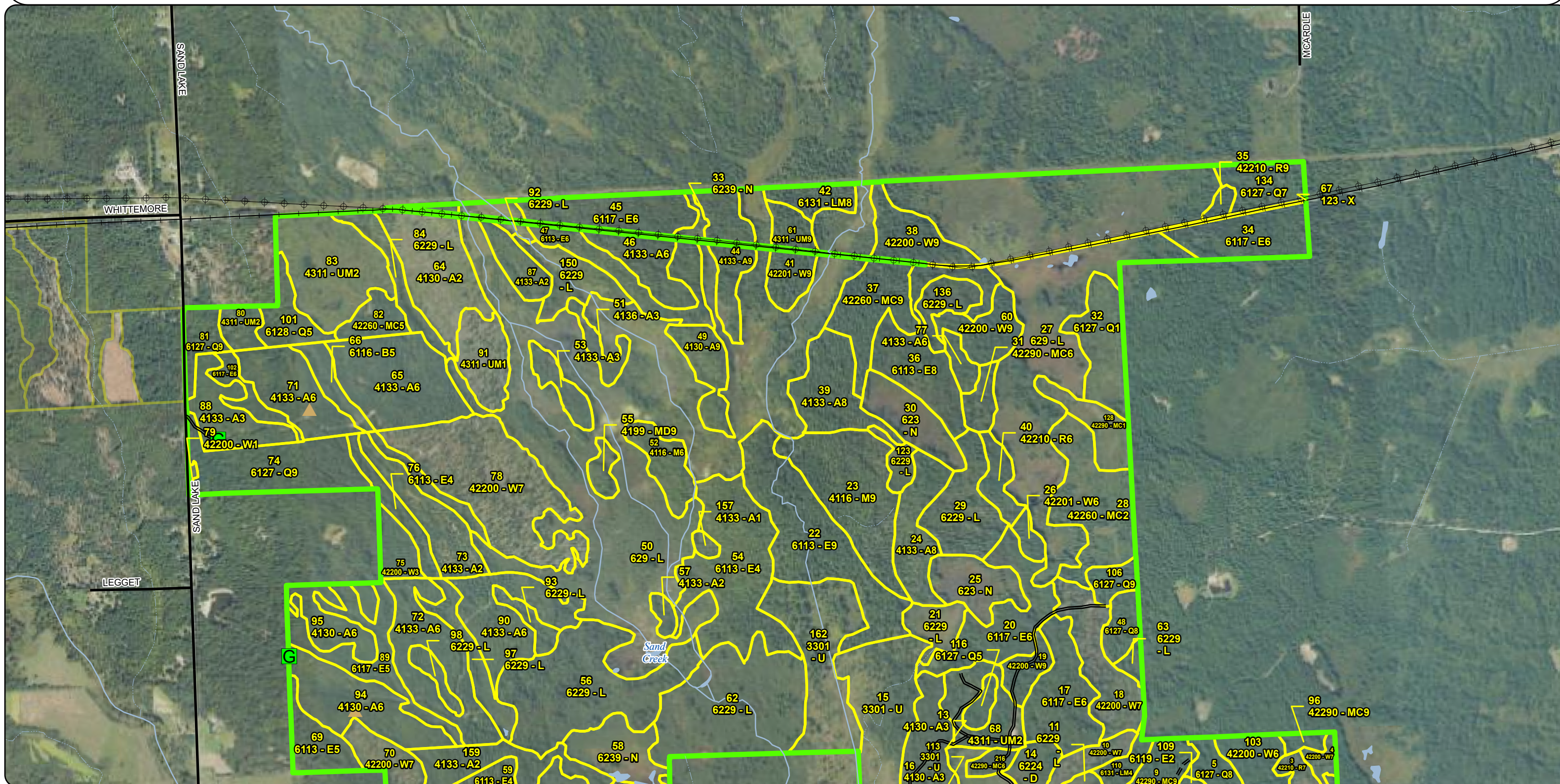
— DNR - Secondary Forest Road  
== DNR - Forest Access Route  
— Federal / State / County - Paved Road  
— Active Railroads

--- Intermittent Stream  
— Perennial River  
⊕ Powerline  
■ Lakes and Rivers  
□ Counties  
■ Compartment Boundary  
411 - Northern Hardwood

