

Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73013 Entry Year 2026 Acreage: 2,125

County Clare

Management Area: High Sand Plains

Stand Examiner: Casey Ownes

Legal Description:

T19N - R06W Sections 1 - 3 & 9 -16

Identified Planning Goals:

Follow guidelines set forth in the Regional State Forest Management Plan for the Upper Muskegon Management Area. Monitor and address forest health concerns and issues, balance timber age classes, manage for forest sustainability, provide wildlife habitat and provide forest based recreation. Protect archeological concerns, protect threaten and endangered species.

Soil and topography:

The area varies from well drained sands in the jack pine plains to medium drained soils as you move out of the jack pine plains. The terrain is mostly flat with a few rolling hills as you move out of the flat plains. Green Creek is in a valley and there are areas of step banks leading down into the river valley. The major soil types are Rubicon-Croswell-AuGres associations and Menominee – losco – Kawkawlin associations.

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

The state land in this compartment is spread out over 11 sections. The state and private lands are intermixed resulting in miles of private property lines. Private holdings are mostly comprised of large forested single holdings with absentee landowners. Some areas of state owned land within the compartment have limited access do to both ownership patterns and topography. Many of the private land owners access their land via state two track roads none of which have easements.

Unique Natural Features:

This area has a variety of rare species that could be or are present including; red shouldered hawk, black sandshell, eastern box turtle, wood turtle, goshawk, eagle, great blue heron, loon, wood turtle, eastern massasauga, kirtland's warbler and blanding's turtle. Also potential for floodplain forest, secretive locust in bogs, beak grass, ginseng, and largetoothwort.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Continue to manage aspen and jack pine stands to maintain a verity of age classes to enhance deer and grouse habitat.

Watershed and Fisheries Considerations:

Green Creek and numerous unnamed creeks flow into the Muskegon River. Green Creek is known to hold some trout and should be treated as a cold water fishery. Green Creek is in a valley and has a natural buffer of lowland brush and marsh directly adjacent to its banks. The Muskegon River has a natural corridor (floodplain) of lowland swamp hardwood along most of the water course and should be considered a sensitive area for timber harvest purposes. Upland/High bank areas along the river should also be considered sensitive. There are also many scattered low areas that are seasonally flooded and support populations of waterfowl, great blue herons and many non-game species.

Wildlife Habitat Considerations:

This compartment contains a variety of habitat types suitable for many wildlife species. The compartment includes the Green Creek drainage and adjacent lowland complexs. These lowlands support various waterfowl, reptiles, amphibians, and their predators including raccoon, bobcat, mink, and great blue heron. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redeyed vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and american woodcock. The compartment is easily accessible to hunters via Lake Station Ave.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Jurassic Red Beds and the Pennsylvanian

Saginaw and Grand River Formations. The Saginaw Formation is used for clay/shale in other areas of the State. The nearest gravel pit is located just to the south and there should be potential. Winterfield Field is located in the Compartment. It is a gas storage field and also is in secondary oil recovery operations. Most of the compartment is under lease for gas storage operations.

Vehicle Access:

Access to most of the compartment is good via the county road system and state forest two tracks that are in place. There are access concerns in sections 11, 12 and 14 due to both ownership patterns and topography. There are numerous service roads that lead to Consumers Energy injection wells, oil wells and pipelines within the compartment.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

No Designated Trails are present within the compartment. However dispersed recreation is likely popular throughout the compartment from the access to water resources and varying cover types. No official facilities. The area receives moderate hunting pressure most of which is deer hunters. Light fishing pressure occurs on Green Creek and the Muskegon River. Moderate dispersed camping occurs mainly during the firearm deer hunting season. Canoe traffic on the Muskegon River can be heavy on weekends during the summer. A private campground and canoe livery is located within the compartment boundaries along the Muskegon River on the north side of M-61.

Fire Protection:

Some potential for fire occurrence exists due to red pine and jack pine timber types. There are many fire breaks both natural and man made to assist in the control efforts of wildfire. (Example of fuel breaks include; rivers, low areas, roads and pipelines). Michigan Natural Gas Company operates a gas storage field (Cranberry Field) within the compartment which presents safety concerns.

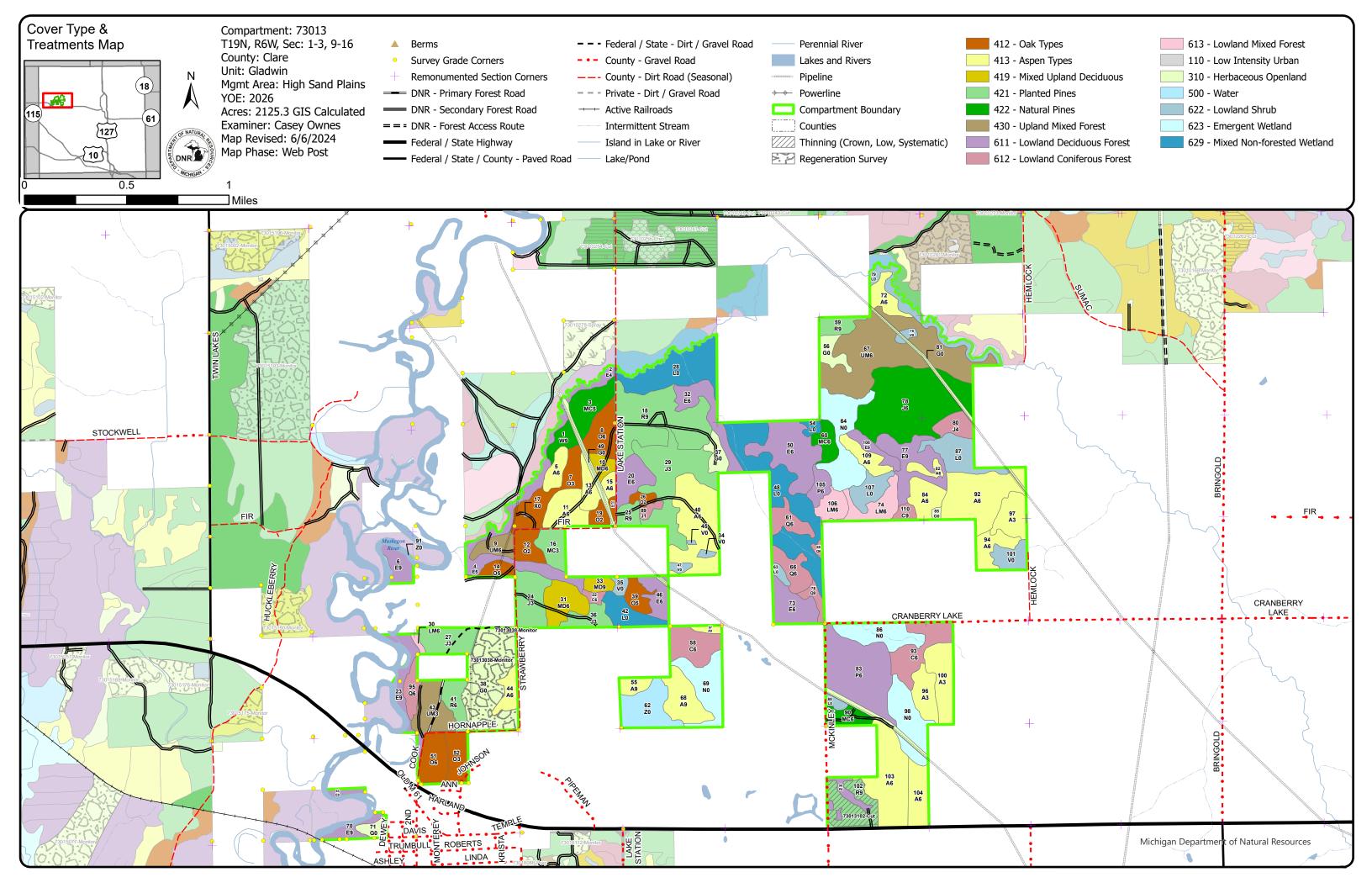
Additional Compartment Information:

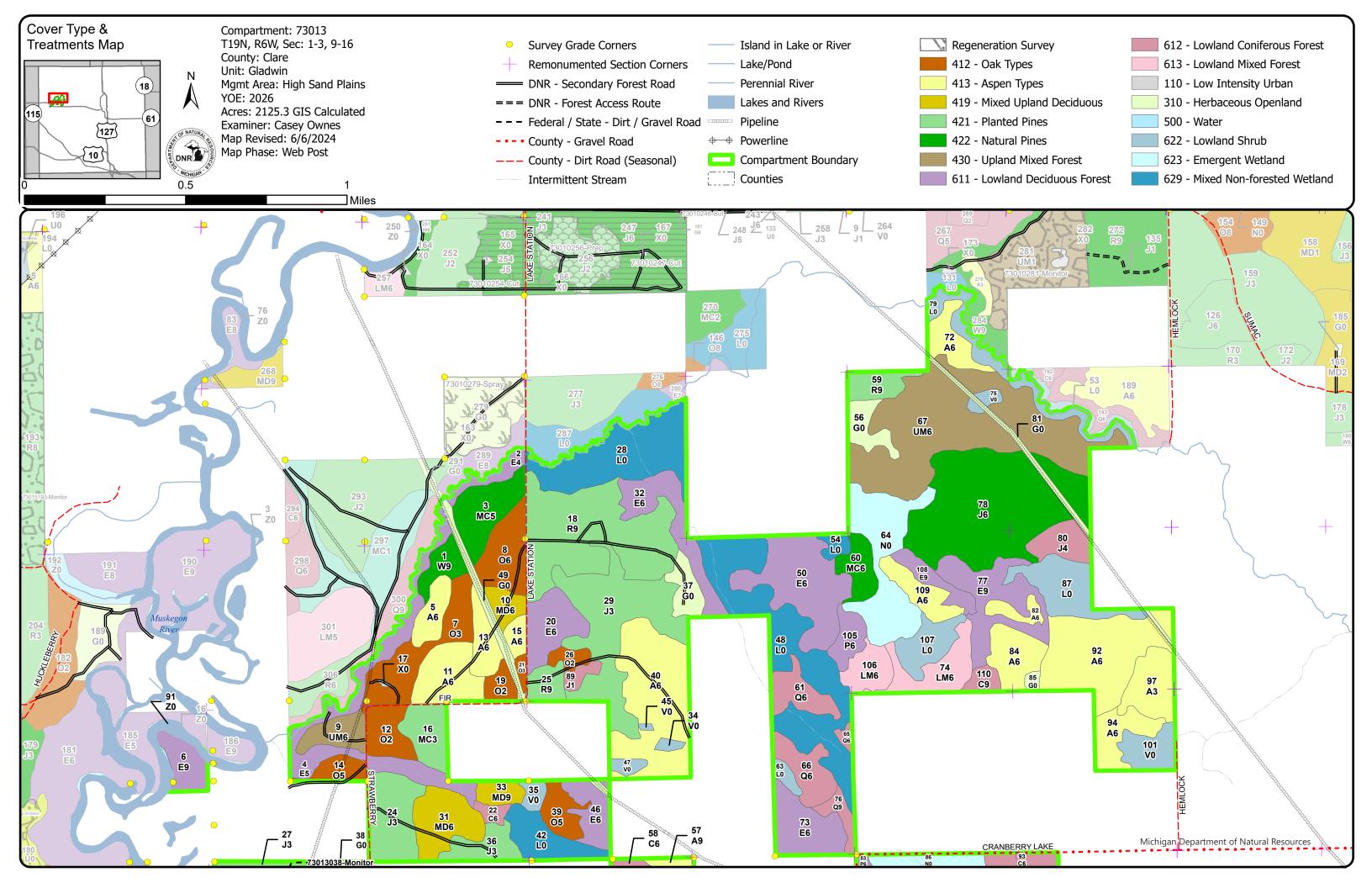
The following reports from the Inventory are attached:

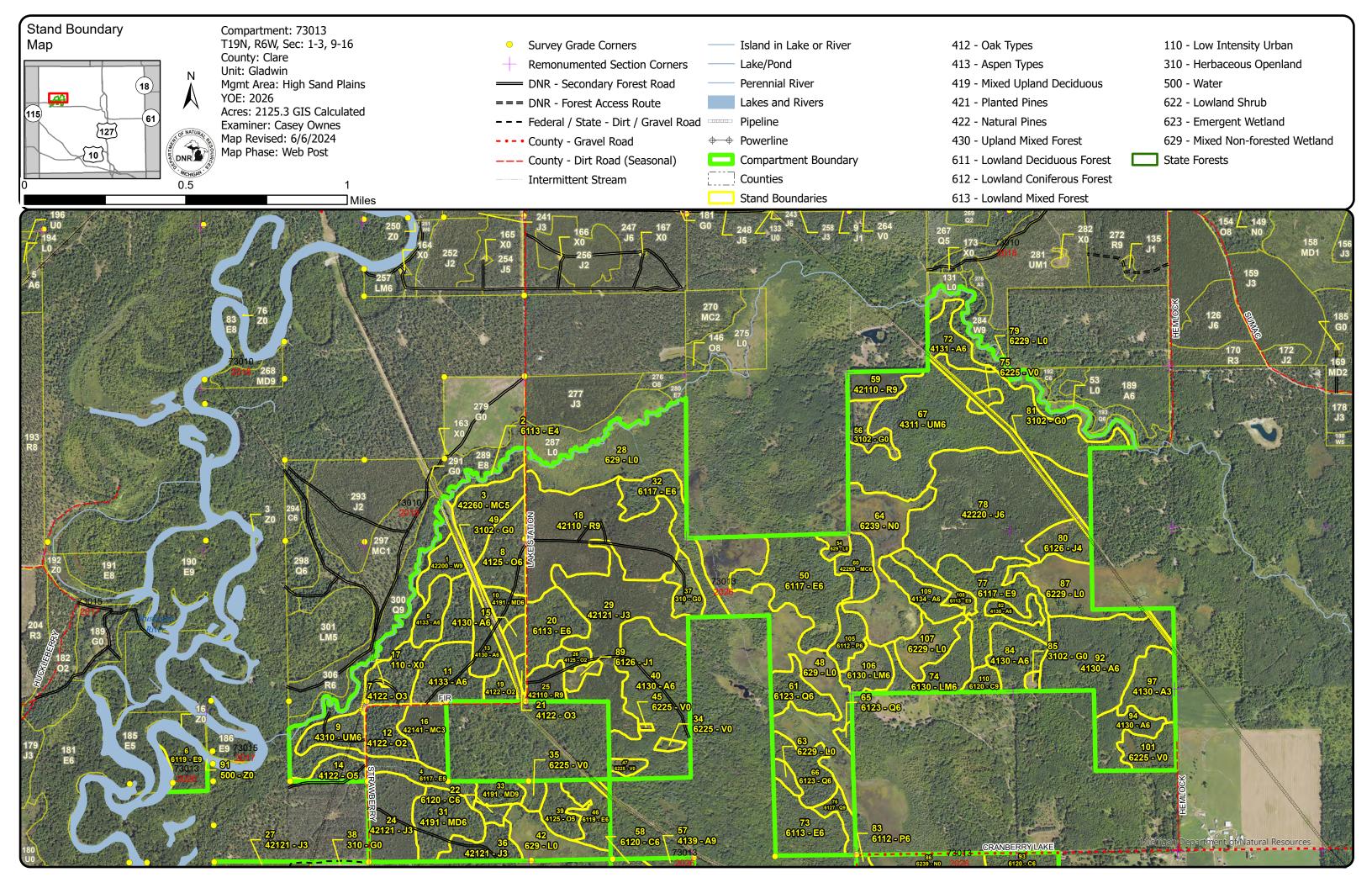
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

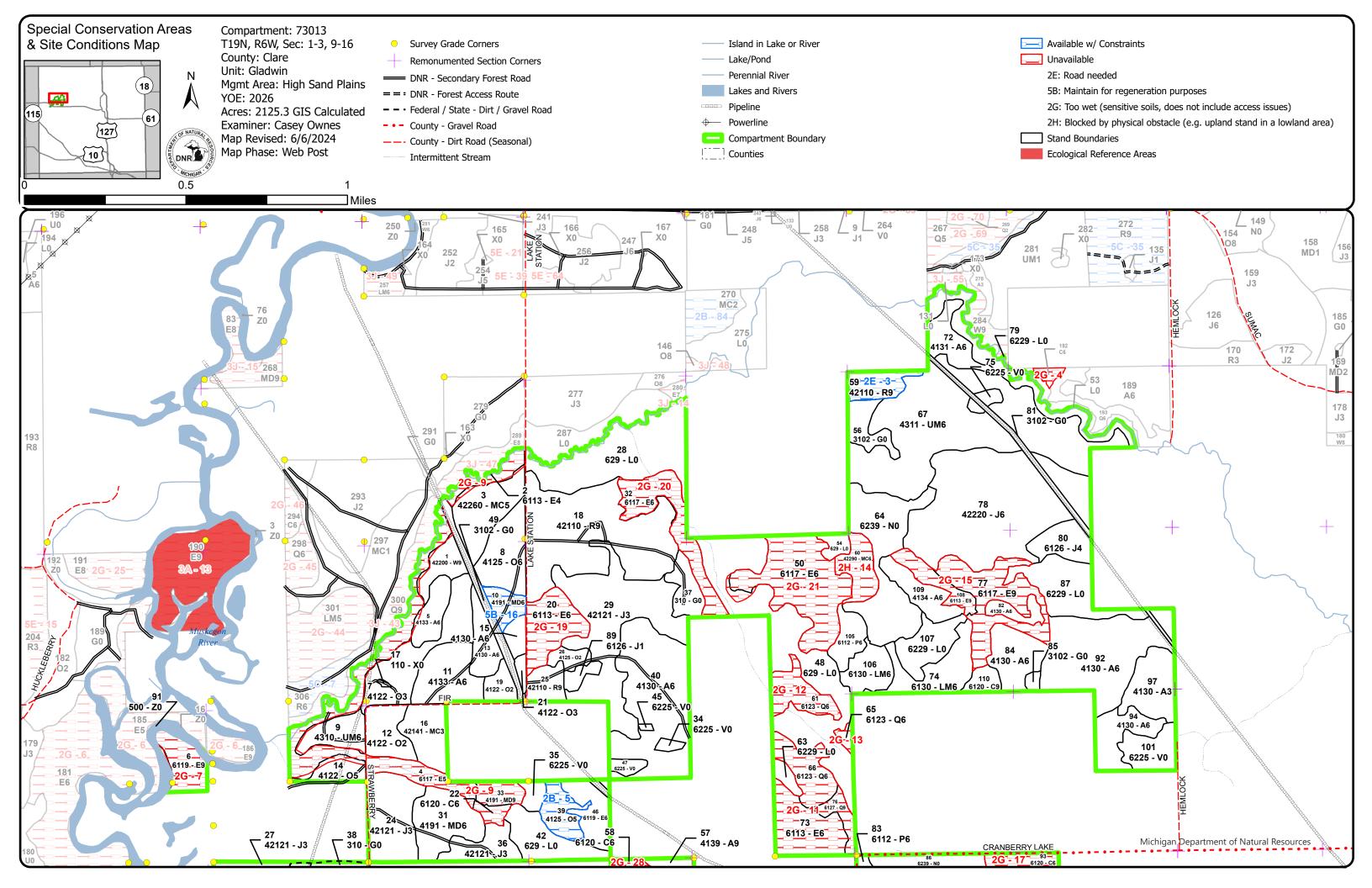
The following information is displayed, where pertinent, on the attached compartment maps:

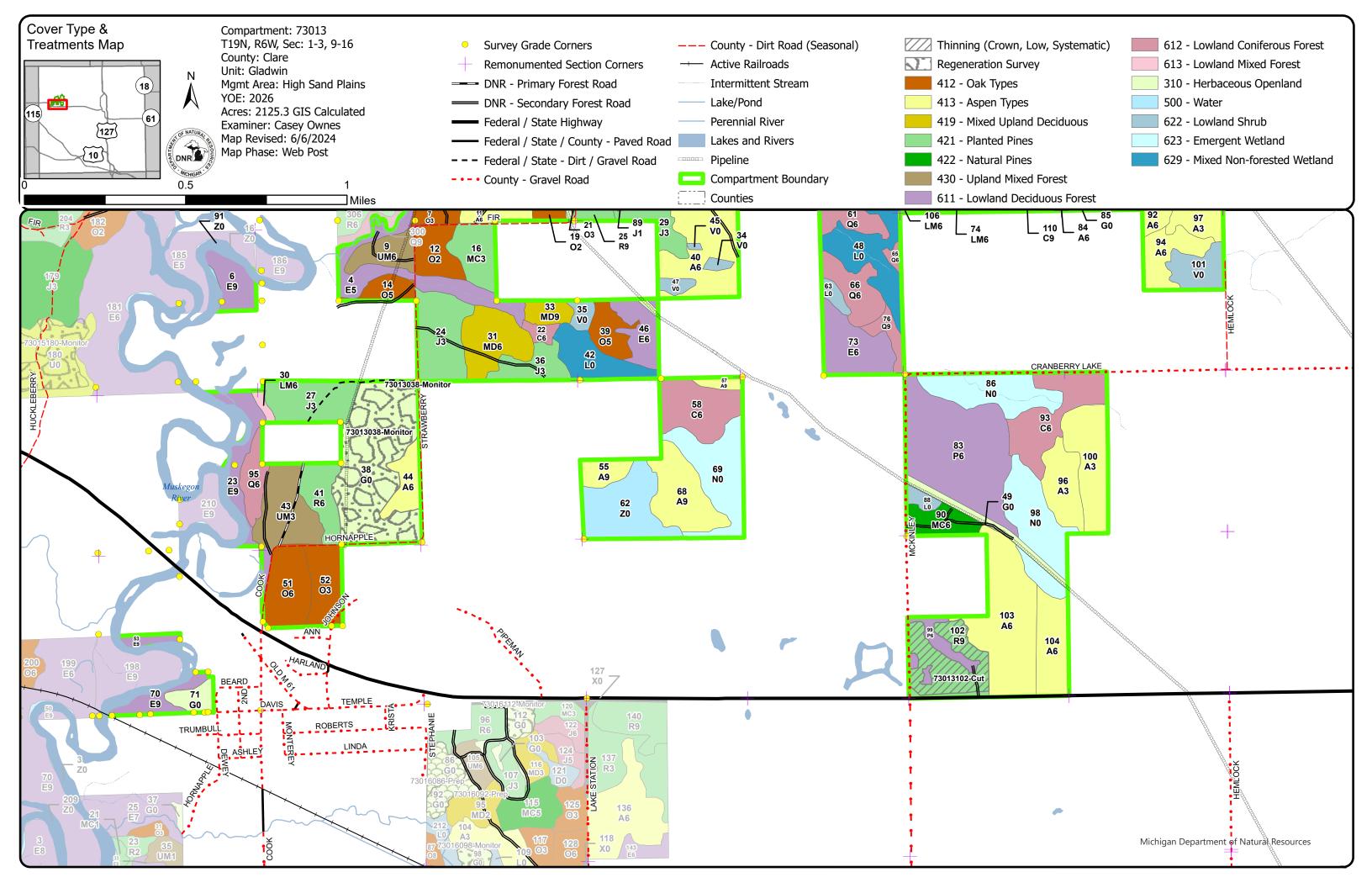
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

