Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73116
Entry Year: 2027
Acreage: 3,025
County: Midland

Management Area: Gladwin Lake Plain

Stand Examiner: Scott Shooltz

Legal Description:

T13N, R2W, Sec.1, 2, 4, 9-14, and 25 T13N, R1W, Sec. 7, 8, and 18

Identified Planning Goals:

Midland-Isabella management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character; threatened, endangered and special concern species; and provide for forest-based recreational uses. A significant portion of the management area is swampy and therefore relatively inaccessible. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen and oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. The aspen in the compartment has been heavily managed in the last 50 years with much of it less than 30 years old. In addition, the most recent aspen cuts have not regenerated well. This poor regeneration appears to be associated, at least partly, to a high deer population in the area. The other factor is poor site indexes and low vigor. The swamp hardwoods in the compartment have not been managed extensively in the last 30 year; this is mainly due to high water table under the compartment making many of these stands too wet to manage. Most stands are a mixture of upland and lowland. Therefore, the stands were called based on the observed percentage of one or the other. Some of these stands are only marginally upland or lowland. This makes management more challenging and when stands are put up for harvest, the cut acres may vary from the inventory acres significantly. One of the main concerns is the deer population in the compartment. Any final harvest done in the area may not regenerate well and will need additional monitoring time to determine treatment success.

Soil and topography:

The soils in the compartment are mainly a mixture of Covert, Pipestone, and Kingsville soil associations. There are smaller areas of Kinross association and Adrian muck in the wettest areas. The terrain is a matrix of upland and lowland. There are large areas that are mainly upland as well as large extensive marshes and lowland brush types. This mixture of upland and lowland is also present in the majority of stands. In addition, many stands have extensive micro relief in the form of hummocky ground.

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

Much of the stand land is in two contiguous areas with the majority purchased with Pittman-Robertson and State Game Fund dollars. Private ownership adjacent to the compartment is a mix of residential and recreational properties ranging from 10 to 160 acres. Several interior parcels require access through state land. No easements are in place.

Unique Natural Features:

Multiple eagle's nest are located in the compartment. Other records are near the compartment. There are records of Wood Turtles to the north and south, Red-shouldered Hawks to the north, Rainbow and Elktoe mussel to the south west, Beak Grass to the north and east, and Broad-leafed Puccoon to the north and south.

Archeological, Historical, and Cultural Features:

This compartment is part of the Porter Oil Fields that were started in the early 1900s. Therefore, there are numerous cultural features in the compartment associated with this development. Currently it is being reclaimed and old well sites are being restored. It appears that there was an old dump associated with this near McGrudder Road. This dump has been abandoned for many years. Some of the trees growing in the dump appear to be 40+ years old.

Special Management Designations or Considerations:

None recorded.

Watershed and Fisheries Considerations:

This compartment has an extensive wetlands complex that drains into the Chippewa River. Little Salt Creek passes through a small area of the compartment. Therefore, the fisheries considerations are minimal but the watershed considerations are significant.

Wildlife Habitat Considerations:

The following have been identified as featured species for this management area during this 10-year planning period:

- American woodcock
- Beaver
- Golden-winged warbler
- · Pileated woodpecker
- · Red-headed woodpecker
- Ruffed grouse
- · White-tailed deer

The primary focus of wildlife habitat management in the Midland-Isabella management area will be to address the habitat requirements identified for the listed featured species. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest; the retention of large overmature trees and snags; the maintenance and expansion of hard mast; and mesic conifer components. Deer browse has been a significant management issue over the past 10 - 20 years within the compartment. Many of the aspen stands that were harvested in the last 20 years have had mixed results in regeneration. This is especially evident in the last YOE. The regeneration is very patchy with many dead stems around live clones with signs of deer browse. Although deer browse is only one of the contributing factors to the poor regeneration it is most likely a significant one. Regenerating current aspen stands to full stocking may prove difficult and may alter habitat within this compartment.

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 and oil & gas infrastructure, which could inhibit surface mining. A significant portion of the Porter Jasper Oil & Gas Field coincides with the compartment, but the field is mostly abandoned with just a few remaining producing wells. There have been a few in-field wells drilled within the last ten years and some recent leasing activity involving adjacent State-owned mineral rights within the compartment, but overall potential for future oil & gas production within the compartment is considered low at this time. Some natural brine production occurs in areas around the compartment. There may be potential for additional brine resources beneath the compartment, but the likelihood for development of additional brine production wells within the compartment is considered low. No known potential exists for commercial production of metallic minerals in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

The main access for the majority of the compartment is through a gate on McGrudder Road. This gate is seasonally open from November 6th to January 1st. The trail system behind that gate is in good shape and provides good access to most of the compartment. The western section of the compartment is accessed from S. Alamamdo Road and S. Lewis Road using some existing two-track. The access to this area is fair but a large area in sections 9 and 10 has limited access. All roads in the compartment are restricted to state highway licensed vehicle use.

Survey Needs:

There have been several private surveys done and parts of the Porter Oil Field have been surveyed by Chevron. Survey needs are still required in multiple sections throughout the compartment to complete management activities.

Recreational Facilities and Opportunities:

There is no developed recreational facility in the compartment. In addition, much of the area, Porter Oil Field, has been gated and seasonally blocked, restricting vehicular access. There are some two-tracks present around the edges of the compartment. The area is still heavily hunted. The gate into the Porter Oil Field is open from November 1st until January 1st. Due to the proximity of private land ownership some undesignated ORV trails are highly likely within the compartment where gates are not present. Utilize forest management practices to curtail damage by off road vehicle use.

Fire Protection:

This area is a mixture of lowland forests, non-forested wetland, and forested/non-forested dry ridges. Wildfire danger overall is minimal in this compartment although occasional small fires do occur do to dispersed recreation activities. Fire as a management tool may have a place within this compartment. Consider opportunities to re-introduce fire in the oak/pine areas to encourage pine and oak regeneration and to discourage competition; to incorporate fire as a tool to restore or maintain managed openings; and restore wetlands to native vegetation.

Additional Compartment Information:

In section 4 of T13NR2W is an 800 MHz radio tower. This compartment also contains multiple isolated parcels 10 acres and under. These will be recommended for disposal as well.

The following reports from the Inventory are attached:

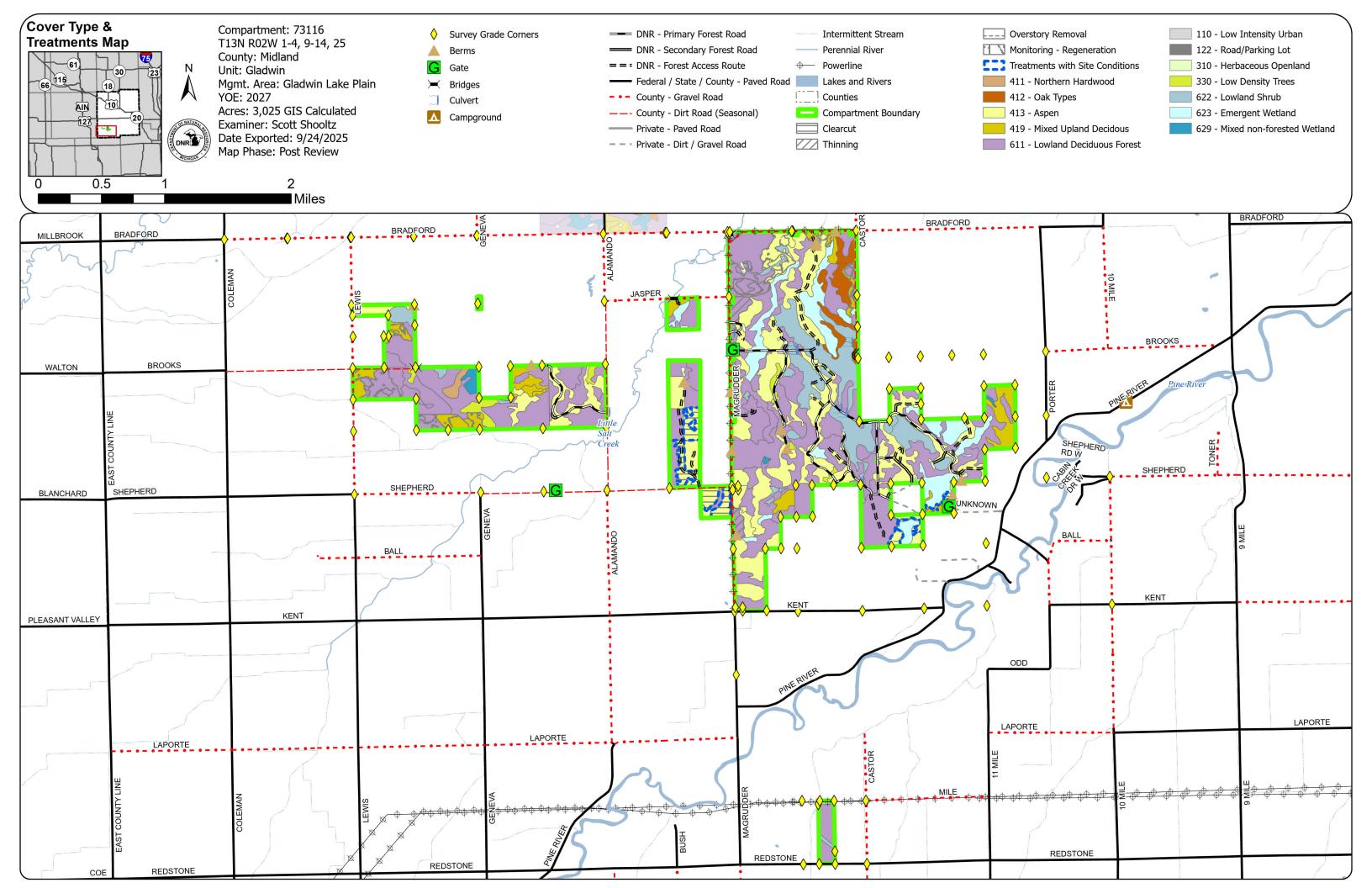
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

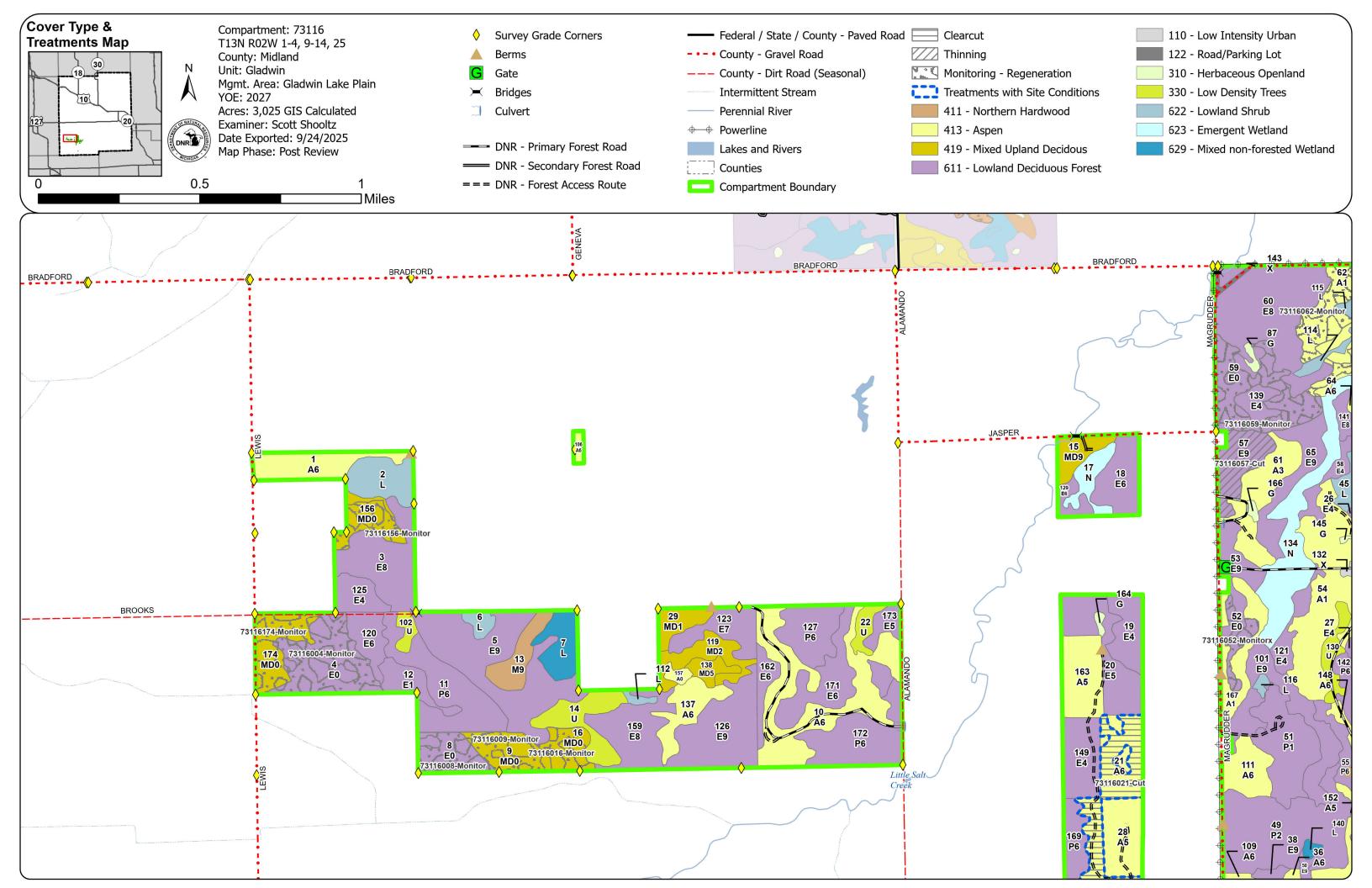
The following information is displayed, where pertinent, on the attached compartment maps:

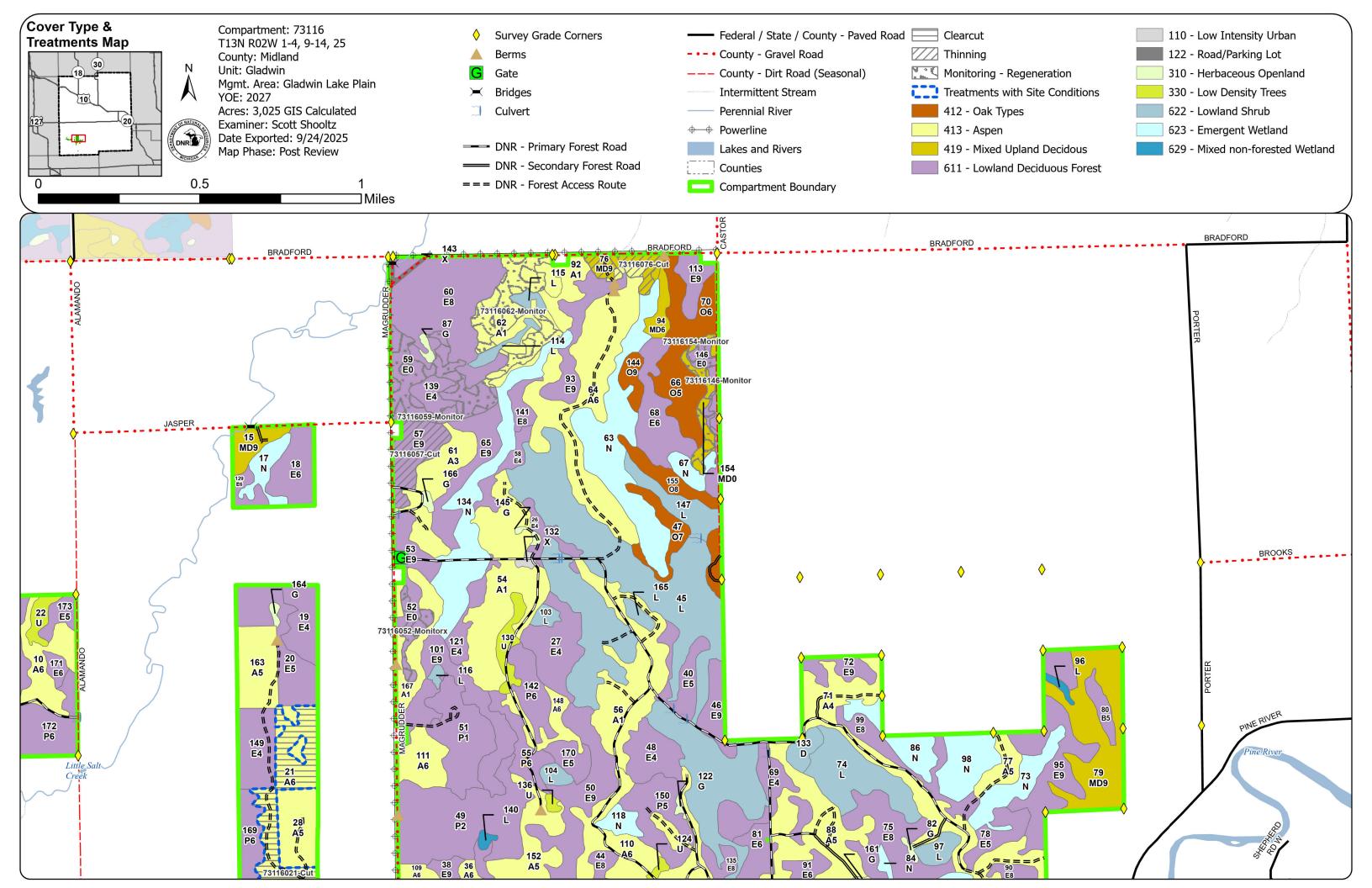
Base feature information, stand boundaries, cover types, and numbers Proposed treatments