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0 0.5 1 Miles









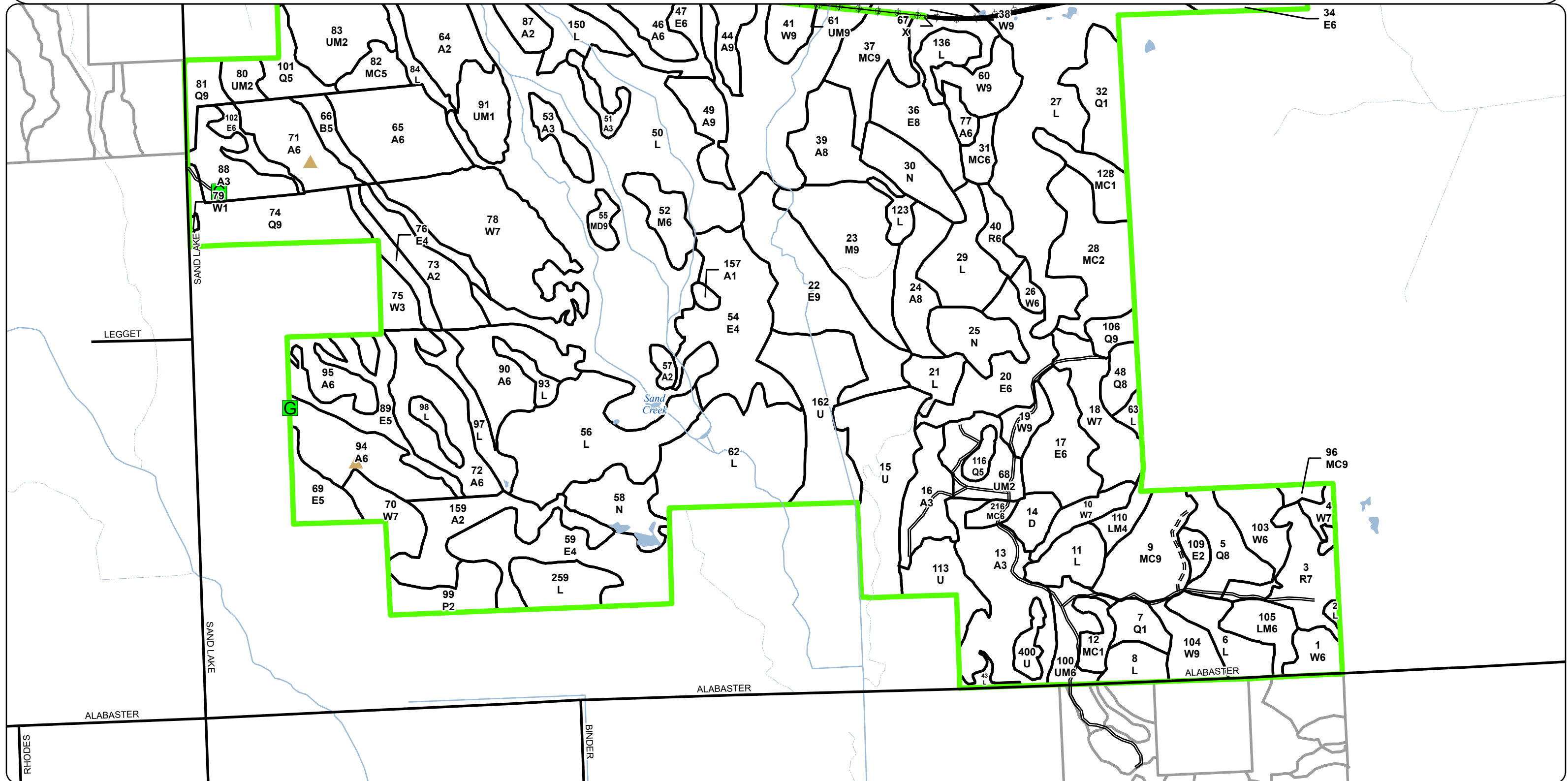
A horizontal scale bar with a black segment on the left and a white segment on the right, enclosed in a black box. The number '1' is positioned above the right end of the bar, and the word 'Miles' is positioned to the right of the bar.



== DNR - Secondary Forest Road  
 === DNR - Forest Access Route

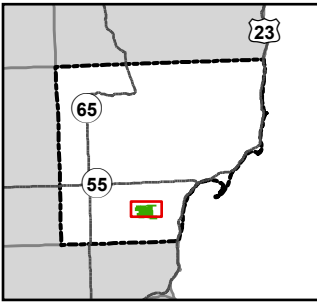
 Powerline

-  Lakes and Rivers
-  Counties
-  Compartment Boundary
-  Stand Boundaries



# Special Conservation Areas & Site Conditions 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: 09/26/2025  
Map Phase: Post Review