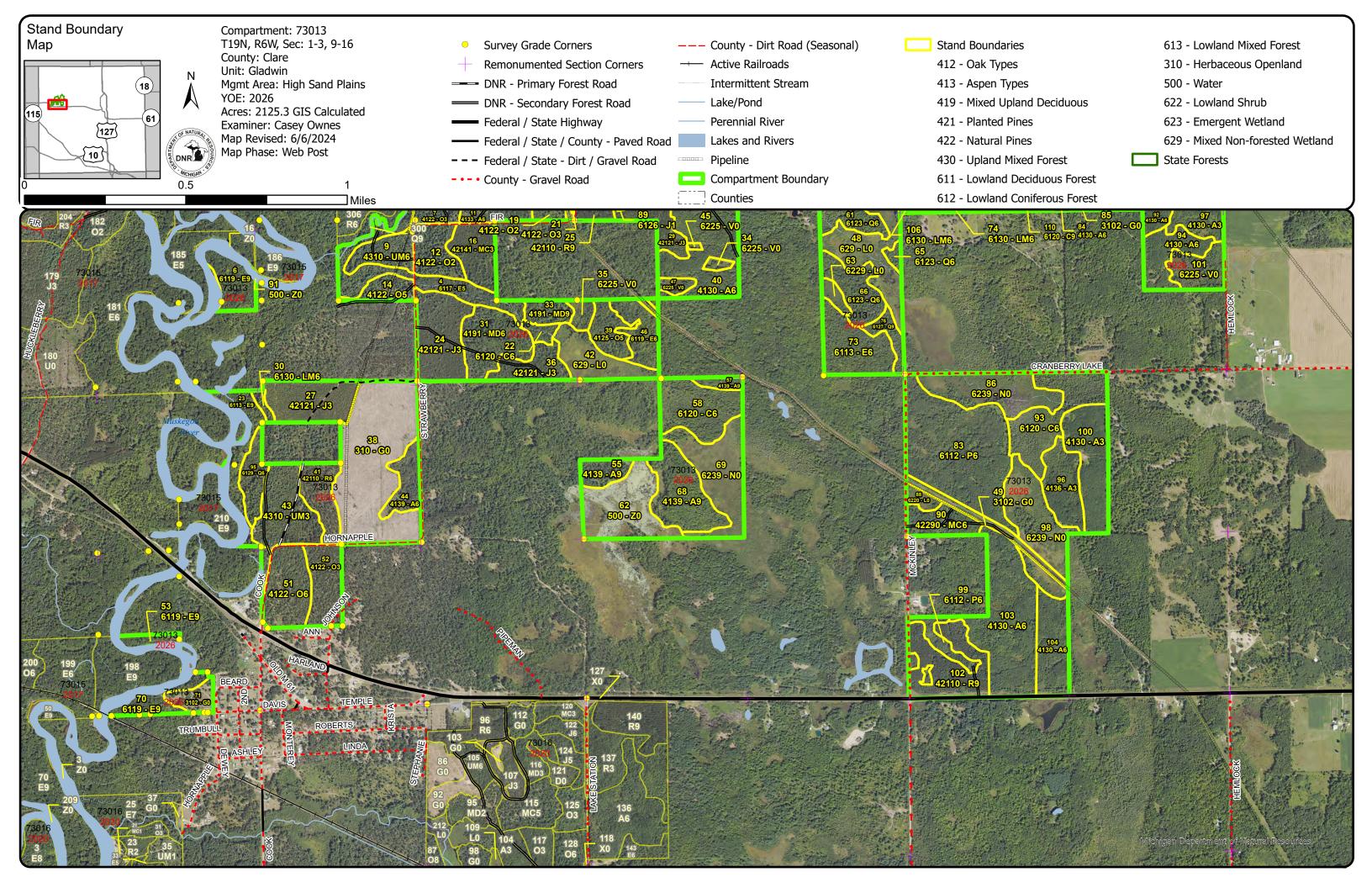


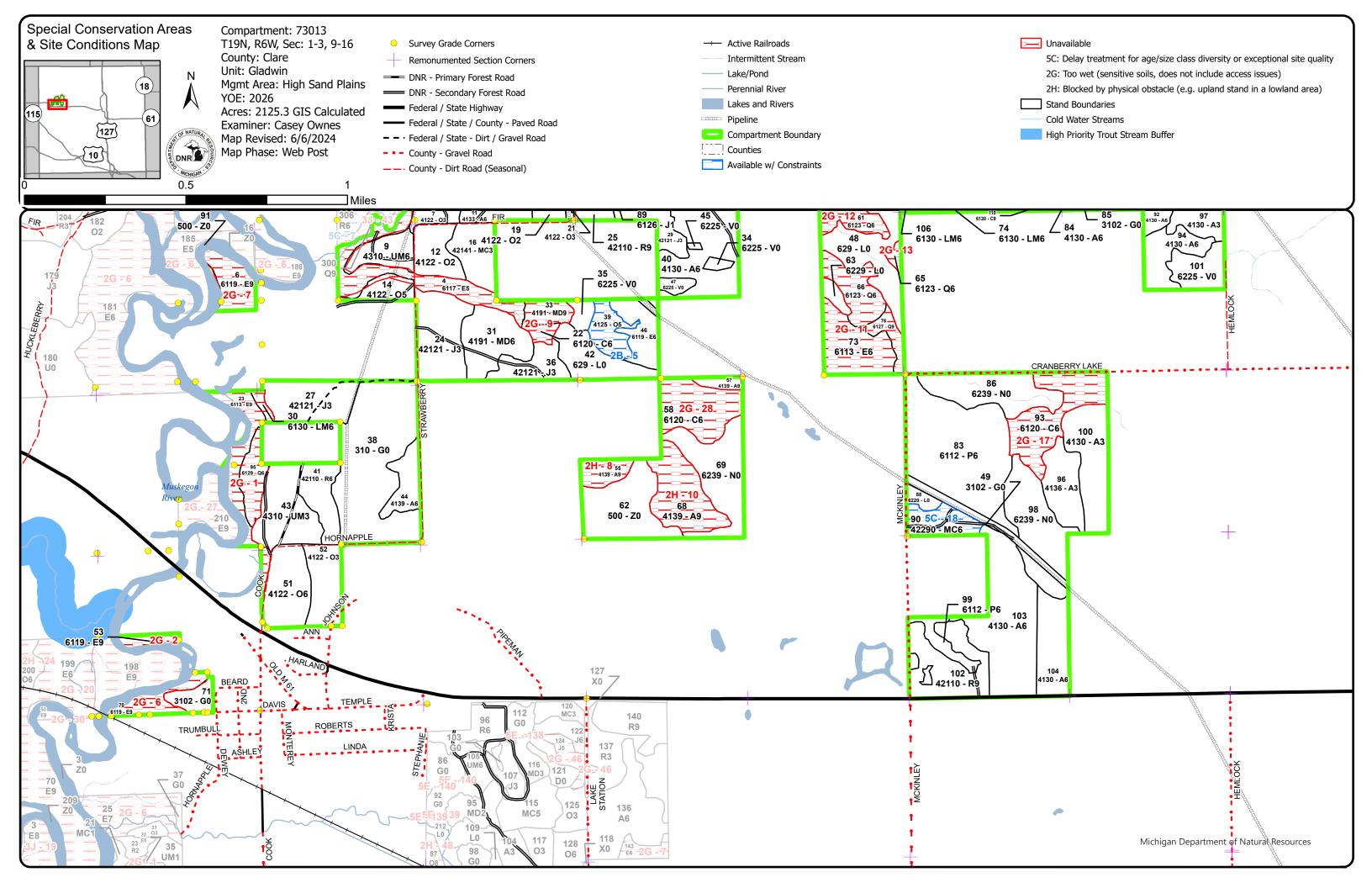












Gladwin Mgt. Unit **Casey Ownes: Examiner**



Age Class

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	North North	·/ `		, / &	' / '&	1 16	/ 🖇	/ &) / K	, / &	, / &	/ %	1/2	1.26	` / &	, \ 'k	s / ×	* / 3r	You You
Aspen	0	0	45	129	186	0	0	0	0	0	0	36	0	0	0	0	0	0	396
Bog	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Cedar	0	0	0	0	0	0	0	0	0	0	5	0	28	28	0	0	0	0	61
Herbaceous Openland	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Jack Pine	0	0	22	102	107	0	0	0	0	0	0	0	0	0	0	0	0	0	231
Lowland Aspen/Balsam Poplar	0	0	0	0	82	0	0	0	0	0	0	0	0	0	0	0	0	0	82
Lowland Conifers	0	0	0	0	0	0	0	15	0	0	21	10	0	0	0	0	0	0	46
Lowland Deciduous	0	0	0	0	0	23	0	14	0	0	127	50	46	0	0	0	0	0	259
Lowland Mixed Forest	0	0	0	0	31	0	0	0	0	0	0	2	0	0	0	0	0	0	33
Lowland Shrub	204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204
Marsh	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Mixed Upland Deciduous	0	0	0	0	0	22	7	0	0	0	0	0	7	0	0	0	0	0	36
Natural Mixed Pines	0	0	0	21	0	0	0	0	12	0	0	12	0	0	0	0	0	0	45
Oak	0	0	53	25	20	21	0	0	0	0	0	10	0	0	0	0	0	0	129
Planted Mixed Pines	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Red Pine	0	0	0	0	0	0	0	14	121	0	0	0	0	0	0	0	0	0	135
Upland Mixed Forest	0	0	25	0	0	104	0	12	0	0	0	0	0	0	0	0	0	0	141
Urban	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
White Pine	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Total	510	0	145	292	426	170	7	55	133	9	153	120	81	28	0	0	0	0	2128



Report 2 – Treatment Summary

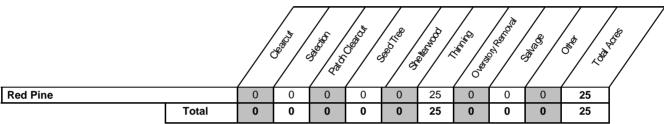
Gladwin Mgt. Unit Year of Entry: 2026

Acres of Harvest

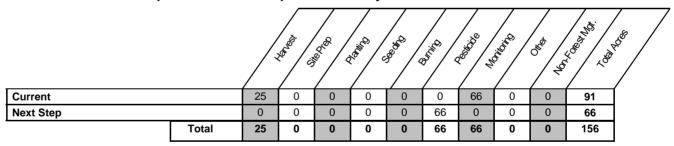
Compartment 13
Total Compartment Acres: 2,125

Commercial Harvest - 25 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Gladwin Mgt. Unit Report 3 -- Treatments Compartment: 13 Year of Entry: 2026 **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat Method Objective Structure Name Density CoverType Age Range Type Cut

Proposed Treatments:

10273013102-Cut25.042110 - PlantedSawtimber70171-HarvestCrown Thinning4211 - PlantedEven-AgedNoRed PineWell200Red Pine

Prescription Thin pine plantation from above down to a 120 BA.

Specs:

S

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Next Step Treatments:

Acceptable

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Approved Treatments:

3873013038-65.6310 - HerbaceousNonstocked0MonitoringArtificial4211 - PlantedEven-AgedNoMonitorOpenlandRegen(3yr)Red Pine

Prescription Specs:

Next Step Pesticide, Skidder - Site Prep

Treatments:

Acceptable Planted Red Pine

Regen:

Other Percent to Treat = 100%

Comment:
Site Condition

Proposed Start Date: 10/1 /2023

Total Treatment 90.6 Acreage Proposed:

Compartment: 13

