# **Compartment Review Presentation**

**Gladwin Forest Management Unit** 

Compartment 73144 Entry Year: 2027 Acreage: 2,731 County: losco

Management Area: Gladwin Lake Plain

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, redeyed 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:**

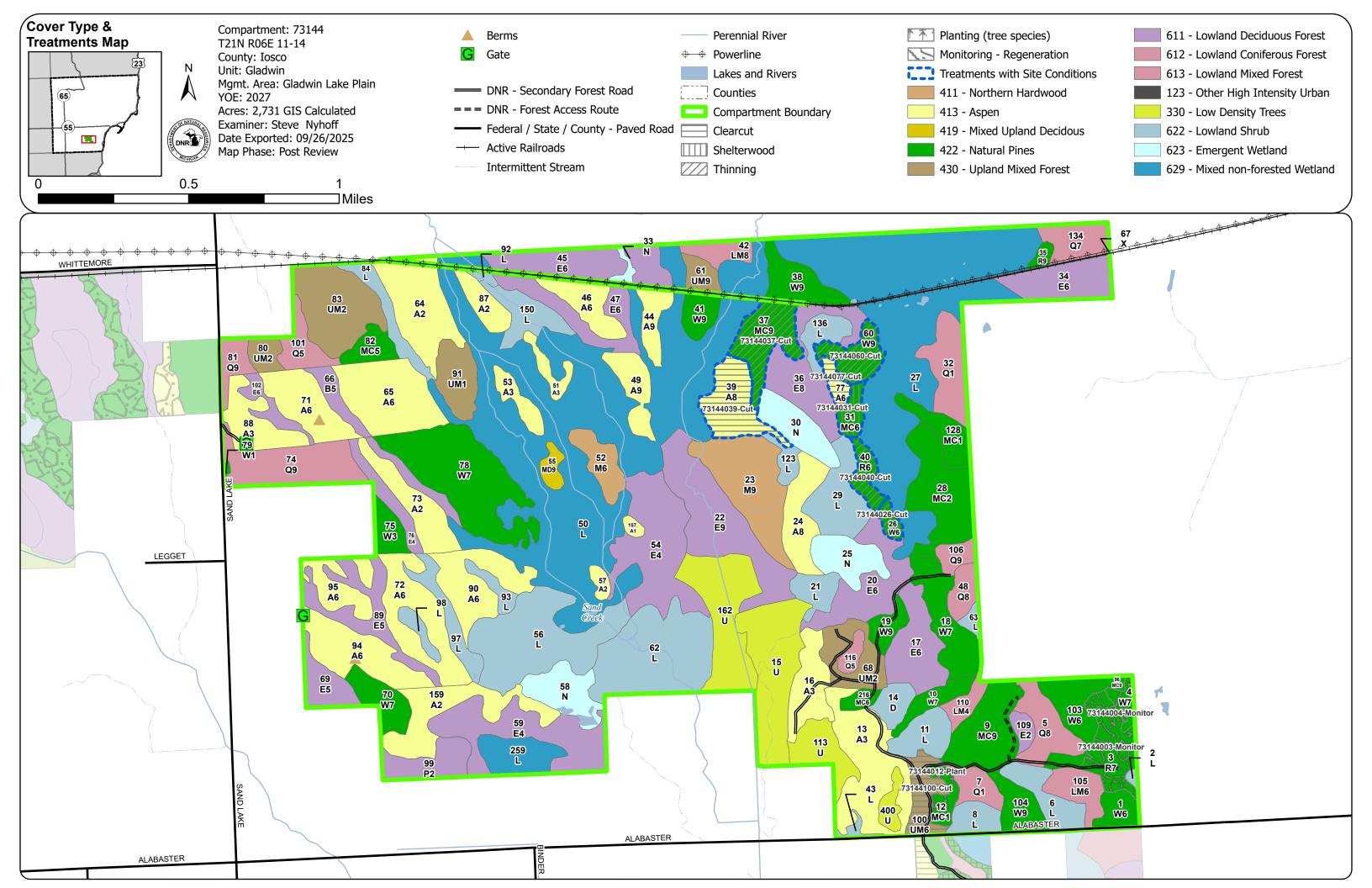
In addition, along the north edge of the compartment there is a major electric transmission line.

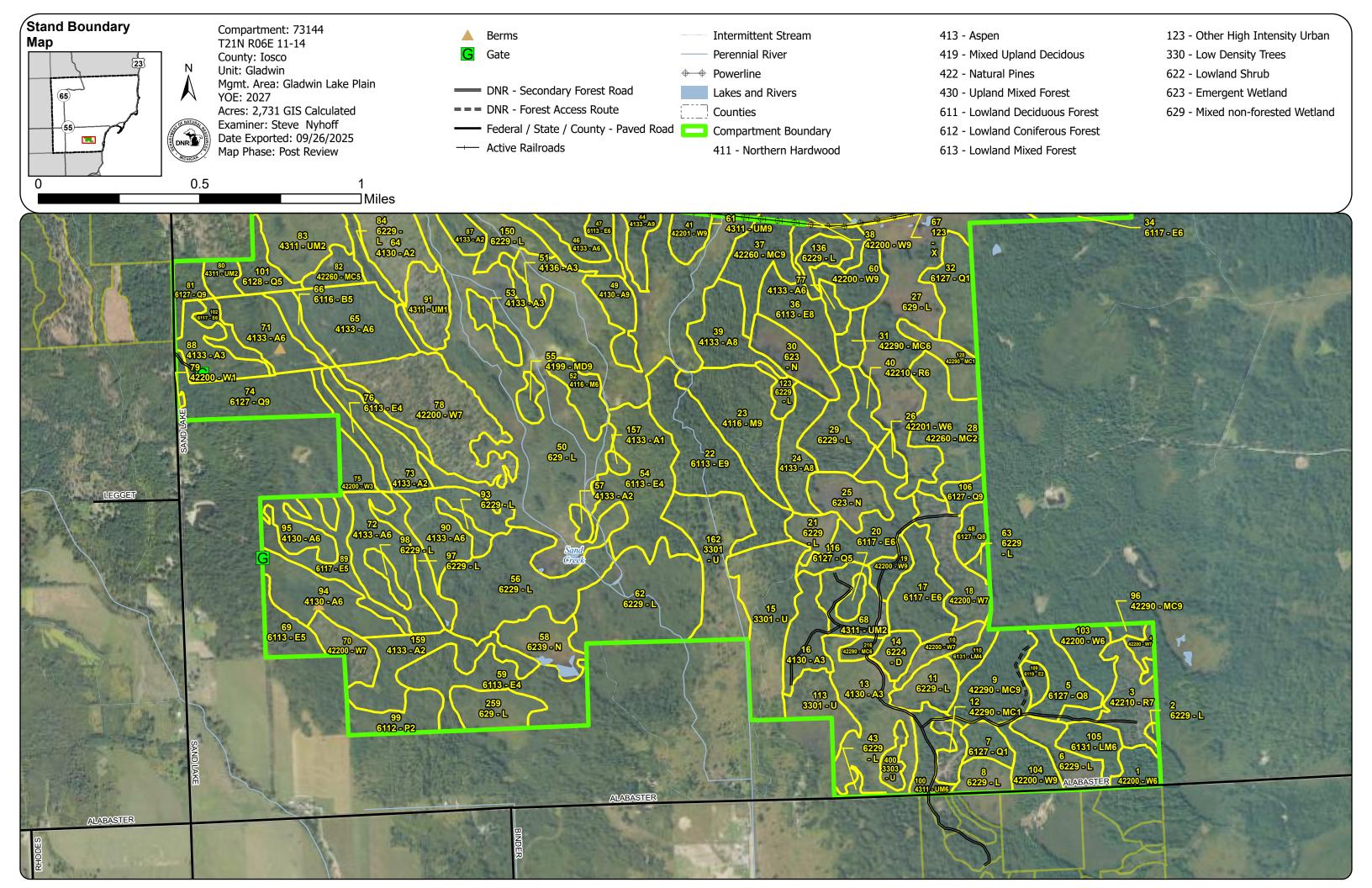
The following reports from the Inventory are attached:

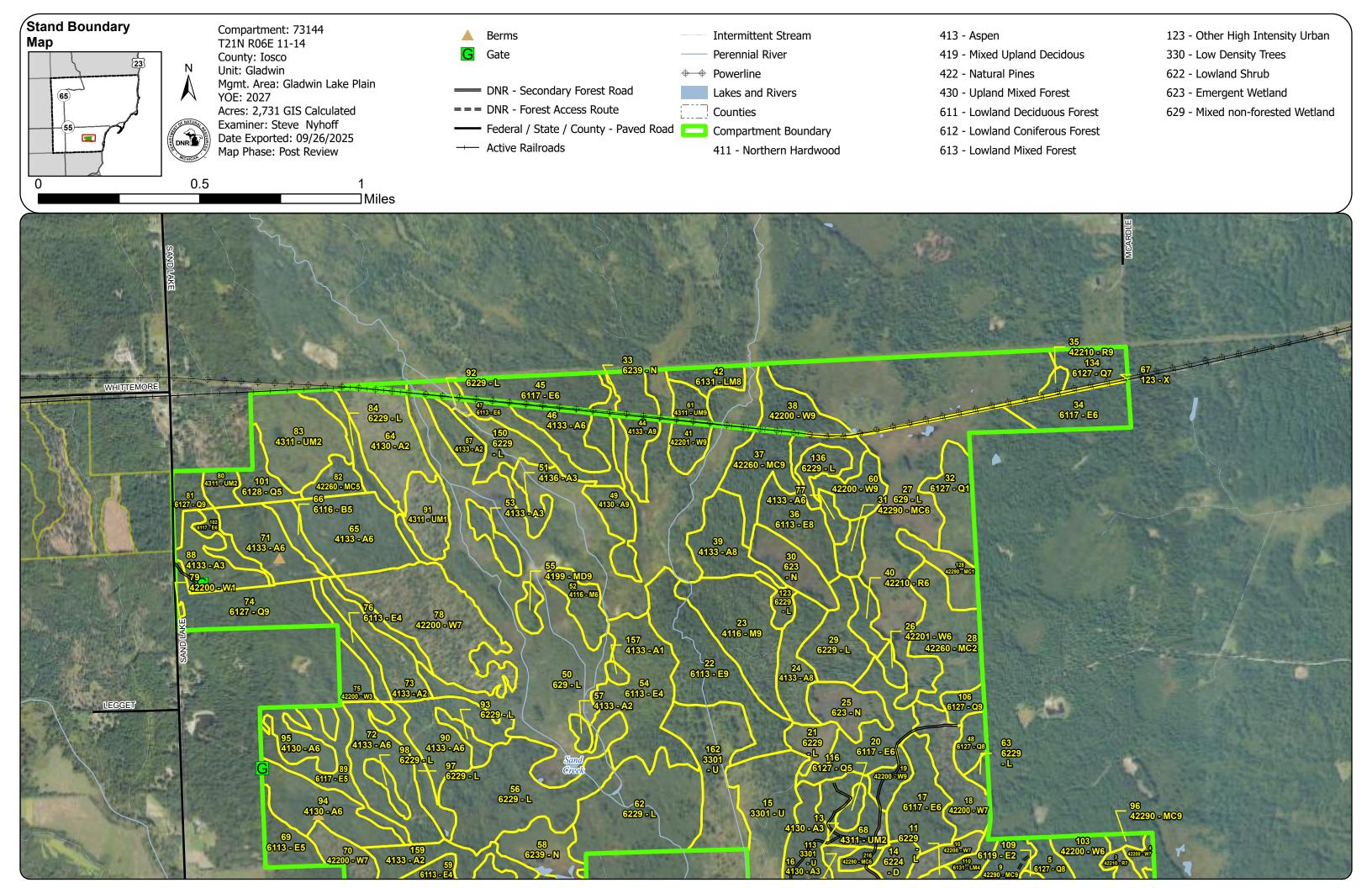
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

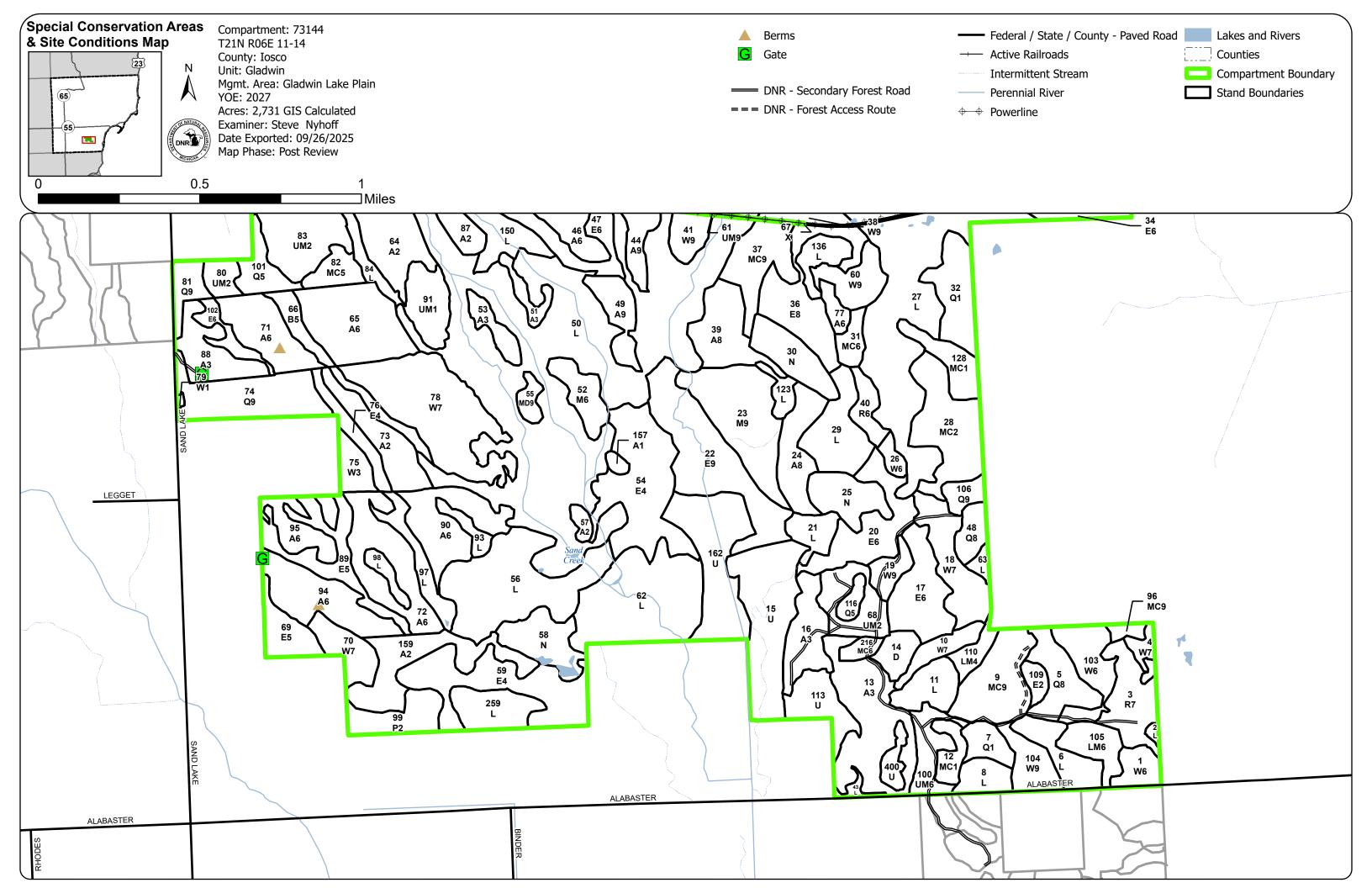
The following information is displayed, where pertinent, on the attached compartment maps:

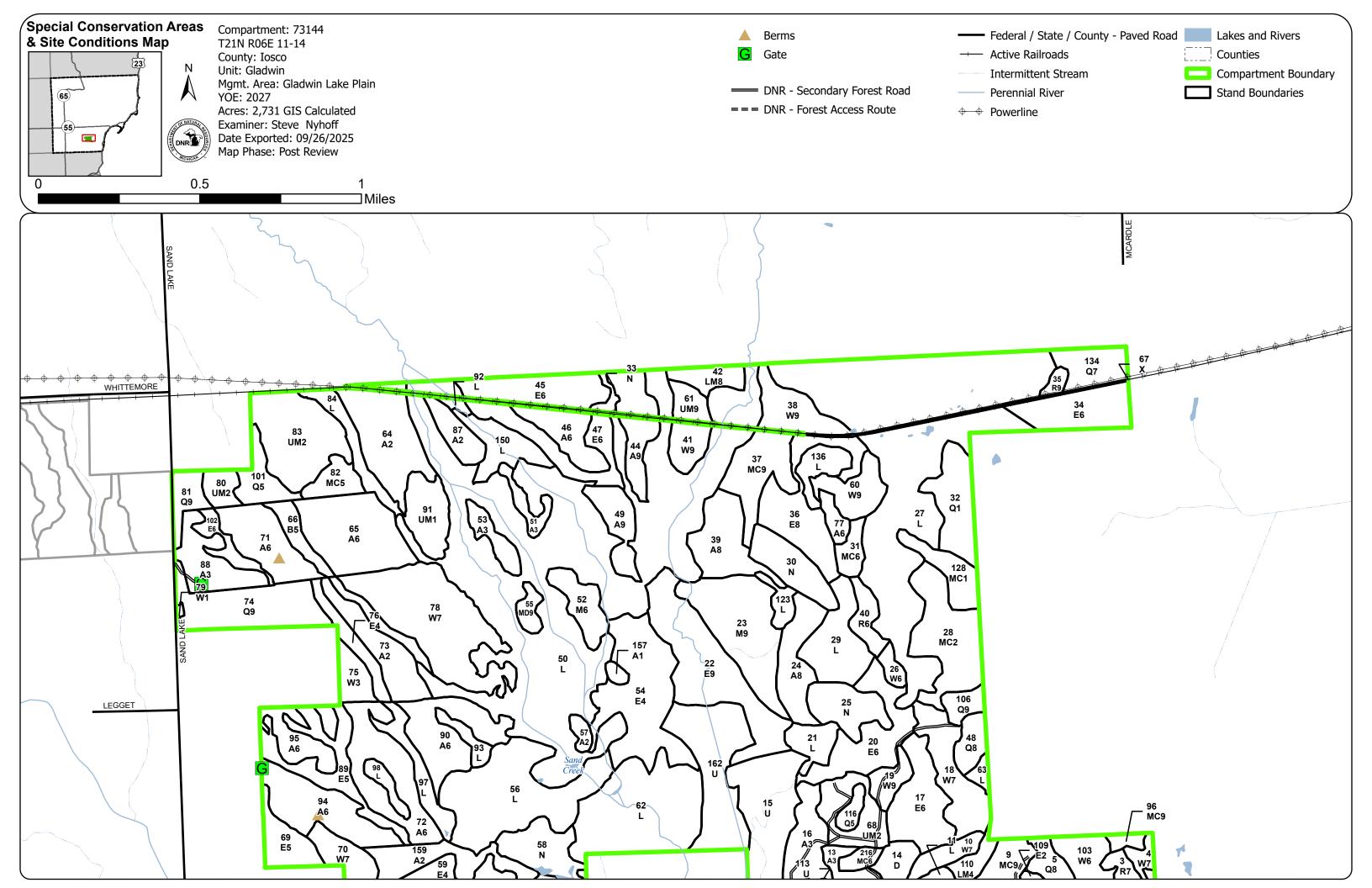
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system











Gladwin Mgt. Unit
Steve Nyhoff: Examiner

Age Class

	No.	KO C	3/2	\$ \ \$		3 / 1		3/8		R &			707	\$1 \display		\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No. of the second	*   July 1	To T
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**

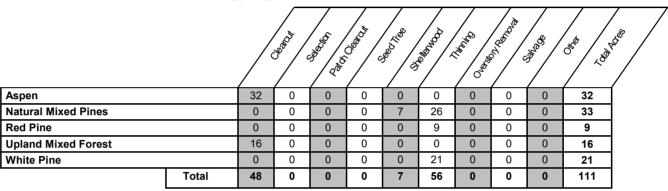
Gladwin Mgt. Unit Year of Entry: 2027

#### **Acres of Harvest**

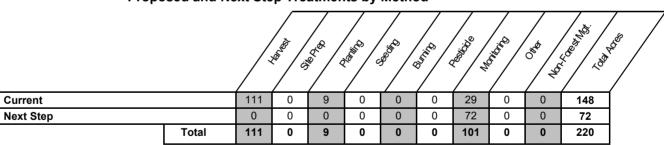
Compartment 144
Total Compartment Acres: 2,731

Commercial Harvest - 32 Harvests with Site Condition - 131 Next Step Harvest - 0 Habitat Cut - 0

### **Cover Type by Harvest Method**



#### **Proposed and Next Step Treatments by Method**



S t		Gladwi	n Mgt. Unit		Repo	rt 3 '	Treatments		Compartmen Year of Entr		
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habit Cut
orove 3	ed Treatmer 73144003-		42210 - Natural Rec	d 7	87	1-50	Monitoring	Monitoring -	42210 - Natural	Planting	No
	Monitor cription Interm		Pine ural regeneration su		01	1-30	Worldoning	Regeneration	Red Pine	Record	NC
	Step tments:										
Rege	en:	illy regener	rated stand of white	pine, red p	oine, and	d mixed d	eciduous meetii	ng minimum stocki	ng standards		
Othe Com	<u>r</u> ment:										
	Condition: osed Start Date	e: 10/01/2	026								
4	73144004- Monitor		42200 - Natural White Pine	7	121	1-50	Monitoring	Monitoring - Regeneration	42200 - Natural White Pine	Planting Record	No
Preso	cription Interm	ediate natı	ural regeneration รเ	ırvey.				J			
	Step_										
	t <u>ments:</u> ptable Natura	ıllv regenei	rated stand of white	e pine, red i	oine, and	d mixed d	eciduous meetir	ng minimum stocki	ng standards.		
Rege	<u>en:</u>	, 3									
Othe Com	<u>en:</u> <u>r</u> ment:	, ,									
Other Communication	en: r ment: Condition:										
Other Communication Site (	en: r ment: Condition: osed Start Date 73144012-	<u>9:</u> 10/01/2		1	30		Planting		4210 - Planted White Pine	Cutting Record	No
Site (	en: r ment: Condition: osed Start Date 73144012- Plant cription Plant v	2: 10/01/2 8.6 white pine i	026 42290 - Natural	1 ings to rest	ore the	Immatu re site back	Planting to a healthy sto	Planting (tree species) ck of mixed conifer	4210 - Planted White Pine ss. Stumps and top	Record	
Other Communication Site (Inc.) Property 12 Press Spectors	en: r ment: Condition: osed Start Date 73144012- Plant cription Plant v s: 100 wi	8.6  white pine i	2026 42290 - Natural Mixed Pine in illegal ORV open	1 ings to rest / entrances	ore the	Immatu re site back site. Plant	Planting to a healthy sto	Planting (tree species) ck of mixed conifer	4210 - Planted White Pine ss. Stumps and top	Record	
Site ( Proposition Site ( Proposition Site ( Proposition Site ( Press Special	en:  r ment:  Condition: osed Start Date  73144012- Plant cription ss: 100 wi Step Monito tments: ptable Mixed	2: 10/01/2 8.6 white pine i Il be used bring, Artific	026 42290 - Natural Mixed Pine in illegal ORV open to close illegal OR\	1 ings to rest / entrances ring, Artifici	ore the store this store this store the store	Immatu re site back site. Plant	Planting to a healthy sto	Planting (tree species) ck of mixed conifer	4210 - Planted White Pine ss. Stumps and top	Record	No le in star
Proposition of the control of the co	en: r ment: Condition: osed Start Date 73144012- Plant cription Plant v 100 wi Step Monito tments: ptable Mixed en: Start de	2: 10/01/2 8.6 white pine i Il be used bring, Artific	42290 - Natural Mixed Pine in illegal ORV open to close illegal OR\ cial Regen; Monitor o minimum stocking	1 ings to rest / entrances ring, Artifici standards	ore the sto this sto this sto this sto this storage	Immatu re site back site. Plant	Planting to a healthy sto ting should be a	Planting (tree species) ck of mixed conifer t 450 trees per acr	4210 - Planted White Pine rs. Stumps and top e.	Record	le in star
Site Of Proposition Propositio	en: r ment: Condition: osed Start Date 73144012- Plant cription Plant v is: 100 wi Step Monito tments: ptable Mixed en: r Start d	2: 10/01/2 8.6 white pine i Il be used bring, Artific conifers to	42290 - Natural Mixed Pine in illegal ORV open to close illegal OR\ cial Regen; Monitor o minimum stocking	1 ings to rest / entrances ring, Artifici standards	ore the sto this sto this sto this sto this storage	Immatu re site back site. Plant	Planting to a healthy sto ting should be a	Planting (tree species) ck of mixed conifer t 450 trees per acr	4210 - Planted White Pine rs. Stumps and top e.	Record	le in star

S		Gladwin	Mgt. Unit		Repoi	rt 3	Treatments		Compartme Year of Ent		
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

Total Treatment Acreage Proposed: 148.2

Gladwin Mgt. Unit

Steve Nyhoff: Examiner Year of Entry: 2027



Compartment: 144

Availa	ability for	Managemer	nt							
Total	Acres	Acres Avail	Acres	D	omina	nt Site	e Con	dition	s	
Acres	Available	With Condition	Not Available		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.

ond Availability	<b>Dominant Site Condition</b>	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
)		soils, does not include access issues)				

Gladwin Mgt. Unit
Steve Nyhoff: Examiner



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:						

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

# Gladwin Mgt. Unit Steve Nyhoff: Examiner



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



25	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
С	omments:						
28	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

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
Comments				

Report 7 - Stands Compartment: 144 Gladwin Mgt. Unit Year of Entry: 2027

Stan	d Level 4 C	over Type		Size Density	Acres Stand Age E	A Range	Managed S	Site	General Comments
1	42200 - Natu			Poletimber Well	10.0 31	81-110	N/A	4	The stand is hummocky. It was harvested by removing the hardwoods and leaving the pines. The harvest occurred in November
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species		Avg. Height	Size	2010 with the timber sale Alabaster Harvest; sale number 73-018-07-
	Red Pine	5	Seedling	9	Sheep Laurel	Full	5 - 10 feet	5 - 10 feet	01. The stand has 3 age classes. There is a super canopy of white
	White Pine	15		30 98	Red Maple	Medium	10 - 20 feet	10 - 20 feet	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
	White Pine	70	Seedling	9 31	Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet	a strong cohort of sapling sized white pine, red pines, aspen, and red
	Red Pine	10		18	White Pine	High	10 - 20 feet	10 - 20 feet	maple underneath. The soil under the stand is McIvor Sand.
					Huckleberry	High	5 - 10 feet	5 - 10 feet	
2	6229 - Mixed	Lowland S	hrub	None	1.3		No	)	This stand is a pocket of L-Type in a depression that goes from state
					Sub-Canopy Species	Density	Avg. Height	Size	land onto private. The soil is Wabun Muck. Mostly consisting of cat tails, tag alder, and marsh grass with white pine saplings scattered
					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 - Nat	tural Red P	ine	Sawtimber Poor	24.5 87	1-50	N/A	4	This stand was first thinned by removing the hardwood and some
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	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
	Jack Pine	2	Pole	4	Red Pine	Medium	10 - 20 feet	10 - 20 feet	pine in dense pockets in higher areas, with scarce regeneration in
	White Pine	38		12	Huckleberry	Medium	5 - 10 feet	5 - 10 feet	lower, wetter spots. The center of the stand is experiencing blowdown
	Red Pine	60		14 87	Sheep Laurel	High	5 - 10 feet	5 - 10 feet	losing some of the larger red pines and white pines, lowering the BA.
					White Pine	High	10 - 20 feet	10 - 20 feet	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
					Leatherleaf	Low	5 - 10 feet	5 - 10 feet	the stand is McIvor Sand. Passed minimum stocking for natural red
					Jack Pine	Low	10 - 20 feet	10 - 20 feet	pine during re-inventory.
					Red Maple	Low	10 - 20 feet	10 - 20 feet	
4	42200 - Natu	ural White F	Pine	Sawtimber Poor	4.5 121	1-50	N/A	4	The stand was harvested in November of 2010 with the timber sale
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	Alabaster Harvest; sale number 73-018-07-01. The stand is mostly Xlog sized white pines with quality red pine mixed in. Regeneration is
	Red Pine	38		16	Paper Birch	Low	>20 feet	>20 feet	poor, with just a few clusters. There is some mortality in the older,
	Red Maple	2	Pole	4	Red Pine	Medium	>20 feet	>20 feet	large diameter trees. Some split and some are blown over, lowering
	White Pine	60		28 121	Red Maple	Low	>20 feet	>20 feet	the BA. The soils are a mixture of McIvor Sand and Croswell-Proper Sand association.
					Sheep Laurel	Full	5 - 10 feet	5 - 10 feet	Cana association.
					White Pine	High	>20 feet	>20 feet	
					Huckleberry	Medium	5 - 10 feet	5 - 10 feet	
5	6127 - Lo	wland Pine	e S	awtimber Mediur	m 21.0 45	51-80	N/A	4	This area is fairly open and wet and it is mainly lowland shrub with
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	multiple small treed islands. Most of the islands are dominated with white pines and a couple of them are heavy to hardwoods. The white
	Red Pine	5	Seedling	7	Tag Alder	High	5 - 10 feet	5 - 10 feet	pines are squat and many of them have multiple leaders. The soil
	Red Maple	10		7	Michigan Holly	High	5 - 10 feet	5 - 10 feet	under the stand is Wabun Muck.
	Paper Birch	5	Sapling	5	White Pine	Medium	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	5	Sapling	6	Sheep Laurel	High	5 - 10 feet	5 - 10 feet	
	White Pine	75		12 45	Huckleberry	Medium	5 - 10 feet	5 - 10 feet	