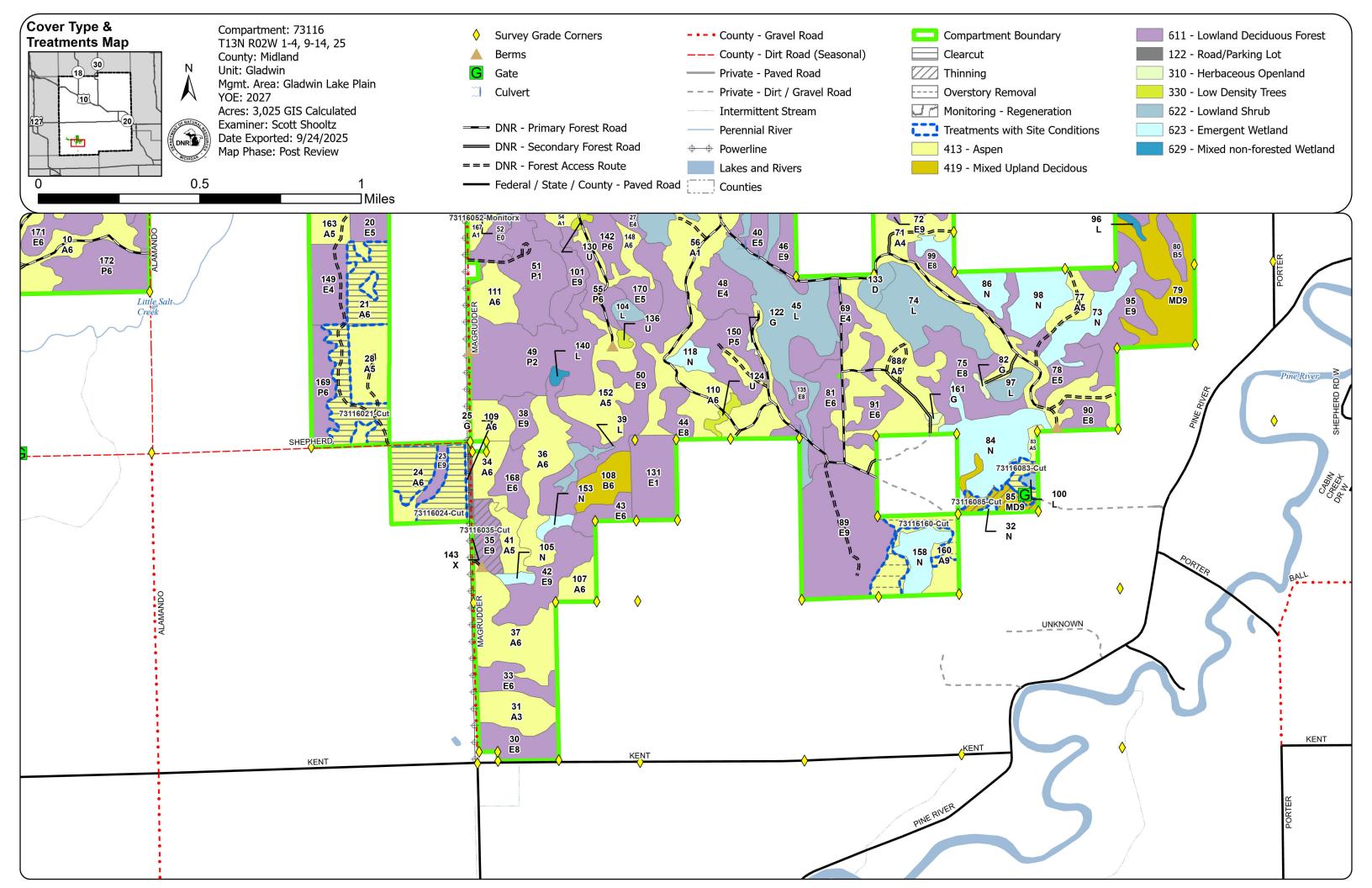
Site condition boundaries

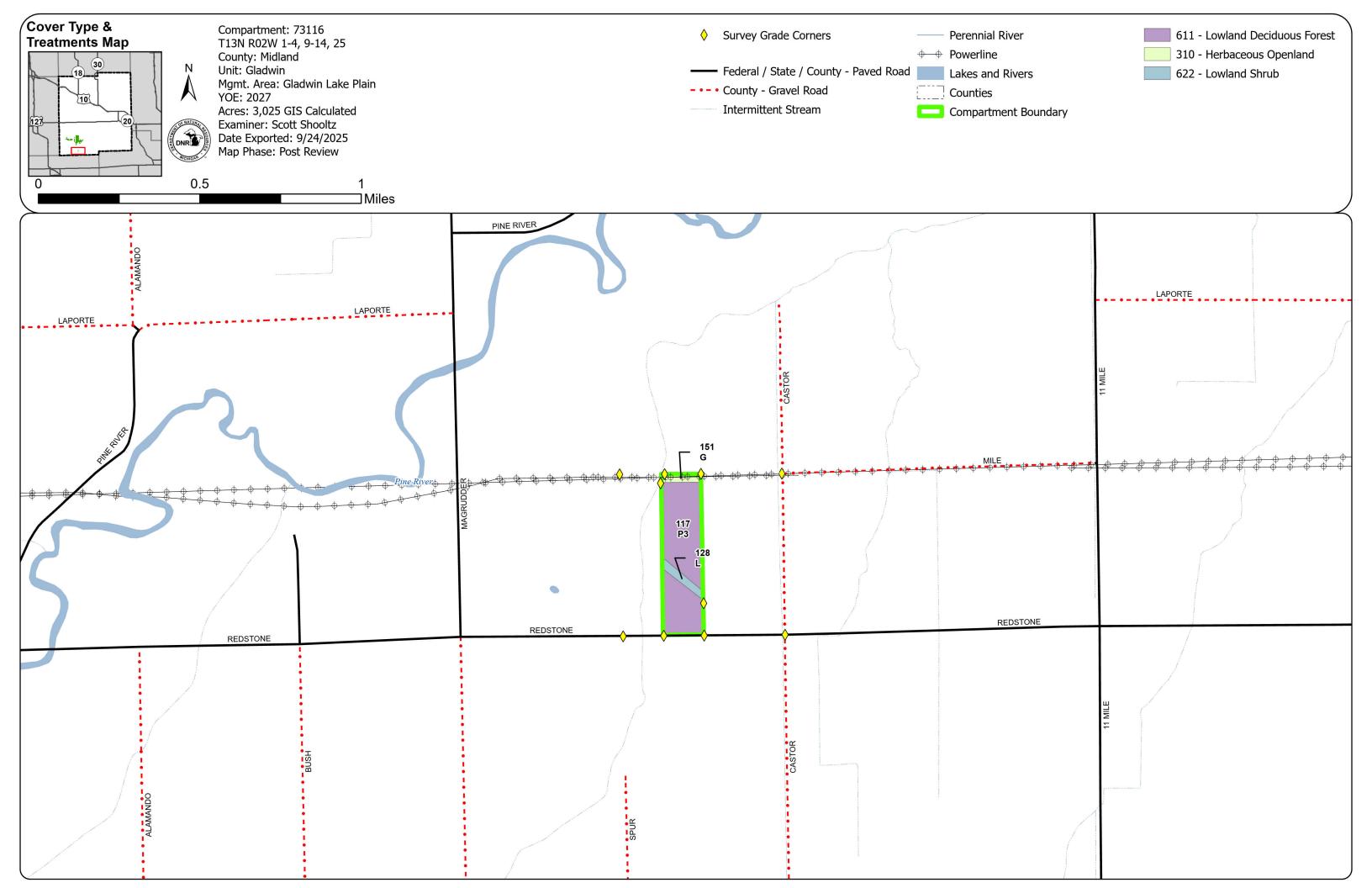
Details on the road access system

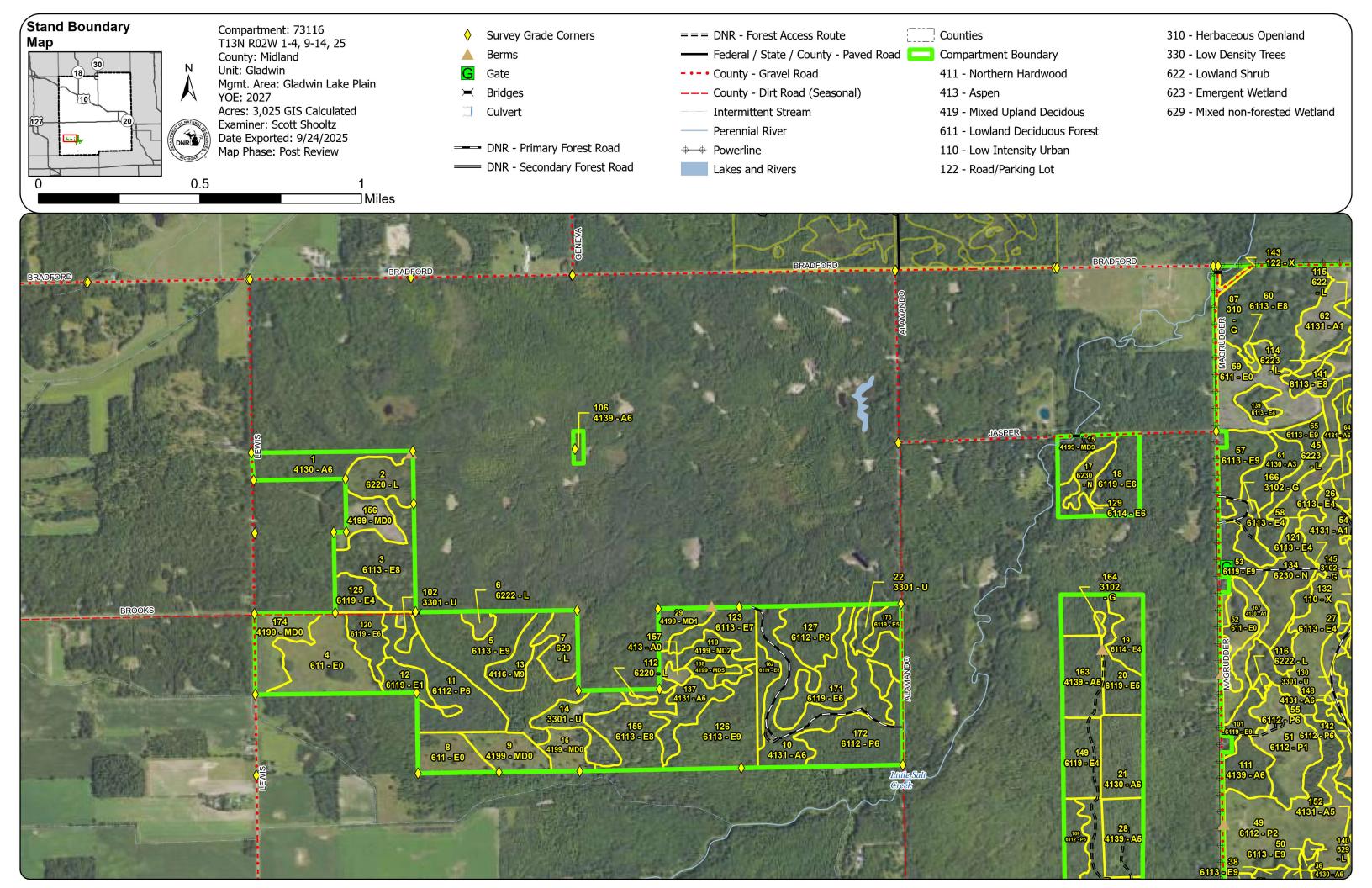


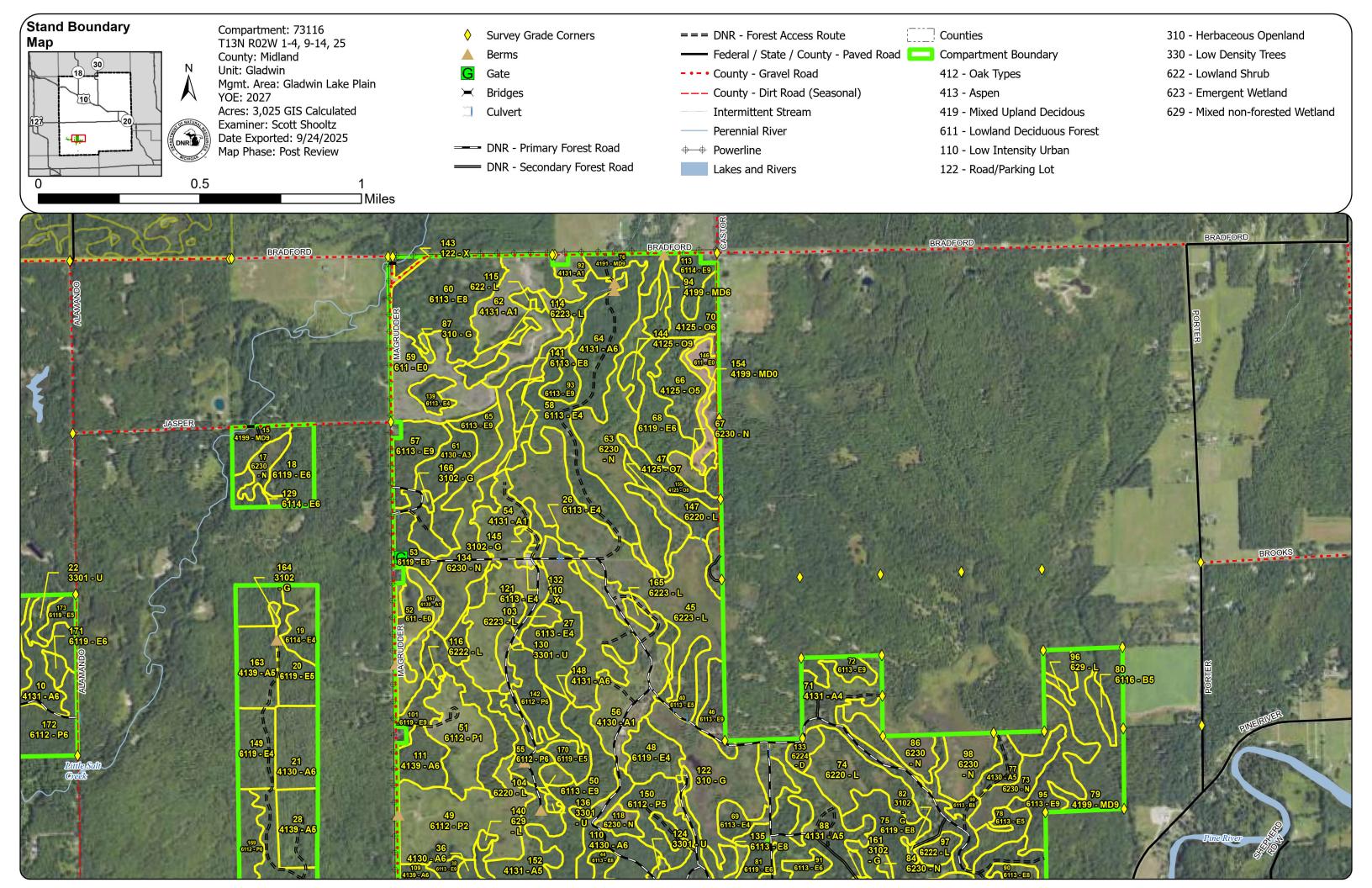


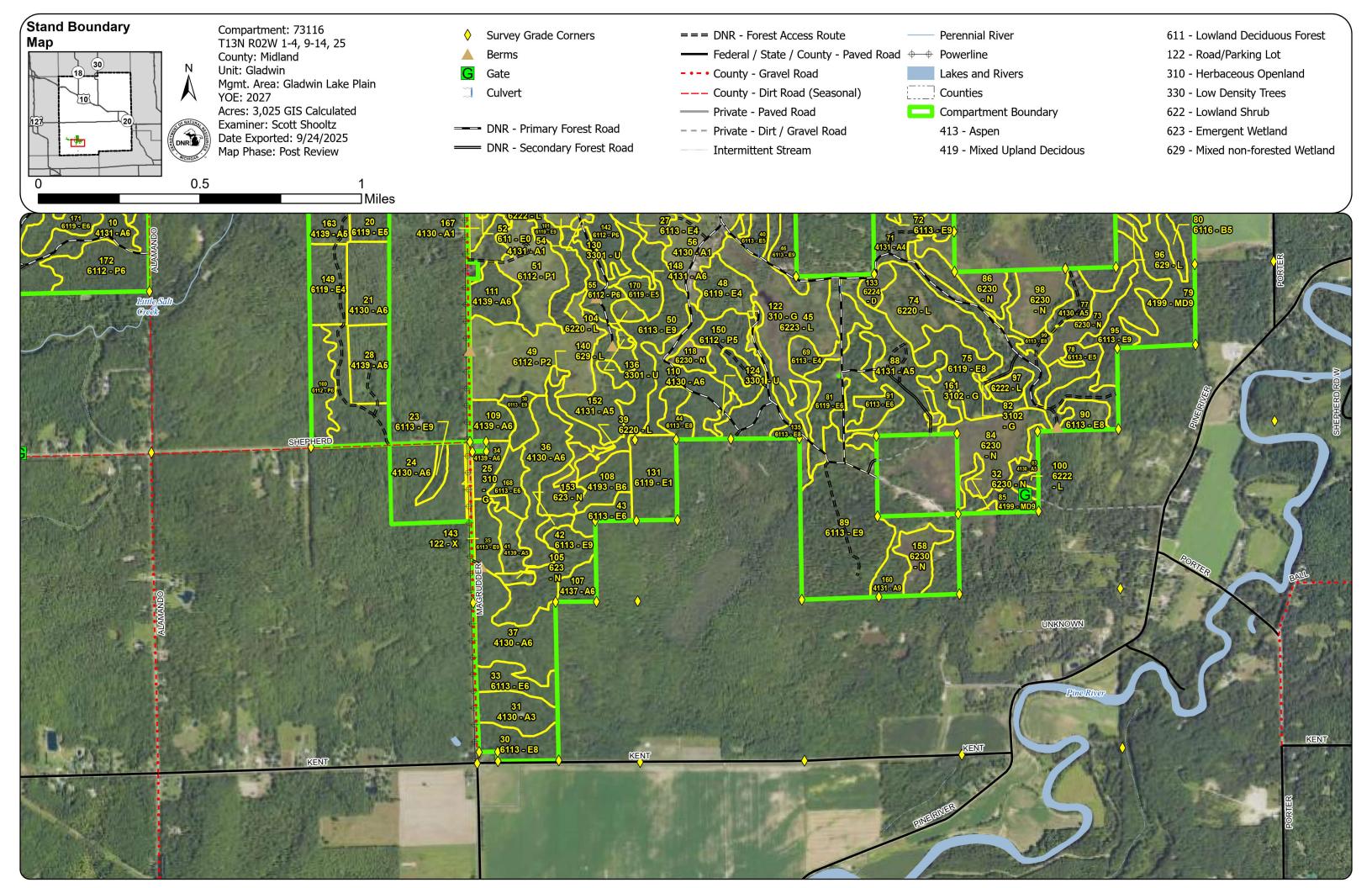


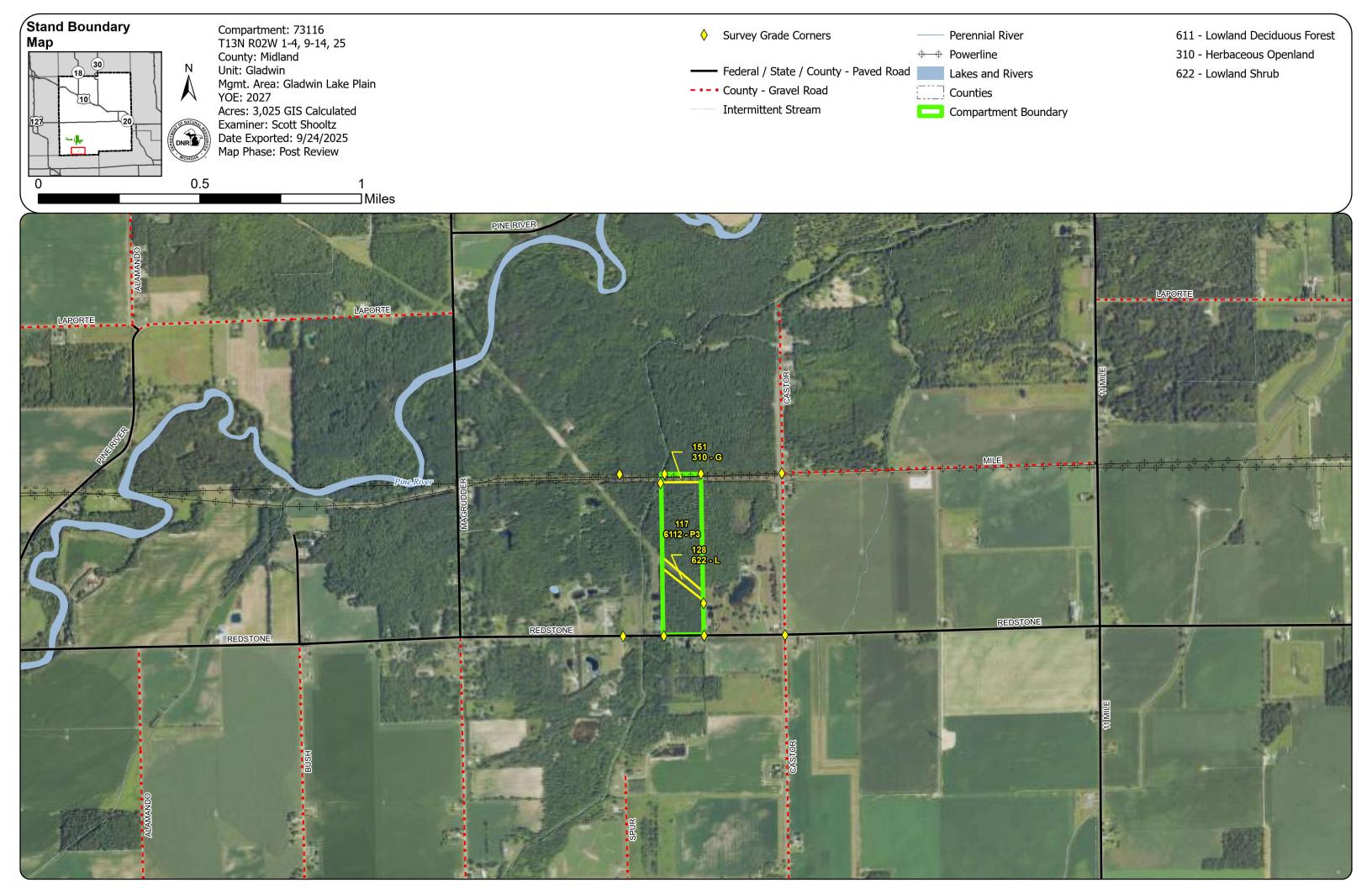


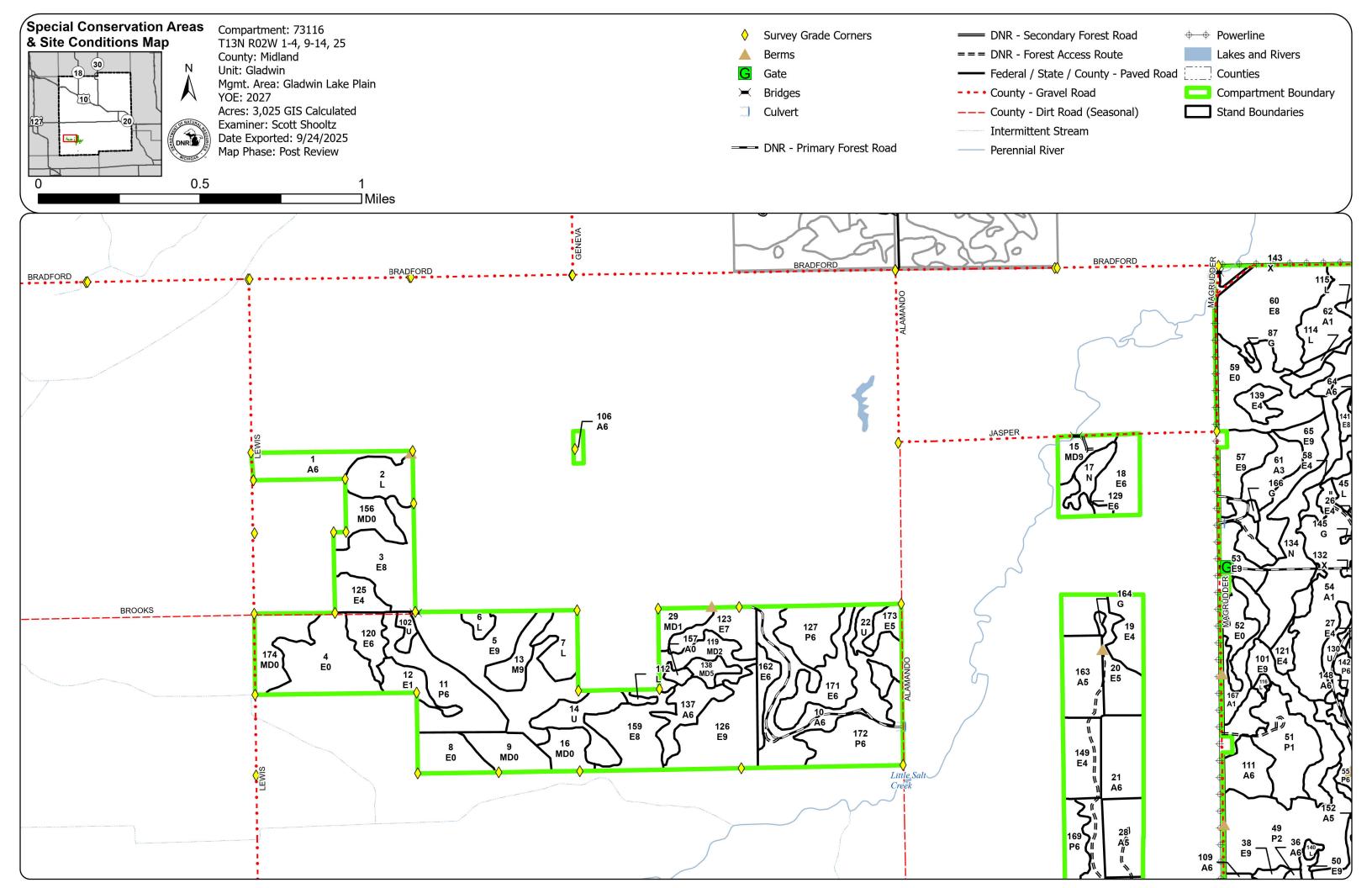


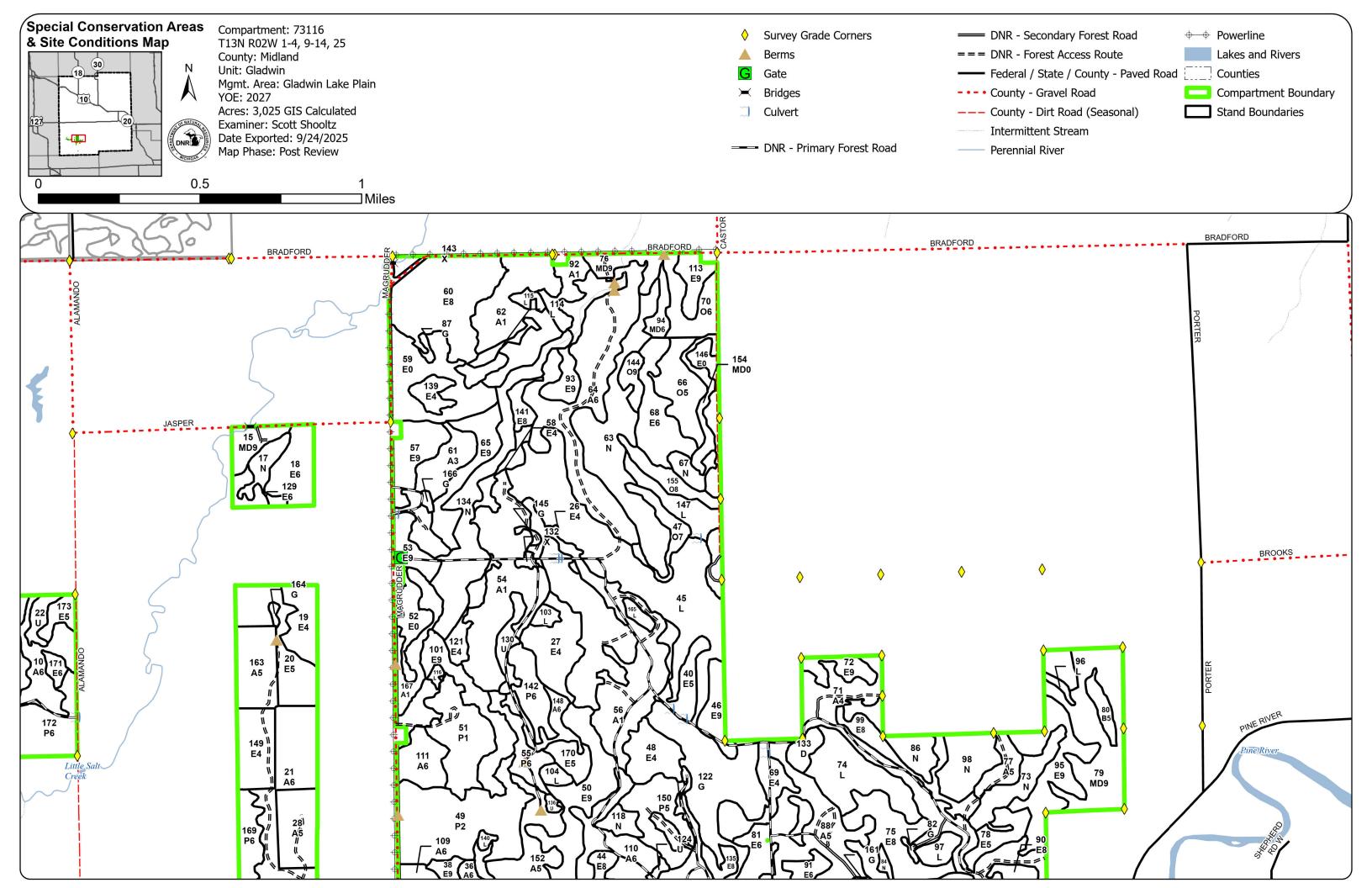


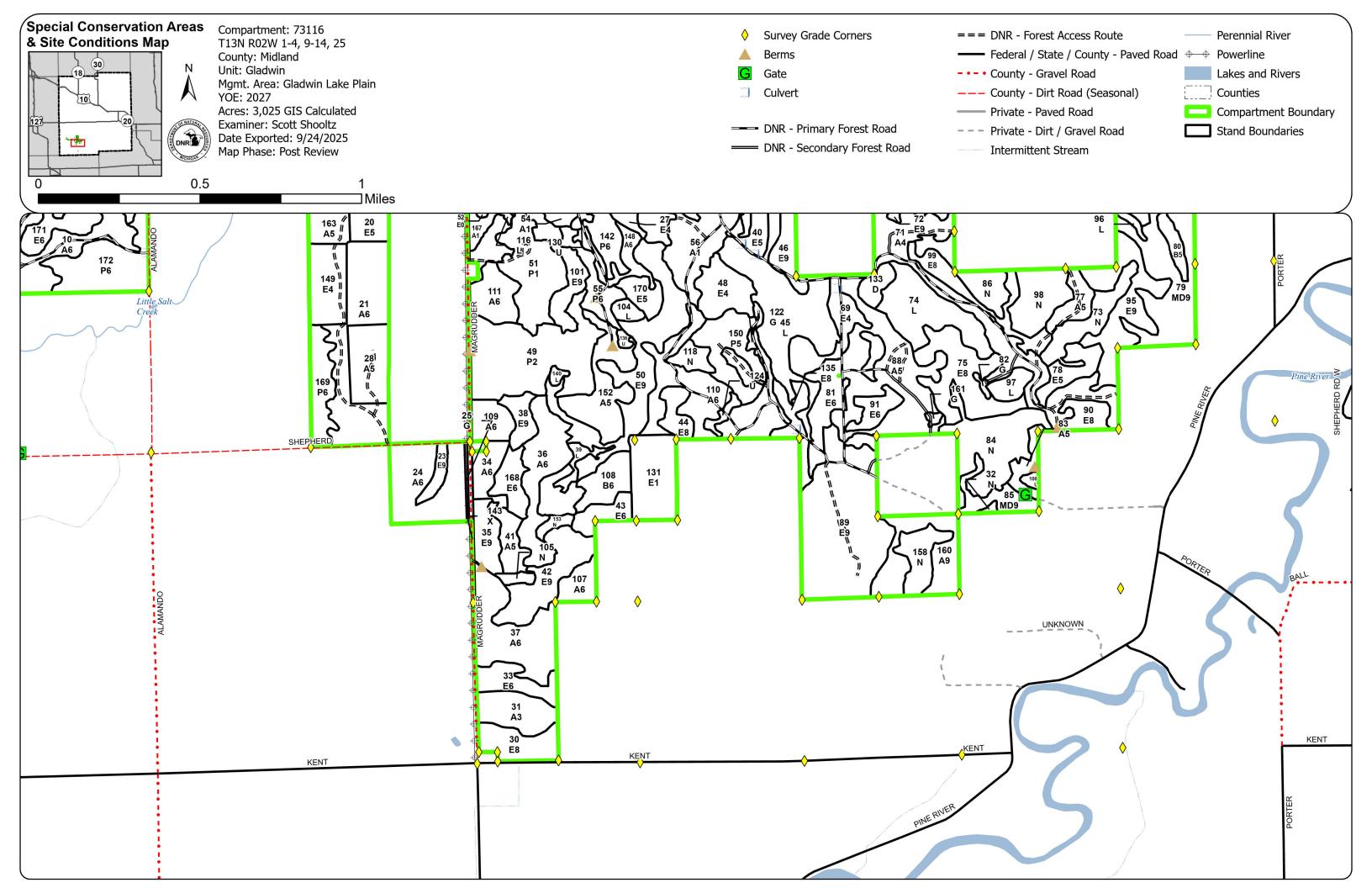


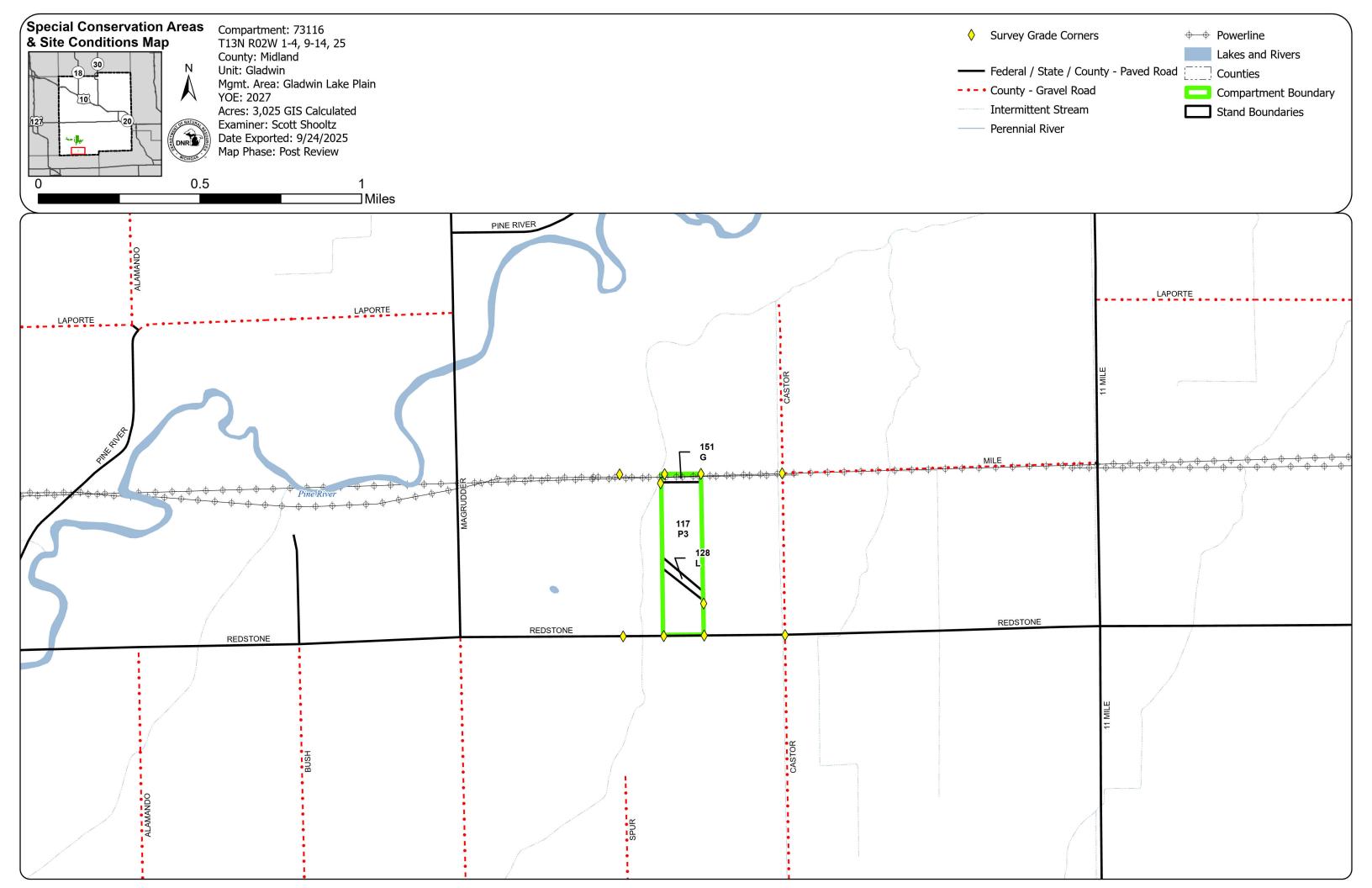












Gladwin Mgt. Unit Scott Shooltz: Examiner

Age Class

	No.	KO C	3 / 2	\$ \ \$	\$ / kg	3 /	& &	3 /8	3 / 1	\$ \ \$	\$ \ &	8 /35	70 10 N			\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	B. J.	g Jree	LANGE LANGE
Aspen	2	162	0	156	297	172	7	2	0	25	0	0	0	0	0	0	0	0	821
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Low-Density Trees	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Aspen/Balsam Poplar	0	83	35	0	81	63	0	0	0	0	0	0	0	0	0	0	0	0	262
Lowland Deciduous	104	0	0	10	110	46	51	204	44	191	23	166	0	0	0	0	0	152	1100
Lowland Shrub	291	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	291
Marsh	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
Mixed Upland Deciduous	67	0	0	14	8	14	0	45	15	10	0	0	0	0	0	0	0	0	173
Northern Hardwood	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Oak	0	0	0	0	0	0	0	45	21	0	0	0	0	0	0	0	0	0	66
Paper Birch	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Treed Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	743	245	35	180	515	295	58	308	80	226	23	166	0	0	0	0	0	152	3022

Report 2 – Treatment Summary

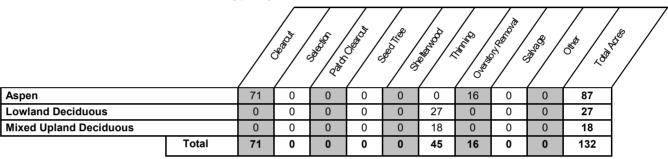
Gladwin Mgt. Unit Year of Entry: 2027

Acres of Harvest

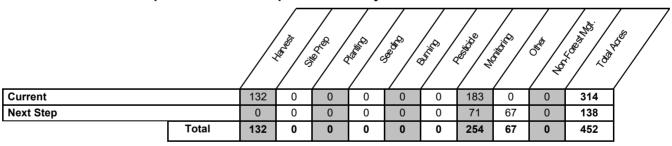
Compartment 116
Total Compartment Acres: 3,025

Commercial Harvest - 37 Harvests with Site Condition - 232 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



S t		Giadwi	n Mgt. Unit		Kepoi	τ3	Freatments		Compartmer 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	Habi Cu
ove	<u>d Treatmer</u>	ıts:									
4	73116004- Monitor	32.0	611 - Lowland Deciduous Forest	0	5		Monitoring	Monitoring - Regeneration	611 - Lowland Deciduous Forest	Planting Record	N
Presc Specs		r to detern	nine if acceptable le	vels of reg	eneratio	n make it	above 4 ft.				
Next S Treatr	<u>Step</u> ments:										
Accep Reger		ix of speci	es meeting minimur	m stocking	levels.						
Other Comn											
	Condition:										
Propo											
	sed Start Date	<u>:</u> 10/01/2	029								
Presc Specs Next S	73116008- Monitor cription Determ s: Step ments: otable Any m n: Severa	13.8 nine if ade ix of specie	611 - Lowland Deciduous Forest quate amounts of re	n stocking	levels.				611 - Lowland Deciduous Forest	Planting Record	
Presc Specs Next S Treatr Accep Reger Other Comm	73116008- Monitor cription Determ s: Step ments: cotable Any m n: Severa ment: the sta	13.8 nine if ade ix of special pockets and.	611 - Lowland Deciduous Forest quate amounts of re es meeting minimur of aspen noted alon	egeneration n stocking ng north ed	n are est levels. ge durin	ified ablished a	and over browse	Regeneration height. er pockets of heav	Deciduous Forest ily browsed regen	Record	center o
8 Presc Specs Specs Next S Treatr Accep Reger Other Comm Site C Propo	73116008- Monitor cription Determ s: Step ments: cotable Any m n: Severa ment: the sta Condition: cosed Start Date 73116009- Monitor	13.8 nine if ade ix of special pockets and.	611 - Lowland Deciduous Forest quate amounts of re es meeting minimur of aspen noted alon 029 4199 - Other Mixed Upland Deciduous	egeneration n stocking ng north ed	levels. ge durin	ified ablished a	DE. A few smalle	Regeneration height. er pockets of heav Monitoring - Regeneration	Deciduous Forest	Record	No center of No
8 Presc Specs Specs Next S Treatr Accep Reger Other Comm Site C Propo	73116008- Monitor Pription Determination Step Ments: Otable Any minimate Any min	13.8 nine if ade ix of special pockets and.	611 - Lowland Deciduous Forest quate amounts of re es meeting minimur of aspen noted alon 029	egeneration n stocking ng north ed	levels. ge durin	ified ablished a	DE. A few smalle	Regeneration height. er pockets of heav Monitoring - Regeneration	Deciduous Forest ily browsed regen 4199 - Other Mixed Upland	eration in the o	center of
8 Presc Specs Next \$5 Next \$5 Next \$6 Presc Site C Propo 9 Presc Specs Next \$5 Next \$6 Next \$	73116008- Monitor Sription Determination Step Ments: Otable Any min: Severament: the state Condition: Desed Start Date 73116009- Monitor Sription Determination Step Monitor	13.8 nine if ade ix of special pockets and.	611 - Lowland Deciduous Forest quate amounts of re es meeting minimur of aspen noted alon 029 4199 - Other Mixed Upland Deciduous	egeneration n stocking ng north ed	levels. ge durin	ified ablished a	DE. A few smalle	Regeneration height. er pockets of heav Monitoring - Regeneration	Deciduous Forest ily browsed regen 4199 - Other Mixed Upland	eration in the o	center of
8 Presc Specs Next S Treatr Accep Reger Other Comn Site C Propo 9 Presc Specs Next S Treatr Accep	73116008- Monitor Pription Determination Step Ments: Otable Any minimate Any min	13.8 nine if ade ix of special pockets and. 10/01/2 15.4	611 - Lowland Deciduous Forest quate amounts of re es meeting minimur of aspen noted alon 029 4199 - Other Mixed Upland Deciduous	egeneration n stocking g north ed 0	levels. ge durin 3	ified ablished a	DE. A few smalle	Regeneration height. er pockets of heav Monitoring - Regeneration	Deciduous Forest ily browsed regen 4199 - Other Mixed Upland	eration in the o	center of
8 Presc Specs Next S Treatr Accep Reger Other Comn Site C Propo 9 Presc Specs Next S Treatr	73116008- Monitor Sription Determination Step Ments: Step Ments: Several Ments: Several Ments: Seed Start Date 73116009- Monitor Step Monitor Step Ments: Step Ments: A sma	13.8 nine if ade ix of special pockets and. 10/01/2 15.4 nine if ade	611 - Lowland Deciduous Forest quate amounts of re es meeting minimur of aspen noted alon 029 4199 - Other Mixed Upland Deciduous quate amounts of re	egeneration n stocking g north ed 0 egeneration	levels. ge durin 3 n are est	ified ablished a g 2027 Yo Immatu re ablished a	DE. A few smalle	Regeneration height. er pockets of heav Monitoring - Regeneration height.	Deciduous Forest ily browsed regen 4199 - Other Mixed Upland	eration in the o	center of
8 Presc Specs Next S Treatr Accep Reger Other Comn Site C Propo 9 Presc Specs Treatr Accep Reger Other Comn	73116008- Monitor Sription Determination Step Ments: Step Ments: Several Ments: Several Ments: Seed Start Date 73116009- Monitor Step Monitor Step Ments: Step Ments: A sma	13.8 nine if ade ix of special pockets and. 10/01/2 15.4 nine if ade	611 - Lowland Deciduous Forest quate amounts of re es meeting minimur of aspen noted alon 029 4199 - Other Mixed Upland Deciduous quate amounts of re	egeneration n stocking g north ed 0 egeneration	levels. ge durin 3 n are est	ified ablished a g 2027 Yo Immatu re ablished a	DE. A few smalle	Regeneration height. er pockets of heav Monitoring - Regeneration height.	Deciduous Forest ily browsed regen 4199 - Other Mixed Upland	eration in the o	center o

S t		Gladwi	in Mgt. Unit		Repoi	rt 3 1	Freatments		Compartmer 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	Habita Cut
52	73116052- Monitorx	6.9	611 - Lowland Deciduous Forest	0	5		Monitoring	Monitoring - Regeneration	611 - Lowland Deciduous Forest	Planting Record	No
Pres Spec	<u>cription</u> Monito	r during F	Y 2030.								
	Step_ tments:										
Acce Reg		x of speci	es meeting minimum	stocking	levels.						
Othe Com	<u>er</u> iment:										
Site	Condition:										
Prop	osed Start Date	<u>:</u> 10/01/2	029								
57	73116057-Cut	16.6	6113 - Lowland Maple	9	84	81-110	Harvest	Thinning	611 - Lowland Deciduous Forest	Planting Record	No
Acce Reg Othe Com		-	ry or frozen conditior 026	ns.							
59	73116059- Monitor	30.5	611 - Lowland Deciduous Forest	0	4		Monitoring	Monitoring - Regeneration	611 - Lowland Deciduous Forest	Planting Record	No
Pres Spec		nine if acc	eptable natural reger	neration is	establis	shed.					
	Step tments:										
Acce Reg		x of speci	es meeting minimum	stocking	levels.						
Othe Com	er iment:										
	_										
Site	Condition:										

<u>Site Condition:</u> Unknown Access <u>Proposed Start Date:</u> 10/01/2026

s t		Gladwi	n Mgt. Unit		Repo	rt 3 1	Treatments		Compartment Year of Entry		
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
146	73116146- Monitor	7.0	611 - Lowland Deciduous Forest	0	3		Monitoring	Monitoring - Regeneration	611 - Lowland Deciduous Forest	Planting Record	No
Preso Specs	<u>cription</u> Monito s:	r during F	Y 2030.								
Next S Treat	<u>Step</u> ments:										
Accer Rege		ix of speci	es meeting minimum	stocking	levels.						
Other Comr	-										
Site C	Condition:										
Propo	osed Start Date	<u>:</u> 10/01/2	2029								
154	73116154- Monitor	8.9	4199 - Other Mixed Upland Deciduous	0	3	Immatu re	Monitoring	Monitoring - Regeneration	4199 - Other Mixed Upland Deciduous	Planting Record	No
Preso Specs	<u>cription</u> Monito s:	r during F	Y 2030.								
Next S Treat	Step ments:										
Accer Rege		ix of decid	uous species meetin	g regener	ation sto	ocking leve	els.				
Other Comr	• •										
Site C	Condition:										
Propo	osed Start Date	<u>:</u> 10/01/2	029								
156	73116156- Monitor		4199 - Other Mixed Upland Deciduous	0	3	Immatu re	Monitoring	Monitoring - Regeneration	4139 - Aspen, Mixed Deciduous	Planting Record	No
Preso Specs		r in 5 year	s to determine regen	eration su	iccess.						
Next S Treat	Step ments:										
Accer Rege		ix of speci	es meeting minimum	stocking	levels.						
Other Comr		l knolls ha	d regeneration in pla	ce during	2027 Y	OE invento	ory but was not	over browse heigh	nt.		
Site C	Condition:										

_		Gladwii	n Mgt. Unit		Repoi	rt 3 T	reatments		Compartmen		
S t									Year of Entr	y: 2027	
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
160	73116160-Cut	15.6	4131 - Aspen, Oak	9	87	81-110	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Planting Record	No
Spec	s: the US		n. Mark to cut other nal Bald Eagle Mana							estrictions as	outlined in
	<u>Step</u> ments:										
Acce Rege		scattered p	ockets of aspen and	d released	underst	tory maple	e. Browse damaç	ge will be prevalen	t.		
Other Com			y/frozen conditions. ough stand 89 will be							operty access	s is denied
Site 0	Condition: Unk	nown Acc	ess								
Propo	osed Start Date	<u>:</u> 10/01/20	026								
174	73116174- Monitor		1199 - Other Mixed Upland Deciduous	0	5	Immatu re	Monitoring	Monitoring - Regeneration	4199 - Other Mixed Upland Deciduous	Planting Record	No
Preso Spec		r to determ	nine if acceptable lev	vels of reg	eneratio	n make it	above 4 ft.				
Next Treat	Step ments:										
Acce Rege		x of specie	es meeting minimum	n stocking	levels.						
Other Comi	<u>r</u> ment:										
Site 0	Condition:										
Propo	osed Start Date	<u>:</u> 10/01/20	029								

Total Treatment Acreage Proposed: 314.1

Gladwin Mgt. Unit

Scott Shooltz: Examiner



Compartment: 116 Year of Entry: 2027

Availa	ability for	Managemer	nt									
Total	Acres	Acres Avail	Acres	D	omina	nt Sit	e Con	dition	S			
Acres	Available	With Condition	Not Available		2B	21	5C	1D	2G	3J	5A	5E
700	574	93	34	Aspen	25	68		2	16			16
11	11	0	0	Herbaceous Openland								
38	38	0	0	Low-Density Trees								
237	213	0	24	Lowland Aspen/Balsam Poplar					21			3
854	284	0	570	Lowland Deciduous					551			19
291	291	0	0	Lowland Shrub								
210	210	0	0	Marsh								
136	70	10	55	Mixed Upland Deciduous	10				4	2	50	
12	12	0	0	Northern Hardwood								
55	45	6	4	Oak			6		3			1
18	13	0	6	Paper Birch					6			
6	6	0	0	Treed Bog								
14	14	0	0	Urban								
2,581	1,780	109	693	Total Forested Acres	35	68	6	2	599	2	50	40
	69%	4%	27%	Relative Percent				_			_	

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
-	Comments: North 2 acres of asp	en is retention for stand to the	e west.				
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

Gladwin Mgt. Unit Scott Shooltz: Examiner



3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6				
	Comments: Delay harvest to al	low succession to continue and	to divers	sify size class in the area.			
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	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)	8	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
16	Unavailable	5A: Not able to obtain desirable regeneration	13	2D: Portable bridge needed (Dept. bridge will be adequate)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
[high in this area. Unable to es nknown if access across priva			result. Turkey Drain runs ald	ong west boundary of star	nd portable bridge
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	106				
	Comments:						
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
20	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Terrain becomes m	ore hummocky east of closed	road. S	Surrounding stand had poor	est regeneration in this terra	ain type.	

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21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
23	Available	2I: Survey needed	40	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47				
C	Comments:						

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		2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Co	omments:						
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
_	omments: entral portion of th	ne stand is very wet.					
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Co	omments:						
30	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	Unspecified	Unspecified	Unspecified	Unspecified
	omments: cess is likely pos	sible through Summits Petroleu	m's land.				
31	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
	omments: cess is likely pos	sible through Summits Petroleu	m's land.				