0 0.5 1 Miles

▲ Berms

G Gate

== DNR - Secondary Forest Road

== DNR - Forest Access Route

— Federal / State / County - Paved Road

— Active Railroads

--- Intermittent Stream

— Perennial River

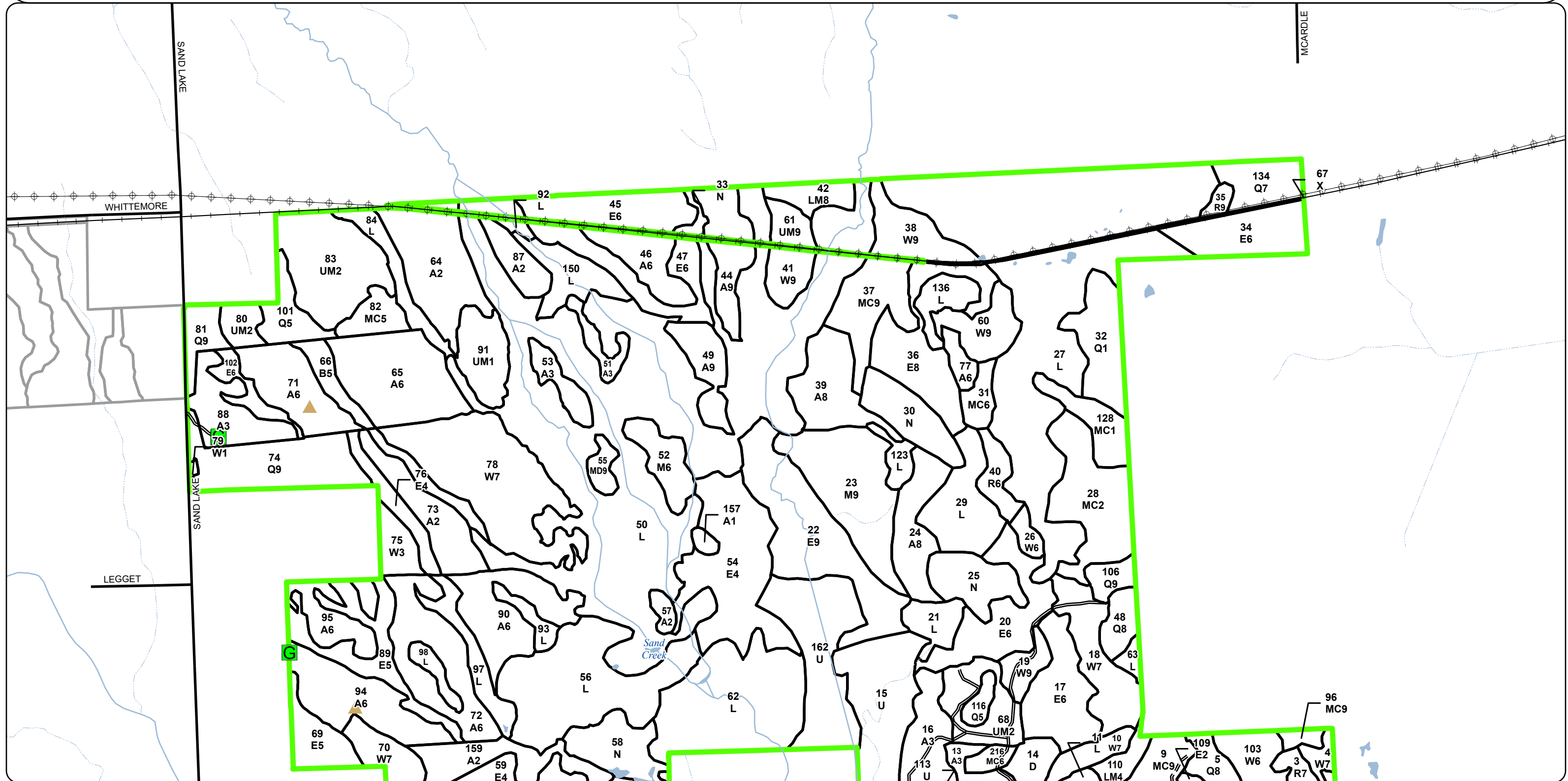
⊕ Powerline

Lakes and Rivers

Counties

Compartment Boundary

Stand Boundaries



# Report 1 – Total Acres by Cover Type and Age Class

Compartment 144 Year of Entry 2027

	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+	Unseen-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	Overshoot 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	72	0	0	72
Total	111	0	9	0	0	0	101	0	0	220

Stand

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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**Approved Treatments:**

3	73144003-Monitor	24.5	42210 - Natural Red Pine	7	87	1-50	Monitoring	Monitoring - Regeneration	42210 - Natural Red Pine	Planting Record	No
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Prescription Intermediate natural regeneration survey.Specs:Next StepTreatments:Acceptable Naturally regenerated stand of white pine, red pine, and mixed deciduous meeting minimum stocking standardsRegen:OtherComment:Site Condition:Proposed Start Date: 10/01/2026

4	73144004-Monitor	4.5	42200 - Natural White Pine	7	121	1-50	Monitoring	Monitoring - Regeneration	42200 - Natural White Pine	Planting Record	No
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Prescription Intermediate natural regeneration survey.Specs:Next StepTreatments:Acceptable Naturally regenerated stand of white pine, red pine, and mixed deciduous meeting minimum stocking standards.Regen:OtherComment:Site Condition:Proposed Start Date: 10/01/2026

12	73144012-Plant	8.6	42290 - Natural Mixed Pine	1	30	Immature	Planting	Planting (tree species)	4210 - Planted White Pine	Cutting Record	No
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Prescription 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.Specs:Next Step Monitoring, Artificial Regen; Monitoring, Artificial RegenTreatments:Acceptable Mixed conifers to minimum stocking standards.Regen:OtherComment: 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 and plant white pine.Site Condition:Proposed Start Date: 10/01/2026



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>26 73144026-Cut</b>	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										
<b>31 73144031-Cut</b>	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										
<b>37 73144037-Cut</b>	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										
<b>39 73144039-Cut</b>	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										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>40 73144040-Cut</b>	9.342210	- 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										
<b>60 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>77 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>100 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										



S  
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Name

Acres

Stand  
CoverTypeSize  
DensityStand  
AgeBA  
RangeTreatment  
TypeTreatment  
MethodCover Type  
ObjectiveAge  
StructureHabitat  
Cut

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Total Treatment  
Acreage Proposed: 148.2

## Report 4 – Site Conditions



### 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	Dominant Site 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:							

## Report 4 – Site Conditions



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	Poletimber Well	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
								Red Pine	5	Seedling	9	
								White Pine	15		30	98
								White Pine	70	Seedling	9	31
								Red Pine	10		18	
2	6229 - Mixed Lowland Shrub	None	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
								Jack Pine	2	Pole	4	
								White Pine	38		12	
								Red Pine	60		14	87
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
								Red Pine	38		16	
								Red Maple	2	Pole	4	
								White Pine	60		28	121
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
								Red Pine	5	Seedling	7	
								Red Maple	10		7	
								Paper Birch	5	Sapling	5	
								Quaking Aspen	5	Sapling	6	
								White Pine	75		12	45