									Year of Entry: 2027	
Stan	d Level 4 C	over Type		Size Density	Acres Stand Age BA	A Range	Managed \$	Site	General Comments	
6	6229 - Mixed	Lowland S	hrub	None	17.1		No	0	This stand is an L-Type of mainly tag alder, Michigan holly and white	
					Sub-Canopy Species	Density	Avg. Height	Size	pine saplings. The shrubs are mainly over marsh grass with a lot of standing water. The soil is Wabun Muck.	
					White Pine	Low	5 - 10 feet	5 - 10 feet	standing water. The son is wasair mask.	
					Tag Alder	Full	5 - 10 feet	5 - 10 feet		
7	6127 - Lo	owland Pine	e	Sapling Poor	9.9 25	1-50	N/A	A	The stand is seeding in from the surrounding stands. The site is low	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	and wet and is rather sparse. The white pines have significant weevil damage. The soil is McIvor Sand.	
	White Pine	75	Sapling	6 25	White Pine	Low	10 - 20 feet	10 - 20 feet	damage. The comic merror cana.	
	Paper Birch	5	Log	4	Huckleberry	High	5 - 10 feet	5 - 10 feet		
	Red Pine	20	Log	4	Red Pine	Low	10 - 20 feet	10 - 20 feet		
					Sheep Laurel	High	5 - 10 feet	5 - 10 feet		
					Paper Birch	Low	10 - 20 feet	10 - 20 feet		
					Tag Alder	High	5 - 10 feet	5 - 10 feet		
					Michigan Holly	Medium	5 - 10 feet	5 - 10 feet		
	6229 - Mixed	L owland S	hrub	None	10.5		No	0	The soil under the stand is Wabun Muck. The shrubs and trees	
8	0220 1111/104	Lowiana o	iiidb	140110	10.0				seemed to have been dwarfed because of the water. Mostly whi	
8	OLLO MINOG	Lowiand o	TH GB	Tione	Sub-Canopy Species	Density	Avg. Height	Size	seemed to have been dwarfed because of the water. Mostly white pine	
ŏ	OZZO WINGO	Lowiana o	TH GD	Trong		<b>Density</b> High	Avg. Height	Size Not Applicable	seemed to have been dwarfed because of the water. Mostly white pine saplings, marsh grass and cattails.	
8	ozzo mixeu	Lowiana o	THUS		Sub-Canopy Species		Avg. Height		seemed to have been dwarfed because of the water. Mostly white pine saplings, marsh grass and cattails.	
9	42290 - Natu			Sawtimber Well	Sub-Canopy Species Common Cattail White Pine	High	Avg. Height Not Applicable	Not Applicable 10 - 20 feet	seemed to have been dwarfed because of the water. Mostly white pine saplings, marsh grass and cattails.  This stand was thinned by having the hardwood removed. The stand	
		ural Mixed F			Sub-Canopy Species Common Cattail White Pine	High Low	Avg. Height Not Applicable 10 - 20 feet	Not Applicable 10 - 20 feet	seemed to have been dwarfed because of the water. Mostly white pine saplings, marsh grass and cattails.  This stand was thinned by having the hardwood removed. The stand has regenerated well and now includes 2 size classes, with log/pole	
	42290 - Natı	ural Mixed F	Pine S	Sawtimber Well	Sub-Canopy Species  Common Cattail  White Pine  32.2 70	High Low	Avg. Height Not Applicable 10 - 20 feet N/A	Not Applicable 10 - 20 feet	seemed to have been dwarfed because of the water. Mostly white pine saplings, marsh grass and cattails.  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	
_	42290 - Natu Canopy Species	ural Mixed F <b>% Cover</b>	Pine Size Class	Sawtimber Well  DBH Age	Sub-Canopy Species  Common Cattail  White Pine  32.2 70  Sub-Canopy Species	High Low 171-200 Density	Avg. Height Not Applicable 10 - 20 feet N/A Avg. Height	Not Applicable 10 - 20 feet  A  Size	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	
	42290 - Natu Canopy Species Paper Birch	ural Mixed F <b>% Cover</b> 2	Pine Size Class Sapling	Sawtimber Well  DBH Age 6	Sub-Canopy Species Common Cattail White Pine  32.2 70 Sub-Canopy Species White Pine	High Low 171-200  Density  Medium	Avg. Height Not Applicable 10 - 20 feet  N/A  Avg. Height 10 - 20 feet	Not Applicable 10 - 20 feet  A  Size 10 - 20 feet	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	
_	42290 - Natu Canopy Species Paper Birch Bigtooth Aspen	ural Mixed F % Cover 2 2	Pine Size Class Sapling	Sawtimber Well  DBH Age  6  8	Sub-Canopy Species  Common Cattail  White Pine  32.2 70  Sub-Canopy Species  White Pine  Leatherleaf	High Low 171-200 Density Medium Medium	Avg. Height Not Applicable 10 - 20 feet  N/A  Avg. Height 10 - 20 feet 5 - 10 feet	Not Applicable 10 - 20 feet  A  Size 10 - 20 feet 5 - 10 feet	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	
_	42290 - Natu Canopy Species Paper Birch Bigtooth Aspen White Pine	wral Mixed F  Cover  2 2 45	Pine Size Class Sapling Seedling	Sawtimber Well  DBH Age 6 8 12 70	Sub-Canopy Species  Common Cattail  White Pine  32.2 70  Sub-Canopy Species  White Pine  Leatherleaf  Huckleberry	High Low  171-200  Density Medium Medium High	Avg. Height Not Applicable 10 - 20 feet  N/A  Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet	Not Applicable 10 - 20 feet  A  Size 10 - 20 feet 5 - 10 feet 5 - 10 feet	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	
_	42290 - Natu Canopy Species Paper Birch Bigtooth Aspen White Pine Red Maple	ural Mixed F % Cover 2 2 45 2	Pine Size Class Sapling Seedling	Sawtimber Well  DBH Age 6 8 12 70 6	Sub-Canopy Species  Common Cattail  White Pine  32.2 70  Sub-Canopy Species  White Pine  Leatherleaf  Huckleberry  Black Spruce	High Low  171-200 Density Medium Medium High Medium	Avg. Height Not Applicable 10 - 20 feet  N/A  Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet >20 feet	Not Applicable 10 - 20 feet  A  Size 10 - 20 feet 5 - 10 feet 5 - 10 feet >20 feet	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	
_	42290 - Natu Canopy Species Paper Birch Bigtooth Aspen White Pine Red Maple Red Pine	ural Mixed F  % Cover 2 2 45 2 45	Pine Size Class Sapling Seedling Sapling	Sawtimber Well	Sub-Canopy Species Common Cattail White Pine 32.2 70 Sub-Canopy Species White Pine Leatherleaf Huckleberry Black Spruce Red Maple	High Low  171-200  Density Medium Medium High Medium Low	Avg. Height Not Applicable 10 - 20 feet  N/A  Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet > 20 feet > 20 feet	Not Applicable 10 - 20 feet  A  Size 10 - 20 feet 5 - 10 feet 5 - 10 feet >20 feet >20 feet	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	
	42290 - Natu Canopy Species Paper Birch Bigtooth Aspen White Pine Red Maple Red Pine	ural Mixed F % Cover 2 2 45 2 45 45 4	Pine Size Class Sapling Seedling Sapling Sapling	Sawtimber Well	Sub-Canopy Species  Common Cattail  White Pine  32.2 70  Sub-Canopy Species  White Pine  Leatherleaf  Huckleberry  Black Spruce  Red Maple  Sheep Laurel	High Low  171-200  Density Medium Medium High Medium Low High	Avg. Height Not Applicable 10 - 20 feet  N/A  Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet >20 feet >20 feet >10 feet >20 feet	Not Applicable 10 - 20 feet  A  Size 10 - 20 feet 5 - 10 feet 5 - 10 feet >20 feet >20 feet >20 feet >20 feet >20 feet	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	

Medium

Low

Full

Medium

Low

Red Maple

White Pine

Red Pine

Sheep Laurel

Bigtooth Aspen

5 - 10 feet

< 5 feet

< 5 feet

5 - 10 feet

5 - 10 feet

Red Pine

White Pine

25

75

14

14 60 5 - 10 feet

< 5 feet

< 5 feet

5 - 10 feet

5 - 10 feet

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.

Compartment: 144

Acres Stand Age BA Range Stand **Level 4 Cover Type** Size Density **Managed Site General Comments** 6229 - Mixed Lowland Shrub None 15.4 No The stand was an old beaver flooding. It is currently alder over marsh 11 grass. There are some snags still hanging on, but most have come Size **Sub-Canopy Species** Density Ava. Height down. The soil under the stand is Kenotin Muck. 5 - 10 feet Leatherleaf 5 - 10 feet Hiah 5 - 10 feet Deciduous Shrubs Hiah 5 - 10 feet Tag Alder High 5 - 10 feet 5 - 10 feet 12 42290 - Natural Mixed Pine Sapling Poor 30 N/A This stand is on Udipcumments soil and is heavily disturbed by ORV 8.6 **Immature** traffic. Currently a good portion of the stand is bare sand, grass, and **DBH Age Canopy Species** % Cover Size Class **Sub-Canopy Species** Ava. Heiaht Size Density knapweed. There is also a pocket of Pragmities in the stand. The site White Pine 45 5 30 5 - 10 feet 5 - 10 feet Sapling Willow spp. Low shows signs of healing but there's still signs of activity here. Access to this site should be blocked to promote healing. 20 Pole 4 Red Pine Red Pine 5 - 10 feet 5 - 10 feet Low Jack Pine 35 Pole 4 White Pine Low 5 - 10 feet 5 - 10 feet Jack Pine Iow 5 - 10 feet 5 - 10 feet 4130 - Aspen Sapling Well 48.8 5 **Immature** N/A The stand is regenerating well with mainly bigtooth aspen with pockets 13 of trembling aspen and red maple. The stand met minimum stocking. DBH Age **Canopy Species** % Cover Size Class **Sub-Canopy Species** Size Density Avg. Height The soil under the stand is McIvor Sand. The terrain is hummocky. Quaking Aspen 30 Log Serviceberry (Juneberry) Low 5 - 10 feet 5 - 10 feet The stand was harvested in Sand Hill Harvest in summer of 2020. The sale # is 73-008-17. 60 1 5 - 10 feet Biatooth Aspen Log 5 Sheep Laurel Medium 5 - 10 feet Choke Cherry 5 1 Log 5 1 Red Maple Log 6224 - Treed Bog None 9.2 No This stand is originally a beaver flooding but has drained down. It has 14 very few snags. Some areas along the southern edge are now Size **Sub-Canopy Species** Density Avg. Height growing paper birch, black spruce, and a few white pines. The growth White Pine Low 5 - 10 feet 5 - 10 feet 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. 5 - 10 feet Tag Alder Medium 5 - 10 feet Leatherleaf High 5 - 10 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet Paper Birch Low 3301 - Low Density Deciduous Trees 15 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 Size **Sub-Canopy Species** Density Avg. Height impassable thicket of tag alder, American elm, and red maple. The >20 feet >20 feet Red Maple Low 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 American Elm Medium 10 - 20 feet 10 - 20 feet with very few trees. The north end of the stand is trees and has Blackberry/Raspberry 5 - 10 feet 5 - 10 feet Low about a 50% crown closure. Mostly red maple with some quaking 5 - 10 feet Tag Alder High 5 - 10 feet aspen. 5 - 10 feet 5 - 10 feet Michigan Holly Low 4130 - Aspen Sapling Well 21.9 27 **Immature** N/A The stand has regenerated well and is on its way to becoming a pole 16 sized stand. The terrain is slightly hummocky and made up of ridges **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Avg. Height Size and swells. The soil is mainly McIvor Sand. Quaking Aspen 6 27 Paper Birch 10 - 20 feet 10 - 20 feet 45 Sapling Low 6 27 Bigtooth Aspen 45 Sapling Bigtooth Aspen Medium 10 - 20 feet 10 - 20 feet 5 Paper Birch Pole 4 Quaking Aspen Medium 10 - 20 feet 10 - 20 feet Red Maple 5 Pole 4 White Pine Low 5 - 10 feet 5 - 10 feet

Medium

5 - 10 feet

5 - 10 feet

Blackberry/Raspberry

Compartment: 144

	nd Level 4 Cover Type										
Stand			Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments	
17	6117 - Lowland Con	Deciduous, iferous	Mixed	Poletimb	er Well	29.2	65	81-110	N/A	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
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	islands. The aspen and birch are declining, and the ash has completely died off. The stand lies between two ridges and is low and
	White Pine	30		26	105	Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	wet with areas of standing water. There is a super canopy of Xlog
	Red Pine	5		19		She	ep Laurel	High	5 - 10 feet	5 - 10 feet	white pine and red pine seen mostly in the center of the stand in
	Red Maple	50		9	65	WI	nite Pine	Full	10 - 20 feet	10 - 20 feet	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 re
	Quaking Aspen	10		13				,			maple and other hardwoods, with a thick white pine sapling
	Paper Birch	5	Seedling	7							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 McIvor Sand.
18	42200 - Nati	ural White F	Pine	Sawtimb	er Poor	27.4	64	1-50	N/A	٨	This stand was thinned in 1999 having some of the larger overstory
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	trees removed. This resulted in stand gaps. The gaps then regenerated with white pine. The stand was then harvested in Sand
	Red Pine	25		16		Wh	nite Pine	High	>20 feet	>20 feet	Hill Harvest in the summer of 2020. The cut retained 10-20 BA of
	White Pine	75		16	64	Re	d Maple	Low	>20 feet	>20 feet	sawlog red and white pine. Also, the pine less than 4 inches DBH
						She	ep Laurel	Medium	5 - 10 feet	5 - 10 feet	were retained. This stand is now moving toward a multi age structure. Currently there is the residual sawlogs, areas of advance
						Decidu	ious Shrubs	Medium	5 - 10 feet	5 - 10 feet	regeneration, and the open areas from the last harvest that are
						R	ed Pine	Medium	>20 feet	>20 feet	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
19	42200 - Natı	ural White F	Pine	Sawtimb	er Well	8.6	130	171-200	N/A	<u> </u>	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 McIvor Sand.  This stand sits on a ridge and was thinned in 1998. There is a super
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	canopy of log/Xlog white pine and red pine. Regeneration has come i
	Red Pine	25	OIZC OIGGS	16	Agu		per Birch	Low	10 - 20 feet	10 - 20 feet	strong, with mostly pole/sapling sized white pine, bigtooth aspen, and red maple in the sub canopy. There are good quality pole sized
	White Pine	75		22	130		oth Aspen	Medium	>20 feet	>20 feet	bigtooth aspen along the eastern stand boundary, and along the forest
							nite Pine	High	>20 feet	>20 feet	road. Regeneration is strong, with a seedling layer of white pines
						Re	d Maple	Medium	>20 feet	>20 feet	found mostly in the center of the stand. The BA is about 175.
20	6117 - Lowland Con	Deciduous, iferous	Mixed	Poletimb	er Well	31.2	50	111-140	N/A	1	The ash has completely died off. The stand grades from E6 to A2/L with a drainage along the east side. The soil is McIvor Sand under the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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,
	Red Maple	20		8		WI	nite Pine	High	10 - 20 feet	10 - 20 feet	containing most of the bigtooth aspen is with some white pines. I
	Balsam Fir	5	Sapling	6		Wir	ntergreen	Full	5 - 10 feet	5 - 10 feet	would leave the northeastern and southwestern portions of the stand
	Bigtooth Aspen	35	Seedling	8	50	Ва	lsam Fir	High	5 - 10 feet	5 - 10 feet	out of the harvest because the ground gets lower and contains pockets of standing water, containing mostly white pines, balsam fir,
	White Pine	35		10	50	She	ep Laurel	Full	5 - 10 feet	5 - 10 feet	and red maple. The BA is about 130.
21	6229 - Mixed	Lowland S	hrub	Nor	ne	10.7			No	ı	This stand is predominately marsh grass and tag alder.
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
											4