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32	Available	2B: Unknown if access through adjacent landowner(s) is possible	19	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
34	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Little Salt Creek but	ffer 100 ft.					
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
37	Unavailable	1D: Interest group/neighbor	2	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
L	Comments: .andlocked parcel. ist.	Unknown if access through ad	jacent	parcels is possible. Parcel is t	oo small to accommod	ate management activities.	Place on the disposal

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38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
39	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
41	Unavailable	5E: Long-Term Retention	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
C	Comments:						
42	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
C	Comments:						
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24				
C	Comments:						
ı							

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Unavailable	2G: Too wet (sensitive soils, does not include	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:	access issues)					
Unavailable	3L: Other wildlife concerns	2	Unspecified	Unspecified	Unspecified	Unspecified
	Liller					
risual butter for wi	idlife opening.					
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	l 59 (surrounding stand). Also to	o wet	to harvest.			
Unavailable	5E: Long-Term Retention	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	l 62 also too wet.					
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
	Unavailable Comments: //isual buffer for wi Unavailable Comments: Unavailable Comments: Retention for stand Unavailable Comments: Retention for stand	Soils, does not include access issues) Comments: Unavailable 3L: Other wildlife concerns Comments: //sual buffer for wildlife opening. Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Unavailable 5E: Long-Term Retention Comments: Retention for stand 59 (surrounding stand). Also to Unavailable 5E: Long-Term Retention Comments: Retention for stand 62 also too wet. Unavailable 2G: Too wet (sensitive soils, does not include access issues)	soils, does not include access issues) Comments: Unavailable 3L: Other wildlife concerns 2 Comments: //sual buffer for wildlife opening. Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Unavailable 5E: Long-Term Retention 7 Comments: Retention for stand 59 (surrounding stand). Also too wet Unavailable 5E: Long-Term Retention 5 Comments: Retention for stand 62 also too wet. Unavailable 2G: Too wet (sensitive soils, does not include access issues)	Soils, does not include access issues) Comments: Unavailable 3L: Other wildlife concerns 2 Unspecified Comments: //isual buffer for wildlife opening. Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Unavailable 5E: Long-Term Retention 7 2G: Too wet (sensitive soils, does not include access issues) Comments: Retention for stand 59 (surrounding stand). Also too wet to harvest. Unavailable 5E: Long-Term Retention 5 2G: Too wet (sensitive soils, does not include access issues) Comments: Retention for stand 62 also too wet. Unavailable 2G: Too wet (sensitive soils, does not include access issues) Unavailable 2G: Too wet (sensitive soils, does not include access issues)	Soils, does not include access issues) Unavailable 3L: Other wildlife concerns 2 Unspecified Unspecified Comments: //isual buffer for wildlife opening. Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Unavailable 5E: Long-Term Retention 7 2G: Too wet (sensitive soils, does not include access issues) Comments: Retention for stand 59 (surrounding stand). Also too wet to harvest. Unavailable 5E: Long-Term Retention 5 2G: Too wet (sensitive soils, does not include access issues) Comments: Retention for stand 62 also too wet. Unavailable 2G: Too wet (sensitive soils, does not include access issues) Unspecified Unspecified Unspecified Unspecified Unspecified soils, does not include access issues)	Solls, does not include access issues) Unavailable 3L: Other wildlife concerns 2 Unspecified Unspecified Unspecified Comments: Visual buffer for wildlife opening. Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Unavailable 5E: Long-Term Retention 7 2G: Too wet (sensitive soils, does not include access issues) Comments: Retention for stand 59 (surrounding stand). Also too wet to harvest. Unavailable 5E: Long-Term Retention 5 2G: Too wet (sensitive soils, does not include access issues) Comments: Retention for stand 59 (surrounding stand). Also too wet to harvest. Unavailable 5E: Long-Term Retention 5 2G: Too wet (sensitive soils, does not include access issues) Comments: Retention for stand 62 also too wet. Unavailable 2G: Too wet (sensitive soils, does not include access issues)

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51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
52	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
53	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
54	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
56	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
57	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

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58	Unavailable	5E: Long-Term Retention	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
(Comments:						
59	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
60	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
61	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
62	Available	2I: Survey needed	28	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Survey needed to c	determine trespass along wester	n edge	e of stand and southern bour	ndary line of the timber sa	le.	
63	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
64	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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65	Unavailable	5E: Long-Term Retention	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						
66	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
68	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
•	Comments:						
69	Unavailable	5A: Not able to obtain desirable regeneration	32	Unspecified	Unspecified	Unspecified	Unspecified
•	Comments:						
70	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
71	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

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

Stand	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age I	BA Range	Managed S	ite	General Comments	
1	4130 Canopy Species Bigtooth Aspen Northern Pin Oak Red Maple Quaking Aspen	- Aspen % Cover 60 5 15 20	Size Class Sapling	Poletimb DBH 9 9 7 9	Age 40 40 40 40	19.2	40	111-140	N/A		2022 Sale Closure: Former stand 1 separated into 2 stands. Southern portion (now stand 210) was harvested during the winter of 2021 under contract High Tower Mix. 2017 YOE Inventory: SE block separated by a forested drain approximately 40 - 50 feet wide. Accessing from the south may be the better option.	
2	6220 - A	lder/Willow	1	Nor	ne	16.2			No		The stand is an L-Type of willow, tag alder and buttonbush. There are	
						Sub-Ca	nopy Species	Density	Avg. Height	Size	pockets in the stand that are closer to an N-Type with cattails and marsh grass. Dead ash around the perimeter.	
						Wi	llow spp.	Medium	5 - 10 feet	5 - 10 feet	maish glass. Dead ash around the perimeter.	
						Bu	ttonbush	Low	5 - 10 feet	5 - 10 feet		
						Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet		
3	6113 - Lov	wland Mapl	le S	awtimber	Mediur	m 30.7	69	51-80	N/A		2027 YOE Inventory: Aspen regenerating in pockets on uplands.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Lowlands have some stump sprout maple stems. All being browsed. Released pole red maple look great. Stand will seed in	
	Cottonwood	2		22	100	Floweri	ng Dogwood	Medium	5 - 10 feet	5 - 10 feet	overtime.2022 Sale Closure: Harvested during the winter of 2021	
	Paper Birch	3	Seedling	8	69	Bigto	oth Aspen	Low	< 5 feet	< 5 feet	under contract High Tower Mix. Removed aspen. Marked over	
S	Swamp White Oak	25		15	100	Blackbe	rry/Raspberry	Low	5 - 10 feet	5 - 10 feet	mature and poor form maple to cut in order to release co-dominant and understory maple of good form.2017 YOE Inventory: The	
	Red Maple	70		9	69	Mich	igan Holly	Low	5 - 10 feet	5 - 10 feet	stand is split by low drainages and dry ridges running predominantly east and west. It is mainly red maple but there is a component of	
											swamp white oak, black tupelo, and cottonwood. Primary canopy is 90 years old but a second age exists in the form of red maple which has succeeded into the canopy. The main soil under the area is Kingsville.	
4	611 - Lowland I	Deciduous	Forest	Unspe	cifed	34.5	5				2027 YOE Inventory: New stand. Split out lowland. Regeneration doesn't meeting stocking standards. Seedlings under 4" is also	
						Sub-Ca	nopy Species	Density	Avg. Height	Size	inadequate. Regeneration is patchy at approximately 5-10% of the	
						Quak	king Aspen	Low	5 - 10 feet	5 - 10 feet	area. Most of the stand is covered in marsh grass. Browse is a major	
						Black/Re	d (Hybrid) Oak	c Low	5 - 10 feet	5 - 10 feet	factor. Stand is boarderline lowland. Keep monitoring.2022 Sale Closure: Harvested during the summer/fall of 2019 under contract	
							d Maple	Low	5 - 10 feet	5 - 10 feet	High Tower Mix. Clear-cut 2" and up.2017 YOE Comments: Stand	
							d Maple	Low	< 5 feet	< 5 feet	cut under contract # 73-011-82-01 Lewis Road Block. Cut all aspen,	
						Bigto	oth Aspen	Low	5 - 10 feet	5 - 10 feet	red maple, ash, paper birch, white oak, elm, & black cherry which met minimum piece utilization. Aspen & red maple made up a majority of	
											the volume cut. Residual trees were left during harvest. Contracts 73 001-84-01 & 73-005-84-01 were set up to cut leftover residual trees. This stand is a mixture of upland and lowland. However, overall the area is upland. In addition, within the stand boundaries there are inclusion of very wet soils which are concentrated towards the south and east.	
5	6113 - Lov	wland Mapl	le	Sawtimb	er Well	54.5	100	111-140	N/A		2017 YOE Inventory: The terrain in the stand is very hummocky with	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	large areas that appear to hold standing water most of the year. The south end of this stand is experiencing heavy mortality in all species	
	Quaking Aspen	10		14		Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	10 feet due to a higher component of ash which is dying. This portion is	
	Red Maple	80		12	100	Re	d Maple	Low	10 - 20 feet	10 - 20 feet	converting to lowland grasses. The main soil type is Pipestone.	
											→	

10

13

Swamp White Oak

Compartment: 116

	Oladwin lingt. Offic						Year of Entry: 2027
Stand	Level 4 Cover Type	Size Density	Acres Stand Age B	A Range	Managed S	Site	General Comments
6	6222 - Shrub-Carr	None	3.9		No)	2017 YOE Inventory: This stand is an L-Type that has a large area of
			Sub-Canopy Species	Density	Avg. Height	Size	cattails and marsh grass. In addition, in the area, there are some swamp hardwoods but they are widely scattered.
		•	Michigan Holly	High	5 - 10 feet	5 - 10 feet	and the first state of the stat
		•	Flowering Dogwood	Medium	5 - 10 feet	5 - 10 feet	
			Red Maple	Low	>20 feet	>20 feet	
7	629 - Mixed non-forested Wetland	None	13.3		No)	2017 YOE Inventory: Stand is an L-Type made up of shrubs over
			Sub-Canopy Species	Density	Avg. Height	Size	marsh grass.
			Michigan Holly	Medium	5 - 10 feet	5 - 10 feet	
		•	Willow spp.	Low	5 - 10 feet	5 - 10 feet	
		•	Cattail spp.	Medium	Not Applicable	Not Applicable	
			Red Osier Dogwood	Medium	5 - 10 feet	5 - 10 feet	
			Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
8	611 - Lowland Deciduous Forest	Unspecifed	15.0 3 Ur	nspecified			2027 YOE Inventory: Regeneration is patchy. Upland areas are
			Sub-Canopy Species	Density	Avg. Height	Size	moderately stocked with saplings over 4ft. Lowland areas are non- stocked. Browse is an issue. Switched covertype objective from
		•	Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet	lowland aspen to lowland deciduous forest.2022 Sale Closure:
			Red Maple	Low	5 - 10 feet	5 - 10 feet	Harvested during the summer/fall of 2020 under contract High Tower
		•	Swamp White Oak	Trace	5 - 10 feet	5 - 10 feet	Mix. Clear-cut 2" and up except green marked trees.2017 YOE Inventory: Aspen and other species appear to have been harvested
							out of this stand leaving maple and oak in low spots of the stand. No
							standing water in the majority of this stand but the soil type (Belleville)
							is very soft and retains moisture due to a heavy organic component. Because, of this let the stand mature to reduce the number of entries
							and soil impact. Stand is isolated by Hevel Drain to the north and east
							and private property the west and south.
9	4199 - Other Mixed Upland Deciduous	Unspecifed	15.4 3 lı	mmature			2027 YOE Inventory: No regeneration on this site thus far. Timber was
			Sub-Canopy Species	Density	Avg. Height	Size	mature at time of harvest, browse pressure is extreme, parts of the stand swamped out, and ground cover vegetation exploded. Switched
			Green Ash	Trace	< 5 feet	< 5 feet	covertype objective from aspen to other mixed deciduous.2022
			White Oak	Trace	< 5 feet	< 5 feet	Sale Closure Comments: Harvested during the summer/fall of 2020
			Mixed Sedges/Grasses	Medium	Not Applicable	Not Applicable	under contract High Tower Mix. Clear-cut 2" and up except green marked trees.2017 YOE Inventory: The stand is mostly dry except
			Blackberry/Raspberry	High	5 - 10 feet	5 - 10 feet	for a few narrow forested drains and the NE corner of the stand. It is
		į.					isolated by a drainage and private land making access difficult. Minor

component of paper birch poles, larger diameter cottonwood, and large diameter swamp white oak. The stand is converting to red maple. The main soil type under the stand is Pipestone.

Compartment: 116

Stand Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site **General Comments** 4131 - Aspen. Oak Poletimber Well 53.6 41 81-110 N/A 2027 YOE Inventory: New stand. Formerly part of a larger aspen 10 stand. Upland ridge of aspen with a few isolated low pockets. Pocket % Cover Size Class **DBH Age** Ava. Heiaht Size **Canopy Species Sub-Canopy Species** Density of oak is located in the SE corner.2017 YOE Inventory: Harvested Paper Birch 5 41 Red Maple Low 10 - 20 feet 10 - 20 feet Sapling under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 10 8 41 Northern Pin Oak 73-017-90-01 Alamando Petite which was closed in '91, same Bigtooth Aspen 55 Seedling 8 41 prescription. The species are heavy to trembling aspen with some 6 41 Red Maple 10 Sapling bigtooth especially along the two-track. In addition, there is a component of red maple and oak in the stand. Some areas are wet Swamp White Oak 5 5 41 Sapling and dominated by lowland brush. The soil under the stand is a 8 5 41 Red Oak mixture of Covert, Pipestone, and Kingsville. 10 8 41 Quaking Aspen Seedling 6112 - Lowland Aspen 34.5 36 11 Poletimber Well 81-110 N/A 2027 YOE Inventory: Switching stand from upland to lowland majority. Aspen is dense through most of the stand but regeneration could still **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Avg. Height Size be an issue if clearcut. West edge is very wet.2017 YOE Inventory: 5 - 10 feet Red Maple 10 6 36 Michigan Holly Hiah 5 - 10 feet Sapling Harvested under contract # 73-030-85-01 Lewis Road Repeat. Cut all trees which met minimum piece utilization. The stand is an A6 with 8 Bigtooth Aspen 15 Seedling 36 Red Maple Medium Variable Variable areas of P6. In addition, it has several openings that are more of a Quaking Aspen 70 Sapling 7 36 Swamp White Oak Low 5 - 10 feet 5 - 10 feet heavy A4 or light A5. Hevel Drain bisects the stand. The main soil 5 Sapling 6 Green Ash Variable Swamp White Oak Low Variable type is Pipestone. 20 N/A 12 6119 - Mixed Lowland Deciduous Forest Sapling Poor 10.0 1-50 2027 YOE Inventory: Canopy closure is now above 25%. Swamp white oak and ash will continue to fill in.2017 YOE Inventory: **DBH Age Canopy Species** % Cover Size Class **Sub-Canopy Species** Density Avg. Height Size Harvested under contract # 73-030-85-01 Lewis Road Repeat. Cut all Swamp White Oak 35 3 20 Tag Alder Hiah 5 - 10 feet 5 - 10 feet Loa trees which met minimum piece utilization. This area has been flooded by beavers. The signs of beaver activity around the flooding 3 15 Green Ash Log Quaking Aspen Low >20 feet >20 feet are old, > 2 years. This flooding show up on the 1998 DOQ as very 25 8 36 5 - 10 feet 5 - 10 feet Quaking Aspen Seedling Michigan Holly Medium wet and on the 2005 NAIP imagery it show up as an area lacking an 2 Willow spp. 10 Willow spp. High 10 - 20 feet 10 - 20 feet Log overstory but without open water. Therefore, the flooding may now be abandoned but the dam is still restricting water flow. The main soil 15 5 Red Maple Seedling 36 Red Maple Low >20 feet >20 feet type under the stand is Kingsville. Sawtimber Well 65 4116 - Mixed N. Hardwood - Aspen 119 111-140 N/A 2027 YOE Inventory: Allow this stand to naturally convert to mixed 13 upland deciduous. 2017 YOE Inventory: This stand is a dry upland % Cover Size Class **Sub-Canopy Species** Size **Canopy Species DBH Age** Density Avg. Height ridge surrounded be very wet lowland forest and private land. The Quaking Aspen 20 16 100 Red Maple High 10 - 20 feet 10 - 20 feet aspen in the stand is beginning to wind throw creating natural gaps. This should allow the understory maple to succeed through the 60 11 65 Red Maple White Oak Low 10 - 20 feet 10 - 20 feet canopy and will eventually convert the stand to upland maple with 20 10 - 20 feet 10 - 20 feet Bigtooth Aspen 16 100 Musclewood/Hornbeam Medium components of oak and aspen. 10 - 20 feet Serviceberry (Juneberry) Medium 10 - 20 feet 3301 - Low Density Deciduous Trees None 17.5 No 2027 YOE Inventory: Stand is slowly filling in with oak and birch. Very 14 high deer usage. Density will remain sparse for a long time but will Size **Sub-Canopy Species** Avg. Height Density convert to at least forested in the next 10 to 20 years.2017 YOE Blackberry/Raspberry Medium < 5 feet < 5 feet Inventory: Harvested under contract #73-026-99-01 Little Salt Aspen. Cut all species 2" and up except left all white pine, white oak, & Northern Pin Oak Low 10 - 20 feet 10 - 20 feet beech. The stand was clearcut in 2002 and did not regenerate. Old 10 - 20 feet 10 - 20 feet Swamp White Oak Low comments indicate aspen regeneration in the stand appeared to have 10 - 20 feet 10 - 20 feet White Oak Medium been hit with some disease, many dead root suckers in the stand. What little oak that did regenerate is currently being browsed. 10 - 20 feet 10 - 20 feet Paper Birch Medium

5 - 10 feet

5 - 10 feet

>20 feet

Medium

Low

Trace

5 - 10 feet

5 - 10 feet

>20 feet

Northern Pin Oak

White Oak

White Pine

Compartment: 116

Stand	Level 4 Co	over Type		Size De	nsity	Acres Stand Age B	A Range	Managed S	ite	General Comments
15	4199 - Other Mixed	d Upland D	eciduous	Sawtimb	er Well	9.3 45	81-110	N/A	١	2027 YOE Inventory: Older aspen stems in northern portions of the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	stand have declined. Manage stand for maple and oak due to its sma size and close position to private and Salt Creek.2017 YOE
	Red Oak	30		10		Alternate-leaved Dogwood	d Medium	5 - 10 feet	5 - 10 feet	Inventory: Stand includes a small inclusion of floodplain forest in the
S	Swamp White Oak	5		16		Red Maple	Medium	5 - 10 feet	5 - 10 feet	NW corner which contains the Little Salt Creek. Upland stand with a
	Black Cherry	10	Seedling	7	45					lowland edge along stand 17.
	Quaking Aspen	35		10	45					
	Red Maple	20		9	45					
16	4199 - Other Mixed	d Upland D	eciduous	Unspe	cifed	11.0 3 I	mmature			2027 YOE Inventory: No regeneration on this site thus far. Timber was
						Sub-Canopy Species	Density	Avg. Height	Size	mature at time of harvest, browse pressure is extreme, parts of the stand swamped out, and ground cover vegetation exploded.2022
						Blackberry/Raspberry	High	5 - 10 feet	5 - 10 feet	Sale Closure: Harvested during the summer/fall of 2020 under
						Mixed Sedges/Grasses	High	Not Applicable	Not Applicable	contract High Tower Mix. Clear-cut 2" and up except green marked
										trees.2017 YOE Inventory: Upland stand with low depressions which hold water in the spring. The main soil types under the stand are Pipestone and Covert.
17	6230	- Cattail		Nor	ne	8.9		No		2027 YOE Inventory: Small phragmites patch at edge of reclaimed well pad. Gravel road removed and restored.2017 YOE Inventory:
						Sub-Canopy Species	Density	Avg. Height	Size	Cattail marsh with no phragmites. Gravel oil and gas road runs
						Cattail spp.	Full	Not Applicable		through this stand.
						Willow spp.	Low	5 - 10 feet	5 - 10 feet	
18	6119 - Mixed Lowla	nd Deciduo	ous Forest			17.3 52	81-110	N/A	\	2027 YOE Inventory: Older aspen stems falling out of the stand. Not ready to thin yet.2017 YOE Inventory: Appears to have been
	Canopy Species	% Cover	Size Class		Age	Sub-Canopy Species	Density	Avg. Height	Size	harvested in the early 70's although no records available. Residual
	Red Maple	55		9	52	Red Maple	Medium	10 - 20 feet	10 - 20 feet	large diameter stems and inconsistency in ages indicates a minimum
	Red Oak	5		10						piece utilization cut was performed. Hummocky terrain with pools of standing water in the spring.
	Paper Birch	10	Seedling	7	52					standing water in the spring.
	Quaking Aspen	10		10	52					
S	Swamp White Oak	10		9						
	Blackgum	10	Seedling	8	52					
19	6114 - Lo	wland Oak		Poletimb	er Poor	14.0 38	51-80	N/A	\	2027 YOE Inventory: Stand is now forested. Two-aged stand. Swamp white oak is the most prevalent. Most of it is pole size and 40 to 50
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	years old. Scattered older individuals throught the stand. Maple and
	Northern Pin Oak	5		9	38	Michigan Holly	Medium	5 - 10 feet	5 - 10 feet	aspen are also two-aged.2017 YOE Inventory: This stand is low
	Red Maple	25		7	38	Swamp White Oak	Medium	>20 feet	>20 feet	and wet and is mainly made up of narrow leaf cattails. Within the
S	Swamp White Oak	65		9	38	Red Osier Dogwood	Medium	5 - 10 feet	5 - 10 feet	stand there is scatted swamp white oak that are now becoming pole size, however, the trees make up < 10 BA. The stand had very little
	Quaking Aspen	5		9	102	Tag Alder	Medium	5 - 10 feet	5 - 10 feet	, , ,

Medium

Medium Not Applicable Not Applicable 10 - 20 feet

10 - 20 feet

Cattail spp.

Swamp White Oak

Compartment: 116

Stand **Level 4 Cover Type** Size Density **Managed Site General Comments** Acres Stand Age BA Range 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 25.3 34 51-80 N/A 2027 YOE Inventory: Aspen is not as abundant as previously thought. 20 Upland areas are heavy to oak. Lowland areas are mostly maple and Size **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Ava. Height birch over holly and alder.2017 YOE Inventory: This stand was 5 34 Red Maple 5 - 10 feet 5 - 10 feet Paper Birch 25 Sapling Low clearcut in 1992 under contract #73-022-90-01 Patchwork Sale and is much lower than other units of the same sale. Cut all species meeting 30 5 34 5 - 10 feet Red Maple Sapling Paper Birch Low 5 - 10 feet minimum piece utilization. It has regenerated as a patchy lowland Northern Pin Oak 15 Seedling 6 34 Tag Alder High 10 - 20 feet 10 - 20 feet aspen stand with much of the canopy cover represented by tag alder. 10 6 34 5 - 10 feet 5 - 10 feet Bigtooth Aspen Sapling Michigan Holly Medium The tag alder is beginning to decline as the stand ages and tress species grow, lowering the water table. This stand should fill in to 20 6 34 Quaking Aspen Sapling some degree. The soil in the stand is a mixture of upland and lowland being a mixture of Pipestone, Covert, and Kingsville. 21 4130 - Aspen Poletimber Well 45.3 41 111-140 N/A 2027 YOE Inventory: Split former stand into multiple stands based off species density differences and hydrology differences. New block has **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Avg. Height Size the best stocking is majority upland with a fairly well defined drain Red Maple 25 6 41 5 - 10 feet 5 - 10 feet Nannyberry Low bisecting it. Aspen is above average quality for the area.2017 YOE Inventory: Harvested under contract # 73-020-84-01 Better In The 6 5 - 10 feet Paper Birch 5 Seedling 41 Tag Alder Low 5 - 10 feet Back. Cut all species which met minimum piece utilization. The 5 - 10 feet 35 9 41 5 - 10 feet Bigtooth Aspen Seedling Michigan Holly Low stand is a mixture of upland and lowland with the upland being the 8 Red Oak 5 41 Red Maple High >20 feet >20 feet majority. the access road is impassable during wet periods of the 30 year. Cutting blocks become more wet to the north with a forested Quaking Aspen Seedling 8 41 drain present. Red maple becomes more prevalent in these low areas reducing BA and average diameter but increasing stem density as they are growing in clumps. Currently the BA in the stand ranges from 10 to 140, averaging 90. The main soil types are Pipestone, Covert, and Kingsville. 3301 - Low Density Deciduous Trees None 5.1 No Possible old landing site from surrounding sale. Did not regenerate to 22 full stocking. **Sub-Canopy Species** Size Density Ava. Heiaht Northern Pin Oak Medium >20 feet >20 feet Hiah >20 feet >20 feet Bigtooth Aspen Black/Red (Hybrid) Oak >20 feet >20 feet Medium Paper Birch Low >20 feet >20 feet 6113 - Lowland Maple Sawtimber Well 4.6 99 81-110 N/A 2017 YOE Inventory: Drainage runs through the center of this stand 23 with water present throughout most of the year. Stand was excluded **DBH Age** Size **Canopy Species** % Cover Size Class **Sub-Canopy Species** Density Avg. Height from surrounding harvest because of its soil moisture. There is a 99 Red Maple 85 16 Buttonbush Low 5 - 10 feet 5 - 10 feet dead ash component but it doesn't reduce the canopy closure under 75%. The main soil type is Kingsville. 10 8 40 >20 feet >20 feet Quaking Aspen Seedling Red Maple Low

Medium

Medium

5 - 10 feet

5 - 10 feet

5 - 10 feet

5 - 10 feet

Swamp White Oak

5

14

Tag Alder

Michigan Holly

Compartment: 116

											real of Lifting. 2027
Stand Level 4 Cover Type		Size De	nsity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments		
24	4130	- Aspen	F	Poletimb	er Well	32.5	40	111-140	N/A	A	2027 YOE Inventory: Aspen is above average quality for the area and
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	has uniform stocking across most of the stand. Trembling aspen is located along the wet E-Type then transitions to bigtooth toward drier
١	Northern Pin Oak	5		9	40	Red	d Maple	High	10 - 20 feet	10 - 20 feet	soils. Red maple is a common understory and subordinate componen
	Bigtooth Aspen	30	Seedling	8	40	Michi	gan Holly	Low	5 - 10 feet	5 - 10 feet	of the stand 2017 YOE Inventory: Harvested under contract # 73-
	Red Maple	30	Sapling	6	40						J 029-85-01 Shepherd Road Repeat. Cut all aspen, red maple, ash, paper birch, & black cherry which met minimum piece utilization. The
	Paper Birch	3	Sapling	5	40						stand is mainly trembling aspen mixed with big tooth aspen, red
	Red Oak	2	Seedling	8	40						maple, and oak. The ground is hummocky. It has inclusions of low
	Quaking Aspen	30	Seedling	8	40						wet ground and grassy opening. The quad trail is present within this stand and begins at the private residence to the south. The soils are a mixture of Kingsville and Covert.
25	310 - Herbac	eous Open	land	Noi	ne	1.2			No)	2027 YOE Inventory: This is the cleared portion of a power line ROW along McGrudder Rd. and also contains the Sinif Drain ROW.
26	6113 - Lo	wland Mapl	e P	oletimb	er Poor	7.0	62	1-50	N//	A	2027 YOE Inventory: New stand. Sparse E-type.2018 YOE
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Inventory: This is a large cattail marsh with perimeters of lowland shrubs. Small treed islands and fingers exist along the perimeter of
١	Northern Pin Oak	15		8		Michi	gan Holly	Medium	5 - 10 feet	5 - 10 feet	the stand along with scattered trees throughout which range in size.
	Red Maple	75		8	62	Phragr	nites (spp.)	Medium	Not Applicable	Not Applicable	There are multiple patches of phragmites which also range in size.
S	wamp White Oak	10		8		Cat	tail spp.	High	Not Applicable	Not Applicable	
						Ta	g Alder	Medium	5 - 10 feet	5 - 10 feet	
27	6113 - Lo	wland Mapl	e F	oletimb	er Poor	21.6	84	1-50	N//	A	2027 YOE Inventory: New stand. Sparse lowland hardwood stand
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	over alder, holly and cattails. Isolated upland island along the eastern edge.
	American Elm	5	Sapling	7		Phragr	nites (spp.)	Medium	Not Applicable	Not Applicabl	
	Paper Birch	10	Sapling	6		Ta	g Alder	Medium	5 - 10 feet	5 - 10 feet	
S	wamp White Oak	15		8		Michi	gan Holly	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	60		8	84	Cat	tail spp.	Low	Not Applicable	Not Applicable	
١	Northern Pin Oak	10		8					1		
28	4139 - Aspen,	Mixed Deci	duous Po	letimbe	r Mediun	n 19.2	34	51-80	N//	A	2027 YOE Inventory: Split out southern block of former stand and
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	added to adjacent aspen type. Size class is now pole but stocking is still sparse. Understory minimal.2017 YOE Inventory: This stand
	Red Maple	30	Pole	4	34	Pap	er Birch	Low	5 - 10 feet	5 - 10 feet	was clearcut in 1992 under contract # 73-022-90-01 Patchwork Sale.
	Bigtooth Aspen	20	Sapling	6	34	Swamp	White Oak	Low	5 - 10 feet	5 - 10 feet	Cut all species meeting minimum piece utilization. It has regenerated
	Quaking Aspen	35	Sapling	5	34	Michi	gan Holly	Low	5 - 10 feet	5 - 10 feet	as a light or patchy aspen stand. Within the stand boundaries, there are areas that are open and may be A1 or even G-Types. However,
١	Northern Pin Oak	5	Pole	4	34						the stand is an A2 overall. The main species is trembling aspen but
	Paper Birch	10	Pole	4	34						this is mixed with swamp white oak, red maple, bigtooth aspen, and
											northern pin oak. The soil in the stand is a mixture of upland and

lowland being a mixture of with Pipestone, Covert, and Kingsville. Historic deer browse damage is evident through a visual crook in a majority of the aspen stems at approximately 3 feet high. Stand should fill in over time but obvious aspen stem density was lost compared to adjacent stand 21 which was cut 6 year prior.