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	6229 - Mixed Lowland Shrub	None	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.
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.
8	6229 - Mixed Lowland Shrub	None	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.
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.
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.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	6229 - Mixed Lowland Shrub	None	15.4			No	The stand was an old beaver flooding. It is currently alder over marsh grass. There are some snags still hanging on, but most have come down. The soil under the stand is Kenotin Muck.
12	42290 - Natural Mixed Pine	Sapling Poor	8.6	30	Immature	N/A	This stand is on Udipcumments soil and is heavily disturbed by ORV traffic. Currently a good portion of the stand is bare sand, grass, and knapweed. There is also a pocket of Pragmites in the stand. The site shows signs of healing but there's still signs of activity here. Access to this site should be blocked to promote healing.
13	4130 - Aspen	Sapling Well	48.8	5	Immature	N/A	The stand is regenerating well with mainly bigtooth aspen with pockets of trembling aspen and red maple. The stand met minimum stocking. The soil under the stand is Mclvor Sand. The terrain is hummocky. The stand was harvested in Sand Hill Harvest in summer of 2020. The sale # is 73-008-17.
14	6224 - Treed Bog	None	9.2			No	This stand is originally a beaver flooding but has drained down. It has very few snags. Some areas along the southern edge are now growing paper birch, black spruce, and a few white pines. The growth rates are very low. Looking at the leader growth on the pines it is only 2-3 inches per year. The soil under the stand is Kenotin Muck.
15	3301 - Low Density Deciduous Trees	None	50.1			No	The stand is low and wet. The ash has completely died off. The central eastern boundary of the stand along stand 16 is an almost impassable thicket of tag alder, American elm, and red maple. The rest of the stand, especially the north and south ends is where the ash trees used to be, and are now just standing water with marsh grass with very few trees. The north end of the stand is trees and has about a 50% crown closure. Mostly red maple with some quaking aspen.
16	4130 - Aspen	Sapling Well	21.9	27	Immature	N/A	The stand has regenerated well and is on its way to becoming a pole sized stand. The terrain is slightly hummocky and made up of ridges and swells. The soil is mainly Mclvor Sand.