5 - 10 feet

Full

5 - 10 feet

Tag Alder

Compartment: 144

Stand Size Density **General Comments** Level 4 Cover Type Acres Stand Age BA Range Managed Site 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 22 depressions. The trees are very large in diameter and many have % Cover Size Class Size **Canopy Species DBH Age Sub-Canopy Species** Density Ava. Heiaht cavities. They have large fluted butts and a shallow root system. 10 - 20 feet Black Cherry 10 - 20 feet Green Ash Seedling Low 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 1 8 10 - 20 feet Black Cherry Seedling Green Ash Low 10 - 20 feet west side of the stand and it has a defined bed and bank. It is only Red Maple 95 22 121 Musclewood/Hornbeam Medium 10 - 20 feet 10 - 20 feet about 6-12" below the grade of the stand. The soil under the stand is 2 14 Low >20 feet Bigtooth Aspen Red Maple >20 feet McIvor-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 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. Canopy Species % Cover Size Class **DBH Age Sub-Canopy Species** Density Ava. Heiaht Size Some of the damage is new but there is a fair amount of older Paper Birch 2 Seedling 6 White Pine 10 - 20 feet 10 - 20 feet Low 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 5 - 10 feet Green Ash 5 Seedling 8 Michigan Holly Low 5 - 10 feet Proper Sand. 5 - 10 feet 15 10 5 - 10 feet Bigtooth Aspen Serviceberry (Juneberry) Low Quaking Aspen 15 10 Musclewood/Hornbeam Medium 10 - 20 feet 10 - 20 feet 3 White Pine Seedling 6 Tag Alder Medium 5 - 10 feet 5 - 10 feet 60 14 95 5 - 10 feet Red Maple Wintergreen Full 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 **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Avg. Height Size aspen that has a lot of rot. The aspen and birch are declining. The Bigtooth Aspen 60 11 105 Huckleberry High 5 - 10 feet 5 - 10 feet 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 5 8 Red Maple White Pine Medium 10 - 20 feet 10 - 20 feet contains mostly aspen. The north end of the stand is the most dense Red Pine 15 12 Sheep Laurel Full 5 - 10 feet 5 - 10 feet and contains mostly conifers. 15 12 White Pine Red Pine Low 10 - 20 feet 10 - 20 feet Paper Birch 5 8 Seedling 623 - Emergent Wetland 19.0 Nο This area is an old beaver flooding. It is still holding water. None 25 **Sub-Canopy Species** Density Avg. Height Size White Pine Hiah 5 - 10 feet 5 - 10 feet Balsam Fir High 5 - 10 feet 5 - 10 feet Common Cattail Full Not Applicable Not Applicable 42201 - Natural White Pine, Mixed Poletimber Well 44 65 171-200 N/A This stand is on a Croswell Sand ridge. It has some larger Xlog sized 26 Deciduous white pines that are much older than the 55 year old understory (dominant size class). The aspen are declining. % Cover Size Class **DBH Age** Size **Canopy Species Sub-Canopy Species** Density Avg. Height 5 - 10 feet Red Maple 15 10 Huckleberry High 5 - 10 feet White Pine 70 9 65 >20 feet >20 feet White Pine Medium

High

Hiah

5 - 10 feet

5 - 10 feet

5 - 10 feet

5 - 10 feet

15

11

Wintergreen

Sheep Laurel

Bigtooth Aspen

Compartment: 144

Stand	Level 4 C	over Type		Size De	ensity	Acres Stand Age Ba	A Range	Managed S	Site	General Comments
27	629 - Mixed non	-forested \	Wetland	No	ne	191.5		No	)	This stand is a large wetland with active beavers, and several beaver
						Sub-Canopy Species	Density	Avg. Height	Size	lodges. The stand consists of standing water, treed islands, cattails and marsh grass wetland, and lowland shrubs. The best description of
						Common Cattail	Medium	Not Applicable	Not Applicable	the stand is mixed non-forested wetlands. The soil under it is mainly
						White Pine	Medium	>20 feet	>20 feet	Wabun Muck.
						Red Maple	Low	>20 feet	>20 feet	
						Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
28	42260 - Natural Pi	ne, Mixed I	Deciduous			38.8 14 li	mmature	N//	4	The stand is hummocky. It was harvested in the fall of 2010. The
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	timber sale was Alabaster Harvest; sale 73-018-07-01. The regeneration of deciduous trees is patchy from the original harvest.
	White Pine	45	Log	2	14	Sheep Laurel	High	5 - 10 feet	5 - 10 feet	Over the last 10 years the stand has seeded in. It now has a medium
	Quaking Aspen	30	Log	2	14	Tag Alder	Low	5 - 10 feet	5 - 10 feet	stocking of pines. The pines are a mix of red and white pine, and they
	Red Pine	25	Log	2	14		'		1	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
										McIvor Sand.
29	6229 - Mixed	Lowland S	Shrub	No	ne	26.3		No	)	The stand sits in a low depression. It is variable but overall the stand
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	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
	White Pine	32		8		Sheep Laurel	Full	5 - 10 feet	5 - 10 feet	showing signs of significant rot. The stand is too wet to harvest also
	Paper Birch	13	Seedling	6		Tag Alder	Full	5 - 10 feet	5 - 10 feet	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
	Red Maple	40	Seedling	8	95	White Pine	Low	>20 feet	>20 feet	lowland shrub containing tag alder, and a few pole sized red maple,
						Red Maple	Medium	>20 feet	>20 feet	paper birch, and white pine.
						Paper Birch	Low	>20 feet	>20 feet	
						Michigan Holly	High	5 - 10 feet	5 - 10 feet	
30	623 - Emer	gent Wetla	and	No	ne	19.6		No	)	The stand is a bever pond and there are signs of activity including
						Sub-Canopy Species	Density	Avg. Height	Size	never trails in the snow. The site is mostly tag alder and marsh grasses.
						Michigan Holly	Low	5 - 10 feet	5 - 10 feet	grasses.
						Tag Alder	High	5 - 10 feet	5 - 10 feet	
						Willow spp.	Low	5 - 10 feet	5 - 10 feet	
31	42290 - Natu	· Natural Mixed Pine Poletimber We		er Well	7.4 95	111-140	N//	Α	The stand runs on a ridge along stand 27. The soil under the stand is	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	Proper Sand. The trees in this stand are somewhat scattered and in pockets. The terrain is hummocky. The aspen is in poor shape having
	Jack Pine	2	Sapling	6		Sheep Laurel	High	5 - 10 feet	5 - 10 feet	evidence of significant rot. The crown closure is closer to 75%. The
	Red Maple	6		9		Huckleberry	Medium	5 - 10 feet	5 - 10 feet	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
	Bigtooth Aspen	20		11		Michigan Holly	Low	5 - 10 feet	5 - 10 feet	tend of the stand. The aspen, birch, and jack pine are declining. Some of the trees have been felled by beavers. Regeneration is low. There
	Red Pine	35		9	95	White Pine	Low	10 - 20 feet	10 - 20 feet	are burned stumps indicating at least a small intensity fire passed
	Paper Birch	2	Seedling	6		Red Pine	Low	10 - 20 feet	10 - 20 feet	through this stand at one point.
									· · · · · · · · · · · · · · · · · · ·	

White Pine

35

95

11

Compartment: 144

	tand Level 4 Cover Type Size Dens				Size Density Acres Stand Age BA Range Managed Site						Year of Entry: 2027	
Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments	
32	6127 - Lo	owland Pine	•	Sapling	Poor	24.1	14 I	mmature	N/A	A	The ground is hummocky with ridges of pines and lowland shrub	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	draws. It was harvested in the fall of 2010. The timber sale was Alabaster Harvest; sale 73-018-07-01. The red maple retention	
	Red Pine	40	Log	2	14	Тад	g Alder	Trace	5 - 10 feet	5 - 10 feet	pockets are small and scattered around the stand. Over the last 10	
	White Pine	40	Pole	2	14						years pines have been seeding into the stand. The soil is McIvor Sand	
	Red Maple	15	Log	2								
	Quaking Aspen	5	Log	2								
33	6239 - Mixed E	mergent W	etland	Nor	ie	2.7			No	)	This stand is a drain through stand 45 that used to be ash dominated.	
						Sub-Can	opy Species	Density	Avg. Height	Size	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	
						Whi	te Pine	Low	10 - 20 feet	10 - 20 feet	south end of the stand is mostly open wetland.	
						Red	l Maple	Low	10 - 20 feet	10 - 20 feet		
						Catt	ail spp.	Medium	Not Applicable	Not Applicable		
34	6117 - Lowland Con	Deciduous, iferous	Mixed F	Poletimb	er Well	25.4	50	111-140	N/A	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	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	are holding water. The soil is McIvor Sand. The ash has died off completely. The west and north boundaries of the stand is where you	
	Jack Pine	5	Seedling	7		Wille	ow spp.	Low	5 - 10 feet	5 - 10 feet	can find the conifers where it's dryer, they range from pole to Xlog.	
	Paper Birch	5	Seedling	7		Red	l Maple	High	>20 feet	>20 feet	The rest of the stand is dense pole/sapling sized maple and other	
	White Pine	15		16		Hucl	kleberry	Low	5 - 10 feet	5 - 10 feet	hardwoods where it's wetter.	
	Red Maple	40	Sapling	6	50	Re	d Pine	Low	10 - 20 feet	10 - 20 feet		
	Red Pine	15		18		Та	g Alder	Low	5 - 10 feet	5 - 10 feet		
	Quaking Aspen	20	Seedling	8		Whi	te Pine	Medium	10 - 20 feet	10 - 20 feet		
35	42210 - Na	tural Red Pi	ine S	Sawtimb	er Well	2.9	77	201+	N/A	4	This stand is a pocket of good quality red pine and white pine that	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	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	
	Red Pine	74		12	77	Shee	p Laurel	Low	5 - 10 feet	5 - 10 feet	access through the private land. The soil is McIvor Sand.	
	Red Maple	2	Seedling	8		Hucl	kleberry	Low	5 - 10 feet	5 - 10 feet		
	Jack Pine	2	Seedling	8		Whi	te Pine	Low	< 5 feet	< 5 feet		
	White Pine	20		17							-	
	Quaking Aspen	2	Seedling	6								
36	6113 - Lo	wland Mapl	e Sa	awtimber	Medium	34.4	105	81-110	N/A	A	The soil under the stand is McIvor Sand. The terrain is hummocky.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	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	
	Red Maple	60		10	105	Michi	gan Holly	High	5 - 10 feet	5 - 10 feet	are declining. The stand has many pockets of standing water and is	
	White Pine	25		12		Shee	p Laurel	Full	< 5 feet	< 5 feet	too wet to manage. There is a strong layer of sapling and seedling	
	Paper Birch	5	Seedling	8		Tac	Alder	High	5 - 10 feet	5 - 10 feet	white pine, indicating that white pine will be a larger component in the	

High

Medium

High

Low

10 - 20 feet

10 - 20 feet

< 5 feet

10 - 20 feet

10 - 20 feet

< 5 feet

Paper Birch

Quaking Aspen

Seedling

10

Tag Alder

White Pine

Red Maple

Huckleberry

10

closer to 75%.

stand in the future. The BA is about 100, and the Canopy cover is

Compartment: 144

		wor Typo					•			Year of Entry: 2027
Stand	Level 4 Co	over Type		Size De	ensity	Acres Stand Age	BA Range	Managed \$	Site	General Comments
37	42260 - Natural Pir	ne, Mixed D	eciduous	Sawtimb	er Wel	I 25.8 70	141-170	N/A	A	This stand is variable with pockets of thick white pine and some areas having more hardwoods. The ground is slightly hummocky The soil
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Canopy Specie	es Density	Avg. Height	Size	under the stand is Proper Sand. The aspen and jack pine are
	White Pine	50		14	70	White Pine	High	>20 feet	>20 feet	declining. The BA is about 160. The stand sits on a ridge and is
	Jack Pine	5		10		Red Pine	Low	>20 feet	>20 feet	mostly harvestable other than the scattered pockets of lowland.
	Bigtooth Aspen	15		12		Sheep Laurel	Full	5 - 10 feet	5 - 10 feet	
	Paper Birch	5	Seedling	9						
	Red Maple	10	Seedling	8						
	Red Pine	15		14						
38	42200 - Natu	ıral White F	Pine	Sawtimb	er Wel	l 19.2 78	111-140	N//	A	The soil under the stand is Proper Sand. The terrain is hummocky.
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Canopy Specie	es Density	Avg. Height	Size	White pine is growing thickly in the open areas. Because of gap dynamics there are multiple age classes in the stand. The White pine
	White Pine	60		12	78	Huckleberry	Medium	< 5 feet	< 5 feet	DBH goes from 1-24", Red pine DBH goes from1-22", and oak DBH
	Red Maple	8		12		White Pine	High	10 - 20 feet	10 - 20 feet	goes from 6-10".
	Paper Birch	2	Seedling	8		Tag Alder	Low	5 - 10 feet	5 - 10 feet	
	Red Pine	20		10		Sheep Laurel	Medium	< 5 feet	< 5 feet	
	Bigtooth Aspen	5		14		Red Pine	Medium	10 - 20 feet	10 - 20 feet	
Blad	ck/Red (Hybrid) Oak	5	Seedling	9			1		<u>'</u>	-
39	4133 - Aspe	n, Mixed Pi	ine S	Sawtimbe	r Mediu	ım 26.2 95	111-140	N/A	A	The aspen and birch are declining. Access to the stand is difficult. The
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Canopy Specie	es Density	Avg. Height	Size	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
	Bigtooth Aspen	60		14	95	Serviceberry (Juneberr	ry) Trace	5 - 10 feet	5 - 10 feet	seedling understory, which may indicate that the stand may convert to
	White Pine	24		10		Wintergreen	Full	5 - 10 feet	5 - 10 feet	natural white pine with time.
	Yellow Birch	1	Seedling	6		Tag Alder	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	5	Seedling	8		White Pine	Full	10 - 20 feet	10 - 20 feet	
	Red Maple	10	Seedling	8		Sheep Laurel	Full	< 5 feet	< 5 feet	
						Huckleberry	High	< 5 feet	< 5 feet	
40	42210 - Nat	ural Red Pi	ne	Poletimb	er Wel	l 9.3 45	201+	N/A	A	This stand is on a Croswell Sand ridge. It has some larger Xlog sized
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Canopy Specie	s Density	Avg. Height	Size	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
	White Pine	20		10		White Pine	Medium	10 - 20 feet	10 - 20 feet	BA is around 210. There are burned stumps indicating at least a sma
	Red Maple	5		10		Red Pine	Medium	10 - 20 feet	10 - 20 feet	intensity fire passed through this stand at one point. There are some
	Red Pine	60		9	45	Sheep Laurel	High	5 - 10 feet	5 - 10 feet	felled trees from beaver activity.
	Bigtooth Aspen	15		9		Huckleberry	Medium	5 - 10 feet	5 - 10 feet	
41	42201 - Natural \ Deci	White Pine, duous	Mixed	Sawtimb	er Wel	l 10.2 90	111-140	N/A	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