Compartment: 116

Stand	d Level 4 C	over Type		Size Der	sity	Acres	Stand Age E	BA Range	Managed :	Site	General Comments
29	4199 - Other Mixe	d Upland D	eciduous	Sapling	Poor	8.2	37	1-50	N/.	Α	2027 YOE Inventory: Canopy closure is above 25% and will continue
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	nincreasing with new saplings. Stocking will still be marginal for a long time. Stand is upland but not by much.2017 YOE Inventory:
	White Oak	10	Pole	4	37	Swamp	White Oak	Low	5 - 10 feet	5 - 10 feet	Harvested under contract # 73-026-99-01 Little Salt Aspen. Cut all
5	Swamp White Oak	30	Pole	4	37	Wh	nite Oak	Medium	10 - 20 feet	10 - 20 feet	species 2" and up except left all white pine, white oak, & beech. The stand was clearcut in 2002 and it has not come back. Old comments
	Paper Birch	50	Log	3	37	Northe	ern Pin Oak	Low	5 - 10 feet	5 - 10 feet	stand was clearcut in 2002 and it has not come back. Old comments indicated aspen regeneration in the stand appeared to have been hit
	Northern Pin Oak	10	Sapling	5	37	Re	ed Oak	Medium	10 - 20 feet	10 - 20 feet	with some disease, many dead aspen root sucker in the stand. Many
						Pap	er Birch	Low	5 - 10 feet	5 - 10 feet	of the ash trees along the edges of the cut have been girdled. There
						Pap	er Birch	Medium	5 - 10 feet	5 - 10 feet	is a 1 acre retention patch along the north boundary of this stand.
30	6113 - Lo	wland Mapl	e S	awtimber	Mediur	m 14.8	105	51-80	N/.	A	2027 YOE Inventory: Aspen decline has resulted in canopy closure
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	reduction. Natural regeneration cycle in progress.2017 YOE Inventory: This stand is split by a forested drain which runs from west
	Red Maple	73		12	105	Floweri	ng Dogwood	Low	5 - 10 feet	5 - 10 feet	to east. The soils also get wetter going from the west to east.
	Quaking Aspen	5		14		Re	d Maple	Medium	>20 feet	>20 feet	Overall, the stand is low and wet so it was classified as an E-Type,
	Cottonwood	2		18	105	Gre	een Ash	Low	Variable	Variable	though there are areas that are M-Types. The main soil type is Kingsville.
5	Swamp White Oak	20		17	105	Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	Tungovino.
31	4130	- Aspen		Sapling	Well	16.4	26	Immature	N/.	A	2017 YOE Inventory: T.Sale #17-99-1 Bradford MacGrudder. The
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	edges of the stand along stands 30 and 33 are E3 with the largest lowland portion in the SE corner. However, much of the stand is
	Quaking Aspen	20	Pole	4	26	Swamp	White Oak	Low	5 - 10 feet	5 - 10 feet	upland and heavy to aspen and it is a light A3. The aspen in the
	Bigtooth Aspen	45	Pole	4	26	Northe	ern Pin Oak	Low	5 - 10 feet	5 - 10 feet	stand is heavy to bigtooth but there is also trembling. Aspen is mixed with a component of maple and oak including swamp white oak.
5	Swamp White Oak	3		3	26	Mich	igan Holly	Low	5 - 10 feet	5 - 10 feet	Within the stand boundaries, there is a lot of mortality on the aspen
	Green Ash	2	Log	2	26	Re	d Maple	Low	5 - 10 feet	5 - 10 feet	regeneration because of deer browse. Also within the stand there are
	Red Maple	20	Log	3	26						inclusions of G-Types. Autumn olive patch exists along the south side of the closed forest road. The main soil is Pipestone.
	Northern Pin Oak	10	Pole	4	26						of the closed forest road. The main soil is ripestone.
32	6230	- Cattail		Non	е	0.9			No	0	No phragmites at this time.
						Sub-Car	nopy Species	Density	Avg. Height	Size	
						Cat	tail spp.	Full	Not Applicable	Not Applicable	
33	6113 - Lo	wland Mapl	e	Poletimbe	r Well	11.8	70	81-110	N/.	A	2017 YOE Inventory: The east end of the stand is wetter than the west
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	end. In addition, the ground gets hummockier going east. Minor dead ash component located in the west end. Lowland brush becomes
	Red Maple	70		9	70	Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	more prevalent going east. The main soil type is Pipestone.
	Blackgum	5	Seedling	8		Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	15		10	70	<u> </u>	<u></u>				

Paper Birch

10

Seedling

8 70

Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
34	4139 - Aspen, I	Mixed Decid	duous	Poletimb			26	51-80	N/A	A	2025 YOE Inventory: Canopy closure at 75% or just above. Aspen is just barely dominant. May be best to manage for other species in the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	future.2017 YOE Inventory: T.Sale #17-99-1 Bradford
No	orthern Pin Oak	10		8		Michig	jan Holly	Low	5 - 10 feet	5 - 10 feet	MacGrudder. The aspen regeneration shows signs of heavy deer
Q	uaking Aspen	25	Sapling	6	26	Norther	n Pin Oak	Low	< 5 feet	< 5 feet	browsed but is above browse height at this time. The stand is an A2
	Red Maple	40	Sapling	5	26	Red	Maple	Low	< 5 feet	< 5 feet	with numerous openings both wet L-Types and dry G-Types. These should fill in some what but repeated browsing is still an issue within
	Paper Birch	5	Log	3	26						this area. When the stand was harvested, the oak 4" DBH and under
В	igtooth Aspen	20	Sapling	5	26						was left. The main soil type was Pipestone.
35	6113 - Lov	vland Maple	Э	Sawtimb	er Well	10.4	95	111-140	N/A	4	2027 YOE Inventory: Split out area closest to Magrudder. Mostly log
C	Canopy Species	% Cover	Size Class		Age	Sub-Can	opy Species	Density	Avg. Height	Size	class maple with areas of poles growing into canopy positions after aspen and ash decline.2018 YOE Inventory: The stand is a mixture
No	orthern Pin Oak	7		12		Pape	er Birch	Low	>20 feet	>20 feet	of upland and lowland. However, most of the land is lowland. The so
	Red Maple	72		11	95	Red	Maple	Medium	>20 feet	>20 feet	under the stand is a mixture of Kingsville, Pipestone, and Covert. A
Q	uaking Aspen	10		14	95	Norther	n Pin Oak	Low	Variable	Variable	raptor nest was located in the south end of the stand it appeared to be a Goshawk. Dead ash & elm component within the stand. Un-even
	Paper Birch	2		10		Black	Cherry	Low	Variable	Variable	aged stand with 3 plus ages measured. form is best along Magrudder
Sw	amp White Oak	4		14							Rd. but only marginal overall.
	Red Oak	5		16							
36	4130	- Aspen		Poletimb	er Well	27.3	35	51-80	N/A	A	2017 YOE Inventory: Harvested under contract # 73-049-90-01 Lost
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	Hipchain Sale. Cut all species 2" and up. Stand is mainly on a ridge, which slopes down to wetter ground. The stand is a matrix of open
No	orthern Pin Oak	10		7	35	Red	Maple	Low	5 - 10 feet	5 - 10 feet	grassy areas and areas that are very dense. The stand overall is an
Q	uaking Aspen	20	Sapling	6	35	Norther	n Pin Oak	Low	5 - 10 feet	5 - 10 feet	A3. 8 acres of stand along the north side of stand 35 may have been
	Paper Birch	15	Log	4	35	Black	Cherry	Low	5 - 10 feet	5 - 10 feet	part of contract # 73-029-81A Snowshoe Sale #2 (33 yrs old). Cut all aspen, elm, ash, red maple, & paper birch which met minimum piece
В	igtooth Aspen	40	Sapling	6	35	Serviceber	y (Juneberry)	Medium	5 - 10 feet	5 - 10 feet	utilization. Left all oak, white pine, & black cherry. The soil is a matrix
	Red Maple	15		6	35						of Pipestone and Kingsville.
37	4130	- Aspen		Poletimb	er Well	34.1	35	81-110	N/A	Ą	2017 YOE Inventory: Harvested under contract # 73-019-90-01
С	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	MacGruder Road Sale. Cut all species 2" and up. This stand is an A3 with inclusion of L and G-Types. It also has areas that are lower that
В	igtooth Aspen	35	Sapling	6	35	Serviceber	y (Juneberry)	Low	5 - 10 feet	5 - 10 feet	are E3. However, the stand is mainly upland. The species is mostly
No	orthern Pin Oak	5	Sapling	6	35	Michig	jan Holly	Low	5 - 10 feet	5 - 10 feet	bigtooth aspen but there is a component of trembling aspen, red
Q	uaking Aspen	30	Sapling	6	35						maple and oak present. A 1 1/2 acre inclusion of 64 year old red maple is located in the NW corner along Magrudder Rd. The main
	Red Maple	20	Sapling	5	35						soil type is Pipestone.
	Paper Birch	10	Pole	4	35						71
38	6113 - Lov	vland Maple	Э :	Sawtimb	er Well	7.5	82	81-110	N/A	Ą	2027 YOE Inventory: Ash and aspen completely on the ground. Let
С	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	BA increase.2017 YOE Inventory. Stand prescribed for an ash salvage last YOE but did not sell. Ash and aspen are beginning to tip
						Dad	N 4 L -	Medium	>20 feet	>20 feet	
	Red Maple	78		11	82	Red	Maple	Medium	- 20 loct	~20 leet	over and have lost merchantability. Stand BA has dropped by
	Red Maple Quaking Aspen	78 10		11	82 82		маріе jan Holly	Low	5 - 10 feet	5 - 10 feet	approximately 10% due to loss of ash. Single stem maple poles of
Q	·					Michig	<u> </u>				

Stand	Level 4 C	over Type		Size De	nsity	Acres Stand Age B	A Range	Managed S	Site	General Comments
39	6220 - A	Alder/Willow	,	Noi	ne	4.0		No	,	This stand is in a depression and it is an L-Type with areas of N-
						Sub-Canopy Species	Density	Avg. Height	Size	Type. Swamp white oak is present in the stand, but it is scattered. The main soil type is Kinross.
						Willow spp.	High	10 - 20 feet	10 - 20 feet	The main son type is Killioss.
						Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
						Green Ash	Low	>20 feet	>20 feet	
40	6113 - Lo	wland Mapl	le Po	letimbe	r Mediu	m 13.1 92	1-50	N/A	4	2018 YOE Inventory: The stand is low and wet with a few upland
-	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	knobs. Heavy dead ash component. Will fill in with maple in spots and lowland brush in others. The main soil type is Kingsville.
	Red Maple	75		8	92	Red Maple	Medium	10 - 20 feet	10 - 20 feet	,
(Quaking Aspen	5	Seedling	8		Green Ash	Low	10 - 20 feet	10 - 20 feet	
N	orthern Pin Oak	15		10	92	Tag Alder	High	5 - 10 feet	5 - 10 feet	
Е	Bigtooth Aspen	2		12	92	Michigan Holly	High	5 - 10 feet	5 - 10 feet	
Sw	vamp White Oak	3		9						_
41	4139 - Aspen,			letimbe			51-80	N/A		2027 YOE Inventory: North end is wet with blueberry/red dogwood ground cover. Aspen mortality is already occurring. South end is more
	Canopy Species		Size Class		Age	Sub-Canopy Species	Density	Avg. Height	Size	sparse. Off-site aspen, manage for oak and maple.2017 YOE
	Bigtooth Aspen	25	Sapling	6	35	Black Cherry	Low	5 - 10 feet	5 - 10 feet	Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain Sale. Cut all species 2" and up. Stand is mainly on a ridge, which
	Red Maple	15	Sapling	5	35	Red Maple	Low	5 - 10 feet	5 - 10 feet	slopes down to wetter ground. The stand is a matrix of open grassy
	orthern Pin Oak	10		7	35	Serviceberry (Juneberry)	Medium	5 - 10 feet	5 - 10 feet	areas and areas that are very dense. The stand overall is an A3. 8
(Quaking Aspen	30	Sapling	5	35	Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet	acres of stand along the north side of stand 35 may have been part of contract # 73-029-81A Snowshoe Sale #2 (33 yrs old). Cut all aspen,
	Paper Birch	15	Log	4	35					elm, ash, red maple, & paper birch which met minimum piece
Sw	vamp White Oak	5	Sapling	5						utilization. Left all oak, white pine, & black cherry. The soil is a matrix of Pipestone and Kingsville.
42	6113 - Lo	wland Mapl	le S	Sawtimb	er Wel	24.1 80	81-110	N/A	A	2027 YOE Inventory: Two aged stand moving toward uneven-aged.
-	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	Previous sub-canopy red maple are now firmly in canopy positions. Canopy closure is just above 75%. NE 1/3rd wettest and most sparse.
	Red Maple	75		10	80	Red Maple	Medium	>20 feet	>20 feet	This portion also too wet to cut. Let stand progress naturally.2017
	Quaking Aspen	5		13	80	Green Ash	Low	10 - 20 feet	10 - 20 feet	YOE Inventory: Ash salvage was prescribed last YOE but did not sell.
Sw	vamp White Oak	20		15	105	Swamp White Oak	Medium	10 - 20 feet	10 - 20 feet	Ash trees are beginning to snap approximately 30 - 40 feet high. 30% reduction in BA due to loss of ash. Adequate red maple saplings and
				,						poles in the sub-canopy to recruit into canopy gaps. The stand is a mixture of upland and lowlands with the west portion containing the most upland. The northeast end of the stand is sparse and has inclusion of L-Types and G-Types. The main soil type is Kingsville
43	6113 - Lo	wland Mapl	le F	Poletimb		8.3 44	51-80	N/A	4	2027 YOE Inventory: Split and switched stand to lowland based of magery and experience. Aspen along north edge then transitions to
-	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	lowland maple.2018 YOE Inventory: Inventoried as an A3 in '88
N	orthern Pin Oak	5	Seedling	7		Red Mulberry	Medium	10 - 20 feet	10 - 20 feet	currently and A6. The stand is mostly upland and is just starting to
	American Elm	5	Sapling	6						come into poles. It does have inclusion of L and G-Types. There are
	Red Maple	65	Sapling	7	44					also areas of E3. A pocket of lower density aspen exists in the east on a higher ridge. The soils are a mixture of Pipestone and Kingsville.
	Paper Birch	5	Sapling	5						2 2g rago. The sone are a mixture of the posterio and thingsville.
	Quaking Aspen	10	Sapling	6						

10

6

Sapling

Swamp White Oak

Compartment: 116

Stand	Level 4 C	over Type	· · · · · · · · · · · · · · · · · · ·	Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
44	6113 - Lo	wland Maple	e Sa	wtimber	Mediun	n 7.5	87	81-110	N/A	A	2027 YOE Inventory: All ash is now on the ground. Regeneration is
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	mostly holly with some ash. Good release of pole red maple. Most this stand is too wet to cut.2018 YOE Inventory: The stand is
	Red Maple	60		10	87	Alternate-le	eaved Dogwood	d Medium	5 - 10 feet	5 - 10 feet	overall lowland but there are some upland knobs. There are some
Swa	amp White Oak	30		12		Re	d Maple	Medium	>20 feet	>20 feet	very low areas in the stand, which are L and N-Types which are
Q	uaking Aspen	10		12	87	Gr	een Ash	Medium	>20 feet	>20 feet	concentrated towards the north. There is a dead ash component in this stand which reduces the canopy closure to 50 - 75 this YOE. The transfer of the canopy closure to 50 - 75 this YOE.
						Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	canopy gaps should fill in with red maple over time given the density
						Та	ag Alder	Low	5 - 10 feet	5 - 10 feet	of red maple in the sub-canopy. The soils are a mixture of Kingsvilliand Pipestone.
45	6223 - Inundat	ed Shrub S	wamp	Non	ie	179.0			No)	2018 YOE Inventory: This is a large cattail marsh with perimeters of
						Sub-Ca	nopy Species	Density	Avg. Height	Size	lowland shrubs. Small treed islands and fingers exist along the perimeter of the stand along with scattered trees throughout which
							ng Alder	Medium	5 - 10 feet	5 - 10 feet	range in size. There are multiple patches of phragmites which also
						Ca	ttail spp.	High	Not Applicable	Not Applicabl	
						Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	
						Phragi	mites (spp.)	Medium	Not Applicable	Not Applicabl	e e
46	6113 - Lo	wland Maple	e S	Sawtimbe	er Well	11.2	65	51-80	N/A	A	2027 YOE Inventory: Canopy closure is around 75%. Regeneration
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	from harvest is minimal and is expected to take decades to develop Moderate amount of understory red maple released post
No	orthern Pin Oak	25		12		Re	d Maple	Medium	>20 feet	>20 feet	harvest.2022 Sale Closure: Harvested during the summer of 2022
	Red Maple	70		11	65						under contract Magrudder Mix 73-013-17. Removed all aspen. Thinned the rest of the stand.2017 YOE Inventory: The stand is a
Swa	amp White Oak	5		14	92						mixture of upland and lowland. Multiple low drainages bisect the
											stand with dispersed higher ground. Low areas in this stand are verwet and rutting could be an issue. The main soil type is Kingsville.
47	4125 - Blad	ck, N. Pin O	ak S	Sawtimbe	er Poor	15.0	74	1-50	N/A	Ą	2027 YOE Inventory: Understory filling in with oak, maple and asper Oak is mostly over 5 feet. Stand meets regeneration stocking
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	levels.2022 Sale Closure: Harvested during 2020 under contract
	Red Maple	5		10		Re	d Maple	Low	5 - 10 feet	5 - 10 feet	Magrudder Mix 73-013-17. Marked 10 - 20 BA of Oak for residual.
No	orthern Pin Oak	95		11	74	Blad	ck Cherry	Low	5 - 10 feet	5 - 10 feet	Protected advanced regeneration.2017 YOE Inventory: The stand is on a ridge that tapers down to low wet ground. There is a dead a
						Northe	ern Pin Oak	Medium	5 - 10 feet	5 - 10 feet	component in the low areas of the stand and in surrounding lowland
						Servicebe	erry (Juneberry)	Low	10 - 20 feet	10 - 20 feet	The main soil type is Kingsville.
48 ⁶	6119 - Mixed Lowla	and Deciduo	ous Forest F	oletimbe	er Poor	15.9	62	1-50	N/A	4	2018 YOE Inventory: The stand is mainly an E4/L. The understory
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	an O2E2 with the oak being swamp white oak. Overall, the stand is very wet and there are L-Types scattered throughout the stand. Mar
No	orthern Pin Oak	7		8	62	Swamp	o White Oak	Medium	10 - 20 feet	10 - 20 feet	grass is the main ground cover. Multiple drainages bisect this stand
	Red Maple	35		8	62	Mich	igan Holly	High	5 - 10 feet	5 - 10 feet	The main soil type is Kingsville.
Swa	amp White Oak	48		9	62	Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	
_										-	-

Quaking Aspen

10

9

Compartment: 116

Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed Si	te	General Comments
49	6112 - Lo	wland Aspei	n :	Sapling N	/ledium	54.4	4	Immature	N/A		2027 YOE Inventory: Good regeneration except in wettest areas of the
	Canopy Species	% Cover	Size Class	DBH	Age						stand located in small pockets throughout and a north to south drainage in the eastern portion of the stand. Stand is an excellent
(Quaking Aspen	57	Log	1	4						example of how slight variations in Species Over Hydrology
	Red Maple	5	Log	1	4						Influencing Game and Harvest through time (S.O.H.I.G.H.Time) can
N	lorthern Pin Oak	3	Log	1	4						change the regeneration outcome. This stand is slightly more elevated overall, larger in size and heavier to aspen than neighboring cuts. It
	Bigtooth Aspen	35	Log	1	4						was also cut a year after other stands in the area.2022 Sale
											Closure: Harvested during the summer/fall of 2021 under contract Magrudder Mix 73-013-17. Clear-cut 2 inches and up.2017 YOE Inventory: Portion of contract # 73-029-81A Snowshoe Sale #2. Cut all aspen, elm, ash, red maple, & paper birch which met minimum piece utilization. Left all oak, white pine, & black cherry. The stand is a mixture of upland and lowland with the upland being the majority. The upland is heavy to bigtooth aspen and oak and the lowland is heavy to trembling aspen and red maple. The eastern end is wet and has a component of dead ash. The soil is a mixture of Pipestone and Kingsville.
50	6113 - Lo	wland Maple	Э	Sawtimb	er Well	55.5	83	81-110	N/A		2027 YOE Inventory: Variable stand ranging from lowland brush to XL
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	red maple. Recruitment is in the form of red maple pole release and ash regeneration.2018 YOE Inventory: This stand has inclusions of
	Red Maple	75		12	83	Re	ed Maple	Medium	>20 feet	>20 feet	L-Types and N-Types. Overall, the stand is too wet to harvest. The
(Quaking Aspen	5		14		Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	ground cover in the stand is heavy to sensitive fern. In addition, the
Sı	wamp White Oak	10		10	83	Mich	igan Holly	High	5 - 10 feet	5 - 10 feet	stand show signs of heavy deer browse on the regeneration. 30% of the stands BA was lost due to EAB. The main soil types are
N	lorthern Pin Oak	5		12		Gr	een Ash	Low	>20 feet	>20 feet	Kingsville and Pipestone.
	Paper Birch	5		9							
51	6112 - Lo	wland Asper	n	Sapling	Poor	29.0	5	Immature	N/A		2027 YOE Inventory: Canopy closure is around 50%. Scattered
	Canopy Species	% Cover	Size Class	DBH	Age						pockets of the lowest ground have minimal trees but upland areas are moderately to fully stocked. Eastern edge along wet E-type
(Quaking Aspen	40	Log	1	5						regenerated the worst. Stand meets regeneration objectives and is
Ν	lorthern Pin Oak	7	Log	1	5						expected to fill in more over time.2022 Sale Closure: Harvested
	Bigtooth Aspen	40	Log	1	5						during 2020 under contract Magrudder Mix 73-013-17. Clear-cut 2 inches and up. Wet drainages of the former stand were
	Red Maple	13	Log	1	5						removed.2017 YOE Inventory: Ash salvage plus cut all aspen
											prescribed last YOE but did not sell. Two ages dominate the canopy, 85 & 55. Third age class present in the understory & co-dominant position but not a significant portion of the canopy. Stand is fairly open underneath with minimal brush or seedlings. Swamp white oak & black cherry present in the canopy but under 2% each. Red maple is predominantly 55 years old with younger & older stems present. The stand is a mixture of upland and lowland with several higher ridges running north and south. Inclusions of L-Types and N-Types present. The main soil types are Kingsville and Pipestone.

Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
52	53 6119 - Mixed Lowlar		Forest	Unspecifed Sawtimber We		10.2	5				2027 YOE Inventory: Harvested area was 23 acres. 6.6 acres in the middle of the stand did not regenerate. Cause of regeneration failure in this area is mostly likely a mix of pre-harvest species composition, hydrology, browse and harvest timing. Hydrology is wettest, species were pole maple/birch dominant, stump sprout maple prefered browse. Perimeter areas of the stand regenerated well to aspen.2022 Sale Closure: Harvested during 2020 under contract Magrudder Mix 73-013-17. Clear-cut 2 inches and up.2017 YOE Inventory: Stand is a well-stocked aspen stand and putting on good growth. This area does taper to E-Types along the edges. Overall the stand is mainly upland but there are inclusions of low wet ground the main soil type is Covert and Pipestone. Red maple is multi-stemmed for the most part. Multiple oil and gas roads pass through the stand. Part of North Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, and paper birch which met minimum piece utilization. Left all oak and protected hardwood understory.
53	6119 - Mixed Lowla	and Decidud	ous Forest	Sawtimb	er We	II 9.8	105	51-80	N/A		2027 YOE Inventory: Stand density decreased due to aspen decline.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Canopy closure still above 75%.2017 YOE Inventory: The stand is low and wet with the ground cover of cinnamon fern, royal fern, dwarf
	amp White Oak	25		18	105		d Maple	Medium	>20 feet	>20 feet	raspberry, iris and New York fern. The oak regeneration in the stand
	Red Maple	55		12	105	Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	is swamp white oak. The main soil is Pipestone.
No	rthern Pin Oak	10		12	105	Na	nnyberry	Low	5 - 10 feet	5 - 10 feet	
Q	uaking Aspen	10		12		Gr	een Ash	Low	>20 feet	>20 feet	
		'				Swamı	White Oak	Medium	>20 feet	>20 feet	
54	4131 - A	spen, Oak		Sapling	Poor	53.5	5 I	mmature	N/A		2027 YOE Inventory: Mix of aspen, oak and sparse pockets. Canopy closure is around 40%, only counting individual stems over 4ft. Stand
C	Canopy Species	% Cover	Size Class	DBH	Age						meets regeneration stocking objectives. 2022 Sale Closure:
Q	uaking Aspen	20	Log	1	5						Harvested during 2020 under contract Magrudder Mix 73-013-17.
	Red Maple	15	Log	1	5						Clear-cut 2 inches and up.2017 YOE Inventory: The stand is on a ridge with an oil and gas road running through it. The low areas are
	igtooth Aspen	40	Log	1	5						just coming into poles. There are sparse areas in the stand but
No	orthern Pin Oak	25	Log	1	5						overall it meets 75% canopy closure. The stand does taper off to E-Types along the edges. The main soil types are Kingsville and Pipestone. Part of North Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, and paper birch which met minimum piece utilization. Left all oak and protected hardwood understory.
55	6112 - Lov	wland Aspe	n l	Poletimb	er We	II 11.8	34	81-110	N/A		2027 YOE Inventory: Switched to lowland based off recent
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	imagery.2018 YOE Inventory: Harvested under contract # 73-049- 90-01 Lost Hipchain Sale. Cut all species 2" and up. Aspen was
В	igtooth Aspen	10		7	34	Ta	ıg Alder	Low	5 - 10 feet	5 - 10 feet	considered over mature at time of harvest. The stand is an upland
	Paper Birch	10	Sapling	5	34	Alternate-le	eaved Dogwoo	d Low	5 - 10 feet	5 - 10 feet	lowland matrix with hummocky terrain. This stand was cut with the
Q	uaking Aspen	35	Sapling	6	34	Re	d Maple	Medium	Variable	Variable	adjacent ridge but because of its lower elevation regenerated to bettel stocking and with more red maple. The main soil types are Pipestone
No	rthern Pin Oak	5	Sapling	7	34	Northe	ern Pin Oak	Low	5 - 10 feet	5 - 10 feet	and Kingsville.
		40		5	34	Mich		Low	5 - 10 feet	5 - 10 feet	

Stand	Level 4 C	over Type		Size Dei	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
56	4130	- Aspen		Sapling	Poor	43.7	5	Immature	N/A	\	2027 YOE Inventory: Stand has regenerated to an acceptable level.
	Canopy Species	% Cover	Size Class	DBH	Age						Canopy closure above 4ft is closer to 50% than 25% and is an acceptable mix of aspen and other deciduous species. This stand is
	Red Maple	5	Log	1	5						expected to continue filling in over time.2022 Sale Closure:
	Bigtooth Aspen	55	Log	1	5						Harvested during 2020 under contract Magrudder Mix 73-013-17.
Ν	lorthern Pin Oak	15	Log	1	5						Clear-cut 2 inches and up.2017 YOE Inventory: Stand is closer to 75% canopy closure. Open pockets along forest road most likely from the control of the cont
(Quaking Aspen	25	Log	1	5						historic ORV use. North finger is primarily oak with scattered log siz
											trees. Small white pine inclusions located near center. Scattered older oak left from previous harvest. The stand is mainly an aspen ridge that tapers into lowland along the edges of the stand. The main soil type is Covert.
57	6113 - Lo	wland Maple	е :	Sawtimbe		16.6	84	81-110	N/A	\	2027 YOE Inventory: Stand would benefit from removal of poor formed and older stems.2017 YOE Inventory: Stand is a mix of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	lowland with upland hummocks. Stand is predominantly 74 years o
	Red Maple	65		10	84	R	ed Oak	Low	10 - 20 feet	10 - 20 feet	but a younger age class of red maple is beginning to recruit into
	Red Oak	10		15		Blad	ck Cherry	Low	10 - 20 feet	10 - 20 feet	canopy gaps created by the declining aspen. The red maple is of
(Quaking Aspen	15		12	84	Re	ed Maple	High	>20 feet	>20 feet	decent quality, only older stems appear to be growing in clumps. Recruiting red maple is single stemmed.
	Paper Birch	5	Seedling	8							
	Black Cherry	3	Seedling	8							
	Blackgum	2	Seedling	8							
58	6113 - Lo	wland Maple	e l	Poletimbe	r Poor	7.0	52	1-50	N/A	<u> </u>	2027 YOE Inventory: New stand. Canopy closure is around 50%.
	Canopy Species	% Cover	Size Class	DBH	Age						Transition between upland to cattail.
	Red Maple	70		7	52						
(Quaking Aspen	5		7							
Sı	wamp White Oak	15		6							
Ν	lorthern Pin Oak	5	Sapling	7							
	Paper Birch	5	Sapling	5							
59	611 - Lowland	Deciduous I	Forest	Unspec	ifed	32.8	4				2027 YOE Inventory: Browse pressure is significant throughout the

Sub-Canopy Species Density Avg. Height Size 5 - 10 feet Northern Pin Oak Low 5 - 10 feet Quaking Aspen Low 5 - 10 feet 5 - 10 feet < 5 feet Quaking Aspen Low < 5 feet < 5 feet Medium < 5 feet Bigtooth Aspen Red Maple Medium 10 - 20 feet 10 - 20 feet Paper Birch Low < 5 feet < 5 feet < 5 feet < 5 feet Northern Pin Oak Medium Bigtooth Aspen Low 5 - 10 feet 5 - 10 feet Red Maple 5 - 10 feet 5 - 10 feet Low

2027 YOE Inventory: Browse pressure is significant throughout the stand. Approximately 30% of the stand area didn't regenerate due to browse and hydrology. The other 70% is low to moderately stocked with seedlings under 3ft and scattered pockets above browse height. Stand doesn't pass monitoring survey. Keep monitoring.2022 Sale Closure: Harvested during the summer/fall of 2021 under contract Magrudder Mix. Clear-cut 2 inches and up.2017 YOE Inventory: This stand is a mixture of upland ridges and lowland swales. Within the stand boundaries, there are inclusions of L-Types. The low areas are a mixture of birch, red maple with quaking aspen and upland is heavy to aspen. When the stand was harvested, there was substantial rutting. The main soil type is Pipestone. Part of North Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, and paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed.

Compartment: 116

Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
60	6113 - Lov	wland Mapl	e Sa	awtimbe		m 55.0	102	51-80	N/A		2027 YOE Inventory: Regeneration is below 3ft on average due to browse pressure. Majority species are aspen and oak in upland knob
	anopy Species		Size Class		l Age		nopy Species	Density	Avg. Height	Size	gaps. Overall harvest goals met. Gaps will fill in over the next couple
	Red Maple	60		12	102	Swamp	White Oak	Low	10 - 20 feet	10 - 20 feet	decades 2022 Sale Closure: Harvested during the summer/fall of
Swa	amp White Oak	20		15	102	Та	ig Alder	Low	5 - 10 feet	5 - 10 feet	2021 under contract Magrudder Mix. Created 100ft canopy gaps throughout the stand.2017 YOE Inventory: The stand is a mixture
	Red Oak	20		15	102	R	ed Oak	Low	10 - 20 feet	10 - 20 feet	of upland ridges and lowland forest. The wettest areas are identified
						Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	by Michigan holly and tag alder understory. There is a component of
						Black/Re	d (Hybrid) Oak	Low	< 5 feet	< 5 feet	dead ash within this stand but is not substantial enough to be an issue
						Alternate-le	eaved Dogwoo	d Low	5 - 10 feet	5 - 10 feet	
						Gre	een Ash	Low	< 5 feet	< 5 feet	
						Bigto	oth Aspen	Low	< 5 feet	< 5 feet	
61	4130	- Aspen		Sapling	y Well	23.1	35	51-80	N/A		2027 YOE Inventory: Stand has transitioned to poles. 2018 YOE
Ca	anopy Species	% Cover	Size Class	DBH	l Age						Inventory: Harvested under contract # 73-018-90-01 Bradford Road Sale. Cut all species 2" and up. Stand varies in density. The main
Qu	uaking Aspen	30	Sapling	5	35						species in the stand is bigtooth aspen mixed with some oak and red
Big	gtooth Aspen	50	Sapling	6	35						maple. Some advanced oak regeneration was left from previous
	Red Maple	5	Sapling	5	35						harvest creating two ages within the oak type. The main soil type is Covert and Pipestone.
F	Paper Birch	5	Pole	4	35						Govern and impostorio.
Nor	thern Pin Oak	10		8							
62	4131 - A	spen, Oak		Sapling	Poor	39.7	4 I	mmature	N/A		2027 YOE Inventory: Regeneration above 3ft is patchy and at low stocking. Seedlings below browse height are moderately stocked.
Ca	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Around 25% of the stand is non-stocked due to hydrology and browse
	uaking Aspen	10	Log	1	4	Black/Re	d (Hybrid) Oak	Medium	< 5 feet	< 5 feet	Stand is expected to fill in over time.2022 Sale Closure: Harvested
Nor	thern Pin Oak	20	Log	1	4		d Maple	Medium	< 5 feet	< 5 feet	during the summer/fall of 2021 under contract Magrudder Mix. Clear- cut 2 inches and up.2017 YOE Inventory: Harvested under
		30	Log	1	4	01	A	1			cut 2 inches and up.2017 TOL inventory. Harvested under
	Red Maple					Quak	ing Aspen	Low	< 5 feet	< 5 feet	contract # 73-106-83-01 Bald Face Sale. Cut all species which met
	Red Maple gtooth Aspen	40	Log	1	4		oth Aspen	Low	< 5 feet	< 5 feet	minimum piece utilization. The stand just makes an A6 and is mixed
	<u> </u>		Log				<u> </u>				
	gtooth Aspen		Log		4		<u> </u>			< 5 feet	minimum piece utilization. The stand just makes an A6 and is mixed with some oak and red maple. The area is a mixture of upland and lowland. The lower areas are dominated by Michigan Holly in the understory with red maple in the canopy. The main soil type under th stand is Pipestone. 2027 YOE Inventory: The stand is mainly cattails with clumps/fingers
Biç	gtooth Aspen	40	Log	1	4	Bigto 48.2	<u> </u>		< 5 feet	< 5 feet	minimum piece utilization. The stand just makes an A6 and is mixed with some oak and red maple. The area is a mixture of upland and lowland. The lower areas are dominated by Michigan Holly in the understory with red maple in the canopy. The main soil type under th stand is Pipestone. 2027 YOE Inventory: The stand is mainly cattails with clumps/fingers of lowland brush and hardwood. The southern end of the stand has
Biç	gtooth Aspen	40	Log	1	4	Bigto 48.2 Sub-Ca	oth Aspen	Low	< 5 feet	< 5 feet	minimum piece utilization. The stand just makes an A6 and is mixed with some oak and red maple. The area is a mixture of upland and lowland. The lower areas are dominated by Michigan Holly in the understory with red maple in the canopy. The main soil type under th stand is Pipestone. 2027 YOE Inventory: The stand is mainly cattails with clumps/fingers
Biç	gtooth Aspen	40	Log	1	4	Bigto 48.2 Sub-Cai	oth Aspen	Low	< 5 feet No Avg. Height	< 5 feet Size 10 - 20 feet	minimum piece utilization. The stand just makes an A6 and is mixed with some oak and red maple. The area is a mixture of upland and lowland. The lower areas are dominated by Michigan Holly in the understory with red maple in the canopy. The main soil type under th stand is Pipestone. 2027 YOE Inventory: The stand is mainly cattails with clumps/fingers of lowland brush and hardwood. The southern end of the stand has the largest patch of swamp hardwood but overall there is not enough to call it an E1. Exotic phragmites is present within this stand.
Biç	gtooth Aspen	40	Log	1	4	48.2 Sub-Cal Swamp Cal	nopy Species White Oak	Low Density Medium	< 5 feet No Avg. Height 10 - 20 feet	< 5 feet Size 10 - 20 feet	minimum piece utilization. The stand just makes an A6 and is mixed with some oak and red maple. The area is a mixture of upland and lowland. The lower areas are dominated by Michigan Holly in the understory with red maple in the canopy. The main soil type under th stand is Pipestone. 2027 YOE Inventory: The stand is mainly cattails with clumps/fingers of lowland brush and hardwood. The southern end of the stand has the largest patch of swamp hardwood but overall there is not enough to call it an E1. Exotic phragmites is present within this stand.
Big	gtooth Aspen	40	Log	1	4	48.2 Sub-Ca Swamp Cai	nopy Species b White Oak ttail spp.	Density Medium Full	< 5 feet No Avg. Height 10 - 20 feet Not Applicable	Size 10 - 20 feet Not Applicable	minimum piece utilization. The stand just makes an A6 and is mixed with some oak and red maple. The area is a mixture of upland and lowland. The lower areas are dominated by Michigan Holly in the understory with red maple in the canopy. The main soil type under th stand is Pipestone. 2027 YOE Inventory: The stand is mainly cattails with clumps/fingers of lowland brush and hardwood. The southern end of the stand has the largest patch of swamp hardwood but overall there is not enough to call it an E1. Exotic phragmites is present within this stand.
Biç	gtooth Aspen	40	Log	1	4	48.2 Sub-Cai Swamp Cai Pap	nopy Species White Oak ttail spp. per Birch	Density Medium Full Low	No Avg. Height 10 - 20 feet Not Applicable 10 - 20 feet	Size 10 - 20 feet Not Applicable 10 - 20 feet	minimum piece utilization. The stand just makes an A6 and is mixed with some oak and red maple. The area is a mixture of upland and lowland. The lower areas are dominated by Michigan Holly in the understory with red maple in the canopy. The main soil type under th stand is Pipestone. 2027 YOE Inventory: The stand is mainly cattails with clumps/fingers of lowland brush and hardwood. The southern end of the stand has the largest patch of swamp hardwood but overall there is not enough to call it an E1. Exotic phragmites is present within this stand.
Biç	gtooth Aspen	40	Log	1	4	48.2 Sub-Cal Swamp Cal Pap Re Wil	nopy Species b White Oak ttail spp. ber Birch d Maple	Density Medium Full Low Medium	No Avg. Height 10 - 20 feet Not Applicable 10 - 20 feet 10 - 20 feet	Size 10 - 20 feet Not Applicable 10 - 20 feet 10 - 20 feet	minimum piece utilization. The stand just makes an A6 and is mixed with some oak and red maple. The area is a mixture of upland and lowland. The lower areas are dominated by Michigan Holly in the understory with red maple in the canopy. The main soil type under th stand is Pipestone. 2027 YOE Inventory: The stand is mainly cattails with clumps/fingers of lowland brush and hardwood. The southern end of the stand has the largest patch of swamp hardwood but overall there is not enough to call it an E1. Exotic phragmites is present within this stand.
Biç	gtooth Aspen	40	Log	1	4	48.2 Sub-Cai Swamp Cai Pap Re Will	nopy Species b White Oak ttail spp. ber Birch d Maple low spp.	Density Medium Full Low Medium Medium	No Avg. Height 10 - 20 feet Not Applicable 10 - 20 feet 10 - 20 feet 5 - 10 feet	Size 10 - 20 feet Not Applicable 10 - 20 feet 10 - 20 feet 5 - 10 feet	minimum piece utilization. The stand just makes an A6 and is mixed with some oak and red maple. The area is a mixture of upland and lowland. The lower areas are dominated by Michigan Holly in the understory with red maple in the canopy. The main soil type under th stand is Pipestone. 2027 YOE Inventory: The stand is mainly cattails with clumps/fingers of lowland brush and hardwood. The southern end of the stand has the largest patch of swamp hardwood but overall there is not enough to call it an E1. Exotic phragmites is present within this stand.