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>White Pine</td><td>30</td><td></td><td>26</td><td>105</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>Quaking Aspen</td><td>10</td><td></td><td>13</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	30		26	105	Red Pine	5		19		Red Maple	50		9	65	Quaking Aspen	10		13		Paper Birch	5	Seedling	7		<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>Sheep Laurel</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Full</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	10 - 20 feet	Sheep Laurel	High	5 - 10 feet	5 - 10 feet	White Pine	Full	10 - 20 feet	10 - 20 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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21	6229 - Mixed Lowland Shrub	None	10.7			No	This stand is predominately marsh grass and tag alder.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	6113 - Lowland Maple	Sawtimber Well	56.0	121	141-170	N/A	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Green Ash	2	Seedling	7		Black Cherry	Low		10 - 20 feet	10 - 20 feet
Black Cherry	1	Seedling	8		Green Ash	Low		10 - 20 feet	10 - 20 feet
Red Maple	95		22	121	Musclewood/Hornbeam	Medium		10 - 20 feet	10 - 20 feet
Bigtooth Aspen	2		14		Red Maple	Low		>20 feet	>20 feet
23	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	46.3	95	81-110	N/A	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	2	Seedling	6		White Pine	Low		10 - 20 feet	10 - 20 feet
Green Ash	5	Seedling	8		Michigan Holly	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	15		10		Serviceberry (Juneberry)	Low		5 - 10 feet	5 - 10 feet
Quaking Aspen	15		10		Musclewood/Hornbeam	Medium		10 - 20 feet	10 - 20 feet
White Pine	3	Seedling	6		Tag Alder	Medium		5 - 10 feet	5 - 10 feet
Red Maple	60		14	95	Wintergreen	Full		5 - 10 feet	5 - 10 feet
					Sheep Laurel	Medium	5 - 10 feet	5 - 10 feet	
24	4133 - Aspen, Mixed Pine	Sawtimber Medium	22.7	105	111-140	N/A	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	60		11	105	Huckleberry	High		5 - 10 feet	5 - 10 feet
Red Maple	5		8		White Pine	Medium		10 - 20 feet	10 - 20 feet
Red Pine	15		12		Sheep Laurel	Full		5 - 10 feet	5 - 10 feet
White Pine	15		12		Red Pine	Low		10 - 20 feet	10 - 20 feet
Paper Birch	5	Seedling	8						
25	623 - Emergent Wetland	None	19.0			No	This area is an old beaver flooding. It is still holding water.		
					Sub-Canopy Species	Density		Avg. Height	Size
					White Pine	High		5 - 10 feet	5 - 10 feet
					Balsam Fir	High		5 - 10 feet	5 - 10 feet
					Common Cattail	Full		Not Applicable	Not Applicable
26	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	4.4	65	171-200	N/A	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15		10		Huckleberry	High		5 - 10 feet	5 - 10 feet
White Pine	70		9	65	White Pine	Medium		>20 feet	>20 feet
Bigtooth Aspen	15		11		Wintergreen	High		5 - 10 feet	5 - 10 feet
					Sheep Laurel	High		5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
27	629 - Mixed non-forested Wetland	None	191.5			No	This stand is a large wetland with active beavers, and several beaver lodges. The stand consists of standing water, treed islands, cattails and marsh grass wetland, and lowland shrubs. The best description of the stand is mixed non-forested wetlands. The soil under it is mainly Wabun Muck.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Common Cattail	Medium	Not Applicable	Not Applicable					
								White Pine	Medium	>20 feet	>20 feet					
								Red Maple	Low	>20 feet	>20 feet					
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet					
28	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	38.8	14	Immature	N/A	The stand is hummocky. It was harvested in the fall of 2010. The timber sale was Alabaster Harvest; sale 73-018-07-01. The regeneration of deciduous trees is patchy from the original harvest. Over the last 10 years the stand has seeded in. It now has a medium stocking of pines. The pines are a mix of red and white pine, and they go from 1 to 14 years old. When it was harvested a small retention island and conifers less than 4 inches were retained. The soil is Mclvor Sand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	45	Log	2	14	Sheep Laurel	High	5 - 10 feet	5 - 10 feet
								Quaking Aspen	30	Log	2	14	Tag Alder	Low	5 - 10 feet	5 - 10 feet
								Red Pine	25	Log	2	14				
29	6229 - Mixed Lowland Shrub	None	26.3			No	The stand sits in a low depression. It is variable but overall the stand is an E4/L. The ash has heavy EAB. The terrain is hummocky with areas of standing water. The aspen, ash, and birch are declining and showing signs of significant rot. The stand is too wet to harvest also the trees are of inferior quality and quantity. The crown closure is closer to 25%.The ash has died off and the stand has converted to lowland shrub containing tag alder, and a few pole sized red maple, paper birch, and white pine.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	32		8		Sheep Laurel	Full	5 - 10 feet	5 - 10 feet
								Paper Birch	13	Seedling	6		Tag Alder	Full	5 - 10 feet	5 - 10 feet
								Red Maple	40	Seedling	8	95	White Pine	Low	>20 feet	>20 feet
													Red Maple	Medium	>20 feet	>20 feet
					Paper Birch	Low	>20 feet	>20 feet								
					Michigan Holly	High	5 - 10 feet	5 - 10 feet								
30	623 - Emergent Wetland	None	19.6			No	The stand is a beaver pond and there are signs of activity including never trails in the snow. The site is mostly tag alder and marsh grasses.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Michigan Holly	Low	5 - 10 feet	5 - 10 feet					
								Tag Alder	High	5 - 10 feet	5 - 10 feet					
								Willow spp.	Low	5 - 10 feet	5 - 10 feet					
31	42290 - Natural Mixed Pine	Poletimber Well	7.4	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
								Jack Pine	2	Sapling	6		Sheep Laurel	High	5 - 10 feet	5 - 10 feet
								Red Maple	6		9		Huckleberry	Medium	5 - 10 feet	5 - 10 feet
								Bigtooth Aspen	20		11		Michigan Holly	Low	5 - 10 feet	5 - 10 feet
								Red Pine	35		9	95	White Pine	Low	10 - 20 feet	10 - 20 feet
Paper Birch	2	Seedling	6		Red Pine	Low	10 - 20 feet	10 - 20 feet								
White Pine	35		11	95												