Avg. Height

5 - 10 feet

10 - 20 feet

Density

Low

High

Size

5 - 10 feet

10 - 20 feet

**Canopy Species** 

Red Maple

White Pine

5

65

% Cover Size Class

DBH Age

12 90

8

**Sub-Canopy Species** 

Serviceberry (Juneberry)

White Pine

soil under the stand is Croswell Sand.

pine goes from 1" to 28" DBH. Much of it has a DBH around 10". The

Compartment: 144

Stand	d Level 4 C	over Type		Size Density		Acres Stand Age	BA Range	Managed S	Site	General Comments
42	6131 - Hemlock, B	White Pine irch	, Maple, Sa	awtimber	Mediun	n 9.6 105	1-50	N/A	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
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	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
	Bigtooth Aspen	15		9		Michigan Holly	High	5 - 10 feet	5 - 10 feet	hummocky.
	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 S	hrub	Nor	ie	2.6		No	1	This stand is an L-Type pocket that was a part of stand 13. The stand
						Sub-Canopy Species	Density	Avg. Height	Size	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%
						Quaking Aspen	Low	>20 feet	>20 feet	just a few aspens. Overall the drown closure is just a little below 15%.
44	4133 - Aspe	en, Mixed P	ine S	Sawtimb		11.1 78	111-140	N/A	4	The stand is over mature. The access is a problem because of the ra
	Canopy Species		Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	sides, but the stand itself is operable. Most of the aspen is in poor
	White Pine	25		12		Sheep Laurel	Full	< 5 feet	< 5 feet	shape and has significant rot. The stand also has lots of downed
	Paper Birch	5	Seedling	8		White Pine	High	10 - 20 feet	10 - 20 feet	woody material. There is a strong cohort of white pine sapling and seedlings, suggesting the stand is converting to natural pine. The soil
	Red Maple	20		9		Wintergreen	Full	5 - 10 feet	5 - 10 feet	under the stand is Proper Sand.
	Bigtooth Aspen	50		11	78	Serviceberry (Juneberry	/) Medium	5 - 10 feet	5 - 10 feet	
45	6117 - Lowland Con	Deciduous, iferous	Mixed F	Poletimb	er Well	35.3 78	81-110	N/A	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
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	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.
	Red Maple	40		9	78	Red Maple	Medium	10 - 20 feet	10 - 20 feet	The the content where the delification to be, from converted who wetterns.
	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 - Aspe	en, Mixed P	ine F	Poletimb	er Well	17.2 78	81-110	N/A	<b>A</b>	This stand is on the soil type of Proper Sand. The crown closure is
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	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
	White Pine	20		10		Serviceberry (Juneberry	/) Medium	5 - 10 feet	5 - 10 feet	of the stand.
	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 - Lo	wland Mapl	e F	Poletimb	er Well	22.9 78	81-110	N/A	<b>A</b>	This stand is on the transitional edge of Proper Sand and Denford
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Muck. The area is hummocky with many depressions, most of which hold water. The stand is a mix of red maple, aspen, other swamp
	White Pine	15	Seedling	8		Balsam Fir	Low	10 - 20 feet	10 - 20 feet	hardwoods, and some pines. Overall the stand is too wet to manage.
	Bigtooth Aspen	10		9		White Pine	High	10 - 20 feet	10 - 20 feet	The ash has died off.
	Red Maple	75		9	78	Musclewood/Hornbean	n 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	

Compartment: 144

Stand	Level 4 Co	over Type		Size Der	isity	Acres	Stand Age E		Managed Si		General Comments
48	6127 - Lo	wland Pine	Sav	wtimber	Mediur	m 9.0	105	81-110	N/A		The stand is along a base of a ridge, and it is low and wet. The groun
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	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
	White Pine	55		14	105	Wh	nite Pine	Full	>20 feet	>20 feet	come down and the crown closure is now around 60%. The soil is
	Red Pine	25		16		Mich	igan Holly	Low	5 - 10 feet	5 - 10 feet	McIvor Sand.
	Red Maple	20		8		Та	ng Alder	Full	5 - 10 feet	5 - 10 feet	
49	4130	- Aspen	S	awtimbe	er Well	15.6	105	81-110	N/A		This stand is on a ridge and it is over mature. There is no good way t
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	access the stand. The edges have significant beaver damage but the damage looks fairly old. Also along the edges white pine is coming ir
	Bigtooth Aspen	60		12	105	Servicebe	erry (Juneberry	) Medium	5 - 10 feet	5 - 10 feet	thick. The red maple regeneration and juneberry understory is
	Red Maple	35		9		Re	d Maple	Medium	>20 feet	>20 feet	heaviest at the south end. The soil under the stand is Proper Sand
	Paper Birch	5	Seedling	8		Wh	nite Pine	Low	10 - 20 feet	10 - 20 feet	
50	629 - Mixed non	-torested W	/etland	Non	e	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 Phragmities. 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.
											0 0
	4136 - Aspen			Sapling		6.9		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.
	4116 - Mixed N.			oletimbe	er Well	14.3	105	81-110	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.  The data from the 2015 inventory was retained. This stand is an island.
	,	Hardwood -			er Well	14.3		81-110		Size	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, i 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.  The data from the 2015 inventory was retained. This stand is an islal 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
	4116 - Mixed N.	Hardwood - % Cover	- Aspen P	oletimbe	er Well	14.3 Sub-Car	105	81-110 Density	N/A Avg. Height 5 - 10 feet	Size 5 - 10 feet	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, i 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.  The data from the 2015 inventory was retained. This stand is an islal 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
	4116 - Mixed N.  Canopy Species	Hardwood - <b>% Cover</b>	- Aspen P	oletimbe DBH	er Well	14.3  Sub-Car  Servicebe  Ta	105 nopy Species erry (Juneberry ng Alder	81-110 Density	N/A Avg. Height	Size	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, i 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.  The data from the 2015 inventory was retained. This stand is an islal 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
52	4116 - Mixed N.  Canopy Species  Paper Birch  Basswood  Bigtooth Aspen	Hardwood -  **Cover** 3	- Aspen P Size Class	oletimbe  DBH  8 6 12	er Well	14.3  Sub-Cat  Servicebe  Ta  Wh	105 nopy Species erry (Juneberry ng Alder nite Pine	81-110  Density  Low  Low  Medium	N/A  Avg. Height  5 - 10 feet  5 - 10 feet  10 - 20 feet	<b>Size</b> 5 - 10 feet 5 - 10 feet 10 - 20 feet	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, i 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.  The data from the 2015 inventory was retained. This stand is an islal 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
52	4116 - Mixed N.  Canopy Species  Paper Birch  Basswood	Hardwood -  **Cover** 3 1	- Aspen P Size Class	oletimbe DBH	er Well	14.3  Sub-Cat  Servicebe  Ta  Wh	105 nopy Species erry (Juneberry ng Alder	81-110  Density  Low  Low  Medium	N/A  Avg. Height  5 - 10 feet  5 - 10 feet	<b>Size</b> 5 - 10 feet 5 - 10 feet	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, i 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.  The data from the 2015 inventory was retained. This stand is an islai 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
52	4116 - Mixed N.  Canopy Species  Paper Birch  Basswood  Bigtooth Aspen	Hardwood -  **Cover** 3	- Aspen P Size Class	oletimbe  DBH  8 6 12	er Well	14.3  Sub-Cat  Servicebe  Ta  Wh	105 nopy Species erry (Juneberry ng Alder nite Pine	81-110  Density  Low  Low  Medium	N/A  Avg. Height  5 - 10 feet  5 - 10 feet  10 - 20 feet	<b>Size</b> 5 - 10 feet 5 - 10 feet 10 - 20 feet	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, i 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.  The data from the 2015 inventory was retained. This stand is an islal 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
52	4116 - Mixed N.  Canopy Species  Paper Birch  Basswood  Bigtooth Aspen  Green Ash	Hardwood -  **Cover** 3	- Aspen P Size Class Seedling	0letimbe  DBH  8 6 12 6	Age 105	14.3  Sub-Cat  Servicebe  Ta  Wh	105 nopy Species erry (Juneberry ng Alder nite Pine bod/Hornbeam	81-110  Density  Low  Low  Medium	N/A  Avg. Height  5 - 10 feet  5 - 10 feet  10 - 20 feet	<b>Size</b> 5 - 10 feet 5 - 10 feet 10 - 20 feet	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.  The data from the 2015 inventory was retained. This stand is an islar 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.
52	4116 - Mixed N.  Canopy Species Paper Birch Basswood Bigtooth Aspen Green Ash Red Maple  4133 - Aspe	Hardwood -  **Cover** 3	- Aspen P Size Class Seedling	oletimbe    B	Age 105 Well	14.3  Sub-Car  Servicebee  Ta  Wh  Musclewo	105 nopy Species erry (Juneberry ng Alder nite Pine bod/Hornbeam	81-110  Density  Low  Low  Medium  Medium	N/A  Avg. Height  5 - 10 feet  5 - 10 feet  10 - 20 feet  10 - 20 feet	<b>Size</b> 5 - 10 feet 5 - 10 feet 10 - 20 feet	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.  The data from the 2015 inventory was retained. This stand is an islar 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.  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.  The stand is low and wet and has an overstory of mainly pole size
52	4116 - Mixed N.  Canopy Species Paper Birch Basswood Bigtooth Aspen Green Ash Red Maple  4133 - Aspe	Hardwood -  **Cover** 3	- Aspen P Size Class Seedling	oletimbe  DBH  8 6 12 6 8 Sapling	Age 105 Well	14.3  Sub-Cai  Servicebee  Ta  Wh  Musclewo	105 nopy Species erry (Juneberry ng Alder nite Pine bood/Hornbeam	81-110 Density Density Low Low Medium Medium Immature	N/A  Avg. Height  5 - 10 feet  5 - 10 feet  10 - 20 feet  10 - 20 feet  N/A	<b>Size</b> 5 - 10 feet 5 - 10 feet 10 - 20 feet	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.  The data from the 2015 inventory was retained. This stand is an islar 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.  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.  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
53 54	4116 - Mixed N.  Canopy Species  Paper Birch  Basswood  Bigtooth Aspen  Green Ash  Red Maple  4133 - Aspe	Hardwood -  **Cover** 3	- Aspen P Size Class Seedling	oletimbe  DBH  8 6 12 6 8 Sapling  oletimbe  DBH 8	Age 105 Well	14.3  Sub-Cai  Servicebee  Ta  Wh  Musclewo  9.0  55.4  Sub-Cai	105 nopy Species erry (Juneberry ng Alder nite Pine bod/Hornbeam 24	81-110 Density Density Low Low Medium Medium Immature	N/A  Avg. Height 5 - 10 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet N/A	Size 5 - 10 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet	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.  The data from the 2015 inventory was retained. This stand is an islar 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.  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.  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
53	4116 - Mixed N.  Canopy Species  Paper Birch  Basswood  Bigtooth Aspen  Green Ash  Red Maple  4133 - Aspe	Hardwood -  **Cover*  3	- Aspen P Size Class Seedling ine	oletimbe  DBH  8 6 12 6 8 Sapling	Age 105 Well	14.3  Sub-Cai  Servicebee  Ta  Wh  Musclewo  9.0  55.4  Sub-Cai	105 nopy Species erry (Juneberry ng Alder nite Pine bod/Hornbeam 24  105 nopy Species	81-110  Density  Low Low Medium Medium  Immature  51-80 Density	N/A  Avg. Height  5 - 10 feet  5 - 10 feet  10 - 20 feet  10 - 20 feet  N/A  N/A  Avg. Height	Size 5 - 10 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet	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.  The data from the 2015 inventory was retained. This stand is an islar 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.  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.  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

	d Level 4 Cover Type	Siza Danaity								
Stand	Level 4 C	over Type		Size Density	Acres	Stand Age B	A Range	Managed S	Site	General Comments
55	4199 - Other Mixe	d Upland D	Deciduous	Sawtimber Well	5.4	105	81-110	N/A	A	The data from the 2015 inventory was retained. This stand is an island
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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
	Red Maple	45		10 105	Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	Proper Sand. The aspen and birch are declining and there is a lot of
	White Pine	5		11	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	down woody material. The aspen density is highest in the northern 2/
	Bigtooth Aspen	25		12	Musclewo	ood/Hornbeam	Low	5 - 10 feet	5 - 10 feet	of the stand. If it is habitat cut it is not expected to regenerate to aspen.
	Paper Birch	25		10	Wh	nite Pine	High	5 - 10 feet	5 - 10 feet	doport.
		1			Servicebe	erry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	
56	6229 - Mixed	6229 - Mixed Lowland Shrub		None	64.7			No	)	This stand has rolling terrain and is a mix of dry knolls and wet
					Sub-Ca	nopy Species	Density	Avg. Height	Size	depressions. The soil under the stand is an association made up of Proper Sand, Finch Mucky sand and Denford Muck making most of it
					Ta	ag Alder	Full	5 - 10 feet	5 - 10 feet	too wet to manage. The ash is gone. The aspen in the stand is over
					Wh	nite Pine	Low	>20 feet	>20 feet	mature and has significant rot. The crown closure is 60-70%.
					Re	d Maple	Low	>20 feet	>20 feet	
					Servicebe	erry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	
					Musclewo	ood/Hornbeam	Low	10 - 20 feet	10 - 20 feet	
57	4133 - Aspe	en, Mixed F	Pine	Sapling Medium	3.5	24	mmature	N/A	A	The stand was habitat cut in the winter of 2000-2001 and has
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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
	White Pine	30	Pole	3	Servicebe	erry (Juneberry)	Medium	5 - 10 feet	5 - 10 feet	W1A1 but the southern end regenerated very well and is a good A3.
	Red Maple	14	Pole	3						
	Bigtooth Aspen	55	Pole	3 24						
	Red Pine	1	Pole	3						
58	6239 - Mixed E	mergent W	/etland	None	21.5			No	)	The stand has standing water in the south half that grades to lowland
					Sub-Ca	nopy Species	Density	Avg. Height	Size	shrubs going north. The soil under the stand is an association of McIvor Sand and Wakeley Muck. The ash is gone. The trees are
					Ta	ag Alder	Full	5 - 10 feet	5 - 10 feet	heaviest in the eastern portion of the stand. The western portion is
					Mich	igan Holly	High	5 - 10 feet	5 - 10 feet	heavier to lowland shrubs.
59	6113 - Lo	wland Map	le	Poletimber Poor	46.7	85	1-50	N/A	4	The stand is wet with several small upland ridges and islands. The
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	ash has died out and red maple is the primary species. The overmature aspen and birch are dying out. Birch and conifers are
	Red Maple	100		12 85	Mich	igan Holly	High	5 - 10 feet	5 - 10 feet	seeding in. However, it is not uniform. The crown closure is now
		'			Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	closer to 25%. The soil under the stand is mainly Denford Muck,
					Decidu	ious Shrubs	High	5 - 10 feet	5 - 10 feet	Leafriver Muck with a few islands of Proper, and Croswell Sands.
					Par	oer Birch	Low	10 - 20 feet	10 - 20 feet	