Level 4 Cover Type Stand Size Density **Managed Site General Comments** Acres Stand Age BA Range 4131 - Aspen. Oak Poletimber Well 67.3 35 81-110 N/A 2027 YOE Inventory: Canopy closure is around 75%. Density is 64 variable. Switched land position call to upland with lowland. Non-% Cover Size Class Size **Canopy Species DBH Age Sub-Canopy Species** Density Ava. Heiaht forested lowland pockets included in areas of the stand.2018 YOE Paper Birch 5 35 Red Maple Low 5 - 10 feet 5 - 10 feet Sapling Inventory: Harvested under contract # 73-018-90-01 Bradford Road Sale. Cut all species 2" and up. A few islands of uncut timber were 10 6 35 5 - 10 feet 5 - 10 feet Red Maple Sapling Northern Pin Oak Medium left in low wet areas. This stand is grassy with some ORV use but it is Northern Pin Oak 20 8 35 minimal. The stand is on a ridge that tapers to low wet ground. The 65 6 35 Bigtooth Aspen Sapling overstory is a mixture of aspen and oak. The majority of the stand just makes pole size. Sapling pockets still exist. There are also inclusions of G-Types. Overall, the stand is a light A6 with some oak. red maple and paper birch. 65 6113 - Lowland Maple Sawtimber Well 18 7 58 81-110 N/A 2026 YOE Inventory: Switched stand from upland to lowland based off imagery and observation. Hold stand to manage with adjacent **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Ava. Heiaht Size aspen. Regeneration will be an issue in this stand due to deer Red Maple 60 11 58 Red Maple Medium 10 - 20 feet 10 - 20 feet browse. Portions of the stand are too wet to cut.2018 YOE Inventory: Previous harvest left scattered residual oak & maple. The 12 10 - 20 feet Quaking Aspen 10 58 Black Cherry Low 10 - 20 feet stand has a two aged appearance because of smaller suppressed 20 Northern Pin Oak 12 58 Northern Pin Oak 5 - 10 feet 5 - 10 feet Low maple and advanced understory but the dominant age is 48. Stand is 14 Bigtooth Aspen 10 primarily upland with lowland pockets. An overflow from stand 45 cuts off the south portion of this stand effectively creating an island. 4125 - Black, N. Pin Oak Poletimber Medium 19.3 63 1-50 N/A 2022 Sale Closure: Eastern edge of the stand was removed after 66 being harvested under contract Magrudder Mix during the summer of % Cover Size Class Size **Canopy Species DBH Age Sub-Canopy Species** Density Ava. Heiaht 2022. 5 - 10 feet Red Maple 25 8 44 Serviceberry (Juneberry) Low 5 - 10 feet 2017 YOE Inventory: Stand was harvested 34 years ago in which the Northern Pin Oak 70 9 63 Black Cherry >20 feet >20 feet Low advanced oak regeneration was protected along with some older 5 11 63 >20 feet >20 feet Quaking Aspen Northern Pin Oak Medium individuals and some aspen. Regeneration failed accept for low areas 5 - 10 feet Michigan Holly Medium 5 - 10 feet which were not rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple Witch Hazel Low 5 - 10 feet 5 - 10 feet regeneration is concentrated here). The soil is mainly Pipestone with Red Maple Medium >20 feet >20 feet some area of Covert. 6230 - Cattail None 6.1 No 2018 YOE Inventory: The stand is a depression of mainly cattail and 67 sedges. There are areas of lowland brush especially along the **Sub-Canopy Species** Size Density Avg. Height edges. No phragmites. Full Not Applicable Not Applicable Cattail spp. Red Osier Dogwood Medium 5 - 10 feet 5 - 10 feet 6119 - Mixed Lowland Deciduous Forest 60 N/A Poletimber Well 22.7 81-110 2027 YOE Inventory: Switched stand to lowland w/ upland based off more recent imagery and quantity of tranditionally lowland adapted % Cover Size Class **DBH Age** Size **Canopy Species Sub-Canopy Species** Density Avg. Height species.2017 YOE Inventory: Stand was cut with stand 66 34 Red Maple 15 8 44 Red Maple High 10 - 20 feet 10 - 20 feet years ago in which all advanced oak was left resulting in a 50 year old stand. The understory maple is growing in clumps but there are some 45 9 60 Northern Pin Oak nicer single stems which made it to the canopy. The area is lower in Swamp White Oak 10 8

Quaking Aspen

30

10 44

much smaller in diameter.

elevation but overall flooding doesn't appear to be common. There

are lowland inclusions towards the south part of this stand which where cut and regenerated to low density swamp white oak which is

Compartment: 116

Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
69	6113 - Lov	vland Maple	е	Poletimb	er Poor	15.8	87	1-50	N/A	Ą	2017 YOE Inventory: Very wet stand which just meets forested
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	criteria. Lowland brush dominates the majority of the stand. eventually will convert to non-forested lowland. The main soil type is
	Red Maple	80		8	87	Re	d Maple	Low	5 - 10 feet	5 - 10 feet	Kingsville.
Sw	amp White Oak	5	Seedling	8		Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Paper Birch	15	Seedling	8	87	Mich	igan Holly	High	5 - 10 feet	5 - 10 feet	
70	4125 - Blacl	k, N. Pin O	ak	Poletimb	er Well	16.1	60	51-80	N/A	4	2027 YOE Inventory: Oak stems are on the verge of a log size
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	average. Some nice red oak stems present. Canopy closure around 75%. Maple stems are pole class canopy with a few log size
Black	/Red (Hybrid) Oak	30		9	60	Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	individuals. Maintain stocking at current levels to promote future
Е	Bigtooth Aspen	5		8	25	Northe	ern Pin Oak	Medium	10 - 20 feet	10 - 20 feet	stand form.2017 YOE Inventory: The stand was a 4" clearcut done
	Red Maple	30		7		Wit	ch Hazel	Low	5 - 10 feet	5 - 10 feet	in 2000 under contract # 73-017-99-01 Bradford MacGrudder. Comments indicate a good stocking of oak under 4" was left. The
N	orthern Pin Oak	35		9	60	Servicebe	erry (Juneberry)	Low	10 - 20 feet	10 - 20 feet	aspen in the stand did not regenerate well and it has come back as an
	4404 A	Octo		Deletie	D -	50.0	00	4.50			because of the advanced regeneration left which has now become the canopy. The red maple in the stand is a mix of ages between 15 and 50. The soil under the stand is mainly Pipestone and Covert.
71		spen, Oak		Poletimb			26	1-50	N/A		2027 YOE Inventory: Diameter has grown into pole class. No new recruitment into the understory. Stand is sparse.2018 YOE
	Canopy Species Red Maple	% Cover	Size Class	5 DBH	Age 26		nopy Species d (Hybrid) Oak	Density	Avg. Height 5 - 10 feet	Size	Comment: Harvested under contract # 73-018-99-01 Porter Oil Field.
	<u> </u>	20	Sapling	5	26	DIACK/Re	а (пурпа) Оак	LOW	5 - 10 leet	5 - 10 feet	The regeneration in the stand is patchy and it is mainly in the form of isolated clones. When the stand was harvested the oak <= 4" DBH
	Quaking Aspen (/Red (Hybrid) Oak	20	Sapling	8	20						was left. There was a lot of mortality in the aspen regeneration that
Diacr	White Oak	5		8							seemed to be associated with deer browse pressure. The main soil
	Bigtooth Aspen	50	Sapling	5	26						types are Pipestone and Covert.
	ngtooth Aspen	30	Sapility	3	20						
72	6113 - Lov	vland Maple	е	Sawtimb	er Well	8.2	80	51-80	N/A	Ą	2027 YOE Inventory: Aspen canopy trees declining. Red maple succeeding underneath.2017 YOE Inventory: The stand is in a
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	depression and is heavy to red maple. Dead ash component in the
	Red Maple	65		10	80	Re	d Maple	Medium	>20 feet	>20 feet	west end reduces canopy closure but still is higher than the east
Sw	amp White Oak	15		12	80	R	ed Oak	Low	Variable	Variable	portion. The east portion is less dense with an understory dominated by lowland brush. The main soil type is Kingsville
	Quaking Aspen	10		12	80		ier Dogwood	Medium	5 - 10 feet	5 - 10 feet	by lowiand brush. The main son type is rungsvine
N ₁	orthern Pin Oak	10		10		Gr	een Ash	Low	>20 feet	>20 feet	
73	6230 -	- Cattail		Nor	ne	15.6			No)	Cattail marsh with alder throughout. North finger is primarily lowland brush with willow dominant.
						Sub-Ca	nopy Species	Density	Avg. Height	Size	Diusii wiii WiiiOW uoffiiliafit.
						Ca	ttail spp.	Full	Not Applicable	Not Applicable	
						Та	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
						Wi	llow spp.	Medium	10 - 20 feet	10 - 20 feet	
						Pa	per Birch	Low	10 - 20 feet	10 - 20 feet	

eport 7 – Stands Compartment: 116
Year of Entry: 2027

Stand	Level 4 Co	over Type	S	ize De	insity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
74	6220 - Al	der/Willow		Nor	ne	29.6			No		This stand is an L-Type of willow and tag alder with marsh grass and
						Sub-Car	nopy Species	Density	Avg. Height	Size	areas of cattails. There are swamp hardwood island in the stand but they do not have enough canopy closure to make this stand an E4.
						Swamp	White Oak	Low	10 - 20 feet	10 - 20 feet	The main soil type is Kinross.
						Will	ow spp.	Medium	5 - 10 feet	5 - 10 feet	
						Red Osi	er Dogwood	Medium	5 - 10 feet	5 - 10 feet	
						Ta	g Alder	High	5 - 10 feet	5 - 10 feet	
						Cat	tail spp.	Medium	Not Applicable	Not Applicable	
						Pap	er Birch	High	>20 feet	>20 feet	
						Red	d Maple	High	>20 feet	>20 feet	
75 ⁶	6119 - Mixed Lowla	nd Deciduo	ous Forest Saw	/timber	Mediu	ım 30.3	115	1-50	N/A	1	2017 YOE Inventory: The stand is low and wet with lots of standing
C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	water present most of the year. There are a few higher spots in this stand with red oak present. Dead ash component throughout but
	Red Oak	5		10		Red	d Maple	Low	Variable	Variable	should be succeeded by red maple and swamp white oak in the
	Paper Birch	5	Seedling	8		Swamp	White Oak	Medium	Variable	Variable	understory. Low stand vigor because of anaerobic conditions
Q	Quaking Aspen	2		12		Bla	ckgum	Low	Variable	Variable	throughout most of the year. The main soil type is Kinross.
	Blackgum	3	Seedling	8		Michi	gan Holly	High	5 - 10 feet	5 - 10 feet	
Swa	amp White Oak	45		12	115						
	Red Maple	40		9	65						
76	4191 - Mixed Upla Co	and Deciduo nifer	ous with Sa	awtimb	er Wel	l 9.5	77	141-170	N/A		2027 YOE Inventory: Understory maple and oak have developed to a supressed canopy position over the past 10 years. Crown
		nifer	ous with Sa		er Wel		77	141-170 Density	N/A	Size	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a
76 C	Co	nifer				Sub-Car					supressed canopy position over the past 10 years. Crown
C	Co Canopy Species	nifer % Cover		DBH		Sub-Car	nopy Species	Density	Avg. Height	Size	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to
C	Co Canopy Species White Oak	% Cover		DBH		Sub-Car Re	nopy Species ed Oak	Density Low	Avg. Height >20 feet	Size >20 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining 2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only
C	Canopy Species White Oak White Pine	% Cover 5 10		DBH	I Age	Sub-Car Re	nopy Species ed Oak d Maple	Density Low Low	Avg. Height >20 feet >20 feet	Size >20 feet >20 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining 2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to
C	Canopy Species White Oak White Pine Red Oak Red Pine	% Cover 5 10 45	Size Class	DBH 14 14 16 14	77	Sub-Car Re Rec Wh	nopy Species ed Oak d Maple	Density Low Low	Avg. Height >20 feet >20 feet	Size >20 feet >20 feet 10 - 20 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine at declining 2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone.
77	Canopy Species White Oak White Pine Red Oak Red Pine	% Cover 5 10 45 30 Aspen	Size Class	DBH 14 14 16 14 14 etimber	77 77	Sub-Car Re Rec Wh	nopy Species ed Oak d Maple ite Oak	Density Low Low Trace	Avg. Height >20 feet >20 feet 10 - 20 feet	Size >20 feet >20 feet 10 - 20 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract # 73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected
77	Canopy Species White Oak White Pine Red Oak Red Pine	% Cover 5 10 45 30 Aspen	Size Class	DBH 14 14 16 14 14 etimber	77 77 Mediu	Sub-Car Rec Wh um 8.6 Sub-Car	nopy Species ed Oak d Maple iite Oak	Density Low Low Trace	Avg. Height >20 feet >20 feet 10 - 20 feet	Size >20 feet >20 feet 10 - 20 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract #73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the regeneration has died leaving the stand with patches of clones and
77	Canopy Species White Oak White Pine Red Oak Red Pine 4130	% Cover 5 10 45 30 Aspen % Cover	Size Class	DBH	77 77 Mediu	Sub-Car Rec Wh wm 8.6 Sub-Car	nopy Species ed Oak d Maple iite Oak 26 nopy Species	Density Low Low Trace 1-50 Density Low	Avg. Height >20 feet >20 feet 10 - 20 feet N/A Avg. Height	Size >20 feet >20 feet 10 - 20 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine at declining 2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract #73-018-99-01 Porter Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the
77 C Black	Canopy Species White Oak White Pine Red Oak Red Pine 4130 - Canopy Species VRed (Hybrid) Oak	S	Pole Size Class	DBH	77 77 77 Mediu 1 Age	Sub-Car Rec Wh wm 8.6 Sub-Car	nopy Species ed Oak d Maple ite Oak 26 nopy Species ite Oak	Density Low Low Trace 1-50 Density Low	Avg. Height >20 feet >20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet	Size >20 feet >20 feet 10 - 20 feet Size 5 - 10 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract #73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the regeneration has died leaving the stand with patches of clones and
77 CBlack	Canopy Species White Oak White Pine Red Oak Red Pine 4130 - Canopy Species t/Red (Hybrid) Oak Red Maple	S	Pole Size Class	DBH	77 77 77 Mediu 1 Age	Sub-Car Rec Wh wm 8.6 Sub-Car	nopy Species ed Oak d Maple ite Oak 26 nopy Species ite Oak	Density Low Low Trace 1-50 Density Low	Avg. Height >20 feet >20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet	Size >20 feet >20 feet 10 - 20 feet Size 5 - 10 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract #73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the regeneration has died leaving the stand with patches of clones and
77 CBlack	Canopy Species White Oak White Pine Red Oak Red Pine 4130 - Canopy Species KRed (Hybrid) Oak Red Maple Sigtooth Aspen	S	Pole Size Class Pole Sapling	DBH	77 77 77 Mediu 1 Age	Sub-Car Rec Wh wm 8.6 Sub-Car	nopy Species ed Oak d Maple ite Oak 26 nopy Species ite Oak	Density Low Low Trace 1-50 Density Low	Avg. Height >20 feet >20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet	Size >20 feet >20 feet 10 - 20 feet Size 5 - 10 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract #73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the regeneration has died leaving the stand with patches of clones and
77 C Black	Canopy Species White Oak White Pine Red Oak Red Pine 4130 - Canopy Species VRed (Hybrid) Oak Red Maple Bigtooth Aspen Quaking Aspen White Oak	S	Pole Size Class Pole Sapling Sapling Pole	DBH	77 77 77 Mediu 1 Age	Sub-Car Rec Wh Im 8.6 Sub-Car Wh Black/Rec	nopy Species ed Oak d Maple iite Oak 26 nopy Species iite Oak d (Hybrid) Oak	Density Low Low Trace 1-50 Density Low	Avg. Height >20 feet >20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet	Size >20 feet >20 feet 10 - 20 feet Size 5 - 10 feet 5 - 10 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine at declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract # 73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the regeneration has died leaving the stand with patches of clones and many open areas. The main soil type is Covert and Pipestone.
77 C Black	Canopy Species White Oak White Pine Red Oak Red Pine 4130 - Canopy Species //Red (Hybrid) Oak Red Maple Bigtooth Aspen Quaking Aspen White Oak 6113 - Lov Canopy Species	S	Pole Size Class Pole Sapling Sapling Pole	DBH	77 77 77 Mediu 1 Age 26 26 26	Sub-Car Rec Wh wh 8.6 Sub-Car Wh Black/Rec um 10.6 Sub-Car	nopy Species ad Oak d Maple lite Oak 26 nopy Species lite Oak d (Hybrid) Oak 60 nopy Species	Density Low Low Trace 1-50 Density Low Low Density	Avg. Height >20 feet >20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height	Size >20 feet >20 feet 10 - 20 feet Size 5 - 10 feet 5 - 10 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract # 73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the regeneration has died leaving the stand with patches of clones and many open areas. The main soil type is Covert and Pipestone.
77 C Black	Canopy Species White Oak White Pine Red Oak Red Pine 4130 - Canopy Species //Red (Hybrid) Oak Red Maple sigtooth Aspen Quaking Aspen White Oak 6113 - Lov	S	Pole Size Class Pole Sapling Sapling Pole Pole	DBH	77 77 Mediu 26 26 26 26 1 Age	Sub-Car Rec Wh wh 8.6 Sub-Car Wh Black/Rec um 10.6 Sub-Car	nopy Species ed Oak d Maple iite Oak 26 nopy Species iite Oak d (Hybrid) Oak	Density Low Low Trace 1-50 Density Low Low 51-80	Avg. Height >20 feet >20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Size	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine at declining 2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract # 73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the regeneration has died leaving the stand with patches of clones and many open areas. The main soil type is Covert and Pipestone. 2027 YOE Inventory: Average diameter is just below log size. Understory is mostly holly and alder post ash die off.2017 YOE Inventory: This stand has a significant dead ash component which resulted in approximately a 45% canopy closure reduction. Ash is
77 C Black	Canopy Species White Oak White Pine Red Oak Red Pine 4130 - Canopy Species WRed (Hybrid) Oak Red Maple Bigtooth Aspen White Oak 6113 - Lov Canopy Species wamp White Oak Red Maple	S	Pole Size Class Pole Sapling Sapling Pole Pole	DBH	77 77 Mediu 26 26 26 26 1 Age	Sub-Car Rec Rec Wh Im 8.6 Sub-Car Wh Black/Rec Im 10.6 Sub-Car Rec	nopy Species ad Oak d Maple lite Oak 26 nopy Species lite Oak d (Hybrid) Oak 60 nopy Species	Density Low Low Trace 1-50 Density Low Low Density	Avg. Height >20 feet >20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet	Size >20 feet >20 feet 10 - 20 feet Size 5 - 10 feet 5 - 10 feet Variable 5 - 10 feet	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine a declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract # 73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the regeneration has died leaving the stand with patches of clones and many open areas. The main soil type is Covert and Pipestone. 2027 YOE Inventory: Average diameter is just below log size. Understory is mostly holly and alder post ash die off.2017 YOE Inventory: This stand has a significant dead ash component which resulted in approximately a 45% canopy closure reduction. Ash is also a dominant species in the sub-canopy but lowland brush is
77 C Black	Canopy Species White Oak White Pine Red Oak Red Pine 4130 - Canopy Species KRed (Hybrid) Oak Red Maple Bigtooth Aspen Quaking Aspen White Oak 6113 - Lov Canopy Species Kamp White Oak	S	Pole Size Class Pole Sapling Sapling Pole Pole	DBH	77 77 Mediu 26 26 26 26 1 Age	Sub-Car Rec Rec Wh Im 8.6 Sub-Car Wh Black/Rec Im 10.6 Sub-Car Rec Michi	nopy Species ed Oak d Maple iite Oak 26 nopy Species iite Oak d (Hybrid) Oak 60 nopy Species d Maple	Low	Avg. Height >20 feet >20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet N/A Avg. Height Variable	Size	supressed canopy position over the past 10 years. Crown competition is progressing to a point where individual oak and pine at declining.2017 YOE Inventory: This stand has some larger overstory oak and white pine along with hand planted red pine. The oak is larger in DBH than the pine. In addition, the area appears to have been a barrow area for Bradford Rd. This stand is also the only conifer stand in the compartment; and it should be held for diversity. The main soil type is Covert and Pipestone. 2018 YOE Inventory: Harvested under contract # 73-018-99-01 Ported Oil Field. Cut 2" and up except left oak 4" and under, protected regeneration. Stand has been heavily browsed by deer. Much of the regeneration has died leaving the stand with patches of clones and many open areas. The main soil type is Covert and Pipestone. 2027 YOE Inventory: Average diameter is just below log size. Understory is mostly holly and alder post ash die off.2017 YOE Inventory: This stand has a significant dead ash component which resulted in approximately a 45% canopy closure reduction. Ash is

Stan	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age BA	A Range	Managed S	Site	General Comments
79	4199 - Other Mixe	d Upland D	eciduous	Sawtimb	er Well	45.2	65 1	11-140	N/A	4	2027 YOE Inventory: Split former stand into upland and lowland
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	nopy Species	Density	Avg. Height	Size	stands and combined upland stand to the east of Turkey drain. Deer browse is very high in this stand. Natural canopy gaps formed through
	Paper Birch	2		10	65	Red	d Maple	Medium	>20 feet	>20 feet	wind through aren't filling in. Regenerating this stand will be very
	White Oak	13		16	107	Alternate-le	aved Dogwood	Low	5 - 10 feet	5 - 10 feet	difficult.2017 YOE Inventory: Stand is a mixture of upland ridges
	Red Oak	20		12	65	Re	ed Oak	Low	Variable	Variable	and lowland flats (predominantly lowland). The aspen looks to be declining. There is a survey corner present in the stand and it is
	Bigtooth Aspen	20		13	65	Serviceber	rry (Juneberry)	Medium	10 - 20 feet	10 - 20 feet	located at N 43° 31.898' W84° 28.139' Cap # 17741. A forested drai
	Red Maple	45		10	65						flows from stand 96 into Turkey Drain and bisects this stand. The ground cover goes from bracken fern on the upland to sensitive fern and iris in the lowlands. The wettest portions of the stand are located to the west along the PVT. line. The main soil is Wixom.
80	6116 - Lo	wland Birch	n P	oletimbe	r Mediu	m 5.5	35	51-80	N/A	4	2017 YOE Inventory: The stand looks like it might have been a beave
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	nopy Species	Density	Avg. Height	Size	flooding. However, it is now a pole size stand dominated by paper birch. The Turkey Creek flows through the stand. The main soil is
	Paper Birch	75	Seedling	6	35	Will	ow spp.	Low	5 - 10 feet	5 - 10 feet	Wixom.
	Green Ash	5	Log	4	35	Red Osi	er Dogwood	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	20	Seedling	8	35	Autui	mn Olive	Low	5 - 10 feet	5 - 10 feet	
						Flowerin	ng Dogwood	Medium	5 - 10 feet	5 - 10 feet	
81	6119 - Mixed Lowla	and Deciduo	ous Forest	Poletimb	er Well	15.1	70	81-110	N/A	Ą	2017 YOE Inventory: Natural succession of red maple and swamp
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	nopy Species	Density	Avg. Height	Size	white oak through the declining ash canopy has resulted in a 60 year old pole stand. Ash should begin to fall down in the next 10 years,
	Red Maple	55		10	70	Swamp	White Oak	Medium	10 - 20 feet	10 - 20 feet	releasing the understory more. 25% reduction in BA due to ash
	Quaking Aspen	15		12		Michi	gan Holly	Medium	5 - 10 feet	5 - 10 feet	mortality.
	Swamp White Oak	30		9	70	Red	d Maple	Medium	10 - 20 feet	10 - 20 feet	
82	3102	- Grass		No	ne	1.0					2020 Comment: Old well pad site. Has been seeded with grasses. The main soil type is Kinross. Permit 2260 well plugged 5/25/1938
83	4130	- Aspen	Р	oletimbe	r Mediu	m 6.6	55	51-80	N/A	A	2018 YOE Inventory: This stand is an A5. The area is mainly a ridge
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	that tapers down to L and N-Types. Access is limited due to private property and lowland marshes. Currently a oil and gas road accesse
	Red Maple	10	Sapling	6	55	Serviceber	rry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	stand from the SW. The main soil type is Belleville.
	Red Oak	15	Seedling	8	55	Red	d Maple	Low	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	75	Seedling	8	55	Wh	ite Oak	Low	10 - 20 feet	10 - 20 feet	
84	6230	- Cattail		No	ne	33.5			No		This is a large cattail marsh with scattered pockets of lowland brush and hardwood around the perimeter. Phragmites exists in two small
							nopy Species	Density	Avg. Height	Size	pockets along the south edge.
							White Oak	Low	>20 feet	>20 feet	
							tail spp.	High	Not Applicable		(
						`	g Alder	Medium	5 - 10 feet	5 - 10 feet	
							d Maple	Low	>20 feet	>20 feet	
							gan Holly	Medium	5 - 10 feet	5 - 10 feet	
						Pap	er Birch	Low	>20 feet	>20 feet	

Stand	Level 4 Co	ver Type		Size Dens	ity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
85	4199 - Other Mixed	Upland D	eciduous	Sawtimber	Well	10.1	82	81-110	N/A	Α	2027 YOE Inventory: Some mortality has occurred in aspen. Stand
	Canopy Species	% Cover	Size Class	DBH A	\ge	Sub-Can	opy Species	Density	Avg. Height	Size	actively converting a new age class of hardwood.2018 YOE Inventory: This stand has some well sites restoration going on at the
	Paper Birch	3	Seedling	8		Red	Maple	Medium	Variable	Variable	current time. The area is inaccessible due to private property and
	Quaking Aspen	30		13	82	Michig	gan Holly	Medium	5 - 10 feet	5 - 10 feet	large non-forested wetlands, let it convert to maple and oak. The
	Red Maple	45		10	82						stand is small and tapers to L and N-Types. The soils are mainly Covert and Belleville.
	Sassafras	2	Seedling	7							
	Red Oak	20		13	82						
86	6230 -	Cattail		None		13.6			No)	Cattail marsh with lowland hardwood and brush around the perimeter
						Sub-Can	opy Species	Density	Avg. Height	Size	
						Red	Maple	Low	>20 feet	>20 feet	
						Catta	ail spp.	Full	Not Applicable	Not Applicable	
						Tag	Alder	Medium	5 - 10 feet	5 - 10 feet	
						Pape	er Birch	Low	>20 feet	>20 feet	
						Red Osie	er Dogwood	Medium	5 - 10 feet	5 - 10 feet	
87	310 - Herbace	eous Open	land	None		1.4					2020 Comment: Old oil & gas site. Would make a good Wildlife Opening. Old access road through stand 59. the stand has one site a north end and one at south end permits 1574 and 1505
88	4131 - As	spen, Oak		Poletimber M		m 54.4	26	51-80	N/A		2027 YOE Inventory: Canopy closure is increasing in this stand as aspen canopies develop. Variable diameters as some aspen and oal
	Canopy Species		Size Class		\ge		opy Species	Density	Avg. Height	Size	are open grown single stems while others growing in dense pockets of
1	Northern Pin Oak	15		8			n Pin Oak	Low	5 - 10 feet	5 - 10 feet	saplings.2017 YOE Inventory: Harvested under contract # 73-018-
	Quaking Aspen	10	Sapling		26	Serviceber	ry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	99-01 Porter Oil Field. The stand is a mixture of good regeneration and areas of open land. Old comments indicate dead aspen
	Bigtooth Aspen	50	Sapling		26						regeneration in the stand that appears to be linked with deer browse.
Blad	ck/Red (Hybrid) Oak	15		8							When the stand was harvested, the oak <= 4" was left. A 4 acre
	Red Maple	10	Sapling	5	26						inclusion of sparse aspen is located between stands 91 and 75. The main soil type is Pipestone. Trenching and planting need to be done in fall to avoid disturbance of an eagle's nest in the area.
89	6113 - Low	land Mapl	e	Sawtimber	Well	67.0	85	81-110	N/A	Α	2022 Sale Closure: Harvested during the fall of 2019 under contract
	Canopy Species	% Cover	Size Class	DBH A	\qe	Sub-Can	opy Species	Density	Avg. Height	Size	Magrudder Mix 73-013-17. Marked thinning.
	Blackgum	3			60		(Spp.)	Low	Variable	Variable	2017 YOE Inventory: Ash salvage plus cut all aspen prescribed last
	Paper Birch	2	Seedling		60		Maple	Medium	>20 feet	>20 feet	YOE but did not sell. Ash are beginning to tip over resulting in a 15%
	Red Maple	60			85		ckgum	Low	Variable	Variable	reduction in BA. The stand is a mixture of sawlog pockets and pole
	Cottonwood	5		12	85	Michig	gan Holly	Low	5 - 10 feet	5 - 10 feet	pockets. Two ages recorded in the red maple and swamp white oak, 75 & 50, with the majority being 75. Scattered older stems present.
S	wamp White Oak	30			85		White Oak	Low	10 - 20 feet	10 - 20 feet	The stand is a mixture of upland and lowland with the majority being
	•				L	<u>'</u>			<u> </u>		lowland. The terrain is hummocky and has areas of standing water in

the spring. The soil under the stand is Kingsville.

Compartment: 116

Year of Entry: 2027 Stand **Level 4 Cover Type** Size Density Acres Stand Age BA Range **Managed Site General Comments** 6113 - Lowland Maple Sawtimber Medium 7.9 105 51-80 N/A 2027 YOE Inventory: Former heavy ash pockets are now marsh grass. 90 dominated with scattered maple and swamp white oak. These areas % Cover Size Class **DBH Age** Size **Canopy Species Sub-Canopy Species** Density Ava. Heiaht will fill in over time. Former understory maple stems are succeeding Red Maple 90 12 105 Michigan Holly Low 5 - 10 feet 5 - 10 feet into canopy gaps through the rest of the stand. 2017 YOE Inventory: This stand is in a depression and is wet and hummocky. 5 11 >20 feet Swamp White Oak Green Ash Low >20 feet Within the stand's boundaries, there are inclusion of both L and N-Quaking Aspen 5 12 Red Maple Medium >20 feet >20 feet types. There is a significant dead ash component within this stand Swamp White Oak Low Variable Variable which reduces the BA by half as well as canopy closure. The regeneration in the stand is a mixture of green ash, red maple and swamp white oak but dominated by red maple. The red maple regeneration is free to grow and should help push the stand to an uneven aged structure. The main soil type is Belleville. 6113 - Lowland Maple Poletimber Well 13 4 60 51-80 N/A 2017 YOE Inventory: Areas that were not cut along with stand 88 91 because they are lower and wetter. The ground in the stand is **DBH Age Canopy Species** % Cover Size Class **Sub-Canopy Species** Density Ava. Heiaht Size hummocky and has inclusion of L-Types. The aspen in it is scattered Blackgum 10 9 Red Osier Dogwood Low 5 - 10 feet 5 - 10 feet and declining quickly. Therefore let it convert fully to swamp hardwoods. The main soil type is Pipestone. 15 12 Quaking Aspen 95 Red Maple Medium 10 - 20 feet 10 - 20 feet Paper Birch 5 Seedling 8 Michigan Holly Low 5 - 10 feet 5 - 10 feet 5 9 Red Oak 60 65 9 Red Maple 60 4 4131 - Aspen, Oak Sapling Poor 10.0 N/A 2027 YOE Inventory: Regeneration is a mix of aspen, oak, and maple 92 **Immature** with moderate stocking. Also a moderate stocking of the same **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Avg. Height Size species mix under 3ft. Stand is expected to fill in well over Bigtooth Aspen 35 4 Bigtooth Aspen Low < 5 feet < 5 feet Loa time.2022 Sale Closure: Harvested during the summer/fall of 2021 under contract Magrudder Mix. Clear-cut 2 inches and up.2017 Red Maple 20 1 4 Black/Red (Hybrid) Oak < 5 feet < 5 feet Log Medium YOE Inventory: Harvested under contract # 73-018-90-01 Bradford 35 1 4 < 5 feet < 5 feet Northern Pin Oak Log Red Maple Medium Road Sale. Cut all species 2" and up. A forested drain runs north to 10 1 4 Quaking Aspen Loa south through east portion. A low area boarders the west side. Overall, the stand is upland. The main soil type is Pipestone. 6113 - Lowland Maple Sawtimber Well 16.6 75 81-110 N/A 2027 YOE Inventory: Natural succession still occurring. Decline of 93 aspen is providing a source of large woody debris and slowly releasing **DBH Age Sub-Canopy Species Canopy Species** % Cover Size Class Density Avg. Height Size understory. 2017 YOE Inventory: This stand is an E-Type with 9 75 Red Maple Red Maple 72 High >20 feet >20 feet subtle elevation changes throughout. An intermittent stream flows through the north half of the stand and standing water is present in Northern Pin Oak 15 10 Northern Pin Oak Low >20 feet >20 feet other parts. There is a dead ash component along the intermittent 8 Medium 5 - 10 feet 5 - 10 feet Quaking Aspen 14 75 Alternate-leaved Dogwood stream. The understory is primarily maple with oak present on slightly Black/Red (Hybrid) Oak 3 14 Tag Alder Low 5 - 10 feet 5 - 10 feet higher elevations. This understory is approximately 45 years old and is succeeding into the canopy through holes created by the declining 2 White Oak 16 aspen. The main soil type is Pipestone. 4199 - Other Mixed Upland Deciduous Poletimber Well 57 77 51-80 N/A 2027 YOE Inventory: Adjusted stand boundary, removing western 94 ridge. Eastern ridge has an average diameter of 9". Reduced to poles % Cover Size Class Size **Canopy Species DBH Age Sub-Canopy Species** Density Avg. Height class accordingly 2018 YOE Inventory: The stand is located mostly 3 15 >20 feet >20 feet Swamp White Oak Red Maple Medium on two slight ridges between tapering into low ground. A forested drain separates the north from the south. The terrain is slightly Northern Pin Oak 40 9 77 Swamp White Oak Medium 10 - 20 feet 10 - 20 feet

7

50

11

9

77

77

Northern Pin Oak

Low

10 - 20 feet

10 - 20 feet

Quaking Aspen

Red Maple

hummocky and many of the trees have fluted butts in the low edges.

The ground cover goes from bracken fern on the upland to sensitive

fern and iris in the depressions. There is a lot of down woody debris in the stand from the declining aspen. The main soil is Wixom.