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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	Sawtimber Well	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	Sawtimber Medium	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	Poletimber Well	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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Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments			
42	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Medium			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.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
		Bigtooth Aspen	15		9		Michigan Holly	High		5 - 10 feet	5 - 10 feet	
		Red Maple	20		9		Tag Alder	High		5 - 10 feet	5 - 10 feet	
		Paper Birch	15	Seedling	6		White Pine	High		10 - 20 feet	10 - 20 feet	
43	6229 - Mixed Lowland Shrub	None			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%.			
					Sub-Canopy Species	Density	Avg. Height	Size				
					Quaking Aspen	Low	>20 feet	>20 feet				
44	4133 - Aspen, Mixed Pine	Sawtimber Well			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.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
		White Pine	25		12		Sheep Laurel	Full		< 5 feet	< 5 feet	
		Paper Birch	5	Seedling	8		White Pine	High		10 - 20 feet	10 - 20 feet	
		Red Maple	20		9		Wintergreen	Full		5 - 10 feet	5 - 10 feet	
		Bigtooth Aspen	50		11	78	Serviceberry (Juneberry)	Medium		5 - 10 feet	5 - 10 feet	
45	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well			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.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
		Red Maple	40		9	78	Red Maple	Medium		10 - 20 feet	10 - 20 feet	
		White Pine	35		9		Michigan Holly	Medium		5 - 10 feet	5 - 10 feet	
		Paper Birch	5	Seedling	8		Tag Alder	Medium		5 - 10 feet	5 - 10 feet	
46	4133 - Aspen, Mixed Pine	Poletimber Well			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.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
		White Pine	20		10		Serviceberry (Juneberry)	Medium		5 - 10 feet	5 - 10 feet	
		Paper Birch	5	Seedling	8		Sheep Laurel	Medium		< 5 feet	< 5 feet	
		Red Maple	35		9		Tag Alder	Low		5 - 10 feet	5 - 10 feet	
		Bigtooth Aspen	40		9	78	White Pine	High		10 - 20 feet	10 - 20 feet	
47	6113 - Lowland Maple	Poletimber Well			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.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
		White Pine	15	Seedling	8		Balsam Fir	Low		10 - 20 feet	10 - 20 feet	
		Bigtooth Aspen	10		9		White Pine	High		10 - 20 feet	10 - 20 feet	
		Red Maple	75		9	78	Musclewood/Hornbeam	Low		5 - 10 feet	5 - 10 feet	
								Deciduous Shrubs		High	5 - 10 feet	5 - 10 feet
								Maple (spp.)		Medium	5 - 10 feet	5 - 10 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
48	6127 - Lowland Pine	Sawtimber Medium	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	None	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	Poletimber Poor	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		
60	42200 - Natural White Pine	Sawtimber Well	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	5	Seedling	8		Sheep Laurel	High		5 - 10 feet	5 - 10 feet
Red Pine	25		12		Huckleberry	High		5 - 10 feet	5 - 10 feet
Red Maple	5	Seedling	8		Wintergreen	High		5 - 10 feet	5 - 10 feet
White Pine	65		16	60	White Pine	Medium		10 - 20 feet	10 - 20 feet
					Red Pine	Low		10 - 20 feet	10 - 20 feet
61	4311 - Pine, Aspen Mix	Sawtimber Well	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	50		12	95	Wintergreen	Full		5 - 10 feet	5 - 10 feet
Red Maple	20		11		White Pine	High		10 - 20 feet	10 - 20 feet
Paper Birch	10	Seedling	8		Sheep Laurel	Full		< 5 feet	< 5 feet
Bigtooth Aspen	20		11		Serviceberry (Juneberry)	Low		5 - 10 feet	5 - 10 feet
62	6229 - Mixed Lowland Shrub	None	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.		
					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
63	6229 - Mixed Lowland Shrub	None	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.		
					Sub-Canopy Species	Density		Avg. Height	Size
					Buttonbush	Low		5 - 10 feet	5 - 10 feet
					Tag Alder	High		5 - 10 feet	5 - 10 feet
					White Pine	Low		10 - 20 feet	10 - 20 feet
					Michigan Holly	High		5 - 10 feet	5 - 10 feet
64	4130 - Aspen	Sapling Medium	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	65	Log	1	5	Serviceberry (Juneberry)	Low		5 - 10 feet	5 - 10 feet
Red Maple	30	Pole	2		White Pine	High		5 - 10 feet	5 - 10 feet
White Pine	5		15		Red Maple	Medium		10 - 20 feet	10 - 20 feet
65	4133 - Aspen, Mixed Pine	Poletimber 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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	8	Pole	4		Sheep Laurel	Full		5 - 10 feet	5 - 10 feet
White Pine	30	Sapling	6		Deciduous Shrubs	Medium		5 - 10 feet	5 - 10 feet
Red Pine	5	Pole	4						
Quaking Aspen	12	Sapling	5						
Bigtooth Aspen	45	Sapling	5	33					