Low

5 - 10 feet

5 - 10 feet

Red Maple

Compartment: 144

Stand	d Level 4 C	over Type		Size Density	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments			
60	42200 - Nat	ural White P	ine	Sawtimber Well	16.2	60	171-200	N/A	A	The stand is at the end of a ridge that goes along stand 27. The soil			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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			
	Bigtooth Aspen	5	Seedling	8	She	ep Laurel	High	5 - 10 feet	5 - 10 feet	compared to the rest of the stands on the ridge. There are some white			
	Red Pine	25		12	Hu	ckleberry	High	5 - 10 feet	5 - 10 feet	pines up to 40 DBH. There are burned stumps indicating at least a			
	Red Maple	5	Seedling	8	Wir	ntergreen	High	5 - 10 feet	5 - 10 feet	small intensity fire passed through this stand at one point.			
	White Pine	65		16 60	WI	nite Pine	Medium	10 - 20 feet	10 - 20 feet				
					R	ed Pine	Low	10 - 20 feet	10 - 20 feet				
61	4311 - Pin	e, Aspen Mi	ix	Sawtimber Well	7.7	95	141-170	N/A	A	The stand gets wetter in the north as it approaches stand 42. This			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species		Density	Avg. Height	Size	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			
	White Pine			12 95	Wintergreen		Full	5 - 10 feet	5 - 10 feet	along stand 42. There's multiple drains from this stand into stand 50.			
	Red Maple	<u>'</u>		11	White Pine		High	10 - 20 feet	10 - 20 feet	BA is closer to 170. The soil under the stand is Croswell Sand.			
	Paper Birch	10	Seedling	8	She	ep Laurel	Full	< 5 feet	< 5 feet				
	Bigtooth Aspen	20		11	Servicebe	erry (Juneberry	) Low	5 - 10 feet	5 - 10 feet				
62	6229 - Mixed	Lowland St	nrub	None	63.1			No	)	The stand is low and wet with many areas of standing water. There			
-		Hone						Sub-Ca	nopy Species	Density	Avg. Height	Size	are some islands of trees but most of the stand is lowland shrubs. The soil under the stand is an association of McIvor Sand and Wakeley
							Ta		Full		5 - 10 feet	Muck. The ash is dead. The trees are heaviest in the eastern portion	
					Mich	igan Holly	High	5 - 10 feet	5 - 10 feet	of the stand. The western portion is heavier to lowland shrubs. There			
							,			are also some inclusions of emergent marsh.			
63	6229 - Mixed	Lowland St	nrub	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			
					Sub-Canopy Species	Density	Avg. Height	Size	down. There are some areas of lowland shrub mixed with some ash				
					Bu	ttonbush	Low	Low 5 - 10 feet	5 - 10 feet	regeneration, but most of the stand is non-forested.			
						ag Alder	High	5 - 10 feet	5 - 10 feet				
					Wł	nite Pine	Low	10 - 20 feet	10 - 20 feet				
					Mich	igan Holly	High	5 - 10 feet	5 - 10 feet				
64	4130	- Aspen		Sapling Medium	38.5	5	Immature	N/A	A	The soil under the stand is mainly Proper-Finch-Denford complex. It			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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			
	Bigtooth Aspen	65	Log	1 5	Servicebe	erry (Juneberry	) Low	5 - 10 feet	5 - 10 feet	from 10 to 80% with an average of 55%. The areas with the lowest			
	Red Maple	30	Pole	2	WI	nite Pine	High	5 - 10 feet	5 - 10 feet	crown closure are along the drainage. There is some seeding in with			
	White Pine	5		15	Re	ed Maple	Medium	10 - 20 feet	10 - 20 feet	pine.			
65	4133 - Asp	en, Mixed Pi	ne	Poletimber Well	43.2	33	51-80	N/A	A	The stand was clearcut in 1992. The terrain is hummocky. The white			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine is now starting to get into the overstory. There appears to be scattered trees with hypoxylon canker. There appears to have some			
	Red Maple	8	Pole	4	She	ep Laurel	Full	5 - 10 feet	5 - 10 feet	pole size white pine that were left when the stand was harvested.			
	White Pine	30	Sapling	6	Decidu	uous Shrubs	Medium	5 - 10 feet	5 - 10 feet	However, now they are sawlogs. The soil under the stand is mainly			
	Red Pine	5	Pole	4						Proper-Finch-Denford Complex.			
	Quaking Aspen	12	Sapling	5									
			, ,										

Bigtooth Aspen

45

5 33

Sapling

Compartment: 144

Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
66	6116 - Lo	wland Birch	n Po	letimber	Mediur	n 8.8	33	1-50	N/A	1	The stand was clearcut in 1992. It is dominated by a drainage and its
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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
	Paper Birch	60	Pole	4	33	Musclewo	ood/Hornbeam	Low	10 - 20 feet	10 - 20 feet	lowland shrub type.
	White Pine	5	Sapling	6		Ta	g Alder	Full	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	25	Sapling	5	33	Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	10	Sapling	5							•
67	123 - Other Hiç	123 - Other High Intensity Urban		None					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 - Pin	e, Aspen M	ix S	apling M	ledium	20.2	27	1-50	N/A	i	The aspen are more common along the west side of the stand while
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	the white pines are more common along the east side of the stand. The aspen are of poor quality, with most of them being sapling sized
	Red Pine	8	Sapling	7		Pap	er Birch	Trace	10 - 20 feet	10 - 20 feet	despite being almost 30 years old. The soil is mainly McIvor Sand.
	Paper Birch	2	Sapling	5		Commo	n Blackberry	Medium	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	40	Pole	4	27	Wh	ite Pine	Low	10 - 20 feet	10 - 20 feet	
	Black Spruce	2	Sapling	6		Re	ed Pine	Low	10 - 20 feet	10 - 20 feet	
	White Pine	40		7	27	She	ep Laurel	High	5 - 10 feet	5 - 10 feet	
	Red Maple	8	Sapling	5		Blac	k Spruce	Trace	10 - 20 feet	10 - 20 feet	
						Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
69	6113 - Lo	wland Mapl	e Po	letimber	Mediur	n 14.5	90	51-80	N/A		This is a very wet stand. The ash is dead. There are small upland
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	pockets of white pine and grass. The terrain is hummocky. The crow closure is now closer to 50%. The soils under the stand are a mixture
	Quaking Aspen	3		8		Re	d Maple	High	10 - 20 feet	10 - 20 feet	of Denford muck and AuGres.
	Red Maple	80		9	90	Та	g Alder	High	5 - 10 feet	5 - 10 feet	
	White Pine	17		12		Wh	ite Pine	Low	10 - 20 feet	10 - 20 feet	
						Mich	igan Holly	High	5 - 10 feet	5 - 10 feet	
70	42200 - Nati	42200 - Natural White Pine Sawtimber Po		r Poor	15.4	90	1-50	N/A		The stand was selectively harvested in 2003. It was then harvested	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Sand Lake Gate sale 73-009-17 which was completed 2020. The residual was measured at 30 sq. ft. The stand is regenerating with
	White Pine	60		14	90	Hud	kleberry	Medium	5 - 10 feet	5 - 10 feet	some hardwood. There is also red and white pine seeding in, but the
	Red Pine	40		14		Re	d Maple	Low	5 - 10 feet	5 - 10 feet	exact level is hard to determine because of snow depth. The stand
						Wh	nite Pine	High	Variable	Variable	expected to fully regenerate in the next 10 years from seeding. The soil under the stand is Proper sand.
						Re	ed Pine	Low	< 5 feet	< 5 feet	our and of the stand to Fropor saina.
						Bigto	oth Aspen	Low	5 - 10 feet	5 - 10 feet	

Medium

5 - 10 feet

5 - 10 feet

Sheep Laurel

Compartment: 144

	G	Bladwin Mg	Report 7 – Stands					ands		Compartment: 144 Year of Entry: 2027	
Stan	d Level 4 C	over Type		Size D	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
71	4133 - Asp	en, Mixed P	ine	Poletim	ber We	II 26.4	33	81-110	N/A		The stand was clearcut in 1992. Much of the overstory white pine are
	Canopy Species	% Cover	Size Class	s DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the residual trees left when it was harvested. They have now grown into logs. The terrain is hummocky.
	Bigtooth Aspen	55	Sapling	6	33		hite Pine	High	10 - 20 feet	10 - 20 feet	anto logs. The terrain is numinocky.
	Quaking Aspen	13	Sapling	5							
	White Pine	25		8							
	Paper Birch	4	Pole	4							
	Red Maple	3	Pole	4							
72	4133 - Aspe	4133 - Aspen, Mixed Pine		Poletim	ber We	II 36.5	33	81-110	N/A		The stand was clearcut in 1992. It is mainly uplands with some small
	Canopy Species	% Cover	Size Class	s DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	low pockets. The terrain is hummocky. The soil is Proper-Finch-Denford complex.
	Paper Birch	10	Pole	4			ag Alder	Low	5 - 10 feet	5 - 10 feet	Demora complex.
	Red Pine	4	Sapling	6		WI	hite Pine	Medium	10 - 20 feet	10 - 20 feet	
	Jack Pine	1	Sapling	6		Servicebe	erry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	5	Sapling	5			on Blackberry	Medium	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	40	Sapling	7	33		-				
	Quaking Aspen	10	Sapling	6							
	White Pine	30	Sapling	7							
73	4133 - Aspe	en, Mixed P	ine	Sapling	Mediun	n 22.7	25	1-50	N/A		The stand was clearcut in 2000. The white pine less than 4 inches
	Canopy Species	% Cover	Size Class	s DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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
	Red Pine	5	Pole	4		WI	hite Pine	Low	5 - 10 feet	5 - 10 feet	crown closure is around 65%. The aspen regeneration is patchy, but it
	White Pine	30	Sapling	5		Commo	on Blackberry	Medium	5 - 10 feet	5 - 10 feet	is more common along the east side. White, red, and jack pines are
	Quaking Aspen	20	Pole	3		She	ep Laurel	Medium	5 - 10 feet	5 - 10 feet	seeding into the open areas.
	Bigtooth Aspen	40	Pole	4	25	Servicebe	erry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	
	Jack Pine	5	Pole	4							-
74	6127 - Lo	owland Pine	Э	Sawtiml	oer Wel	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
	Canopy Species	% Cover	Size Class		H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of hardwoods, aspen and pines. Maple is starting to become more
	Paper Birch	10	Sapling	7			per Birch	Medium	>20 feet	>20 feet	common in much of the stand. The soils are quite wet, and the terrain
	White Pine	60		13	88	WI	hite Pine	High	Variable	Variable	is hummocky.
	Red Pine	20		15		Re	ed Maple	Medium	>20 feet	>20 feet	
	Red Maple	10		7		Qual	king Aspen	Medium	>20 feet	>20 feet	
						Decid	uous Shrubs	High	5 - 10 feet	5 - 10 feet	
						R	ed Pine	Low	Variable	Variable	
75	42200 - Nat	ural White F	Pine	Saplin	g Well	9.8	26	1-50	N/A		The stand was clearcut in 2003. When it was harvested some of the
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	white pines were retained. The crown closure is closer to 75%. The soil under the stand is Proper-Finch-Denford complex, as such there
	Bigtooth Aspen	15	Pole	3	22	Servicebe	erry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	are some small pockets of lower ground in the stand. The terrain is
	Red Maple	10	Log	3				,			hummocky.
	- · - ·			-							

5

70

Pole

Sapling

4 5 26

Red Pine

White Pine

Stand Size Density **General Comments** Level 4 Cover Type Acres Stand Age BA Range Managed Site 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 76 current crown closure is less than 20%. There is a lot of down woody Size **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Ava. Height material in the stand. Birch and maple are scattered. However, most 10 88 Deciduous Shrubs Full 5 - 10 feet 5 - 10 feet Red Maple 60 are located along the edges of the stand. 35 10 White Pine Paper Birch 5 Pole 3 4133 - Aspen, Mixed Pine 5.4 95 111-140 N/A 77 Poletimber Well 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 % Cover Size Class **Sub-Canopy Species** Size Canopy Species **DBH Age** Density Ava. Heiaht pockets. The terrain is hummocky. The aspen is in poor shape having Red Maple 15 9 White Pine 10 - 20 feet 10 - 20 feet Low 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 50 11 95 5 - 10 feet 5 - 10 feet Bigtooth Aspen Michigan Holly Low end of the stand. The aspen, birch, and jack pine are declining. Some Paper Birch 5 Seedling 6 Huckleberry Medium 5 - 10 feet 5 - 10 feet of the trees have been felled by beavers. Regeneration is low. There 9 Red Pine 15 Red Pine Iow 10 - 20 feet 10 - 20 feet are burned stumps indicating at least a small intensity fire passed 15 5 - 10 feet through this stand at one point. White Pine 11 Hiah 5 - 10 feet Sheep Laurel 42200 - Natural White Pine Sawtimber Poor 66.2 79 N/A 78 1-50 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 **DBH Age Canopy Species** % Cover Size Class **Sub-Canopy Species** Density Avg. Height Size deciduous regeneration is patchy. However, the pines are also White Pine 70 14 79 Red Maple Medium 5 - 10 feet 5 - 10 feet seeding in. Red Maple 5 8 Sheep Laurel Full 5 - 10 feet 5 - 10 feet 5 9 Paper Birch Deciduous Shrubs Low 5 - 10 feet 5 - 10 feet Red Pine 20 14 10 - 20 feet 10 - 20 feet Serviceberry (Juneberry) Low White Pine Medium Variable Variable Bigtooth Aspen Medium 10 - 20 feet 10 - 20 feet 42200 - Natural White Pine 0.9 19 79 Sapling Poor **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 **DBH Age Canopy Species** % Cover Size Class variable. 60 3 19 White Pine Loa 3 30 Red Pine Log 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 **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Avg. Height Size fully stocked. The terrain is hummocky. There are some weevil Bigtooth Aspen 50 Pole 3 22 White Pine Medium 5 - 10 feet 5 - 10 feet problems, but it is minor at the current time. 4 White Pine 40 Pole Red Pine 10 Pole 4 6127 - Lowland Pine Sawtimber Well 10.0 88 81-110 N/A The stand was selectively harvested in 2003. The harvest removed 81 the aspen and birch which was about 40 BA. There is very little aspen **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Avg. Height Size regeneration in the stand. Most of the regeneration is white pine. The White Pine 88 White Pine 70 11 High 10 - 20 feet 10 - 20 feet 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 9 12 Hemlock Michigan Holly Low 5 - 10 feet 5 - 10 feet hummocky. The ash is dead. There is a well-stocked white pine

Medium

High

Tag Alder

Sheep Laurel

5 - 10 feet

5 - 10 feet

5 - 10 feet

5 - 10 feet

Red Maple

Quaking Aspen

15

6

Seedling

6

6

understory in 3/4 of the stand.