Compartment: 116

Stand Size Density **General Comments** Level 4 Cover Type Acres Stand Age BA Range Managed Site 6113 - Lowland Maple Sawtimber Well 36.7 65 81-110 N/A 2027 YOE Inventory: New stand. Split out lowland from upland. 95 Majority of this stand is very wet. Canopy gaps have formed after ash Size **Canopy Species** % Cover Size Class **DBH Age Sub-Canopy Species** Density Ava. Height die off, allowing red maple poles to succeed.2017 YOE Inventory: 14 65 Red Oak Variable Variable Quaking Aspen Low Stand is a mixture of upland ridges and lowland flats (predominantly lowland). The aspen looks to be declining. There is a survey corner 70 12 65 5 - 10 feet Red Maple Michigan Holly Low 5 - 10 feet present in the stand and it is located at N 43° 31.898' W84° 28.139' Swamp White Oak 15 14 107 Alternate-leaved Dogwood Low 5 - 10 feet 5 - 10 feet Cap # 17741. A forested drain flows from stand 96 into Turkey Drain 5 12 Red Oak >20 feet Red Maple Medium >20 feet and bisects this stand. The ground cover goes from bracken fern on the upland to sensitive fern and iris in the lowlands. The wettest 5 65 Paper Birch 10 Green Ash Medium Variable Variable portions of the stand are located to the west along the PVT. line. The main soil is Wixom. 96 629 - Mixed non-forested Wetland None 17 Nο This stand is a low drainage which flows into Turkey Creek. The main soil is Wixom. **Sub-Canopy Species** Density Ava. Height Size Full Not Applicable Not Applicable Cattail spp. 6222 - Shrub-Carr 97 None 5.9 No 2018 YOE Inventory: The stand is an L/N with a fair amount of swamp hardwoods around the edges and through the NE corner. Overall this Size **Sub-Canopy Species** Density Avg. Height stand is close to 25% canopy closure all though it is converting to Tag Alder Medium 5 - 10 feet 5 - 10 feet lowland brush and cattail. The soil under the stand is Kinross. Michigan Holly High 5 - 10 feet 5 - 10 feet Cattail spp. Medium Not Applicable Not Applicable Willow spp. Low 5 - 10 feet 5 - 10 feet >20 feet Red Maple High >20 feet Swamp White Oak >20 feet >20 feet Medium 6230 - Cattail Nο 98 None 18.3 This is a cattail marsh. **Sub-Canopy Species** Density Avg. Height Size Full Not Applicable Not Applicable Cattail spp. 6113 - Lowland Maple Sawtimber Medium 15.5 80 51-80 N/A 2027 YOE Inventory: Leave stand as a buffer between marsh and 99 upland.2018 YOE Inventory: The stand is a mixture of upland and % Cover Size Class **DBH Age Sub-Canopy Species** Ava. Height Size Canopy Species Density lowland with the majority being lowland. The terrain is hummocky and Black/Red (Hybrid) Oak 5 12 Red Maple Medium >20 feet >20 feet has areas of standing water in the spring. Dead ash component heaviest in the north finger with this portion converting to lowland 80 5 - 10 feet Quaking Aspen 15 11 Tag Alder Medium 5 - 10 feet brush. It is also the wettest in this portion. The soil under the stand is Red Maple 65 11 80 Swamp White Oak Low 5 - 10 feet 5 - 10 feet Kingsville. Swamp White Oak 10 12 Michigan Holly Medium 5 - 10 feet 5 - 10 feet Paper Birch 5 9 Willow spp. Medium 10 - 20 feet 10 - 20 feet Low 5 - 10 feet 5 - 10 feet Black/Red (Hybrid) Oak 6222 - Shrub-Carr 100 None 1.4 No Low depression which was cut with stand 83 and swamped out. This is indicated by the scattered 45 year old aspen and maple. The main **Sub-Canopy Species** Density Avg. Height Size soil type is Pipestone. Quaking Aspen Medium >20 feet >20 feet Red Maple Low >20 feet >20 feet Michigan Holly Hiah 5 - 10 feet 5 - 10 feet Tag Alder Low 5 - 10 feet 5 - 10 feet

Compartment: 116

Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments				
101 ⁶	3119 - Mixed Lowla	nd Deciduo	ous Forest	Sawtimb	er Well	29.0	65	81-110	N/A	4	2027 YOE Inventory: Aspen is sparsely scattered throughout the				
С	anopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand. Stand density varies from non-stocked to 200+ BA. Overall, canopy closure is above 75%. Marsh grass ground cover through				
Swa	amp White Oak	10		12		Re	d Maple	High	>20 feet	>20 feet	majority of stand.2022 Sale Closure: New stand created after				
F	Paper Birch	10		8	65	Gre	een Ash	Medium	>20 feet	>20 feet	portions of the original stand were harvested. Stand is more of an E-				
Big	gtooth Aspen	5		14	95	Eln	n (Spp.)	Low	10 - 20 feet	10 - 20 feet	type as most of the aspen was centrally located and harvested.2017 YOE Inventory: Ash salvage plus cut all aspen				
	Red Maple	50		10	65						prescribed last YOE but did not sell. Two ages dominate the canopy				
Qı	uaking Aspen	20		12	95						85 & 55. Third age class present in the understory & co-dominant				
Nor	rthern Pin Oak	5		10	65						position but not a significant portion of the canopy. Stand is fairly open underneath with minimal brush or seedlings. Swamp white oak				
102	3301 - Low Densi	ty Deciduou	us Trees	Nor	ne	3.5			No)	is predominantly 55 years old with younger & older stems present. The stand is a mixture of upland and lowland with several higher ridges running north and south. Inclusions of L-Types and N-Types present. The main soil types are Kingsville and Pipestone. 2017 YOE Inventory: Harvested under contract # 73-030-85-01 Lewi				
					Г	Sub-Car	nopy Species	Density	Avg. Height	Size	Road Repeat. Cut all trees which met minimum piece utilization. Thi				
										ing Aspen	Low	>20 feet	>20 feet	stand was most likely utilized as a landing and is mainly an opening bracken fern over grass with scattered aspen and oak clumps.	
							oth Aspen	High	>20 feet	>20 feet	station form over grade man education appear and education per				
							ite Oak	Medium	10 - 20 feet	10 - 20 feet					
103	6223 - Inundate	ed Shrub Sv	wamp	Nor	ie	2.9		1	No)	2018 YOE Inventory: This is a large cattail marsh with perimeters of lowland shrubs. Small treed islands and fingers exist along the				
						Sub-Ca	nopy Species	Density	Avg. Height	Size	perimeter of the stand along with scattered trees throughout which				
						Та	g Alder	Medium	5 - 10 feet	5 - 10 feet	range in size. There are multiple patches of phragmites which also				
							gan Holly	Medium	5 - 10 feet	5 - 10 feet	range in size.				
							nites (spp.)	Medium	Not Applicable						
						Cat	tail spp.	High	Not Applicable	Not Applicable					
104	6220 - A	lder/Willow		Nor	ie	3.4			No		2018 YOE Inventory: This stand is sparse with areas that are heavy willow and tag alder. There are areas in the stand that are mainly cattails and marsh grass. There is also swamp hardwoods scattered in the stand but much of this is concentrated along the edges. The soil under that stand is Kingsville.				
105	623 - Emer	gent Wetlar	nd	Nor	ie	2.4			No)	Dominated by lowland grasses with a perimeter of lowland brush and				
						Sub-Car	nopy Species	Density	Avg. Height	Size	hardwood.				
						Re	d Maple	Medium	>20 feet	>20 feet					
						Wil	ow spp.	Low	5 - 10 feet	5 - 10 feet					
						Та	g Alder	Medium	5 - 10 feet	5 - 10 feet					
106	4139 - Aspen,	Mixed Decid	duous	Poletimb	er Well	2.0	60 U	nspecified	N/A	Ą	Remote call. No legal access to this parcel. Appears to be upland.				

Willow spp.

Gladwin Mgt. Unit

Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
107	4137 - A	spen, Birch	1	Poletimb	er Wel	7.9	35	81-110	N/A	Α	2017 YOE Inventory: Harvested under contract #73-019-90-01
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	MacGruder Road Sale. Cut all species 2" and up. The stand is an Athat is a mixture of aspen, birch, maple and oak. The area is also a
Е	Bigtooth Aspen	45	Sapling	6	35	Red	l Maple	Low	5 - 10 feet	5 - 10 feet	mix of upland and lowland with the majority being upland. There are
Sv	vamp White Oak	5	Log	3		Michi	gan Holly	Medium	5 - 10 feet	5 - 10 feet	also inclusion of both L and G-Types. The main soil type is Pipeston
	Red Maple	25	Sapling	5	35	Swamp	White Oak	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	25	Pole	4	35						-
108	4193 - B	irch, Asper	1	Poletimb	er Wel	l 12.5	35	51-80	N/A	٨	2018 YOE Inventory: Harvested under contract # 73-019-90-01
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	MacGruder Road Sale. Cut all species 2" and up. The stand is a mixture of upland and lowland with the majority being upland. Overa
(Quaking Aspen	15	Sapling	7	35	Тад	g Alder	Low	5 - 10 feet	5 - 10 feet	the stand is an A3 but has pockets of wet E2 and areas that are clos
E	Bigtooth Aspen	20	Sapling	7	35	Michi	gan Holly	Low	5 - 10 feet	5 - 10 feet	to G-Types. The species are a mixture of aspen, birch and maple.
	Red Maple	30	Sapling	5	35	Wille	ow spp.	Low	5 - 10 feet	5 - 10 feet	The soils are a mixture of Pipestone and Covert.
	Paper Birch	35	Pole	4	35	Red	l Maple	Low	5 - 10 feet	5 - 10 feet	
109	4139 - Aspen,	Mixed Dec	iduous	Poletimb	er Wel	9.7	35	81-110	N/A	λ .	2017 YOE Inventory: Harvested under contract # 73-019-90-01
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	MacGruder Road Sale. Cut all species 2" and up except left all oak and maple. The stand is an A3 of mainly bigtooth aspen mixed with
Е	Bigtooth Aspen	25	Sapling	6	35	Red	l Maple	Medium	>20 feet	>20 feet	red maple. In the stand there is a component of mussel wood and
Sv	vamp White Oak	5		12	82	Musclewo	od/Hornbeam	Low	10 - 20 feet	10 - 20 feet	hop horn that indicate some moister conditions. The terrain is
N	orthern Pin Oak	5		9		Northe	rn Pin Oak	Low	10 - 20 feet	10 - 20 feet	hummocky but it is predominantly upland. The main soil type is Pipestone.
(Quaking Aspen	20	Sapling	6	35					1	Tipestorie.
	Red Maple	45		8	35						
110	4130	- Aspen		Poletimb	er Well	49.6	34	81-110	N/A	۸	2017 YOE Inventory: Harvested under contract # 73-049-90-01 Lost
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	Hipchain Sale. Cut all species 2" and up. Aspen was considered over mature at time of harvest. The stand is a mixture of upland and
N	orthern Pin Oak	10		7	34	Тад	g Alder	Low	5 - 10 feet	5 - 10 feet	lowland. Overall, the stand is a light A3 mixed with red maple and
	Red Maple	25	Sapling	6	34	Northe	rn Pin Oak	Low	5 - 10 feet	5 - 10 feet	oak. The low areas of the stand are split between red maple and
E	Bigtooth Aspen	40	Seedling	6	34	Red	l Maple	Low	10 - 20 feet	10 - 20 feet	quaking aspen while big tooth dominates the upland ridges.
(Quaking Aspen	25	Sapling	6	34					1	_
11	4139 - Aspen,	Mixed Dec	iduous	Poletimb	er Well	13.8	35	81-110	N/A	Λ	2027 YOE Inventory: Stand has transitioned to poles. Aspen is
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	distributed in pockets throughout the stand. Lowest pockets are lead dense with aspen and trees in general. Regeneration concerns will be
	Bigtooth Aspen	30	Seedling		35	Red	l Maple	Medium	5 - 10 feet	5 - 10 feet	present for this stand if clear-cut.2018 YOE Inventory: Harvested
	Red Maple	40	Sapling	6	35	Pap	er Birch	Low	>20 feet	>20 feet	under contract # 73-019-90-01 MacGruder Road Sale. Cut all specie
N	orthern Pin Oak	10		7	35	Northe	rn Pin Oak	Low	< 5 feet	< 5 feet	2" and up. This stand is an A3 overall. However, there are numerou grassy openings and L-Types in the stand. The diameter of the aspe
(Quaking Aspen	20	Seedling	6	35	Swamp	White Oak	Low	10 - 20 feet	10 - 20 feet	ranges from 2 - 6" DBH. In addition, within the stand there is some
											oak and maple. The main soil types are Kingsville and Pipestone.
112	6220 - A	lder/Willow	1	No	ne	1.7			No	l	2017 YOE Inventory: This stand is an L-Type that has swamp
						Sub-Can	opy Species	Density	Avg. Height	Size	hardwood around the edges, especially at the east end.
						Tag	g Alder	High	5 - 10 feet	5 - 10 feet	
											T

5 - 10 feet

Medium

5 - 10 feet

Compartment: 116

Stand	Level 4 Co	over Type		Size Density	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
113	6114 - Lo	wland Oak		Sawtimber Well	8.8	105	81-110	N/A	A	2017 YOE Inventory: This stand is low and wet. The ground cover is
(Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	heavy to marsh grass and sensitive fern. The regeneration in the stand is heavy to ash. The overstory in the stand is swamp white oak
	Red Maple	30		10	Re	d Maple	Medium	>20 feet	>20 feet	and red maple. Understory red maple will eventually succeed through
Sw	amp White Oak	65		14 105	Swamp	o White Oak	Medium	>20 feet	>20 feet	the canopy. Dead ash component. The main soil type is Kingsville.
Q	uaking Aspen	5		10	Gr	een Ash	Low	10 - 20 feet	10 - 20 feet	
114	6223 - Inundate	ed Shrub S	wamp	None	3.8			No	0	The stand is in a depression and has the edges of lowland brush
					Sub-Ca	nopy Species	Density	Avg. Height	Size	going to marsh grass.
					Red Os	ier Dogwood	Medium	5 - 10 feet	5 - 10 feet	
					Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	
					Pap	per Birch	Low	5 - 10 feet	5 - 10 feet	
				E	Blueberry/B	ilberry/Cranber	ry Medium	5 - 10 feet	5 - 10 feet	
					Northe	ern Pin Oak	Low	5 - 10 feet	5 - 10 feet	
					Quak	king Aspen	Low	5 - 10 feet	5 - 10 feet	
115	622 - Low	land Shrul)	None	2.7			No	0	2017 YOE Inventory: The stand is in a depression and is mainly
					Sub-Ca	nopy Species	Density	Avg. Height	Size	lowland brush with some scattered swamp hardwoods. However, the swamp hardwoods are not sufficient to qualify as an E1.
					Northe	ern Pin Oak	Low	10 - 20 feet	10 - 20 feet	The state of the s
					Par	oer Birch	Low	10 - 20 feet	10 - 20 feet	
					Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	
					Red Os	ier Dogwood	Medium	5 - 10 feet	5 - 10 feet	
					Mich	igan Holly	High	5 - 10 feet	5 - 10 feet	
116	6222 - S	hrub-Carr		None	1.4			No	0	Cattails with pockets of lowland brush and a lowland hardwood
					Sub-Ca	nopy Species	Density	Avg. Height	Size	perimeter. The main soil types are Kingsville and Pipestone.
					Ca	ttail spp.	Medium	Not Applicable	Not Applicable	
					Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	
					Red Os	ier Dogwood	Low	5 - 10 feet	5 - 10 feet	
					Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	
					Gr	een Ash	Low	10 - 20 feet	10 - 20 feet	
					Pat	per Birch	Low	10 - 20 feet	10 - 20 feet	

10.8

DBH Age

36

43

43

43

6

8

4

5

36

Sub-Canopy Species

Red Maple

Michigan Holly

Swamp White Oak

Tag Alder

Willow spp.

81-110

Density

Medium

Medium

Low

Medium

High

N/A

Avg. Height

10 - 20 feet

5 - 10 feet

10 - 20 feet

5 - 10 feet

10 - 20 feet

Size

10 - 20 feet

5 - 10 feet

10 - 20 feet

5 - 10 feet

10 - 20 feet

										rear or Entry. 2027
Stand	Level 4 Co	over Type		Size De	nsity	Acres Stand Age B.	A Range	Managed S	ite	General Comments
117	6112 - Lov	vland Asper	n	Sapling	y Well	35.2 14 li	mmature	N/A	Λ.	2027 YOE Inventory: Aspen has filled in considerably over the past 10
Can	opy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	years. 2011 age class is now dominant although stand is still two- aged. Trace of beech and white pine.2017 YOE Inventory: The
Sug	gar Maple	2	Seedling	8	55	White Oak	Low	5 - 10 feet	5 - 10 feet	stand is a fairly even mixture of upland and lowland and could be
Bigto	ooth Aspen	15	Pole	3	14	Michigan Holly	Medium	5 - 10 feet	5 - 10 feet	classified as either. The terrain is hummocky. Because of this and
W	hite Oak	3		10		Swamp White Oak	Low	< 5 feet	< 5 feet	the species mix, the stand was classified as an E-Type. The main soil type is Pipestone. The stand was harvested in 2011 with the
R	Red Oak	10		8	55	Red Maple	Low	5 - 10 feet	5 - 10 feet	Redstione Harvest 73-001-11-01. The harvest was a 4" spec final
Qual	king Aspen	35	Pole	3	14	Red Oak	Low	< 5 feet	< 5 feet	harvest marking 1 to 2 trees per acres for retention. Stand was
Pa	per Birch	10	Pole	3	14					classified as two-aged due to a high density of maple 3 - 6 inches which were left during the harvest. Most appear to have broken tops,
Re	ed Maple	18		4	14					stunted growth, or poor form which should allow the 4 year old age
BI	lackgum	2	Pole	4						class to succeed and may result in this stand reverting back to even
Swam	p White Oak	5		9						aged. Aspen is patchy but should maintain as it is above browse height.
118	6230	- Cattail		No	ne	5.5		No		2018 YOE Inventory: This cattail marsh has islands and edges of
						Sub-Canopy Species	Density	Avg. Height	Size	swamp hardwoods.
						Cattail spp.	Full	Not Applicable	Not Applicable	
						Paper Birch	Low	10 - 20 feet	10 - 20 feet	
						Paper Birch Swamp White Oak	Low Medium	'''		
						<u>'</u>		10 - 20 feet	10 - 20 feet	
						Swamp White Oak	Medium	10 - 20 feet 10 - 20 feet	10 - 20 feet 10 - 20 feet	
119 419	99 - Other Mixe	d Upland De	eciduous S	Sapling I		Swamp White Oak Red Maple Northern Pin Oak	Medium Medium	10 - 20 feet 10 - 20 feet 10 - 20 feet	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet	2027 YOE Inventory: Split northern and eastern areas of the former
	99 - Other Mixe		eciduous S		Medium	Swamp White Oak Red Maple Northern Pin Oak	Medium Medium Medium	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet	stand out due to a lack of aspen. New stand is moderate density
Can						Swamp White Oak Red Maple Northern Pin Oak 13.6 23 II	Medium Medium Medium mmature	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet N/A	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet	stand out due to a lack of aspen. New stand is moderate density maple and oak with scattered individual aspen stems. Birch and oak are slowly filling in the understory.2017 YOE Inventory: Harvested
Can Bigto	opy Species	% Cover	Size Class	DBH	Age	Swamp White Oak Red Maple Northern Pin Oak 13.6 23 In Sub-Canopy Species	Medium Medium Medium Medium Medium Medium Medium	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet N/A Avg. Height	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet Size	stand out due to a lack of aspen. New stand is moderate density maple and oak with scattered individual aspen stems. Birch and oak are slowly filling in the understory. 2017 YOE Inventory: Harvested under contract # 73-026-99-01 Little Salt Aspen. Cut all species 2"
Can Bigto	ooth Aspen	% Cover 15	Size Class Sapling	DB H 5	Age 23	Swamp White Oak Red Maple Northern Pin Oak 13.6 23 II Sub-Canopy Species White Oak	Medium Medium Medium Medium mmature Density Low	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet Size 5 - 10 feet	stand out due to a lack of aspen. New stand is moderate density maple and oak with scattered individual aspen stems. Birch and oak are slowly filling in the understory. 2017 YOE Inventory: Harvested under contract # 73-026-99-01 Little Salt Aspen. Cut all species 2" and up except left all white pine, white oak, & beech. The stand was
Can Bigto Re Qual	nopy Species both Aspen ed Maple	% Cover 15 55	Size Class Sapling Pole	DBH 5	23 23	Swamp White Oak Red Maple Northern Pin Oak 13.6 23 II Sub-Canopy Species White Oak Paper Birch	Medium Medium Medium Medium mmature Density Low Low	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	10 - 20 feet 5 - 10 feet 5 - 10 feet	stand out due to a lack of aspen. New stand is moderate density maple and oak with scattered individual aspen stems. Birch and oak are slowly filling in the understory.2017 YOE Inventory: Harvested under contract # 73-026-99-01 Little Salt Aspen. Cut all species 2"
Can Bigto Re Quak North	poopy Species both Aspen ed Maple king Aspen	% Cover 15 55 5	Size Class Sapling Pole Sapling	DBH 5 4 5	23 23 23	Swamp White Oak Red Maple Northern Pin Oak 13.6 23 II Sub-Canopy Species White Oak Paper Birch	Medium Medium Medium Medium mmature Density Low Low	10 - 20 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	10 - 20 feet 5 - 10 feet 5 - 10 feet	stand out due to a lack of aspen. New stand is moderate density maple and oak with scattered individual aspen stems. Birch and oak are slowly filling in the understory.2017 YOE Inventory: Harvested under contract # 73-026-99-01 Little Salt Aspen. Cut all species 2" and up except left all white pine, white oak, & beech. The stand was clearcut in 2002, portions have not come back. Old comments

2027 YOE Inventory: Aspen is located in small clumps throughout the stand. Regeneration will be an issue if clearcut due to browse and hydrology.2017 YOE Inventory: Stand cut under contract # 73-011-82-01 Lewis Road Block. Cut all aspen, red maple, ash, paper birch, white oak, elm, & black cherry which met minimum piece utilization. Aspen & red maple made up a majority of the volume cut. Residual trees were left during harvest. Contracts 73-001-84-01 & 73-005-84-01 were set up to cut leftover residual trees. Stand is now a mixture of lowland brush pockets and lowland deciduous canopy. The main soil type under the stand is Kingsville.

Compartment: 116

Year of Entry: 2027

Canopy Species

Red Maple

Quaking Aspen

Willow spp.

Swamp White Oak

120 6119 - Mixed Lowland Deciduous Forest Poletimber Well

45

35

5

15

% Cover Size Class

Sapling

Seedling

Pole

Sapling

121 S113 - Lowland Maple Poletimber Poor 8.4 5.2 1.50 NIX Sub-Canopy Species Northern Principal Red Maple Size Nix Size Nix Northern Principal Red Maple Size Nix	Canopy Species % Cover Size Class DBH Age Northern Pin Oak 10 Sapling 7 Phragmites (spp.) Medium Not Applicable	mation opening. Appears to be a lot of well plugged no date ry wet stand with ground cover including ush, iris, sensitive fern, and royal fern. Most of tlands. Canopy is declining quickly due to a lid declining maple. Some areas are hardwood while others are converting to nonof the ash appears to have been cut for
Northern Prinox 10 Sapling 5 Sub-Canopy Species Modium Northern Prinox 10 Sapling 5 Sapling 5 Modium Sapling 5 Sapling 5 Modium Sapling 5 Sapl	Northern Pin Oak 10 Sapling 7 Sapling 7 Sapling 7 Sapling 7 Sapling 7 Sapling 5 Michigan Holly Medium 5 - 10 feet 5 - 10 feet Sapplicable Not Applicable	ry wet stand with ground cover including ush, iris, sensitive fern, and royal fern. Most of allands. Canopy is declining quickly due to a and declining maple. Some areas are hardwood while others are converting to nonof the ash appears to have been cut for
Paper Birch 10 Sapling 5 Sharing White Oak 15 7 7 52 Tag Aldier Medium 5 - 10 feet 5 - 1	Paper Birch 10 Sapling 5 Michigan Holly Medium 5 - 10 feet 5 - 10 feet Swamp White Oak 15 7 52 Tag Alder Medium 5 - 10 feet 5 - 10 feet Swamp White Oak 15 7 52 Tag Alder Medium 5 - 10 feet 5 - 10 feet Swamp White Oak 15 7 52 Tag Alder Medium 5 - 10 feet 5 - 10 feet Swamp White Oak 10 Sub-Canopy Species Density Avg. Height Size Swamp White Oak 10 Swamp W	ry wet stand with ground cover including ush, iris, sensitive fern, and royal fern. Most of allands. Canopy is declining quickly due to a and declining maple. Some areas are hardwood while others are converting to nonof the ash appears to have been cut for
Swamp White Oak 15	Swamp White Oak Red Maple 65 7 52 Tag Alder Medium 5 - 10 feet 5 - 10 feet 122 310 - Herbaceous Openland None 1.1 Larger oil and gas recla knapweed. permit 4499 123 6113 - Lowland Maple Sawtimber Poor 15.3 100 1-50 N/A Canopy Species 6 Cover Size Class DBH Age Red Maple 90 10 10 10 10 12 100 Michigan Holly High 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet 6 Swamp White Oak 10 12 100 Michigan Holly High 5 - 10 feet 5 - 10 feet 10 Swamp White Oak 10 12 100 Michigan Holly High 5 - 10 feet 5 - 10 feet 10 Swamp White Oak 10 12 100 Michigan Holly High 5 - 10 feet 5 - 10 feet 10 Swamp White Oak 10 10 10 N/A 110 N	ry wet stand with ground cover including ush, iris, sensitive fern, and royal fern. Most of allands. Canopy is declining quickly due to a and declining maple. Some areas are hardwood while others are converting to nonof the ash appears to have been cut for
122 310 - Herbaceous Openland None 1.1 Sawtimber Poor 15.3 100 1-50 N/A Sawtimber Poor 15	Tag Alder Medium 5 - 10 feet 5 - 10 feet 5 - 10 feet	ry wet stand with ground cover including ush, iris, sensitive fern, and royal fern. Most of allands. Canopy is declining quickly due to a and declining maple. Some areas are hardwood while others are converting to nonof the ash appears to have been cut for
122 310 - Herbaceous Openland None 1.1 Larger oil and gas reclamation opening. Appears to be a lot of knapweed, permit 4499 well plugged no date	122 310 - Herbaceous Openland None 1.1 Larger oil and gas recla knapweed. permit 4499 123 6113 - Lowland Maple Sawtimber Poor 15.3 100 1-50 N/A Canopy Species % Cover Size Class DBH Age Red Maple 90 10 100 100 112 100 Swamp White Oak 10 12 100 Michigan Holly High 5 - 10 feet 5 - 10 feet Swamp White Oak Low 5 - 10 feet Swamp White Oak Low 5 - 10 feet Swamp White Oak Low 5 - 10 feet Tag Alder Low 5 - 10 f	ry wet stand with ground cover including ush, iris, sensitive fern, and royal fern. Most called a call
123	123 6113 - Lowland Maple Sawtimber Poor 15.3 100 1-50 N/A Canopy Species % Cover Size Class DBH Age Red Maple 90 10 100 12 100 Swamp White Oak 10 12 100 Michigan Holly Swamp White Oak 10 12 100 Red Maple Green Ash Low 5 - 10 feet 5 - 10 feet Swamp White Oak 10 12 100 Swamp White Oak Low 5 - 10 feet Soleted Westand is forested we significant loss of ash an aucceeding with lowland present White Oak Low 5 - 10 feet Soleted Westand. Some Red Maple Medium 20 feet 20 feet Green Ash Low 20 feet Soleted Westand. Some research. The main soil Sub-Canopy Species Density Avg. Height Size Bigtooth Aspen High 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 feet 20 feet 20 feet Northern Pin Oak Low 20 feet 20 fee	ry wet stand with ground cover including ush, iris, sensitive fern, and royal fern. Most of allands. Canopy is declining quickly due to a and declining maple. Some areas are hardwood while others are converting to nonof the ash appears to have been cut for
Canopy Species Canopy Species Canopy Species Red Maple 90 10 100	Canopy Species % Cover Size Class DBH Age Red Maple 90 10 100 Swamp White Oak 10 12 100 Swamp White Oak 10 12 100 Red Maple Wedium 5 - 10 feet 6 succeeding with lowland forested wetland. Some foreste	ush, iris, sensitive fern, and royal fern. Most of clands. Canopy is declining quickly due to a nd declining maple. Some areas are hardwood while others are converting to non- of the ash appears to have been cut for
Red Maple 9 0 10 100 Buttorbush Medium 5-10 feet 5-10 feet significant lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of ash and declining maple. Some areas are surprised for seed with lose of the seed for seed with	Red Maple 90 10 100 Swamp White Oak 10 12 100 Buttonbush Medium 5 - 10 feet 5 - 10 feet significant loss of ash as succeeding with lowland forested we succeeding with lowland forested we succeeding with lowland forested	lands. Canopy is declining quickly due to a nd declining maple. Some areas are hardwood while others are converting to non- of the ash appears to have been cut for
Red Maple 90	Red Maple 90 10 100 Buttonbush Medium 5 - 10 feet 5 - 10 feet Swamp White Oak 10 12 100 Michigan Holly High 5 - 10 feet Swamp White Oak Low 5 - 10 feet Swamp White Oak Low 5 - 10 feet Green Ash Low 20 feet Search. The main soi Feet Tag Alder Low 5 - 10	nd declining maple. Some areas are hardwood while others are converting to non- of the ash appears to have been cut for
Swamp White Oak 10	Swamp White Oak 10 12 100 Michigan Holly High 5 - 10 feet 5 - 10 feet Swamp White Oak Low	hardwood while others are converting to non- of the ash appears to have been cut for
Red Maple Medium >20 feet >20 feet S - 10 feet S	Red Maple Medium >20 feet >20 feet Green Ash Low >20 feet Tag Alder Low 5 - 10 feet Tag Alder Low 5 - 10 feet Tag Alder Low Sub-Canopy Species Density Avg. Height Size Sign Size Northern Pin Oak Low >20 feet >20 feet Northern Pin Oak Low >20 feet Northern Pin Oak N/A 2027 YOE Inventory: As N/A N/A 2027 YOE Inventory: As N/A N/A	
Red Maple Green Ash Low >20 feet >	Red Maple Medium >20 feet >20 feet	type is rangevine.
Tag Alder	Tag Alder Low 5 - 10 feet 5 - 10 feet 124 3301 - Low Density Deciduous Trees None 2.8 Sub-Canopy Species Density Avg. Height Size Bigtooth Aspen High >20 feet >20 feet Northern Pin Oak Low >20 feet >20 feet Northern Pin Oak Low >20 feet >20 feet Northern Pin Oak N/A 2027 YOE Inventory: As	
Sub-Canopy Species Density Avg. Height Size Bigtooth Aspen Morthern Pin Oak Low >20 feet >20	124 3301 - Low Density Deciduous Trees None 2.8 No Stand cut with 110 but of forested stand. Sub-Canopy Species Density Avg. Height Size	
Sub-Canopy Species Bigtooth Aspen High Size Bigtooth Aspen Northern Pin Oak Low >20 feet >20 feet >20 feet Northern Pin Oak Low >20 feet >20 feet >20 feet Northern Pin Oak Low Na Na Stand. Regeneration will be an issue if clearcut due to browse and hydrology. 2017 YOE Inventory: Stand cut under contract #73-011-82-01 Lewis Road Block. Cut all aspen, red maple, ash, paper birch Na Stand. Regeneration will be an issue if clearcut due to browse and hydrology. 2017 YOE Inventory: Stand cut under contract #73-011-82-01 Lewis Road Block. Cut all aspen, red maple, ash, paper birch Na Stand. Regeneration will be an issue if clearcut due to browse and hydrology. 2017 YOE Inventory: Stand cut under contract #73-011-82-01 Lewis Road Block. Cut all aspen, red maple, ash, paper birch Na Stand. Regeneration will be an issue if clearcut due to browse and hydrology. 2017 YOE Inventory: Stand cut under contract #73-011-82-01 Lewis Road Block. Cut all aspen, red maple, ash, paper birch Na Stand. Regeneration will be an issue if clearcut due to browse and hydrology. 2017 YOE Inventory: Stand cut under contract #73-011-82-01 Lewis Road Block. Cut all aspen, red maple, ash, paper birch Na Stand. Regeneration will be an issue if clearcut due to browse and hydrology. 2017 YOE Inventory: Stand cut under contract #73-011-82-01 Lewis Road Block. Cut all aspen, red maple, ash, paper birch Na Stand. Regeneration will be an issue if clearcut due to browse and hydrology. 2017 YOE Inventory: Stand cut under contract #73-011-82-01 Lewis Road Block. Cut all aspen, red maple, ash, paper birch Na Stand. Regeneration will be an issue if clearcut due to browse and	Sub-Canopy Species Density Avg. Height Size Bigtooth Aspen High >20 feet >20 feet Northern Pin Oak Low >20 feet >20 feet Northern Pin Oak Dow >20 feet >20 feet 125 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 9.9 36 81-110 N/A 2027 YOE Inventory: As	
Sub-Canopy Species Density Size Bigtooth Aspen High Size Bigtooth Aspen High Size Bigtooth Aspen High Size Sub-Canopy Species Su	Sub-Canopy Species Density Avg. Height Size Bigtooth Aspen High >20 feet >20 feet Northern Pin Oak Low >20 feet >20 feet 125 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 9.9 36 81-110 N/A 2027 YOE Inventory: As	id not regenerate well enough to be called a
125 6119 - Mixed Lowland Deciduous Forest Poletimber Poor Size Class DBH Age Canopy Species 6 Cover Size Class DBH Age Red Maple 45 Sapling 6 36 Swamp White Oak Low 10 - 20 feet 10 - 20 f	Northern Pin Oak Low >20 feet >20 feet 125 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 9.9 36 81-110 N/A 2027 YOE Inventory: As	
2027 YOE Inventory: Aspen is located in small clumps throughout the stand. Regeneration will be an issue if clearcut due to browse and hydrology.2017 YOE Inventory: Stand cut under contract # 73-011- Red Maple	125 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 9.9 36 81-110 N/A 2027 YOE Inventory: As	
Canopy Species % Cover Size Class DBH Age Red Maple	125 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 9.9 36 81-110 N/A 2027 YOE Inventory: As	
Red Maple 45 Sapling 6 36 Michigan Holly Medium 5 - 10 feet 5 - 10 feet 5 - 10 feet Medium 5 - 10 feet 5 - 10 feet Medium 5 - 10 feet 5 - 10 feet Medium Medium 5 - 10 feet Medium M		
Red Maple 45 Sapling 6 36 Wichigan Holly Medium 5 - 10 feet 5 - 10 feet Willow spp. 5 Pole 4 43 Swamp White Oak Low 10 - 20 feet 10 - 20 feet White oak, elm, & black cherry which met minimum piece utilization. White Oak Spen 8 red maple, ash, paper birch white oak, elm, & black cherry which met minimum piece utilization. Aspen 8 red maple and eup a majority of the volume cut. Residual trees were left during harvest. Contracts 73-001-84-01 & 73-005-84 Red Maple Medium 5 - 10 feet 5 - 10 feet 10 - 20 feet 10 white oak, elm, & black cherry which met minimum piece utilization. Aspen 8 red maple and eup a majority of the volume cut. Residual trees were left during harvest. Contracts 73-001-84-01 & 73-005-84 Red Maple Medium 5 - 10 feet 5 - 10 feet 10 white oak lowland deciduous canopy. The main soil type under the stand is Kingsville. 126 6113 - Lowland Maple Sawtimber Well 35.4 78 81-110 N/A Canopy Species % Cover Size Class DBH Age Red Maple 75 12 78 Swamp White Oak Low 10 - 20 feet 10 - 20 feet understory. BA is too low to thin 2022 Sale Closure: West portion of this stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the area is lowland with the NE corner being the wettest. Down woody debris of ash, aspen, and even some red maple, ash, paper birch white oak, elm, & black cherry which met minimum piece utilization. Under the stand is a mixture of upland and lowland soil type under the stand is Kingsville. 2027 YOE Inventory: Good density of sap/pole maple and oak in the understory. BA is too low to thin 2022 Sale Closure: West portion of this stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the area is lowland with the NE corner being the wettest. Down woody debris of ash, aspen, and even some red maple, ash, paper hirch white oak, elm, & black cherry which met minimum piece utilization. The proper like wettest is a mixture of upland and lowland soil type under the stand is Kin		
Swamp White Oak 15 Sapling 5 43 Quaking Aspen 35 Seedling 8 43 Willow spp. High 10 - 20 feet 1	Red Maple 45 Sapling 6 36 Michigan Holly Medium 5 - 10 feet 5 - 10 feet 82-01 Lewis Road Block	. Cut all aspen, red maple, ash, paper birch,
Quaking Aspen 35 Seedling 8 43 Red Maple Medium 10 - 20 feet 10 - 20		
Quaking Aspen 35 Seedling 8 43 Red Maple Medium 10 - 20 feet 10 - 20 feet 10 - 20 feet of lowland brush pockets and lowland deciduous canopy. The main soil type under the stand is Kingsville. 126 6113 - Lowland Maple Sawtimber Well 35.4 78 81-110 N/A Canopy Species % Cover Size Class DBH Age Red Maple 75 12 78 Swamp White Oak 12 78 Bigtooth Aspen 5 14 85 Quaking Aspen 5 14 85 Swamp White Oak 10 15 Red Oak 5 10 78 Musclewood/Hornbeam Low 10 - 20 feet 10 -		
126 6113 - Lowland Maple Sawtimber Well 35.4 78 81-110 N/A 2027 YOE Inventory: Good density of sap/pole maple and oak in the understory. BA is too low to thin.2022 Sale Closure: West portion of this stand was split off after harvest was closed.2017 YOE Red Maple 75 12 78 Swamp White Oak Low 10 - 20 feet	Quaking Aspen 35 Seedling 8 43 Red Maple Medium 10 - 20 feet 10 - 20 feet 01 were set up to cut lef	tover residual trees. Stand is now a mixture
126 6113 - Lowland Maple Sawtimber Well 35.4 78 81-110 N/A 2027 YOE Inventory: Good density of sap/pole maple and oak in the understory. BA is too low to thin.2022 Sale Closure: West portion of this stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the stand was split off after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the understory. BA is too low to thin.2022 Sale Closure: West portion of this stand was split of after harvest was closed.2017 YOE Comments: The stand is a mixture of upland and lowland. Most of the understory. BA is too low to thin.2026 Sale Closure: West portion of this stand was split of after harvest was closed.2017 YOE Comments: The stand was split of after harvest was closed.2017 YOE Comments: The stand was split of the understory. BA is too low to thin.2026 Sale Closure: West portion of this stand		
Red Maple 75 12 78 Swamp White Oak Low 10 - 20 feet 10 -	126 6113 - Lowland Maple Sawtimber Well 35.4 78 81-110 N/A 2027 YOE Inventory: Go	ood density of sap/pole maple and oak in the
Red Maple 75 12 78 Swamp White Oak Low 10 - 20 feet 10 -		
Bigtooth Aspen 5 14 85 Michigan Holly Medium 5 - 10 feet 5 - 10 feet debris of ash, aspen, and even some red maple due to natural cause throughout stand creating canopy gaps for sub-canopy species. Swamp White Oak 10 15 Musclewood/Hornbeam Low 10 - 20 feet 10 - 20	of the stand mas spill of	
Swamp White Oak Red Oak Swamp White Oa	Bigtooth Aspen 5 14 85 Michigan Holly Medium 5 - 10 feet 3 - 10 feet area is lowland with the	NE corner being the wettest. Down woody
Swamp White Oak 10 15 Musclewood/Hornbeam Low 10 - 20 feet 10 - 20 feet Overall BA was reduced by 10 square feet because of ash mortality. Red Oak 5 10 78 Red Maple High >20 feet >20 feet Stand indicating the stand most likely was logged to some degree.		
Red Oak 5 10 78 Red Maple High >20 feet >20 feet tand indicating the stand most likely was logged to some degree.		
	Red Oak 5 10 78 Red Maple High >20 feet >20 feet The largest diameter tre	g canopy gaps for sub-canopy species.
		g canopy gaps for sub-canopy species. by 10 square feet because of ash mortality. es are located in the wettest areas of the