Gladwin Mgt. Unit

Casey Ownes : Examiner Year of Entry: 2026

Availa	ability for	Managemer	nt								
Total	Acres	Acres Avail	Acres	D	omina	nt Site	e Con	dition	s		
Acres	Available	With Condition	Not Available		2B	2E	5B	5C	2G	2H	3J
396	363	0	33	Aspen					0	33	
25	25	0	0	Bog							
60	5	0	55	Cedar					55		
120	119	0	0	Herbaceous Openland					0		0
231	231	0	0	Jack Pine					0		
82	82	0	0	Lowland Aspen/Balsam Poplar					0		
47	0	0	47	Lowland Conifers					47		
259	16	0	242	Lowland Deciduous					242		0
33	31	0	2	Lowland Mixed Forest					2		
204	204	0	0	Lowland Shrub					0		
128	128	0	0	Marsh							
36	23	7	6	Mixed Upland Deciduous			7		6		
44	21	12	12	Natural Mixed Pines				12	1	11	
130	118	10	1	Oak	10				1		
15	15	0	0	Planted Mixed Pines							
135	124	10	0	Red Pine		10			0		
140	140	0	1	Upland Mixed Forest					1		
0	0	0	0	Urban							
33	33	0	0	Water					0		
9	8	0	1	White Pine					1		
2,125	1,685	39	401	Total Forested Acres	10	10	7	12	357	44	0
<u>-</u>	79%	2%	19%	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.

	Other Si	Other Site Condition	Other Site Condition	Other Site Condition	Acres	Dominant Site Condition	Cond Availability	No.
Unspecified	Uns	Unspecified	Unspecified	Unspecified	32	2G: Too wet (sensitive soils, does not include access issues)	Unavailable	1
							Comments:	C

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2	Unavailable 2G: Too wet (sensitive soils, does not include access issues)				Unspecified	Unspecified	Unspecified
	Comments:						
3	Available	2E: Road needed	10	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
	Comments: Far from Hemlock Anneighbors to the no	Ave, a road will be needed to purth.	unch th	rough to the closed road thro	ough state land. Or the pu	rchaser could acquire perr	mission from the
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	2E: Road needed	Unspecified	Unspecified	Unspecified
	Comments: I could not reach sta	and due to lowlands of stands t	o the w	vest.			
ô	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:	ood plain. Lowland flood plain fo	rest.				

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7	Unavailable	Unavailable 2G: Too wet (sensitive soils, does not include access issues)		2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments: Muskegon River flo	od plain. Lowland flood plain fo	orest.				
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
	Comments: It appears online th	at the stand is surrounded by l	owlands	s on private.			
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	58	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	26	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Surrounded by ope	n waters and marshs					
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: All of these stands	are saturated soils, I recomme	nd not t	rying to treat.			