Compartment: 144

Stand		\$	Size Der	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments	
82	42260 - Natural Pi	ne, Mixed [	Deciduous Pol	etimber	Mediun	n 10.0	35	1-50	N/A	A	The stand was clearcut in 2000. When it was harvested the white
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	pines were retained. The terrain is hummocky. The crown closure is now around 75% and still more pine is seeding into the open areas.
	Bigtooth Aspen	35	Pole	4	25	Shee	ep Laurel	Full	5 - 10 feet	5 - 10 feet	
	White Pine	50	Sapling	6	35	Ta	g Alder	Low	5 - 10 feet	5 - 10 feet	
	Jack Pine	10	Pole	4		Servicebe	rry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	5	Pole	4							
83	4311 - Pin	e, Aspen M	lix S	apling M	ledium	41.2	10	1-50	N/A	A	The soil under the stand is Proper-Finch-Denford. The stand was
	Canopy Species	% Cover	Size Class	DBH	Age						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 greer
	White Pine	25	Log	1							painted trees. There were two islands painted out for retention. The
	Red Pine	15	Log	1							total residual BA is 3 Sq. Ft. The terrain is hummocky. The
	Red Pine	2		14							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
	Red Maple	5	Log	1							10 years old.
	White Pine	3		14							
	Bigtooth Aspen	50	Log	2	10						
84	6229 - Mixed	Lowland S	hrub	Non	е	12.5			No	)	The stand is a drainage, and it is very wet. The ash has died out and
						Sub-Car	nopy Species	Density	Avg. Height	Size	the crown closure is now below 20%.
						Wh	ite Pine	Low	>20 feet	>20 feet	
						Re	d Maple	Low	>20 feet	>20 feet	
						Decidu	ous Shrubs	Medium	5 - 10 feet	5 - 10 feet	
						Ta	g Alder	Full	5 - 10 feet	5 - 10 feet	
						Michi	gan Holly	High	5 - 10 feet	5 - 10 feet	
87	4133 - Aspe	en, Mixed P	ine S	apling M	ledium	11.2	24	51-80	N/ <i>F</i>	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 - Aspe	en, Mixed P	ine	Sapling		21.5	33	81-110	N/A	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
	Canopy Species	% Cover	Size Class	DBH	Age		nopy Species	Density	Avg. Height	Size	regeneration is aspen. There are areas that have more red maple and
	Balsam Fir	1	Pole	3		Wh	ite Pine	High	10 - 20 feet	10 - 20 feet	white pine. The terrain is hummocky.
	Red Pine	1	Log	3			ep Laurel	Full	5 - 10 feet	5 - 10 feet	
	White Pine	30	Sapling	6		Decidu	ous 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							

Compartment: 144

Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
89	6117 - Lowland Con	Deciduous, iferous	, Mixed P	oletimbe	r Mediu	ım 26.8	33	51-80	N/A	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
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	is lower over the drainage. The cover type ranges from lowland shrubs to white pines to birch.
	Paper Birch	40	Sapling	5	33	Та	g Alder	High	5 - 10 feet	5 - 10 feet	to write pines to birdi.
	Quaking Aspen	15	Sapling	6	33	Mich	igan Holly	High	5 - 10 feet	5 - 10 feet	
	White Pine	35	Sapling	7							
90	4133 - Aspe	en, Mixed P	ine	Poletimb	er Wel	l 32.5	33	1-50	N/A	<b>A</b>	The stand was clearcut in 1992. The stand is fully stocked but there
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	are several areas of low density. The terrain is hummocky. There are wetter areas north of stand 92 and along the east edge.
	White Pine	19	Sapling	6			g Alder	Low	5 - 10 feet	5 - 10 feet	weller areas north or stand 92 and along the east edge.
	Jack Pine	1	Pole	4			ite Pine	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	25	Sapling	6	33	Servicebe	rry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	45	Sapling	7	33		ep Laurel	High	5 - 10 feet	5 - 10 feet	
	Paper Birch	10	Pole	4							
91	4311 - Pin	e, Aspen M	lix	Sapling	Poor	18.5	5	1-50	N/A	4	The soil under the stand is mainly Proper-Finch-Denford complex. The
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	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.
	Bigtooth Aspen	50	Log	1	5	Servicebe	rry (Juneberry)	Low	10 - 20 feet	10 - 20 feet	However, there is some seeding in of pine. It is expected that this will
	White Pine	25	Log	1	5				I		continue, and the stand will eventually become fully stocked. The
	White Pine	25	-	15	78						terrain is hummocky.
92	6229 - Mixed	Lowland S	hrub	Noi	ne	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 S	hrub	Noi	ne	5.9			No	)	The stand was clearcut in 1992. This stand is a depression that is now
						Sub-Cai	nopy Species	Density	Avg. Height	Size	mainly lowland shrub with scattered white pine and birch. The trees are along the edges. The ash is dead. However, the overall crown
						Pap	er Birch	Low	10 - 20 feet	10 - 20 feet	closure is now less than 25%
						Та	g Alder	Medium	5 - 10 feet	5 - 10 feet	
						Wh	ite Pine	Low	10 - 20 feet	10 - 20 feet	
						Mich	igan Holly	Full	5 - 10 feet	5 - 10 feet	
94	4130	- Aspen		Poletimb	er Wel	l 33.1	33	51-80	N/A	<b>A</b>	The stand was clearcut in 1992. It is mainly uplands with some
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	inclusions of lowlands especially in the southern half. The terrain is hummocky.
	Jack Pine	1	Pole	4		Servicebe	rry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	15	Sapling	6		Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	60	Sapling	7	33	Wh	ite Pine	High	10 - 20 feet	10 - 20 feet	
	Paper Birch	2	Pole	4		•		,			-
	White Pine	15	Sapling	6							
	Red Pine	1	Pole	4							
	Red Maple	6	Sapling	5							

Compartment: 144

Gladwin Mgt. Unit Report 7 – Stands Compartment: 144
Year of Entry: 2027

Stand	d Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		General Comments										
95	4130	- Aspen		Poletimb	er Well	17.3	33	51-80	N/A	Α	The stand was clearcut in 1992. The stands are ridges of Proper San			
	Canopy Species	% Cover	Size Class		Age	Sub-Can	opy Species	Density	Avg. Height	Size	boarder by drainages and private land. There are a couple of swales that could be classified as lowlands. But the overall crown closure is			
	Bigtooth Aspen	50	Sapling	7	33	Shee	p Laurel	High	5 - 10 feet	5 - 10 feet	over 75%.			
	Quaking Aspen	20	Sapling	6		Serviceber	ry (Juneberry)	Low	5 - 10 feet	5 - 10 feet				
	Red Maple	10	Pole	4		Tag	g Alder	Low	5 - 10 feet	5 - 10 feet				
	White Pine	10	Sapling	5		Whi	te Pine	High	10 - 20 feet	10 - 20 feet				
	Paper Birch	10	Pole	4										
96	42290 - Nati	ural Mixed I	Pine	Sawtimbe	er Well	4.8	148	111-140	N/A	4	This stand was thinned by removing the hardwood and some pines in			
	Canopy Species % Cover Size Class		lass DBH Ag		Sub-Can	opy Species	Density	Avg. Height	Size	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 pin				
	Red Maple	12		8		Wh	te Pine	High	>20 feet	>20 feet	with larger red maple mixed in. The eastern half is log sized red pine			
	Paper Birch	3	Sapling	6		Re	d Pine	Low	10 - 20 feet	10 - 20 feet	and white pine with red maple mixed in, which the southeastern			
	Red Pine	45		14	148	Lea	therleaf	Low	5 - 10 feet	5 - 10 feet	section of the stand also resembles. The soil under the stand is McIvor Sand.			
	White Pine	40		12		Pap	er Birch	Low	>20 feet	>20 feet	ividivoi dalia.			
				'		Red	l Maple	Medium	>20 feet	>20 feet				
						Shee	p Laurel	High	5 - 10 feet	5 - 10 feet				
						Huc	kleberry	Medium	5 - 10 feet	5 - 10 feet	_			
97	6229 - Mixed Lowland Shrub		Nor	ie	14.0			No	)	The stand was clearcut in 1992. This area is a drainage that has				
						Sub-Can	opy Species	Density	Avg. Height	Size	regenerated in a mix of lowland shrubs with some overstory trees. The trees are mainly white pine with some quaking aspen. The ash that			
						Wh	te Pine	Low	>20 feet	>20 feet	was present has died off. The trees are in small patches and along			
						Will	ow spp.	Low	5 - 10 feet	5 - 10 feet	the edges. The overall crown closure is less than 15%. The soil under			
						Michi	gan Holly	Full	5 - 10 feet	5 - 10 feet	the stand is Denford muck.			
						Tag	g Alder	High	5 - 10 feet	5 - 10 feet				
						Quaki	ng Aspen	Low	>20 feet	>20 feet				
98	6229 - Mixed	l Lowland S	hrub	Nor	ie	5.4			No	)	The stand was clearcut in 1992. This area is a low depression and h			
						Sub-Can	opy Species	Density	Avg. Height	Size	regenerated to tag alder and Michigan holly with some scattered tree. The crown closure is less than 15%.			
						Red	l Maple	Trace	>20 feet	>20 feet				
						Tag	g Alder	Full	5 - 10 feet	5 - 10 feet				
						Gre	en Ash	Trace	10 - 20 feet	10 - 20 feet				
						Michi	gan Holly	Medium	5 - 10 feet	5 - 10 feet				
						Wh	te Pine	Low	>20 feet	>20 feet				
						Quaki	ng Aspen	Trace	>20 feet	>20 feet				
99	6112 - Lo	wland Aspe	en	Sapling N	/ledium	17.9	25 I	mmature	N/A	4	The stand was harvested in 2000. It was heavily rutted during the			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	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			
	Quaking Aspen	60	Pole	4	25	Та	g Alder	Full	5 - 10 feet	5 - 10 feet	alder is only a little shorter than the regeneration. The terrain is			
	Balsam Poplar	15	Pole	4			gan Holly	Medium	5 - 10 feet	5 - 10 feet	hummocky. The soil under the stand is a mixture of Proper Sand,			
	Paper Birch	10	Log	3							Finch, Denford Muck and Leafriver Muck.			
	•													

15

Red Maple

3

Log

Gladwin Mgt. Unit Report 7 - Stands Compartment: 144
Year of Entry: 2027

Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site General Comments

100	4311 - Pine, Aspen Mix			Poletimber Well		16.0	16.0 50		N/A	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cand	ру Ѕресі	ies 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		Whit	e Pine	Medium	>20 feet	>20 feet

This stand is mainly bigtooth aspen and white pine with pockets of trembling aspen and red maple. The soil under the stand is McIvor Sand. The stand is ready to be harvested as the BA is high and the aspen are age 50 and pole sized.

101 6128 - Lowland Coniferous, Mixed Poletimber Medium 12.8 88 51-80 N/A Deciduous

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	% Cove	r Size Class	DBH	l 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 Poletimber Well 8.2 32 51-80 N/A
Coniferous

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	% Cove	% Cover Size Class		I 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						

 Canopy Species
 % Cover Size Class
 DBH Age
 Sub-Canopy Species
 Density
 Avg. Height

 Red Maple
 10
 Sapling
 7
 White Pine
 Medium
 10 - 20 feet
 <t

5

6

9

12

Sapling

Sapling

\ge	Sub-Canopy Species	Density	Avg. Height	Size	fo
	White Pine	Medium	10 - 20 feet	10 - 20 feet	а
	Sheep Laurel	Full	5 - 10 feet	5 - 10 feet	h
	Tag Alder	Low	5 - 10 feet	5 - 10 feet	٨
	Red Pine	Trace	10 - 20 feet	10 - 20 feet	
50	Dogwood (spp.)	Low	5 - 10 feet	5 - 10 feet	ĺ
	Huckleberry	Medium	5 - 10 feet	5 - 10 feet	
	Michigan Holly	Low	5 - 10 feet	5 - 10 feet	ĺ
	Red Maple	Medium	10 - 20 feet	10 - 20 feet	

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.

104	42200 - Natur	al White I	Pine	Sawtimb	er Well	14.7	70	141-170	N/A	<b>\</b>
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size
	White Pine	65		14	70	Whit	te Pine	High	10 - 20 feet	10 - 20 feet
	Red Pine	20		14		Huck	leberry	Medium	5 - 10 feet	5 - 10 feet
	Paper Birch	5	Sapling	5		Red	d Pine	Low	10 - 20 feet	10 - 20 feet
	Red Maple	5	Sapling	7						
	Bigtooth Aspen	5		8						

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 McIvor 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.