Gladwin Mgt. Unit

Report 7 - Stands Compartment: 116 Year of Entry: 2027

Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
127	6112 - Lov	vland Aspe	en	Poletimb	er Well	18.5	41	81-110	N/A	4	2027 YOE Inventory: New stand. Formerly part of a larger aspen
Car	nopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand. Hydrology is a mix upland and lowland. Aspen is located in veins and pockets through the central and eastern portions of the
R	ed Maple	20	Sapling	6	41	Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	stand. Western edge is more sparse with more maple, birch, and
Bigt	tooth Aspen	10	Seedling	8	41	Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	oak.2017 YOE Inventory: Harvested under contract # 73-035-82- 01 Alamando Rd. Cut all species which met minimum piece
Swam	np White Oak	10	Sapling	5	41	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	utilization. Stand includes portions of contract # 73-017-90-01
North	nern Pin Oak	10		8	41						Alamando Petite which was closed in '91, same prescription. The
	aking Aspen	35	Seedling	8	41						species are heavy to trembling aspen with some bigtooth especially along the two-track. In addition, there is a component of red maple
Pa	aper Birch	15	Sapling	5	41						and oak in the stand. Some areas are wet and dominated by lowlar brush. The soil under the stand is a mixture of Covert, Pipestone, a
128	622 - Low	/land Shrub	0	Nor	ne	2.5			No)	Kingsville. 2027 YOE Inventory: Easement was masticated this winter. Mostly
						Sub-Ca	nopy Species	Density	Avg. Height	Size	cleared willow and birch.2017 YOE Inventory: The stand is a pipeline easement maintained by MP Michigan LLC. Patches of
						Floweri	ng Dogwood	Medium	5 - 10 feet	5 - 10 feet	upland and lowland shrubs. There are also areas that are open
									1		grassy areas.
129		wland Oak		Poletimb		5.0	65	51-80	N/A		2027 YOE Inventory: Understory is medium to full with saplings, poles, and brush.2017 YOE Inventory: Hummocky terrain with
	nopy Species		Size Class		Age		nopy Species		Avg. Height	Size	ponding water in depressions during the spring. Associated oak
	aper Birch	5	Seedling	8	0.5		p White Oak	Medium	10 - 20 feet	10 - 20 feet	knolls throughout transitioning to pure upland in the west.
	ed (Hybrid) Oak	35		9	65		d (Hybrid) Oak		10 - 20 feet	10 - 20 feet	
	np White Oak	50 10		9	65 65	IVIICI	igan Holly	Medium	5 - 10 feet	5 - 10 feet	
Qua	aking Aspen	10		9	03						
130 3	301 - Low Densit	ty Deciduo	us Trees	Nor	ne	7.9			No)	2027 YOE Inventory: Portions of the stand west of the forest road
						Sub-Ca	nopy Species	Density	Avg. Height	Size	were cut during the adjacent harvest in 2020. Regeneration is minin at this time.2017 YOE Inventory: Part of North Magruder Rd. Sale
						Northe	ern Pin Oak	Low	5 - 10 feet	5 - 10 feet	73-016-81-01. Cut all aspen, red maple, ash, and paper birch which
						Bigto	oth Aspen	Low	< 5 feet	< 5 feet	met minimum piece utilization. Left all oak and protected hardwood
											understory. This stand did not regenerate well enough to meet forested stand guidelines.
131 61′	19 - Mixed Lowla	ınd Decidu	ous Forest	Sapling	Poor	23.8	30	1-50	N/A	4	2027 YOE Inventory: Newly acquired parcel. Clear-cut prior to 1998 but very recent in that imagery. Low and wet stand with isolated
Car	nopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pockets of high ground. Dense understory of holly. Trees still
Pa	aper Birch	10	Log	3		Red Os	sier Dogwood	Medium	5 - 10 feet	5 - 10 feet	recruiting into the canopy in sparse areas.
	np White Oak	20	Pole	4	30		ag Alder	Medium	5 - 10 feet	5 - 10 feet	
	ooth Aspen	10	Sapling	6	30		per Birch	Low	5 - 10 feet	5 - 10 feet	
	aking Aspen	25	Sapling	5	30		igan Holly	High	5 - 10 feet	5 - 10 feet	
	nern Pin Oak	5	Sapling	5			p White Oak	Medium	5 - 10 feet	5 - 10 feet	
R	ed Maple	30	Pole	4	30	Re	ed Maple	Medium	5 - 10 feet	5 - 10 feet	
132	110 - Low In	ntensity Urb	oan	Nor	ne	1.5					2018 YOE Inventory: Oil & gas remediation site. Graveled surface with non-forested edges and exposed sand. well site in west end plugged 9/29/1952 permit 2713.

Stand	Level 4 C		Size De	nsity	Acres	Stand Age BA	A Range	Managed	Site	General Comments				
133	6224 -	Treed Bog		Nor	ne	5.9			N	0	Blueberry bog with scattered paper birch and maple. The main soil			
						Sub-Ca	nopy Species	Density	Avg. Height	Size	type is Kinross.			
						Pa	per Birch	Medium	10 - 20 feet	10 - 20 feet				
					Mich	nigan Holly	Medium	5 - 10 feet	5 - 10 feet					
						Blueberry/E	Bilberry/Cranberr	y Full	5 - 10 feet	5 - 10 feet				
					Re	ed Maple	Low	10 - 20 feet	10 - 20 feet					
134	6230	- Cattail		Nor	ne	41.3		No			2018 YOE Inventory: This is a large cattail marsh with perimeters			
					Sub-Ca	nopy Species	Density	Avg. Height	Size	lowland shrubs. Small treed islands and fingers exist along the perimeter of the stand along with scattered trees throughout which				
					Ca	attail spp.	High		Not Applicable	range in size. There are multiple patches of phragmites which also				
					Phrag	ımites (spp.)	Medium	Not Applicable	Not Applicable	range in size.				
					Mich	nigan Holly	Low	5 - 10 feet	5 - 10 feet					
						Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet				
135	6113 - Lo	wland Map	le Sa	wtimber	Medi	um 8.3	87	51-80	N/	'A	2027 YOE Inventory: Stand canopy is still sparse. Understory trees			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	slowly filling in canopy. Understory brush has increased.2017 YOE Inventory: Stand is very wet and hummocky. The stands canopy			
	Red Maple	65		11	87	R	Red Oak	Low	>20 feet	>20 feet	closure dropped because of the dead ash component. Canopy gaps			
S	wamp White Oak	15		14		Swam	p White Oak	Medium	>20 feet	>20 feet	should fill in with non-ash sub-canopy species. Sub-canopy is above			
	Black Cherry	5	Seedling	8		Alternate-	leaved Dogwood	Medium	5 - 10 feet	5 - 10 feet	lowland brush and shouldn't be an issue. The main soil type is Kingsville			
	Quaking Aspen	15		12	87		ag Alder	Medium	5 - 10 feet	5 - 10 feet	Kingsville.			
							m (Spp.)	Low	>20 feet	>20 feet	4			
							Red Maple		>20 feet	>20 feet				
136	3301 - Low Dens	ity Deciduc	ous Trees	Nor	ne	1.3			N	0	2018 YOE Inventory: Harvested under contract # 73-049-90-01 Lost			
						Sub-Ca	nopy Species	Density	Avg. Height	Size	Hipchain Sale. Cut all species 2" and up. Aspen was considered over mature at time of harvest. This portion of the sale did not regenerate			
						Qual	king Aspen	Low	>20 feet	>20 feet	to meet stocking requirements. Pipestone and Kingsville.			
						North	ern Pin Oak	Low	10 - 20 feet	10 - 20 feet				
						Bigto	ooth Aspen	Medium	>20 feet	>20 feet				
137	4131 <i>- A</i>	Aspen, Oak	F	Poletimb	er We	ll 14.5 23 lm		nmature	N/	'A	2027 YOE Inventory: Split northern and eastern areas of the former			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand out due to a lack of aspen. New stand has scattered pockets aspen separated by variable density maple and oak. Barely an asper			
	Paper Birch	10	Log	2	23	North	ern Pin Oak	Low	5 - 10 feet	5 - 10 feet	covertype. 2017 YOE Inventory: Harvested under contract # 73-			
	Red Maple	30	Pole	4	23	Pa	per Birch	Low	5 - 10 feet	5 - 10 feet	026-99-01 Little Salt Aspen. Cut all species 2" and up except left all			
1	Northern Pin Oak	10	Sapling	5	37	W	hite Oak	Low	5 - 10 feet	5 - 10 feet	white pine, white oak, & beech. The stand was clearcut in 2002, portions have not come back. Old comments indicate the aspen			
	White Oak	10	Sapling	5	37	Re	ed Maple	Medium	5 - 10 feet	5 - 10 feet	regeneration in the stand appeared to have been hit with some			
	Bigtooth Aspen	35	Sapling	5	23						disease, many dead aspen root sucker in the stand.			
	Quaking Aspen	5	Sapling	5	23									

	Level 4 Co		a aiduaua - Dul	. 4!	. N.A C	. 50	Stand Age B	54.00			0007.1/05.
			eciduous Pol				45	51-80	N/A		2027 YOE Inventory: Former log canopy has declined enough to allogorer understory to succeed into the dominant group. Stand is now
	-		Size Class		Age		opy Species	Density	Avg. Height	Size	two-aged.2022 Sale Closure: West portion was split off after
Swamp Wh		5		10	4.5		er Birch	Low	10 - 20 feet	10 - 20 feet	harvest.2017 YOE Inventory: Stand is a mix of upland and lowland with upland being the majority. Canopy aspen are declining allowing
Red Ma	<u>'</u>	50		6	45		I Maple	Low	5 - 10 feet	5 - 10 feet	red maple in the understory to succeed. This process is creating
White (15		8	0.5	VVNI	ite Oak	Low	10 - 20 feet	10 - 20 feet	single stem red maple.
Bigtooth A	<u> </u>	20		14	85						
Northern P Paper B		5		5							
 139	6113 - Lowl	land Maple	e P	oletimb	er Poor	6.5	62	51-80	N/A	Α	2027 YOE Inventory: New Stand. Retention area for surrounding
Canopy	Snecies	% Cover	Size Class	DRH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	clear-cut. Lowland pocket of maple with scattered aspen and
Red Ma		65	Sapling	7	62		gan Holly	Medium	5 - 10 feet	5 - 10 feet	oak.2022 Sale Closure: Harvested during the summer/fall of 2021 under contract Magrudder Mix. Clear-cut 2 inches and up.2018
Quaking A	•	10	Seedling	8	42		rn Pin Oak	Low	10 - 20 feet	10 - 20 feet	YOE Inventory: This stand is a mixture of upland ridges and lowland
Paper B		3	Sapling	6	12		l Maple	Medium	10 - 20 feet	10 - 20 feet	swales. Within the stand boundaries, there are inclusions of L-Type
Swamp Wh		12	Capinig	8		1100	Пиаріо	Modiani	10 20 1001	10 20 1001	The low areas are a mixture of birch, red maple with quaking aspen and upland is heavy to aspen. When the stand was harvested, ther
	into out										was substantial rutting. The main soil type is Pipestone. Part of No
Northern P		10		8							Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, an paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed.
	Pin Oak - Mixed non-f	17	/etland	Nor	ne	1.4			No		Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor
140 629 -		forested W		Nor	ne · Medium		69	81-110	No N/A		Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, an paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from
140 ⁶²⁹ -	- Mixed non-f 6113 - Lowl	forested W		Nor wtimber	Medium	າ 5.2	69	81-110 Density	N/A		Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen
140 ⁶²⁹ -	- Mixed non-f 6113 - Lowl Species	forested W	e Sa	Nor wtimber	Medium	n 5.2 Sub-Can		Density		4	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to
140 ^{629 -} 141 Canopy :	- Mixed non-f 6113 - Lowl Species laple	forested W Vland Maple % Cover	e Sa	Nor wtimber	Medium	n 5.2 Sub-Can Alternate-lea	opy Species	Density	N/A	Size	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to maple/oak. Mostly low ground w/ non-forested swales dominated by lowland shrubs. One upland ridge in the north. South has least
140 629 - 141 Canopy S Red Ma	- Mixed non-f 6113 - Lowl r Species laple Aspen	forested W vland Maple % Cover	e Sa	Norwtimber DBH	Medium	n 5.2 Sub-Can Alternate-lea	opy Species aved Dogwood	Density Medium	N/A Avg. Height 5 - 10 feet	Size 5 - 10 feet	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to maple/oak. Mostly low ground w/ non-forested swales dominated by
140 629 - 141 Canopy S Red Ma Quaking A	- Mixed non-f 6113 - Lowl r Species laple Aspen	forested W vland Maple % Cover 65 5	e Sa	Norwtimber DBH 11 13	Medium Age	n 5.2 Sub-Can Alternate-lea Red Michiq	opy Species aved Dogwood Maple	Density Medium High	N/A Avg. Height 5 - 10 feet >20 feet	Size 5 - 10 feet >20 feet	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to maple/oak. Mostly low ground w/ non-forested swales dominated by lowland shrubs. One upland ridge in the north. South has least canopy closure. The main soil type is Pipestone.
140 629 - 141 Canopy S Red Ma Quaking A Northern P	- Mixed non-f 6113 - Lowl r Species laple Aspen	forested W vland Maple % Cover 65 5 30	e Sar Size Class	Norwtimber DBH 11 13	Medium Age 69 69	n 5.2 Sub-Can Alternate-lea Red Michiq	opy Species aved Dogwood I Maple gan Holly rn Pin Oak	Density Medium High Medium	N/A Avg. Height 5 - 10 feet >20 feet 5 - 10 feet	Size 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to maple/oak. Mostly low ground w/ non-forested swales dominated by lowland shrubs. One upland ridge in the north. South has least canopy closure. The main soil type is Pipestone.
140 629 - 141 Canopy S Red Ma Quaking A Northern P	- Mixed non-f 6113 - Lowl Species laple Aspen Pin Oak 6112 - Lowl	vland Maple % Cover 65 5 30	e Sar Size Class	Norwtimber DBH 11 13 11	Medium Age 69 69	Sub-Can Alternate-lea Red Michig Norther	opy Species aved Dogwood I Maple gan Holly rn Pin Oak	Density Medium High Medium Medium	N/A Avg. Height 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet	Size 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to maple/oak. Mostly low ground w/ non-forested swales dominated b lowland shrubs. One upland ridge in the north. South has least canopy closure. The main soil type is Pipestone. 2027 YOE Inventory: Switched to lowland based off imagery and file observations.2018 YOE Inventory: Harvested under contract # 73-
140 629 - 141 Canopy S Red Ma Quaking A Northern P	- Mixed non-f 6113 - Lowl Species laple Aspen Pin Oak 6112 - Lowl	vland Maple % Cover 65 5 30	e Sat	Norwtimber DBH 11 13 11	Medium Age 69 69 er Well	Sub-Can Alternate-lea Red Michig Norther 14.0 Sub-Can	aved Dogwood I Maple gan Holly rn Pin Oak	Density Medium High Medium Medium Medium	N/A Avg. Height 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet	Size 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to maple/oak. Mostly low ground w/ non-forested swales dominated b lowland shrubs. One upland ridge in the north. South has least canopy closure. The main soil type is Pipestone. 2027 YOE Inventory: Switched to lowland based off imagery and fie observations.2018 YOE Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain Sale. Cut all species 2" and up. Aspen wconsidered over mature at time of harvest. The stand is an upland
140 629 - 141 Canopy S Red Ma Quaking A Northern P	- Mixed non-f 6113 - Lowl 7 Species laple Aspen Pin Oak 6112 - Lowl 7 Species Aspen	forested W Vland Maple % Cover 65 5 30 Vland Asper	e Sar Size Class	Norwtimber DBH 11 13 11 coletimb	Medium Age 69 69 er Well Age 34 34	Sub-Can Alternate-lea Michig Norther 14.0 Sub-Can Red Tag	opy Species aved Dogwood Maple gan Holly rn Pin Oak 34 opy Species I Maple g Alder	Density Medium High Medium Medium 81-110 Density Medium Low	N/A Avg. Height 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height	Size 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to maple/oak. Mostly low ground w/ non-forested swales dominated b lowland shrubs. One upland ridge in the north. South has least canopy closure. The main soil type is Pipestone. 2027 YOE Inventory: Switched to lowland based off imagery and fie observations.2018 YOE Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain Sale. Cut all species 2" and up. Aspen we considered over mature at time of harvest. The stand is an upland lowland matrix with hummocky terrain. This stand was cut with the
140 629 - 141 Canopy S Red Ma Quaking A Northern P	- Mixed non-f 6113 - Lowl 7 Species laple Aspen Pin Oak 6112 - Lowl 7 Species Aspen laple	forested Waland Maple % Cover 65 5 30 land Asper % Cover 35	e Sar Size Class n P Size Class Sapling	Norwtimber DBH 11 13 11 coletimb DBH 7	Medium Age 69 69 er Well Age 34 34 34 34	Sub-Can Alternate-lea Michig Norther 14.0 Sub-Can Red Tag	aved Dogwood Maple gan Holly The Pin Oak 34 Topy Species Maple	Density Medium High Medium Medium 81-110 Density Medium Low	Avg. Height 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height Variable	Size 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet Size Variable	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, as paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to maple/oak. Mostly low ground w/ non-forested swales dominated b lowland shrubs. One upland ridge in the north. South has least canopy closure. The main soil type is Pipestone. 2027 YOE Inventory: Switched to lowland based off imagery and fie observations.2018 YOE Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain Sale. Cut all species 2" and up. Aspen we considered over mature at time of harvest. The stand is an upland lowland matrix with hummocky terrain. This stand was cut with the adjacent ridge but because of its lower elevation regenerated to bet
140 629 - 141 Canopy S Red Ma Quaking A Northern P	- Mixed non-f 6113 - Lowl 7 Species laple Aspen Pin Oak 6112 - Lowl 7 Species Aspen laple Birch	forested W vland Maple % Cover 65 5 30 vland Asper % Cover 35 40	e Satistic Class n P Size Class Sapling Sapling	wtimber DBH 11 13 11 coletimb DBH 7 7	Medium Age 69 69 er Well Age 34 34	Sub-Can Alternate-lea Red Michig Norther 14.0 Sub-Can Red Tag Alternate-lea	opy Species aved Dogwood Maple gan Holly rn Pin Oak 34 opy Species I Maple g Alder	Density Medium High Medium Medium 81-110 Density Medium Low	N/A Avg. Height 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height Variable 5 - 10 feet	Size 5 - 10 feet >20 feet 5 - 10 feet 10 - 20 feet Size Variable 5 - 10 feet	Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, ar paper birch which met minimum piece utilization. Left all oak and protected hardwood understory. Maple that was left is mostly poor formed. 2027 YOE Inventory: Wet stand that has converted from aspen/hardwood to lowland hardwood.2017 YOE Inventory: Aspen has died out of this stand for the most part. Stand has converted to maple/oak. Mostly low ground w/ non-forested swales dominated by lowland shrubs. One upland ridge in the north. South has least canopy closure. The main soil type is Pipestone. 2027 YOE Inventory: Switched to lowland based off imagery and fie observations.2018 YOE Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain Sale. Cut all species 2" and up. Aspen we considered over mature at time of harvest. The stand is an upland

Stand	Level 4 Co	over Type		Size De	nsity	Acres Stand Age B	A Range	Managed S	ite	General Comments
144	4125 - Blac	k, N. Pin O)ak	Sawtimb	er Well	5.7 72	111-140	N/A	١	2027 YOE Inventory: Aspen is falling out of the stand. Maple and oak
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	succeeding into canopy. Small stand. Allow natural process to continue for another rotation.2017 YOE Inventory: The stand is a
Sw	vamp White Oak	10		14		Red Maple	Medium	>20 feet	>20 feet	slight ridge between two low drainages making access difficult but not
	Red Maple	25		10		Northern Pin Oak	Medium	>20 feet	>20 feet	imposible. The ground cover goes from bracken fern on the upland to
C	Quaking Aspen	10		14	72	Swamp White Oak	Low	10 - 20 feet	10 - 20 feet	sensitive fern and iris in the surrounding depressions. There is a lot o down woody debris in the stand that is mainly aspen. The main soil is
No	orthern Pin Oak	55		12	72					Wixom.
145	3102	- Grass		Nor	ne	1.1				2027 YOE Inventory: Grass opening. Oil and gas created.
146	611 - Lowland I	Deciduous	Forest	Unspe	cifed	11.4 3				2027 YOE Inventory: Sparse regeneration in pockets of the stand. Stand appears to be slowly filling in but does not meet regeneration
						Sub-Canopy Species	Density	Avg. Height	Size	standards. Keep monitoring progress.Sale Closure: New stand.
						Northern Pin Oak	Low	< 5 feet	< 5 feet	Harvested during the summer of 2022 under contract Magrudder Mix.
						Quaking Aspen	Low	5 - 10 feet	5 - 10 feet	Clear-cut 2 inches and up. Stand is mostly lowland.2017 YOE
										Inventory: Stand was harvested 34 years ago in which the advanced
						Red Maple	Low	5 - 10 feet	5 - 10 feet	some aspen. Regeneration failed accept for low areas which were no
147	6220 - Al	lder/Willow	,	Nor	ne			5 - 10 feet		oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low
147	6220 - A	lder/Willow	,	Nor	ne	Red Maple	Low	No		oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert.
147	6220 - Al	lder/Willow	,	Nor	ne	Red Maple				oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert.
147	6220 - A	lder/Willow	,	Nor	ne	Red Maple 13.3 Sub-Canopy Species	Low	No Avg. Height	Size	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert.
147	6220 - A	lder/Willow	,	Nor	ne	Red Maple 13.3 Sub-Canopy Species Paper Birch	Low Density Low	No Avg. Height 10 - 20 feet	Size 10 - 20 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert.
147	6220 - Al	lder/Willow	'	Nor	ne	13.3 Sub-Canopy Species Paper Birch Red Maple	Density Low Low	No Avg. Height 10 - 20 feet 10 - 20 feet	Size 10 - 20 feet 10 - 20 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert.
147	6220 - Al	lder/Willow	,	Nor	ne	Red Maple 13.3 Sub-Canopy Species Paper Birch Red Maple Swamp White Oak	Density Low Low	No Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet	Size 10 - 20 feet 10 - 20 feet 10 - 20 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert.
147	6220 - Al	lder/Willow	,	Nor	ne	Red Maple 13.3 Sub-Canopy Species Paper Birch Red Maple Swamp White Oak Michigan Holly	Density Low Low Low Medium	No Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet	Size 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 10 - 20 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert.
147	6220 - Al	lder/Willow	,	Nor	ne	Red Maple 13.3 Sub-Canopy Species Paper Birch Red Maple Swamp White Oak Michigan Holly Alder	Density Low Low Low Medium High	No Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet	Size 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert.
147		lder/Willow spen, Oak		Poletimb	er Well	Red Maple 13.3 Sub-Canopy Species Paper Birch Red Maple Swamp White Oak Michigan Holly Alder Quaking Aspen	Density Low Low Low Medium High Low	No Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 10 - 20 feet	Size 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 10 - 20 feet 5 - 10 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert. 2027 YOE Inventory: Tag alder and willow over marsh grass.
148	4131 - A Canopy Species	spen, Oak	Size Class	Poletimb DB H	er Well	Red Maple 13.3 Sub-Canopy Species Paper Birch Red Maple Swamp White Oak Michigan Holly Alder Quaking Aspen Willow spp. 10.0 34 Sub-Canopy Species	Density Low Low Low Medium High Low Medium	No Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height	Size 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert. 2027 YOE Inventory: Tag alder and willow over marsh grass. 2018 YOE Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain Sale. Cut all species 2" and up. Aspen was considered ove mature at time of harvest. This stand was cut the same time as stand
148	4131 - A Canopy Species Quaking Aspen	spen, Oak % Cover 5	Size Class Sapling	Poletimb DBH	er Well Age 34	Red Maple 13.3 Sub-Canopy Species Paper Birch Red Maple Swamp White Oak Michigan Holly Alder Quaking Aspen Willow spp. 10.0 34 Sub-Canopy Species Serviceberry (Juneberry)	Density Low Low Low Medium High Low Medium 51-80	No Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet	Size 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert. 2027 YOE Inventory: Tag alder and willow over marsh grass. 2018 YOE Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain Sale. Cut all species 2" and up. Aspen was considered over mature at time of harvest. This stand was cut the same time as stand 55 but did not regenerate as well. There are small openings
148	4131 - A Canopy Species Quaking Aspen Red Maple	spen, Oak **Cover* 5 10	Size Class Sapling Sapling	Poletimb DBH 6 5	er Well Age 34 34	Red Maple 13.3 Sub-Canopy Species Paper Birch Red Maple Swamp White Oak Michigan Holly Alder Quaking Aspen Willow spp. 10.0 34 Sub-Canopy Species Serviceberry (Juneberry) Red Maple	Density Low Low Low Medium High Low Medium 51-80 Density Low Low	No Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Size 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert. 2027 YOE Inventory: Tag alder and willow over marsh grass. 2018 YOE Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain Sale. Cut all species 2" and up. Aspen was considered over mature at time of harvest. This stand was cut the same time as stand 55 but did not regenerate as well. There are small openings throughout and the trees have a wide spacing resulting in a larger
148	4131 - A Canopy Species Quaking Aspen	spen, Oak % Cover 5	Size Class Sapling	Poletimb DBH	er Well Age 34	Red Maple 13.3 Sub-Canopy Species Paper Birch Red Maple Swamp White Oak Michigan Holly Alder Quaking Aspen Willow spp. 10.0 34 Sub-Canopy Species Serviceberry (Juneberry)	Density Low Low Low Medium High Low Medium 51-80 Density Low	No Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet	Size 10 - 20 feet 10 - 20 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	oak regeneration was protected along with some older individuals and some aspen. Regeneration failed accept for low areas which were no rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert. 2027 YOE Inventory: Tag alder and willow over marsh grass. 2018 YOE Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain Sale. Cut all species 2" and up. Aspen was considered ove mature at time of harvest. This stand was cut the same time as stand 55 but did not regenerate as well. There are small openings