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12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
_	Comments: Surrounded on all s	ides by wetlands and open wa	ter.				
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
16	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						

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Casey Ownes: Examiner

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18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:	e hardwood/balsam understory	some t	ag alder			
	20W Wot one. Bone	o Harawood/Balballi aliaolotoly	001110 (ag aldor.			
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	To wet for commer	cial harvest. Creek bi-sects star	nd, area	as of marsh grass and tag alde	er.		
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Access concerns d	lue to both terrain and ownershi	p. Pock	ets of very low ground, aspen	all but gone. Overall s	tand is low and wet.	
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments:						

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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				

Gladwin Mgt. Unit Compartment: 13
Year of Entry 2026



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish specton conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from ese conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coop U.S. Fish and Wildlife service for the recovery of threatened and 365, Endangered Species Protection, of the Natural Resources and PA 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two explover Habitat.	endangered species, as governed by Part and Environmental Protection Act, 1994 is an active program, with proposed

Gladwin Mgt. Unit



Stand	Level 4 Co	over Type		Size Dens	sity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
1	42200 - Natu	ral White I	Pine	Sawtimber	Well	9.0	81	111-140	N/A		14 & 24 - Parts of stand are on steep slope leading down to the Green Creek flood plain. Adjacent stand to the east is much higher (elevation)
C	anopy Species	% Cover	Size Class	DBH A	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	than this stand.
Black/I	Red (Hybrid) Oak	10	Log/Pole	12	81		Beech	Low	Variable	Sapling	The stand
	Red Pine	10	Log	11		North	ern Pin Oak	Low	Variable	Sapling	
1	White Pine	80	Log/Pole	10	81	W	hite Pine	Medium	Variable	Sapling	
						Já	ack Pine	Low	Variable	Sapling	
2	6113 - Low	vland Mapl	le I	Poletimber	Poor	6.8	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activit
C	anopy Species	% Cover	Size Class	DBH A	Age						
North	ern White Cedar	10	Pole	7	116						
,	White Pine	10	Pole	7							
	Red Maple	60	Pole	7	116						
	Balsam Fir	10	Pole	7							
	Bur Oak	10	Pole	7							
	12260 - Natural Pin		Deciduous Po	oletimber N		21.2	27	1-50	N/A		Casey Owens 24 - Jack pine, mixed with oak, and white pine. Open areas of just herbaceous cover, no sign of 2007 planting.14 - Final
	anopy Species rthern Pin Oak	25	Sapling	3	-ye						harvest 1997 Green Creek 73-046-96. Decent, patchy natural jack pine
	White Pine	15	Sapling	3							regeneration. FTP # C73-651 - replanted / fill in planting to jack pine 5/16/2007.
	gtooth Aspen	5	Pole	7							
וט	giooiii Aspeii	3	FUIE								
	Jack Pine	55	Pole		27						
	6117 - Lowland D	Deciduous	, Mixed Po	6 oletimber N	/ledium	39.2	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activity
4	6117 - Lowland E Conit anopy Species	Deciduous ferous % Cover	, Mixed Po	6 Detimber N	/ledium	39.2	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activity
4 C:	6117 - Lowland I Conit anopy Species Bur Oak	Deciduous ferous % Cover	, Mixed Po	6 Dletimber N	Medium	39.2	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activi
4 C:	6117 - Lowland I Conit anopy Species Bur Oak Red Maple	Deciduous ferous **Cover 20 35	, Mixed Possize Class Log Log/Pole	DBH A	/ledium	39.2	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activity
4 Ca	6117 - Lowland E Conit anopy Species Bur Oak Red Maple merican Elm	Deciduous ferous **Cover* 20 35 5	, Mixed Po	0	Medium	39.2	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activity
4 Ca	6117 - Lowland E Conit anopy Species Bur Oak Red Maple merican Elm Paper Birch	Deciduous ferous % Cover 20 35 5 10	Size Class Log Log/Pole Log Pole	0	Medium	39.2	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activi
4 Ca	6117 - Lowland E Conif anopy Species Bur Oak Red Maple merican Elm Paper Birch Balsam Fir	Deciduous ferous % Cover 20 35 5 10 15	size Class Log Log/Pole Log Pole Pole	6	Medium	39.2	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activi
4 Ca	6117 - Lowland E Conit anopy Species Bur Oak Red Maple merican Elm Paper Birch Balsam Fir	Deciduous ferous **Cover	size Class Log Log/Pole Log Pole Pole Log/Pole	DBH 7 11 15 7 8 11 11	Medium	39.2	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activi
4 Ca	6117 - Lowland E Conif anopy Species Bur Oak Red Maple merican Elm Paper Birch Balsam Fir	Deciduous ferous % Cover 20 35 5 10 15	size Class Log Log/Pole Log Pole Pole	6	Medium	39.2	116	1-50	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activ
AI AI North	6117 - Lowland E Conit anopy Species Bur Oak Red Maple merican Elm Paper Birch Balsam Fir White Pine ern White Cedar	Deciduous ferous % Cover 20 35 5 10 15 5 10 n, Mixed P	Size Class Log Log/Pole Log Pole Pole Log/Pole	6	Age 1116 Well	10.0	116 37	1-50 81-110	N/A		14 & 24 - Green Creek flood plain. Stand is influenced by beaver activities. Casey Owens 11/2023 Final harvest 1987 Fir Road Six 73-026-87.
4 Ca Al Al North 5 Ca	6117 - Lowland E Conit anopy Species Bur Oak Red Maple merican Elm Paper Birch Balsam Fir White Pine ern White Cedar 4133 - Asper	Deciduous ferous % Cover 20 35 5 10 15 5 10 n, Mixed P	Size Class Log Log/Pole Log Pole Pole Log/Pole Size Class	6 Dletimber N 17 11 15 7 8 11 7 Poletimber DBH / 17 DBH / 18 18 18 18 18 18 18 18	Age 1116 Well						Casey Owens 11/2023
An An Northo	6117 - Lowland E Conit anopy Species Bur Oak Red Maple merican Elm Paper Birch Balsam Fir White Pine ern White Cedar 4133 - Asper anopy Species Jack Pine	Deciduous ferous % Cover	Size Class Log Log/Pole Log Pole Pole Log/Pole Size Class Sapling	6 Dletimber N 17 11 7 15 7 8 11 7 Poletimber DBH A 4 4	Age 1116 Well						Casey Owens 11/2023
4 All All F Northe 5 Ci	6117 - Lowland E Conit anopy Species Bur Oak Red Maple merican Elm Paper Birch Balsam Fir White Pine ern White Cedar 4133 - Asper anopy Species Jack Pine rthern Pin Oak	Deciduous ferous % Cover 20 35 5 10 15 5 10 m, Mixed P % Cover 10 10	Size Class Log Log/Pole Log Pole Pole Log/Pole Size Class Sapling Pole	6	Medium Age 116 Well Age						Casey Owens 11/2023
4 AI AI North The Call North Que	6117 - Lowland E Conit anopy Species Bur Oak Red Maple merican Elm Paper Birch Balsam Fir White Pine ern White Cedar 4133 - Asper anopy Species Jack Pine	Deciduous ferous % Cover	Size Class Log Log/Pole Log Pole Pole Log/Pole Size Class Sapling	6 Dletimber N 17 11 7 15 7 8 11 7 Poletimber DBH # 5 6 6 6 7 7 7 7 7 7 7	Age 1116 Well						Casey Owens 11/2023