Paper Birch

Quaking Aspen

Red Pine

White Pine

5

5

10 70

Stand

Stand	tand Level 4 Cover Type Size		Size De	nsity	Acres Stand Age	BA Range	Managed S	Site	General Comments		
105	6131 - Hemlock, E	White Pine	, Maple,	Poletimb	er Well	14.3 45	141-170	N/A	4	The stand is low and wet. The stand is well stocked with log and pole sized white pines on the eastern and western sides sides of the stand	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	With pole and sapling sized red maple and mixed hardwoods down the center of the stand where its a bet lower and wetter.	
	White Pine	40		9	45	Sheep Laurel	Low	5 - 10 feet	5 - 10 feet	the center of the stand where its a per lower and wetter.	
	Black Cherry	2	Seedling	6		Huckleberry	Low	5 - 10 feet	5 - 10 feet		
	Quaking Aspen	15	Sapling	7		White Pine	Medium	>20 feet	>20 feet		
	Red Pine	3	Seedling	7		Quaking Aspen	Low	>20 feet	>20 feet		
	Paper Birch	5	Sapling	5		Red Maple	Medium	>20 feet	>20 feet		
106	6127 - Lo	owland Pine	)	Sawtimb	er Well	6.9 64	81-110	N/A	4	The stand was not harvested with stand 10 because of the small	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	diameters. The area is a mix of uplands and lowlands with the lowlands being the majority. The soil is McIvor Sand.	
	Quaking Aspen	10	Seedling	5		Red Maple	Low	>20 feet	>20 feet	lowiands being the majority. The soil is worker dand.	
	Red Maple	5	Sapling	5		Deciduous Shrubs	Medium	5 - 10 feet	5 - 10 feet		
	Red Pine	20		8		Sheep Laurel	Medium	5 - 10 feet	5 - 10 feet		
	White Pine	65		8	64	·					
109	6119 - Mixed Lowla	and Decidud	ous Forest	Sapling l	Medium	5.0 50	1-50	N/A	4	The stand is in a low wet depression, with a lot of standing water and	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	some water flow along the east side. The ash has completely died off leaving behind mostly pole sized red maple, aspen, and white pine.	
	Quaking Aspen	35	Sapling	5	50	Tag Alder	High	5 - 10 feet	5 - 10 feet	The soil under the stand is Wabun Muck.	
	White Pine	15	Seedling	8		Michigan Holly	High	5 - 10 feet	5 - 10 feet		
	Red Maple	35	Sapling	5	50	Red Maple	Medium	10 - 20 feet	10 - 20 feet		
	Paper Birch	15	Pole	4		Deciduous Shrubs	Full	5 - 10 feet	5 - 10 feet		
		'		'		White Pine	Low	5 - 10 feet	5 - 10 feet		
110	6131 - Hemlock, E	White Pine	, Maple,	Poletimber Poor		7.3 60	51-80	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	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	higher ground. There are sparse areas with standing water where regeneration is sparse.	
	Red Maple	50		11	60	Red Maple	High	>20 feet	>20 feet	Togetheration to sparse.	
	Paper Birch	5	Sapling	6		White Pine	High	>20 feet	>20 feet		
113	3301 - Low Dens	ity Deciduo	us Trees	No	ne	18.3		No	)	This stand is along the south private line and is on very moist soil. The	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	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,	
	Red Maple	5	Seedling	8		Autumn Olive	Low	5 - 10 feet	5 - 10 feet	leaving behind islands of pole sized quaking aspen and black cherry	
	Quaking Aspen	90		9	78	Quaking Aspen	Medium	>20 feet	>20 feet	where the ground is a little higher. There are now vast fields of L-type	
	Black Cherry	5	Seedling	8		Black Cherry	Low	>20 feet	>20 feet	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	
		'				Red Maple	Low	>20 feet	>20 feet	tree islands, but the rest of the stand is on the low end of the 0-25%	
						Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet	range.	
								1	1	- <del> </del>	

5 - 10 feet

Medium

5 - 10 feet

Blackberry/Raspberry

Compartment: 144

tand	Level 4 Co	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments								
16	6127 - Lo	owland Pine	; Po	oletimber	Medium	4.7	27	51-80	N/A		This stand is in a depression. The terrain is hummocky, and the so		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	under the stand is McIvor Sand. The south half of the stand is a ve wet L-type with mostly tag alder and cattails. This area was heavily		
	Red Pine	2	Sapling	5		Re	d Pine	Trace	10 - 20 feet	10 - 20 feet	rutted when it was harvested. There is also another smaller pocket		
	Paper Birch	2	Pole	3		Red	l Maple	Medium	10 - 20 feet	10 - 20 feet	L-type at the northern tip of the stand. The overall crown closure is		
	Red Maple	6	Pole	4		Pap	er Birch	Low	10 - 20 feet	10 - 20 feet	The stand is too wet to manage.		
	Black Spruce	2	Sapling	5		Black	Spruce	Low	10 - 20 feet	10 - 20 feet			
(	Quaking Aspen	3	Pole	4		Whi	te Pine	Medium	10 - 20 feet	10 - 20 feet			
	White Pine	85		7	27	Michi	gan Holly	High	5 - 10 feet	5 - 10 feet			
						Shee	p Laurel	Full	5 - 10 feet	5 - 10 feet			
						Тас	g Alder	Medium	5 - 10 feet	5 - 10 feet			
123 6229 - Mixed Lowland Shrub				None		None		5.9			No		The ash in the stand has died out. It has converted to lowland shru
						Sub-Can	opy Species	Density	Avg. Height	Size	for the most part. There are a few scattered live paper birch and remaples. The soil under the stand is Wabun Muck.		
						Pap	er Birch	Low	>20 feet	>20 feet	maples. The soil under the stand is wabuit widek.		
						Wille	ow spp.	Medium	5 - 10 feet	5 - 10 feet			
						Red	l Maple	Low	>20 feet	>20 feet			
					Michig	gan Holly	High	5 - 10 feet	5 - 10 feet				
						Та	g Alder	Full	5 - 10 feet	5 - 10 feet			
28	42290 - Natu	ıral Mixed F	Pine	Sapling	Poor	14.3	14 In	mmature	N/A		This stand is on a ridge that comes from the private land to the ea was harvested in the fall of 2010. The timber sale was Alabaster		
	Canopy Species	% Cover	Size Class	DBH	Age						Harvest; sale 73-018-07-01. Overall, it is upland with some lowland		
	White Pine	50	Pole	2	14						inclusions in the south end. The southern portion of the stand is		
	Red Pine	40	Pole	2							hummocky. The area is seeding in with red and white pine. The di		
(	Quaking Aspen	10	Log	2							portion of the ridge has a lower density then the rest of the stan- soil is the Croswell-Proper Complex.		
		′ - Lowland Pine Sawtimber Poo								soil is the Croswell-Proper Complex.			
34	6127 - Lo	wland Pine		Sawtimbe	r Poor	15.6	67	1-50	N/A	<u> </u>	The stand was burned between the years of 1998 and 2002. The		
34	6127 - Lo		Size Class	Sawtimbe DBH			67 opy Species	1-50 Density	N/A	Size	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 comi		
34						Sub-Can					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 comialong well. There are pockets of very dense regeneration, and sor		
34	Canopy Species	% Cover		DBH		Sub-Can Whi	opy Species	<b>Density</b> High	Avg. Height	<b>Size</b> 10 - 20 feet	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 comalong well. There are pockets of very dense regeneration, and sor areas with only a few conifers regenerating. The canopy is scatter annd in clumps, causing BA to be highly variable. The area has		
34	Canopy Species White Pine	% Cover		<b>DBH</b>	Age	Sub-Can Whi	opy Species te Pine	Density	Avg. Height 10 - 20 feet 5 - 10 feet	Size	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 com along well. There are pockets of very dense regeneration, and sor areas with only a few conifers regenerating. The canopy is scatter annd in clumps, causing BA to be highly variable. The area has several wet depressions that are holding water. The terrain is		
34	Canopy Species White Pine	% Cover		<b>DBH</b>	Age	Sub-Can Whi Shee	opy Species te Pine p Laurel	Density High High	Avg. Height 10 - 20 feet	<b>Size</b> 10 - 20 feet 5 - 10 feet	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 comalong well. There are pockets of very dense regeneration, and sor areas with only a few conifers regenerating. The canopy is scatter annd in clumps, causing BA to be highly variable. The area has		
34	Canopy Species White Pine	% Cover		<b>DBH</b>	Age	Sub-Can Whi Shee Re Tag	opy Species te Pine p Laurel d Pine p Alder	Density High High High	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet	<b>Size</b> 10 - 20 feet 5 - 10 feet 10 - 20 feet	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 com along well. There are pockets of very dense regeneration, and sor areas with only a few conifers regenerating. The canopy is scatter annd in clumps, causing BA to be highly variable. The area has several wet depressions that are holding water. The terrain is		
34	Canopy Species White Pine	% Cover		<b>DBH</b>	Age	Sub-Can Whi Shee Re Tag Michig	opy Species te Pine p Laurel d Pine	Density High High High Medium	Avg. Height  10 - 20 feet  5 - 10 feet  10 - 20 feet  5 - 10 feet	Size 10 - 20 feet 5 - 10 feet 10 - 20 feet 5 - 10 feet	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 comalong well. There are pockets of very dense regeneration, and sor areas with only a few conifers regenerating. The canopy is scatter annd in clumps, causing BA to be highly variable. The area has several wet depressions that are holding water. The terrain is		
	Canopy Species White Pine	% Cover 20 80	Size Class	<b>DBH</b>	67	Sub-Can Whi Shee Re Tag Michig	opy Species te Pine p Laurel d Pine g Alder gan Holly	Density High High High Medium Low	Avg. Height  10 - 20 feet  5 - 10 feet  10 - 20 feet  5 - 10 feet  5 - 10 feet  5 - 10 feet	Size  10 - 20 feet  5 - 10 feet  10 - 20 feet  5 - 10 feet  5 - 10 feet  5 - 10 feet  5 - 10 feet	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 comialong well. There are pockets of very dense regeneration, and sor areas with only a few conifers regenerating. The canopy is scatter annd 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 McIvor Sand.  The ash in the stand has died out and it has converted to tag alde		
	Canopy Species White Pine Red Pine	% Cover 20 80	Size Class	<b>DBH</b> 17 16	67	Sub-Can Whi Shee Re Tag Michig Willo	opy Species te Pine p Laurel d Pine g Alder gan Holly ow spp.	Density High High High Medium Low Low	Avg. Height  10 - 20 feet  5 - 10 feet  10 - 20 feet  5 - 10 feet  5 - 10 feet  5 - 10 feet  No	Size 10 - 20 feet 5 - 10 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	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 com along well. There are pockets of very dense regeneration, and sor areas with only a few conifers regenerating. The canopy is scatter annd 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 McIvor Sand.  The ash in the stand has died out and it has converted to tag alde and Michigan holly. Some white pine and red maple occur in the		
36	Canopy Species White Pine Red Pine	% Cover 20 80	Size Class	<b>DBH</b> 17 16	67	Sub-Can Whi Shee Re Tag Michig Willo 10.5 Sub-Can	opy Species te Pine p Laurel d Pine g Alder gan Holly	Density High High High Medium Low	Avg. Height  10 - 20 feet  5 - 10 feet  10 - 20 feet  5 - 10 feet  5 - 10 feet  5 - 10 feet  5 - 10 feet	Size  10 - 20 feet  5 - 10 feet  10 - 20 feet  5 - 10 feet  5 - 10 feet  5 - 10 feet  5 - 10 feet	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 com along well. There are pockets of very dense regeneration, and sor areas with only a few conifers regenerating. The canopy is scatter annd 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 McIvor Sand.  The ash in the stand has died out and it has converted to tag alde		

Gladwin Mgt. Unit

Stand

Level 4 Cover Type

Size Density

Acres

Stand Age BA Range

Managed Site

150

6229 - Mixed Lowland Shrub

None

17.0

No

Compartment: 144
Year of Entry: 2027

17.0		No		The ash in the stand is gone. There is still some maple with scatt
Sub-Canopy Species	Density	Avg. Height	Size	birch. These are mainly along the edges of the stand. The stand now mostly tag alder over marsh grass. There are many areas of
Michigan Holly	Low	5 - 10 feet	5 - 10 feet	standing water. The soil under the stand is Wabun Muck.
Tag Alder	High	5 - 10 feet	5 - 10 feet	
Red Maple	Low	Variable	Variable	

4133 - Aspen, Mixed Pine Sapling Poor 157 **Canopy Species** % Cover Size Class **DBH Age** Red Maple 14 Pole 3 3 65 Pole 24 Bigtooth Aspen Red Pine 1 Pole 4 20 4 White Pine Pole

 2.3
 24
 Immature
 N/A

 Sub-Canopy Species
 Density
 Avg. Height
 Size

 Serviceberry (Juneberry)
 Low
 5 - 10 feet
 5 - 10 feet

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.

**General Comments** 

4133 - Aspen, Mixed Pine Sapling Medium 159 **Canopy Species** % Cover Size Class **DBH Age** Red Maple Pole 3 4 Quaking Aspen 15 Pole White Pine 30 Sapling 5 4 45 Pole 25 Bigtooth Aspen Paper Birch 5 3 Log

**Sub-Canopy Species** Size Density Avg. Height Tag Alder Low 5 - 10 feet 5 - 10 feet Common Blackberry High 5 - 10 feet 5 - 10 feet Sheep Laurel High 5 - 10 feet 5 - 10 feet

**Immature** 

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

45.2

None

33.7

25

No

N/A

Sub-Canopy Species	Density	Avg. Height	Size
Musclewood/Hornbeam	Low	10 - 20 feet	10 - 20 feet
Black Cherry	Low	10 - 20 feet	10 - 20 feet
Red Maple	Medium	>20 feet	>20 feet
American Elm	Low	10 - 20 feet	10 - 20 feet
Cattail spp.	High	Not Applicable	Not Applicable
Tag Alder	High	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	High	5 - 10 feet	5 - 10 feet
Michigan Holly	Low	5 - 10 feet	5 - 10 feet

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 - Natu	ral Mixed	Pine	Poletimb	er Wel	1 4.5	50	141-170	N/A	<b>A</b>
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Cand	py Spec	ies Density	Avg. Height	Size
	Bigtooth Aspen	15	Sapling	7		Whit	e Pine	Medium	10 - 20 feet	10 - 20 feet
	White Pine	40		11	50	Red	l Pine	Low	10 - 20 feet	10 - 20 feet
	Red Maple	5	Sapling	6		Bigtoot	h Aspen	Low	10 - 20 feet	10 - 20 feet
	Red Pine	40		13	50	Sheep	Laurel	Medium	5 - 10 feet	5 - 10 feet

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 McIvor Sand. This stand would benefit from a thinning.

Red Maple

			•				Year of Entry: 2027
Stand	Level 4 Cover Type	Size Density	Acres Stand Age B	A Range	Managed S	ite	General Comments
259	629 - Mixed non-forested Wetland	None	18.8		No	ı	This stand is mainly tag alder and Michigan holly over marsh grass
			Sub-Canopy Species	Density	Avg. Height	Size	with some open water along the south edge. The soil is Leafriver Muck.
			Michigan Holly	High	5 - 10 feet	5 - 10 feet	THUS.
			Tag Alder	High	5 - 10 feet	5 - 10 feet	
400	3303 - Mixed Low Density Trees	None	6.3	No	ı	There are islands of pole sized trees up to 90 BA on the north and	
			Sub-Canopy Species	Density	Avg. Height	Size	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
			Bigtooth Aspen	Low	>20 feet	>20 feet	laurel fields with a few white pines. The average BA for the stand is 40.
			Michigan Holly	Medium	5 - 10 feet	5 - 10 feet	
			Tag Alder	Low	5 - 10 feet	5 - 10 feet	
			Sheep Laurel	Full	5 - 10 feet	5 - 10 feet	
			White Pine	Medium	10 - 20 feet	10 - 20 feet	
			Paper Birch	Low	>20 feet	>20 feet	

Medium

>20 feet

>20 feet

Compartment: 144