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
71	4133 - Aspen, Mixed Pine	Poletimber 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.																																																											
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72	4133 - Aspen, Mixed Pine	Poletimber 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.																																																											
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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.																																																											
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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.																																																											
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Red Pine	Low	Variable	Variable																																																															
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.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
76	6113 - Lowland Maple	Poletimber Poor	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		10	88	Deciduous Shrubs	Full		5 - 10 feet	5 - 10 feet
White Pine	35		10						
Paper Birch	5	Pole	3						
77	4133 - Aspen, Mixed Pine	Poletimber Well	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 Maple	15		9		White Pine	Low		10 - 20 feet	10 - 20 feet
Bigtooth Aspen	50		11	95	Michigan Holly	Low		5 - 10 feet	5 - 10 feet
Paper Birch	5	Seedling	6		Huckleberry	Medium		5 - 10 feet	5 - 10 feet
Red Pine	15		9		Red Pine	Low		10 - 20 feet	10 - 20 feet
White Pine	15		11		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	Red Maple	Medium		5 - 10 feet	5 - 10 feet
Red Maple	5		8		Sheep Laurel	Full		5 - 10 feet	5 - 10 feet
Paper Birch	5		9		Deciduous Shrubs	Low		5 - 10 feet	5 - 10 feet
Red Pine	20		14		Serviceberry (Juneberry)	Low		10 - 20 feet	10 - 20 feet
					White Pine	Medium		Variable	Variable
					Bigtooth Aspen	Medium		10 - 20 feet	10 - 20 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					
Red Pine	30	Log	3						
	Jack Pine	10	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
White Pine	70		11	88	White Pine	High		10 - 20 feet	10 - 20 feet
Hemlock	9		12		Michigan Holly	Low		5 - 10 feet	5 - 10 feet
Red Maple	15		6		Tag Alder	Medium		5 - 10 feet	5 - 10 feet
Quaking Aspen	6	Seedling	6		Sheep Laurel	High	5 - 10 feet	5 - 10 feet	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
82	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	10.0	35	1-50	N/A	The stand was clearcut in 2000. When it was harvested the white pines were retained. The terrain is hummocky. The crown closure is now around 75% and still more pine is seeding into the open areas.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Bigtooth Aspen		35	Pole	4	25	Sheep Laurel		Full	5 - 10 feet	5 - 10 feet	
White Pine		50	Sapling	6	35	Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Jack Pine		10	Pole	4		Serviceberry (Juneberry)		Low	5 - 10 feet	5 - 10 feet	
Red Maple		5	Pole	4							
83	4311 - Pine, Aspen Mix	Sapling Medium	41.2	10	1-50	N/A	The soil under the stand is Proper-Finch-Denford. The stand was harvested in One Unit Aspen sale 73-013-09-01 and was cut in the spring of 2015. The sale retained Cedar, Hemlock, red pine and green painted trees. There were two islands painted out for retention. The total residual BA is 3 Sq. Ft. The terrain is hummocky. The regeneration of deciduous trees is moderate but there is a heavy seeding in of white and red pine. Most of the pine regeneration is 1 to 10 years old.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>						
White Pine		25	Log	1							
Red Pine		15	Log	1							
Red Pine		2		14							
Red Maple		5	Log	1							
White Pine		3		14							
Bigtooth Aspen		50	Log	2	10						
84	6229 - Mixed Lowland Shrub	None	12.5			No	The stand is a drainage, and it is very wet. The ash has died out and the crown closure is now below 20%.				
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>							
White Pine		Low	>20 feet	>20 feet							
Red Maple		Low	>20 feet	>20 feet							
Deciduous Shrubs		Medium	5 - 10 feet	5 - 10 feet							
Tag Alder		Full	5 - 10 feet	5 - 10 feet							
Michigan Holly		High	5 - 10 feet	5 - 10 feet							
87	4133 - Aspen, Mixed Pine	Sapling Medium	11.2	24	51-80	N/A	The ridge that makes up the eastern 2/3 of the stand was habitat cut in the winter of 2000-2001. When it was cut some white pines were retained for diversity. The mature pine and hardwoods are concentrated along the western edge of the stand. In this area there is a lot of mortality in the aspen and birch.				
88	4133 - Aspen, Mixed Pine	Sapling Well	21.5	33	81-110	N/A	The stand was clearcut in 1992. There are pockets of lowland shrubs and marsh scattered in the stand. The stand is well-stocked, and the regeneration is aspen. There are areas that have more red maple and white pine. The terrain is hummocky.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Balsam Fir		1	Pole	3		White Pine		High	10 - 20 feet	10 - 20 feet	
Red Pine		1	Log	3		Sheep Laurel		Full	5 - 10 feet	5 - 10 feet	
White Pine		30	Sapling	6		Deciduous Shrubs		High	5 - 10 feet	5 - 10 feet	
Paper Birch		6	Pole	3							
Red Maple		14	Pole	4							
Bigtooth Aspen		40	Sapling	5	33						
Quaking Aspen		8	Sapling	5							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
89	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	26.8	33	51-80	N/A	The stand was clearcut in 1992. The ash is gone. There is a drainage going through the stand. The edges are treed but the canopy closure is lower over the drainage. The cover type ranges from lowland shrubs to white pines to birch.																																																					
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90	4133 - Aspen, Mixed Pine	Poletimber Well	32.5	33	1-50	N/A	The stand was clearcut in 1992. The stand is fully stocked but there are several areas of low density. The terrain is hummocky. There are wetter areas north of stand 92 and along the east edge.																																																					
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91	4311 - Pine, Aspen Mix	Sapling Poor	18.5	5	1-50	N/A	The soil under the stand is mainly Proper-Finch-Denford complex. The stand was harvested in Sand Lake Gate sale 73-009-17. The residual was measured at 21 sq. ft. The regeneration of deciduous is patchy. However, there is some seeding in of pine. It is expected that this will continue, and the stand will eventually become fully stocked. The terrain is hummocky.																																																					
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92	6229 - Mixed Lowland Shrub	None	1.9			No	This stand is a large, interconnected wetlands that is a mix of beaver floodings, tag alder, marshes, and open water. The area does have several small pockets of Phragmities in it. In addition, there are islands of trees. There are also numerous drains and creeks running through the stand.																																																					