	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
149 611	9 - Mixed Lowla	and Decidud	ous Forest F	Poletimb	er Poor	18.6	34	1-50	N/A	`	2027 YOE Inventory: Former stand split into two. This portion is ver
Can	opy Species	% Cover	Size Class	DBH	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	wet. Regeneration from 1992 harvest is sparse but slowly filling in. Stand is not aspen dominated.2017 YOE Inventory: This stand
Par	per Birch	25	Sapling	5	34	Michi	gan Holly	Medium	5 - 10 feet	5 - 10 feet	was clearcut in 1992 under contract # 73-022-90-01 Patchwork Sale
Quak	king Aspen	15	Seedling	7	34	Red	d Maple	Low	5 - 10 feet	5 - 10 feet	and is much lower than other units of the same sale. Cut all specie
Swamı	p White Oak	15	Pole	4	34	Рар	er Birch	Low	5 - 10 feet	5 - 10 feet	meeting minimum piece utilization. It has regenerated as a patchy lowland aspen stand with much of the canopy cover represented b
Northe	ern Pin Oak	10	Pole	4	34	Tag	g Alder	High	10 - 20 feet	10 - 20 feet	
Re	ed Maple	25	Sapling	5	34			'			tress species grow, lowering the water table. This stand should fill
Bigto	ooth Aspen	10	Seedling	7	34						to some degree. The soil in the stand is a mixture of upland and lowland being a mixture of Pipestone, Covert, and Kingsville.
150	6112 - Lov	wland Aspe	n Po	letimbe	r Medium	n 20.8	34	51-80	N/A		2027 YOE Inventory: Sparse stand with canopy closure closer to 5
Can	opy Species	% Cover	Size Class	DBH	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	than 75%. Risk of regeneration failure if clearcut.2017 YOE Inventory: Harvested under contract # 73-049-90-01 Lost Hipchain
	king Aspen	40		6	34		ow spp.	Low	5 - 10 feet	5 - 10 feet	Sale. Cut all species 2" and up. Aspen was considered over matu
Swamı	p White Oak	10	Sapling	5		Michi	gan Holly	Medium	5 - 10 feet	5 - 10 feet	at time of harvest. The stand is a lowland portion of the parent sta
Re	ed Maple	40	Sapling	5	34	Ta	g Alder	High	5 - 10 feet	5 - 10 feet	which partially converted to lowland brush.
Par	per Birch	10	Sapling	5	34	Cat	tail spp.	Low	Not Applicable	Not Applicable	
152		spen, Oak	Ро		Medium		35	51-80	N/A		2018 YOE Inventory: Harvested under contract # 73-019-90-01
Can	opy Species	% Cover	Size Class	DBH	Medium	Sub-Car	opy Species	Density	Avg. Height	Size	MacGruder Road Śale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down
Can Northe	opy Species ern Pin Oak	% Cover 20	Size Class Sapling	DB H	I Age	Sub-Car Rec	nopy Species d Maple	Density Low	Avg. Height Variable	Size Variable	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are
Can Northe Pap	ern Pin Oak	% Cover 20 5	Size Class Sapling Pole	7 4	Age 35	Sub-Car Rec	opy Species	Density	Avg. Height	Size	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of
Can Northe Pap Bigto	ern Pin Oak per Birch both Aspen	% Cover 20 5 40	Size Class Sapling Pole Sapling	7 4 5	35 35	Sub-Car Rec	nopy Species d Maple	Density Low	Avg. Height Variable	Size Variable	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are
Can Northe Pap Bigto Quak	ern Pin Oak	% Cover 20 5	Size Class Sapling Pole	7 4	Age 35	Sub-Car Rec	nopy Species d Maple	Density Low	Avg. Height Variable	Size Variable	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of
Cand Northed Pap Bigto Quak Re	ern Pin Oak per Birch poth Aspen king Aspen	% Cover 20 5 40 20 15	Size Class Sapling Pole Sapling Sapling Sapling Sapling	7 4 5 5	35 35 35 35 35	Sub-Car Rec	nopy Species d Maple	Density Low	Avg. Height Variable	Size Variable 5 - 10 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert. Lowland grasses with dispersed willow and lowland hardwood
Cand Northed Pap Bigto Quak Re	ern Pin Oak per Birch poth Aspen king Aspen ed Maple	% Cover 20 5 40 20 15	Size Class Sapling Pole Sapling Sapling Sapling Sapling	7 4 5 5 5	35 35 35 35 35	Sub-Car Rec Northe	nopy Species d Maple	Density Low	Avg. Height Variable 5 - 10 feet No	Size Variable 5 - 10 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert.
Can Northe Pap Bigto Quak	ern Pin Oak per Birch poth Aspen king Aspen ed Maple	% Cover 20 5 40 20 15	Size Class Sapling Pole Sapling Sapling Sapling Sapling	7 4 5 5 5	35 35 35 35 35	Sub-Car Rec Northe	nopy Species I Maple rn Pin Oak	Density Low Low	Avg. Height Variable 5 - 10 feet	Size Variable 5 - 10 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down to wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert. Lowland grasses with dispersed willow and lowland hardwood
Can Northe Pap Bigto Quak Re	ern Pin Oak per Birch poth Aspen king Aspen ed Maple	% Cover 20 5 40 20 15	Size Class Sapling Pole Sapling Sapling Sapling Sapling	7 4 5 5 5	35 35 35 35 35	Sub-Car Rec Northe	nopy Species I Maple rn Pin Oak nopy Species	Density Low Low Density	Avg. Height Variable 5 - 10 feet No Avg. Height	Size Variable 5 - 10 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert. Lowland grasses with dispersed willow and lowland hardwood
Cand Northed Pap Bigto Quak Re	ern Pin Oak per Birch poth Aspen king Aspen ed Maple	% Cover 20 5 40 20 15	Size Class Sapling Pole Sapling Sapling Sapling Sapling	7 4 5 5 5	35 35 35 35 35	Sub-Car Rec Northe	Maple rn Pin Oak https://doi.org/10.1003/10.0004	Density Low Low Density Medium	Avg. Height Variable 5 - 10 feet No Avg. Height >20 feet	Size Variable 5 - 10 feet Size >20 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert. Lowland grasses with dispersed willow and lowland hardwood
Cand Northed Pap Bigto Quak Re	ern Pin Oak per Birch poth Aspen king Aspen ed Maple	% Cover 20 5 40 20 15 gent Wetland	Size Class Sapling Pole Sapling Sapling Sapling	7 4 5 5 5	35 35 35 35 35	Sub-Car Rec Northe	nopy Species Id Maple In Pin Oak In O	Density Low Low Density Medium Medium	Avg. Height Variable 5 - 10 feet No Avg. Height >20 feet >20 feet	Size Variable 5 - 10 feet Size >20 feet >20 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert. Lowland grasses with dispersed willow and lowland hardwood perimeter. The main soil type is Kingsville 2027 YOE Inventory: Regeneration is filling in but should continue
Cand Northed Pay Bigto Quak Re	ern Pin Oak per Birch poth Aspen king Aspen ed Maple 623 - Emer	% Cover 20 5 40 20 15 gent Wetland	Size Class Sapling Pole Sapling Sapling Sapling	7 4 5 5 5 Nor	35 35 35 35 35	Sub-Car Rec Northe	nopy Species Id Maple In Pin Oak In O	Density Low Low Density Medium Medium Medium	Avg. Height Variable 5 - 10 feet No Avg. Height >20 feet >20 feet	Size Variable 5 - 10 feet Size >20 feet >20 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert. Lowland grasses with dispersed willow and lowland hardwood perimeter. The main soil type is Kingsville 2027 YOE Inventory: Regeneration is filling in but should continue be monitored due to height being below 5 feet.Sale Closure: New
Cand Northed Pay Bigto Quak Re	ern Pin Oak per Birch poth Aspen king Aspen ed Maple 623 - Emer	% Cover 20 5 40 20 15 gent Wetland	Size Class Sapling Pole Sapling Sapling Sapling	7 4 5 5 5 Nor	35 35 35 35 35	Sub-Car Rec Northe	nopy Species I Maple In Pin Oak I Maple I Mapl	Density Low Low Density Medium Medium Medium mmature	Avg. Height Variable 5 - 10 feet No Avg. Height >20 feet >20 feet 5 - 10 feet	Size Variable 5 - 10 feet Size >20 feet >20 feet 5 - 10 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert. Lowland grasses with dispersed willow and lowland hardwood perimeter. The main soil type is Kingsville 2027 YOE Inventory: Regeneration is filling in but should continue
Cand Northed Pay Bigto Quak Re	ern Pin Oak per Birch poth Aspen king Aspen ed Maple 623 - Emer	% Cover 20 5 40 20 15 gent Wetland	Size Class Sapling Pole Sapling Sapling Sapling	7 4 5 5 5 Nor	35 35 35 35 35	Sub-Car Rec Northe	nopy Species I Maple In Pin Oak I Maple I Mapl	Density Low Low Density Medium Medium Medium mmature Density	Avg. Height Variable 5 - 10 feet No Avg. Height >20 feet >20 feet 5 - 10 feet Avg. Height	Size Variable 5 - 10 feet Size >20 feet >20 feet 5 - 10 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and are that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert. Lowland grasses with dispersed willow and lowland hardwood perimeter. The main soil type is Kingsville 2027 YOE Inventory: Regeneration is filling in but should continue be monitored due to height being below 5 feet. Sale Closure: New stand. Harvested during the summer of 2022 under contract Magrudder Mix. Clear-cut 2 inches and up. Stand mostly sits on a side slope transition between upland and lowland.2017 YOE
Cand Northed Pay Bigto Quak Re	ern Pin Oak per Birch poth Aspen king Aspen ed Maple 623 - Emer	% Cover 20 5 40 20 15 gent Wetland	Size Class Sapling Pole Sapling Sapling Sapling	7 4 5 5 5 Nor	35 35 35 35 35	Sub-Car Rec Northe	nopy Species Id Maple In Pin Oak In Pin Oak In Pin Oak In Oak In Maple In Maple In Oak In Maple	Density Low Low Density Medium Medium Medium Medium Density Low	Avg. Height Variable 5 - 10 feet No Avg. Height >20 feet >20 feet 5 - 10 feet Avg. Height 5 - 10 feet	Size Variable 5 - 10 feet Size >20 feet >20 feet 5 - 10 feet	MacGruder Road Sale and 73-049-90-01 Lost Hipchain Sale. Cut species 2" and up. Stand is mainly on a ridge, which slopes down wetter ground. The stand is a matrix of open grassy areas and ar that are very dense. Aspen was considered over mature at time of harvest. The main soil types are Pipestone/Kingsville/Covert. Lowland grasses with dispersed willow and lowland hardwood perimeter. The main soil type is Kingsville 2027 YOE Inventory: Regeneration is filling in but should continue be monitored due to height being below 5 feet. Sale Closure: New stand. Harvested during the summer of 2022 under contract Magrudder Mix. Clear-cut 2 inches and up. Stand mostly sits on

rutted heavily. A dry ridge makes up the majority of the stand but low pockets are scattered throughout (maple regeneration is concentrated here). The soil is mainly Pipestone with some area of Covert.

Compartment: 116

											rear of Entry: 2021
Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
155	4125 - Blac	k, N. Pin O	ak Sa	awtimber	Medium	n 9.9	60	81-110	N/A	4	2027 YOE Inventory: Aspen decline continues, promoting oak. High
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	wildlife value stand because of mast production.2017 YOE Inventory: Ridge tapering to low ground. Aspen dying out of stand.
I	Bigtooth Aspen	10		14	60	Northe	ern Pin Oak	Medium	10 - 20 feet	10 - 20 feet	Oak varies in size & age but on average not more than 20 years. This
	Red Maple	10		10		Re	d Maple	Low	10 - 20 feet	10 - 20 feet	is most likely because of the decline/cutting of aspen. Stand is close to 75% canopy closure.
N	lorthern Pin Oak	78		10	60						to 75% carlopy closure.
(Quaking Aspen	2		10							
156	4199 - Other Mixe	d Upland D	eciduous	Unspe	cifed	13.2	3	Immature			2027 YOE Inventory: Upland areas will be above browse height in 2 c
						Sub-Ca	nopy Species	Density	Avg. Height	Size	3 years. Lowland areas are non-stocked and will take a decade or more to fill in. Browse on red maple is an issue. Switch covertype
						Re	d Maple	Low	< 5 feet	< 5 feet	objective to other mixed upland deciduous.2022 Sale Closure:
						Bigto	oth Aspen	Medium	< 5 feet	< 5 feet	Harvested during the winter of 2021 under contract High Tower Mix.2017 YOE Inventory: SE block separated by a forested drain
											approximately 40 - 50 feet wide. Accessing from the south may be the better option.
157	413 -	Aspen		Unspe	cifed	2.2	3				2027 YOE Inventory: Almost zero woody vegetation. Browse is a
						Sub-Ca	nopy Species	Density	Avg. Height	Size	factor.2022 Sale Closure: Harvested during the winter of 2021/2022 under contract High Tower Mix. Clear-cut 2" and up. Nev
						Mixed Se	dges/Grasses	Medium	Not Applicable	Not Applicable	non-forested stand created after harvest of portion of larger stand.
						Blackbe	rry/Raspberry	Medium	5 - 10 feet	5 - 10 feet	Will eventually be merged into surrounding aspen sapling stand.
						Brad	ken Fern	Medium	Not Applicable	Not Applicable	Harvested to improve road access 2017 YOE Comments: Stand is a mix of upland and lowland with upland being the majority. Canopy
											aspen are declining allowing red maple in the understory to succeed. This process is creating single stem red maple.
158	6230	- Cattail		Non	ie	12.5			No)	
159	6113 - Lov	wland Maple	e Sa	awtimber	Medium	26.1	78	51-80	N/A	A	2027 YOE Inventory: Regeneration from harvest is minimal. Few stump sprouts present have been heavily browsed. Sufficient canopy
	Canopy Species	% Cover	Size Class	DBH	Age		nopy Species	Density	Avg. Height	Size	gaps present to support future regeneration if a seedling cohort can
S۱	wamp White Oak	13		17			White Oak	Low	5 - 10 feet	5 - 10 feet	take hold. This is expected to occur slowly over the next two
	Red Oak	7		16	78	Pap	oer Birch	Low	10 - 20 feet	10 - 20 feet	decades.2022 Sale Closure: Harvested during the winter of 2021/2022 under contract High Tower Mix. Removed all aspen.
	Red Maple	80		12	78		een Ash	Low	< 5 feet	< 5 feet	Marked thinning with regeneration gaps. Original stand was split into
							ood/Hornbeam	Low	10 - 20 feet	10 - 20 feet	2.2017 YOE Comments: The stand is a mixture of upland and
						Mich	igan Holly	Low	5 - 10 feet	5 - 10 feet	lowland. Most of the area is lowland with the NE corner being the wettest. Down woody debris of ash, aspen, and even some red map
						Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	due to natural causes throughout stand creating canopy gaps for sub-
											canopy species. Overall BA was reduced by 10 square feet because of ash mortality. The largest diameter trees are located in the wettes areas of the stand indicating the stand most likely was logged to som degree. The NW corner is the highest and driest. The main soil under the stand is Pipestone.

	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
160	4131 - A	spen, Oak	5	Sawtimb	er Well	24.7	87	81-110	N/A	1	2027 YOE Inventory: Variable density stand. North portion is sparse
Can	nopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	poor quality aspen over medium density sapling maple and oak. Southern portions have better stocking with pockets of aspen
Re	ed Maple	30		9	87	Servicebe	rry (Juneberry)	Low	10 - 20 feet	10 - 20 feet	separated by oak and maple. Total aspen canopy cover is around
Bigto	ooth Aspen	40		12	87	Black/Red	d (Hybrid) Oak	Medium	>20 feet	>20 feet	40% and loosing vigor with natural succession occurring. Several oil
W	/hite Oak	5		12		Re	d Maple	Medium	>20 feet	>20 feet	wells within the stand boundary. SE corner blocked by low wet ground
Pa	per Birch	5	Seedling	8							
Black/Re	ed (Hybrid) Oak	20		9							
161	3102	- Grass		Nor	ne	1.0					2020 Well Site Inventory: Well site permit 1966 Plugged 11/22/1946 Chevron Recalmation
162 611	19 - Mixed Lowla	nd Deciduo	ous Forest F	Poletimb	er Well	6.8	41	81-110	N/A	\	2027 YOE Inventory: New stand. Formerly part of a larger aspen
Can	nopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand. Aspen does not make up 40% of canopy closure. Western portions of the stand are fairly wet and dominated by maple
Re	ed Maple	40	Sapling	6	41	Mich	igan Holly	Medium	5 - 10 feet	5 - 10 feet	saplings.2017 YOE Inventory: Harvested under contract # 73-035-
Qua	king Aspen	25	Seedling	8	41	Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	82-01 Alamando Rd. Cut all species which met minimum piece
Swam	p White Oak	10	Sapling	5	41	Ta	g Alder	Medium	5 - 10 feet	5 - 10 feet	utilization. Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The
Pa	per Birch	15	Sapling	5	41			,			species are heavy to trembling aspen with some bigtooth especially
North	ern Pin Oak	5		8	41						along the two-track. In addition, there is a component of red maple
Bigto	ooth Aspen	5	Seedling	8	41						brush. The soil under the stand is a mixture of Covert, Pipestone, a
	ooth Aspen 4139 - Aspen, I		<u> </u>	letimber		m 20.5	41	81-110	N/A	<u> </u>	and oak in the stand. Some areas are wet and dominated by lowlar brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of the stands of the stands based of the stands of the
163	·	Mixed Decid	<u> </u>	letimber			41	81-110 Density	N/A Avg. Height	Size	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is
163 Can	4139 - Aspen, N	Mixed Decid	duous Po	letimber	r Mediui	Sub-Ca					brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet
163 Can	4139 - Aspen, I	Mixed Decid	duous Po	oletimber DBH	Mediui	Sub-Car Re	nopy Species	Density	Avg. Height	Size	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under
163 Can Pa	4139 - Aspen, Nopy Species	Mixed Decid	duous Po	oletimber DBH	Mediui	Sub-Car Re Mich	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Size 10 - 20 feet	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under contract # 73-020-84-01 Better In The Back. Cut all species which
163 Can Pa Re Qual	4139 - Aspen, Nopy Species aper Birch ed Maple	Mixed Decide % Cover 5 45	duous Po	DBH 6 6	Mediui Age 41 41	Sub-Cai Re Mich Nai	nopy Species d Maple igan Holly	Low Low	Avg. Height 10 - 20 feet 5 - 10 feet	Size 10 - 20 feet 5 - 10 feet	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under
163 Can Pa Re Qual	4139 - Aspen, Nopy Species aper Birch ed Maple king Aspen	Mixed Decide **Cover** 5 45 20	duous Po	DBH 6 6 9	Mediui Age 41 41 41	Sub-Cai Re Mich Nai	nopy Species d Maple igan Holly nnyberry	Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet	Size 10 - 20 feet 5 - 10 feet 5 - 10 feet	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under contract # 73-020-84-01 Better In The Back. Cut all species which met minimum piece utilization. The stand is a mixture of upland and lowland with the upland being the majority. the access road is impassable during wet periods of the year. Cutting blocks become
163 Can Pa Re Qual	4139 - Aspen, Nopy Species Aper Birch Bed Maple King Aspen Booth Aspen	Mixed Decide **Cover** 5	duous Po	DBH 6 6 9 9	Mediui Age 41 41 41 41	Sub-Cai Re Mich Nai	nopy Species d Maple igan Holly nnyberry	Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet	Size 10 - 20 feet 5 - 10 feet 5 - 10 feet	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under contract # 73-020-84-01 Better In The Back. Cut all species which met minimum piece utilization. The stand is a mixture of upland and lowland with the upland being the majority. the access road is impassable during wet periods of the year. Cutting blocks become more wet to the north with a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and average.
163 Can Pa Re Qual Bigte	4139 - Aspen, Nopy Species Aper Birch Bed Maple King Aspen Booth Aspen Red Oak	Mixed Decide **Cover** 5	duous Po	DBH 6 6 9 9	Medium Age	Sub-Cai Re Mich Nai	nopy Species d Maple igan Holly nnyberry	Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet	Size 10 - 20 feet 5 - 10 feet 5 - 10 feet	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under contract # 73-020-84-01 Better In The Back. Cut all species which met minimum piece utilization. The stand is a mixture of upland and lowland with the upland being the majority. the access road is impassable during wet periods of the year. Cutting blocks become more wet to the north with a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and average diameter but increasing stem density as they are growing in clumps. Currently the BA in the stand ranges from 10 to 140, averaging 90.
163 Can Pa Re Qual Bigte	4139 - Aspen, Nopy Species Aper Birch Bed Maple King Aspen Booth Aspen Red Oak	Mixed Decide **Cover** 5	duous Po Size Class Seedling Seedling	DBH	Medium Age	Sub-Car Re Mich Nar Ta	nopy Species d Maple igan Holly nnyberry	Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet	Size 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under contract # 73-020-84-01 Better In The Back. Cut all species which met minimum piece utilization. The stand is a mixture of upland and lowland with the upland being the majority. the access road is impassable during wet periods of the year. Cutting blocks become more wet to the north with a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and averaging and the province of the year of the year. The map is not prevalent in these low areas reducing BA and averaging and the year of the year of the year. Cutting blocks become more wet to the north with a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and averaging and the year of the year. Cutting blocks become more wet to the north with a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and averaging and year of the year. Cutting blocks become more wet to the north with a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and averaging year. 2020 Comments: well site permit plugged 05/26/1967
Can Pa Re Qual Bigto	4139 - Aspen, Nopy Species Aper Birch Bed Maple King Aspen Booth Aspen Red Oak	Mixed Decide **Cover** 5	duous Po Size Class Seedling Seedling	DBH 6 6 9 9 9	Medium Age	Sub-Cal Re Mich Nar Ta	nopy Species d Maple igan Holly nnyberry	Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Size 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under contract # 73-020-84-01 Better In The Back. Cut all species which met minimum piece utilization. The stand is a mixture of upland and lowland with the upland being the majority. the access road is impassable during wet periods of the year. Cutting blocks become more wet to the north with a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and averagiameter but increasing stem density as they are growing in clumps Currently the BA in the stand ranges from 10 to 140, averaging 90. The main soil types are Pipestone, Covert, and Kingsville. 2020 Comments: well site permit plugged 05/26/1967
Can Pa Re Qual Bigto	4139 - Aspen, Nopy Species Aper Birch Bed Maple King Aspen Booth Aspen Red Oak	Mixed Decide **Cover** 5	duous Po Size Class Seedling Seedling	DBH 6 6 9 9 9	Medium Age	Sub-Car Re Mich Nar Ta	nopy Species d Maple igan Holly nnyberry g Alder	Low Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet No	Size 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet S - 10 feet	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under contract # 73-020-84-01 Better In The Back. Cut all species which met minimum piece utilization. The stand is a mixture of upland and lowland with the upland being the majority. The access road is impassable during wet periods of the year. Cutting blocks become more wet to the north with a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and avera diameter but increasing stem density as they are growing in clumps Currently the BA in the stand ranges from 10 to 140, averaging 90. The main soil types are Pipestone, Covert, and Kingsville. 2020 Comments: well site permit plugged 05/26/1967 2018 YOE Inventory: This is a large cattail marsh with perimeters of lowland shrubs. Small treed islands and fingers exist along the perimeter of the stand along with scattered trees throughout which range in size. There are multiple patches of phragmites which also
Can Pa Re Qual Bigto	4139 - Aspen, Nopy Species Aper Birch Bed Maple King Aspen Booth Aspen Red Oak	Mixed Decide **Cover** 5	duous Po Size Class Seedling Seedling	DBH 6 6 9 9 9	Medium Age	Sub-Car Re Mich Nar Ta	nopy Species d Maple igan Holly nnyberry g Alder	Low Low Low Low Density	Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet No	Size 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet S - 10 feet	brush. The soil under the stand is a mixture of Covert, Pipestone, a Kingsville. 2027 YOE Inventory: Split former stand into multiple stands based of species density differences and hydrology differences. New stand is poorly stocked aspen with dense maple saplings and oak pockets. Regenerating aspen in this stand will be difficult. Non-forested wet pockets located in the stand.2017 YOE Inventory: Harvested under contract # 73-020-84-01 Better In The Back. Cut all species which met minimum piece utilization. The stand is a mixture of upland and lowland with the upland being the majority. The access road is impassable during wet periods of the year. Cutting blocks become more wet to the north with a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and avera diameter but increasing stem density as they are growing in clumps Currently the BA in the stand ranges from 10 to 140, averaging 90. The main soil types are Pipestone, Covert, and Kingsville. 2020 Comments: well site permit plugged 05/26/1967

Medium

5 - 10 feet

5 - 10 feet

Michigan Holly

Compartment: 116

Stand	Level 4 Co	vel 4 Cover Type			nsity	Acres S	Stand Age E	BA Range	Managed S	Site	General Comments
166	3102	- Grass		Nor	ne	1.1					2027 YOE Inventory: Well site permit 3279. Site is restored with herbaceous cover.
167	4130	- Aspen		Sapling P		15.3	5	Immature	N/A	4	2027 YOE Inventory: Harvested area was 23 acres. This is the upland, regenerated portion of that cut. 6.6 acres in the middle of the
Ca	anopy Species	% Cover	Size Class	DBH	Age						stand did not regenerate. Cause of regeneration failure in this area is
Black/F	Red (Hybrid) Oak	15	Log	1							mostly likely a mix of pre-harvest species composition, hydrology,
F	Red Maple	5	Log	1	5						browse and harvest timing. Hydrology is wettest, species were pole
Qu	aking Aspen	15	Log	1	5						maple/birch dominant, stump sprout maple preferred browse. Perimeter areas of the stand regenerated well to aspen.2022 Sale
Big	gtooth Aspen	65	Log	1	5						Closure: Harvested during 2020 under contract Magrudder Mix 73-013 17. Clear-cut 2 inches and up.2017 YOE Inventory: Stand is a well-
											Multiple oil and gas roads pass through the stand. Part of North Magruder Rd. Sale 73-016-81-01. Cut all aspen, red maple, ash, and paper birch which met minimum piece utilization. Left all oak and protected hardwood understory.
168	6113 - Lov	<u>'</u>		Poletimb		10.0	65	51-80	N/A		2027 YOE Inventory: Split original stand. This portion is mostly pole timber with pockets of sapling and logs. Lower quality. Originally more
	anopy Species		Size Class		Age		opy Species		Avg. Height	Size	aspen which has fallen out of the stand allowing a cohort of younger
	Red Maple	68		9	65		Cherry	Low	Variable	Variable	red maple to succeed into the canopy.2017 YOE Inventory: The
	aking Aspen	15		14	95		n Pin Oak	Low	Variable	Variable	stand is a mixture of upland and lowland. However, most of the land is lowland. The soil under the stand is a mixture of Kingsville,
	Paper Birch	2		10			Maple	Medium	>20 feet	>20 feet	Pipestone, and Covert. A raptor nest was located in the south end of
	thern Pin Oak	10		10		Pape	er Birch	Low	>20 feet	>20 feet	the stand it appeared to be a Goshawk. Dead ash & elm component
Swai	mp White Oak	5		12							within the stand. Un-even aged stand with 3 plus ages measured. form is best along Magrudder Rd. but only marginal overall.
169	6112 - Lov	vland Aspe	en F	Poletimb	er Well	15.5	41	81-110	N/A	4	2027 YOE Inventory: Split former stand into multiple stands based off
Ca	anopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	species density differences and hydrology differences. New stand is mostly lowland. In wettest areas, quaking aspen is declining, allowing
Big	gtooth Aspen	20	Seedling	9	41	Red	Maple	Medium	>20 feet	>20 feet	understory veggetation to grow. Regenerating aspen here will be
P	Paper Birch	5	Seedling	6	41	Tag	Alder	Low	5 - 10 feet	5 - 10 feet	difficult.2017 YOE Inventory: Harvested under contract # 73-020-
Swa	mp White Oak	10	Sapling	6		Michig	an Holly	Low	5 - 10 feet	5 - 10 feet	84-01 Better In The Back. Cut all species which met minimum piece utilization. The stand is a mixture of upland and lowland with the
	Red Oak	5		8	41	Nanı	nyberry	Low	5 - 10 feet	5 - 10 feet	upland being the majority. the access road is impassable during wet
F	Red Maple	20		6	41			,			periods of the year. Cutting blocks become more wet to the north with
Qu	aking Aspen	40		9	41						a forested drain present. Red maple becomes more prevalent in these low areas reducing BA and average diameter but increasing
											stem density as they are growing in clumps. Currently the BA in the stand ranges from 10 to 140, averaging 90. The main soil types are Pipestone, Covert, and Kingsville.

and Level 4	Cover Type								
70 6119 - Mixed Low	land Decidu	ous Forest Pol	etimbe	r Mediu	um 7.5 34	51-80	N/A	.	2027 YOE Inventory: New stand. Switched to lowland based off
Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	recent imagery. Sparse portion former aspen stand. Aspen is not the dominant species on this site. Regeneration risk if clearcut.2017
Red Maple	40	Sapling	5	34	Michigan Holly	Low	5 - 10 feet	5 - 10 feet	YOE Inventory: Harvested under contract # 73-049-90-01 Lost
Bigtooth Aspen	5	Sapling	7	34	Red Maple	Medium	Variable	Variable	Hipchain Sale. Cut all species 2" and up. Aspen was considered over
Quaking Aspen	30	Sapling	6	34	Tag Alder	Low	5 - 10 feet	5 - 10 feet	mature at time of harvest. The stand is an upland lowland matrix with hummocky terrain. This stand was cut with the adjacent ridge but
Northern Pin Oak	10	Sapling	7	34	Alternate-leaved Dogwood	Low	5 - 10 feet	5 - 10 feet	because of its lower elevation regenerated to better stocking and with
Paper Birch	15	Sapling	5	34	Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet	more red maple. The main soil types are Pipestone and Kingsville.
71 6119 - Mixed Low	land Decidu	ous Forest P	oletimb	er We	II 24.4 41 8	81-110	N/A		2027 YOE Inventory: New stand. Split out from former larger aspen
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	stand. This portion is lowland with a minimal aspen component.
Paper Birch	25	Sapling	5	41	Tag Alder	Medium	5 - 10 feet	5 - 10 feet	2017 YOE Inventory: Harvested under contract # 73-035-82-01
Red Maple	45	Sapling	6	41	Red Maple	Medium	10 - 20 feet	10 - 20 feet	Alamando Rd. Cut all species which met minimum piece utilization.
Swamp White Oak	10	Sapling	5	41	Michigan Holly	Medium	5 - 10 feet	5 - 10 feet	Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The species are heavy to
Northorn Din Oals	5		8	41					trembling aspen with some bigtooth especially along the two-track. In
Northern Pin Oak	5			71					
Quaking Aspen	15	Seedling	8	41					addition, there is a component of red maple and oak in the stand.
Quaking Aspen 72 6112 - L	15 owland Aspe	en P	8 oletimk	41 er We		81-110	N/A	.	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen
Quaking Aspen 72 6112 - L Canopy Species	owland Aspe	en P	oletimb	41 er We	Sub-Canopy Species	Density	Avg. Height	Size	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand.
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak	owland Aspe	en P Size Class Sapling	oletimb DBH	er Wel	Sub-Canopy Species Tag Alder	Density Medium	Avg. Height 5 - 10 feet	Size 5 - 10 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple	owland Aspe	en P Size Class Sapling Sapling	oletimb DBH 5 6	41 er We 1 Age 41 41	Sub-Canopy Species Tag Alder Michigan Holly	Density Medium Medium	Avg. Height 5 - 10 feet 5 - 10 feet	Size 5 - 10 feet 5 - 10 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple Paper Birch	0wland Aspe % Cover 5 15 15	Size Class Sapling Sapling Sapling	8	41 er Wel 41 41 41	Sub-Canopy Species Tag Alder	Density Medium	Avg. Height 5 - 10 feet	Size 5 - 10 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple Paper Birch Quaking Aspen	0wland Aspe % Cover 5 15 15 30	Size Class Sapling Sapling Sapling Sapling Seedling	8	41 Age 41 41 41	Sub-Canopy Species Tag Alder Michigan Holly	Density Medium Medium	Avg. Height 5 - 10 feet 5 - 10 feet	Size 5 - 10 feet 5 - 10 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The species are heavy to trembling aspen with some
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple Paper Birch Quaking Aspen Bigtooth Aspen	0wland Aspe % Cover 5 15 15 30 20	Size Class Sapling Sapling Sapling	8 8	41	Sub-Canopy Species Tag Alder Michigan Holly	Density Medium Medium	Avg. Height 5 - 10 feet 5 - 10 feet	Size 5 - 10 feet 5 - 10 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The species are heavy to trembling aspen with some bigtooth especially along the two-track. In addition, there is a
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple Paper Birch Quaking Aspen Bigtooth Aspen Red Oak	5 15 15 30 20 5	Size Class Sapling Sapling Sapling Sapling Seedling	8	41 Age 41 41 41 41 41	Sub-Canopy Species Tag Alder Michigan Holly	Density Medium Medium	Avg. Height 5 - 10 feet 5 - 10 feet	Size 5 - 10 feet 5 - 10 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The species are heavy to trembling aspen with some
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple Paper Birch Quaking Aspen Bigtooth Aspen	0wland Aspe % Cover 5 15 15 30 20	Size Class Sapling Sapling Sapling Sapling Seedling	8 8	41	Sub-Canopy Species Tag Alder Michigan Holly	Density Medium Medium	Avg. Height 5 - 10 feet 5 - 10 feet	Size 5 - 10 feet 5 - 10 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The species are heavy to trembling aspen with some bigtooth especially along the two-track. In addition, there is a component of red maple and oak in the stand. Some areas are wet
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple Paper Birch Quaking Aspen Bigtooth Aspen Red Oak	0wland Aspe % Cover 5 15 15 30 20 5 10	Size Class Sapling Sapling Sapling Sapling Seedling	8	41 Age 41 41 41 41 41 41	Sub-Canopy Species Tag Alder Michigan Holly Red Maple	Density Medium Medium	Avg. Height 5 - 10 feet 5 - 10 feet	Size 5 - 10 feet 5 - 10 feet 10 - 20 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The species are heavy to trembling aspen with some bigtooth especially along the two-track. In addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil under the stand is a mixture of Covert, Pipestone, and Kingsville.
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple Paper Birch Quaking Aspen Bigtooth Aspen Red Oak Northern Pin Oak 73 6119 - Mixed Low Canopy Species	0wland Aspe % Cover 5 15 15 30 20 5 10 vland Decidue	Size Class Sapling Sapling Sapling Sapling Seedling	8	41 Age 41 41 41 41 41 41 41 41 41 41 41 41 41	Sub-Canopy Species Tag Alder Michigan Holly Red Maple um 5.8 41 Sub-Canopy Species	Density Medium Medium Medium Medium Medium Density	Avg. Height 5 - 10 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height	Size 5 - 10 feet 5 - 10 feet 10 - 20 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The species are heavy to trembling aspen with some bigtooth especially along the two-track. In addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil under the stand is a mixture of Covert, Pipestone, and Kingsville.
Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple Paper Birch Quaking Aspen Bigtooth Aspen Red Oak Northern Pin Oak 73 6119 - Mixed Low Canopy Species Quaking Aspen	0wland Aspe % Cover 5 15 15 30 20 5 10 //and Decidue % Cover 35	Size Class Sapling Sapling Sapling Sapling Seedling Seedling	8	41 Age 41 Age 41 Age 41	Sub-Canopy Species Tag Alder Michigan Holly Red Maple um 5.8 41 Sub-Canopy Species Red Maple	Density Medium Medium Medium 1-50 Density Medium	Avg. Height 5 - 10 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 10 - 20 feet	Size 5 - 10 feet 5 - 10 feet 10 - 20 feet Size 10 - 20 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The species are heavy to trembling aspen with some bigtooth especially along the two-track. In addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil under the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Low density trees over brush. Scattered pockets of aspen. Stand will fill in over time.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met
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Quaking Aspen 72 6112 - L Canopy Species Swamp White Oak Red Maple Paper Birch Quaking Aspen Bigtooth Aspen Red Oak Northern Pin Oak 73 6119 - Mixed Low Canopy Species Quaking Aspen Red Maple	0wland Aspe % Cover 5 15 15 30 20 5 10 vland Decidue % Cover 35 25	en P Size Class Sapling Sapling Sapling Seedling Seedling Ous Forest Pol Size Class Seedling Sapling	8	41 Age 41 41 41 41 41 A1	Sub-Canopy Species Tag Alder Michigan Holly Red Maple um 5.8 41 Sub-Canopy Species Red Maple Tag Alder	Density Medium Medium Medium 1-50 Density Medium Medium Medium	Avg. Height 5 - 10 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet	Size 5 - 10 feet 5 - 10 feet 10 - 20 feet Size 10 - 20 feet 5 - 10 feet	addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil unde the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Hydrology is a mix of lowland pockets and drainages seperate by slightly upland knobs. Aspen is evenly distributed across the stand except for the westest pockets.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 73-017-90-01 Alamando Petite which was closed in '91, same prescription. The species are heavy to trembling aspen with some bigtooth especially along the two-track. In addition, there is a component of red maple and oak in the stand. Some areas are wet and dominated by lowland brush. The soil under the stand is a mixture of Covert, Pipestone, and Kingsville. 2027 YOE Inventory: New stand. Formerly part of a larger aspen stand. Low density trees over brush. Scattered pockets of aspen. Stand will fill in over time.2017 YOE Inventory: Harvested under contract # 73-035-82-01 Alamando Rd. Cut all species which met minimum piece utilization. Stand includes portions of contract # 73-

and dominated by lowland brush. The soil under the stand is a mixture of Covert, Pipestone, and Kingsville.

Compartment: 116

Stand	Level 4 Cover Type	Size Density	Acres Stand Age	BA Range	Managed S	ite
174	4199 - Other Mixed Upland Deciduous	Unspecifed	18.4 5	Immature		
			Sub-Canopy Specie	s Density	Avg. Height	Size
			Bigtooth Aspen	Low	5 - 10 feet	5 - 10 fee
			Red Maple	Low	5 - 10 feet	5 - 10 fee
			Red Maple	Low	< 5 feet	< 5 feet
			Quaking Aspen	Low	5 - 10 feet	5 - 10 fee
			Black/Red (Hybrid) Oa	ak Low	5 - 10 feet	5 - 10 fee

Compartment: 116 Year of Entry: 2027

factor. Keep monitoring 2022 Sale Closure: Harvested during the summer/fall of 2019 under contract High Tower Mix. Clear-cut 2" and up.2017 YOE Comments: Stand cut under contract # 73-011-82-01 Lewis Road Block. Cut all aspen, red maple, ash, paper birch, white oak, elm, & black cherry which met minimum piece utilization. Aspen & red maple made up a majority of the volume cut. Residual trees were left during harvest. Contracts 73-001-84-01 & 73-005-84-01 were set up to cut leftover residual trees. This stand is a mixture of upland and lowland. However, overall the area is upland. In addition, within the stand boundaries there are inclusion of very wet soils which are concentrated towards the south and east.

General Comments

2027 YOE Inventory: Split stand. Upland portion. Regeneration doesn't meeting stocking standards but should grow in over the next 5

years. Seedlings under 4" seem to be adequate. Regeneration is

patchy at approximately 10 - 20% of the area. Browse is a major