93	6229 - Mixed Lowland Shrub	None	5.9			No	The stand was clearcut in 1992. This stand is a depression that is now mainly lowland shrub with scattered white pine and birch. The trees are along the edges. The ash is dead. However, the overall crown closure is now less than 25%																																																					
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94	4130 - Aspen	Poletimber Well	33.1	33	51-80	N/A	The stand was clearcut in 1992. It is mainly uplands with some inclusions of lowlands especially in the southern half. The terrain is hummocky.																																																					
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95	4130 - Aspen	Poletimber 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
Bigtooth Aspen	50	Sapling	7	33	Sheep Laurel	High		5 - 10 feet	5 - 10 feet
Quaking Aspen	20	Sapling	6		Serviceberry (Juneberry)	Low		5 - 10 feet	5 - 10 feet
Red Maple	10	Pole	4		Tag Alder	Low		5 - 10 feet	5 - 10 feet
White Pine	10	Sapling	5		White Pine	High		10 - 20 feet	10 - 20 feet
Paper Birch	10	Pole	4						
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 Maple	12		8		White Pine	High		>20 feet	>20 feet
Paper Birch	3	Sapling	6		Red Pine	Low		10 - 20 feet	10 - 20 feet
Red Pine	45		14	148	Leatherleaf	Low		5 - 10 feet	5 - 10 feet
White Pine	40		12		Paper Birch	Low		>20 feet	>20 feet
					Red Maple	Medium		>20 feet	>20 feet
					Sheep Laurel	High		5 - 10 feet	5 - 10 feet
					Huckleberry	Medium		5 - 10 feet	5 - 10 feet
97	6229 - Mixed Lowland Shrub	None	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
					White Pine	Low		>20 feet	>20 feet
					Willow spp.	Low		5 - 10 feet	5 - 10 feet
					Michigan Holly	Full		5 - 10 feet	5 - 10 feet
					Tag Alder	High		5 - 10 feet	5 - 10 feet
					Quaking Aspen	Low	>20 feet	>20 feet	
98	6229 - Mixed Lowland Shrub	None	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
					Red Maple	Trace		>20 feet	>20 feet
					Tag Alder	Full		5 - 10 feet	5 - 10 feet
					Green Ash	Trace		10 - 20 feet	10 - 20 feet
					Michigan Holly	Medium		5 - 10 feet	5 - 10 feet
					White Pine	Low	>20 feet	>20 feet	
					Quaking Aspen	Trace	>20 feet	>20 feet	
99	6112 - Lowland Aspen	Sapling Medium	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
Quaking Aspen	60	Pole	4	25	Tag Alder	Full		5 - 10 feet	5 - 10 feet
Balsam Poplar	15	Pole	4		Michigan Holly	Medium		5 - 10 feet	5 - 10 feet
Paper Birch	10	Log	3						
Red Maple	15	Log	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Sapling	5		Red Pine	Low		>20 feet	>20 feet
Red Pine	10		10		Sheep Laurel	Medium		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	50	Seedling	8	50	Red Maple	Low		>20 feet	>20 feet
White Pine	35		12		White Pine	Medium		>20 feet	>20 feet
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%.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	25		9		Musclewood/Hornbeam	Medium		10 - 20 feet	10 - 20 feet
White Pine	45		10	88	Michigan Holly	Medium		5 - 10 feet	5 - 10 feet
Paper Birch	15	Sapling	6		Tag Alder	High		5 - 10 feet	5 - 10 feet
102	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber 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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	1	Log	3		Michigan Holly	High		5 - 10 feet	5 - 10 feet
Quaking Aspen	35	Sapling	5	32	White Pine	High		Variable	Variable
White Pine	30	Sapling	6		Tag Alder	High		5 - 10 feet	5 - 10 feet
Paper Birch	20	Pole	3						
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Sapling	7		White Pine	Medium		10 - 20 feet	10 - 20 feet
Paper Birch	5	Sapling	5		Sheep Laurel	Full		5 - 10 feet	5 - 10 feet
Quaking Aspen	5	Sapling	6		Tag Alder	Low		5 - 10 feet	5 - 10 feet
Red Pine	10		9		Red Pine	Trace		10 - 20 feet	10 - 20 feet
White Pine	70		12	50	Dogwood (spp.)	Low		5 - 10 feet	5 - 10 feet
					Huckleberry	Medium		5 - 10 feet	5 - 10 feet
					Michigan Holly	Low		5 - 10 feet	5 - 10 feet
					Red Maple	Medium		10 - 20 feet	10 - 20 feet
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	65		14	70	White Pine	High		10 - 20 feet	10 - 20 feet
Red Pine	20		14		Huckleberry	Medium		5 - 10 feet	5 - 10 feet
Paper Birch	5	Sapling	5		Red Pine	Low		10 - 20 feet	10 - 20 feet
Red Maple	5	Sapling	7						
Bigtooth Aspen	5		8						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>105</b>	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.
<b>106</b>	6127 - Lowland Pine	Sawtimber Well	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.
<b>109</b>	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.
<b>110</b>	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.
<b>113</b>	3301 - Low Density Deciduous Trees	None	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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
150	6229 - Mixed Lowland Shrub	None	17.0			No	The ash in the stand is gone. There is still some maple with scattered birch. These are mainly along the edges of the stand. The stand is now mostly tag alder over marsh grass. There are many areas of standing water. The soil under the stand is Wabun Muck.
157	4133 - Aspen, Mixed Pine	Sapling Poor	2.3	24	Immature	N/A	The stand was habitat cut in the winter of 2000-2001. The soil under the stand is Proper Sand. The regeneration is somewhat patchy with white and red pine starting to seed in.
159	4133 - Aspen, Mixed Pine	Sapling Medium	33.7	25	Immature	N/A	The stand was clearcut in 2000. There are numerous openings. The crown closure is now over 75%. The soil under the stand is Proper Sand.
162	3301 - Low Density Deciduous Trees	None	45.2			No	Saddler Creek flows through this stand. The creek has some beaver activity on it, causing it to have numerous open areas that are mainly marsh grass. The ash has mostly died off, leaving log sized red maple along the northern parameter. The center and the south end of the stand open and wet. There are some higher islands of low density trees mostly consisting of elm, muscle wood, black cherry, and red maple.
216	42290 - Natural Mixed Pine	Poletimber Well	4.5	50	141-170	N/A	The stand is well stocked with an even amount of red pine and white pine ranging from pole to Xlog sized, with pole sized bigtooth aspens mixed in. The western portion of the stand has larger diameter trees that are log sized on average. The eastern portion of the stand along the forest road contains smaller diameter trees that are pole sized on average. The soil under the stand is Mclvor Sand. This stand would benefit from a thinning.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
259	629 - Mixed non-forested Wetland	None	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.
400	3303 - Mixed Low Density Trees	None	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.