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
7	4122 - (Oak, Pine		Sapling	ı Well	27.4	16	51-80	N/A		Casey Owens 11/2023
C	Canopy Species	% Cover	Size Class		Age						Clearcut 2008 Strawberry Station 73-015-06, - All White Pine left, oak seedlings and stump sprots are growing well, They are tall for 15 years of
	White Pine	25	Pole/Sapling								growth.
	White Oak	5	Sapling	1							
	Jack Pine	10	Sapling	1	16						
No	orthern Pin Oak	55	Sapling	1	16						
	Red Pine	5	Sapling	1	16						
8	4125 - Blac	k, N. Pin O	ak F	Poletimb	er Well	19.8	37	141-170	N/A		Clearcutt 1987 Fir Road Six 73-026-87.
(Canopy Species	% Cover	Size Class	DBH	Age						
	White Oak	14	Sapling/Pole	4	37						
Q	Quaking Aspen	25	Pole	6	37						
No	orthern Pin Oak	50	Pole	5	37						
	White Pine	1	Pole	5	37						
	Red Maple	10	Sapling	4	37						
9	4310 - Pir	ne, Oak Mix	C F	Poletimb	er Well	11.5	61	81-110	N/A		14 & 24 - Stand is converting to white pine. Dense white pine growing
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	around standing dead oak. Inclusion of 4 ac aspen clone at west tip of stand that is 25 yrs old.
	White Oak	10	Log	14	94	Bal	sam Fir	Low	Variable	Sapling	
	White Pine	55	Pole/Log	8	61	Black/Red	d (Hybrid) Oa	k Low	< 5 feet	Sapling	
No	orthern Pin Oak	10	Log	14	94	Wh	ite Pine	Medium	Variable	Sapling	
Q	Quaking Aspen	25	Pole	6	35	Jac	ck Pine	Trace	Variable	Sapling	
10	4191 - Mixed Upla Co	and Deciduo onifer	ous with F	Poletimb	er Well	6.8	57	111-140	N/A		14 & 24 - Thinned 1987 Fir Road Six 73-026-87.
(Canopy Species		Size Class		Age						
	White Oak	15	Pole	8	37						
	Quaking Aspen	15	Pole	9	37						
No	orthern Pin Oak	20	Pole	8	37						
	White Pine	30	Log	16	57						
	Red Maple	20	Pole	6	37						
11	4133 - Aspe	en, Mixed P	ine F	Poletimb	er Well	21.0	27	51-80	N/A		Casey Owens 11/2023All aspen, red maple, jack pine and dead oak
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	removed in 1997 Strawberry Station 73-015-06. Decent mix of regeneration has resulted from harvest.
No	orthern Pin Oak	20	XLog/Log	18	93	Northe	rn Pin Oak	Medium	Variable	Sapling	
В	Bigtooth Aspen	40	Pole	6	27	Red	d Maple	Low	Variable	Sapling	
	White Oak White Pine	30	Log/Pole	10	93	Wh	ite Oak	Low	Variable	Sapling Sapling	



Stand	d Level 4 C	over Type		Size [Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	4122 -	Oak, Pine	;	Sapling	Medium	13.5	16	1-50	N/A	14 & 24 - Clearcut 2008 all white pine left. Strawberry Station 73-026-97
	Canopy Species	% Cover	Size Class	DE	BH Age					
	White Oak	10	Sapling	1						
	Northern Pin Oak	55	Sapling	1						
	Jack Pine	15	Sapling	2						
	White Pine	20	Pole	6	40					
13	4130	- Aspen		Poletin	nber Well	10.5	37	81-110	N/A	Casey Owens 11/2023
	Canopy Species	% Cover	Size Class	DE	SH Age					Clearcut 1987 Fir Road Six 73-026-87. Stand is growing well.
	Bigtooth Aspen	60	Pole	8	37					
	White Pine	15	Sapling	4	37					
	Red Maple	10	Sapling	4	37					
	Northern Pin Oak	15	Sapling	4	37					
14	4122 -	Oak, Pine	Po	oletimb	er Mediun	n 7.7	26	1-50	N/A	14 & 24 - Clearcut 1998, Strawberry Oak 73-019-96. All white pine was
	Canopy Species	% Cover	Size Class	DE	SH Age					left. Mixed regeneration.
	White Oak	10	Sapling	4	36					
	White Pine	20	Pole	5						
	Jack Pine	20	Pole	5	36					
	Northern Pin Oak	50	Pole	5	26					
15	4130	- Aspen		Poletim	nber Well	4.5	27	111-140	N/A	Casey Owens 23
	Canopy Species	% Cover	Size Class	DE	BH Age					Overstory removal in 2008, Strawberry Station 73-015-06 14 - All aspen, red maple, jack pine and dead oak removed in 1997.
	Quaking Aspen	75	Pole/Sapling	g 5	27					Decent mix of regeneration has resulted from harvest.
	Red Maple	15	Sapling	3						
	White Oak	5	Sapling	3	27					
	Northern Pin Oak	5	Sapling	3	27					
16	42141 - Planted Dec	Mixed Pine	, Mixed	Sapli	ng Well	15.2	22	51-80	N/A	14 & 24 - Clearcut 1997 Strawberry Oak 73-019-97. Trenched and hand planted to red pine, May 2002.
	Canopy Species	% Cover	Size Class	DE	BH Age					
	Jack Pine	10	Sapling	2	22					
	White Pine	10	Sapling	3						
	Red Pine	50	Sapling	2	22					
	Northern Pin Oak	30	Sapling	2	22					
17	110 - Low I	ntensity Urb	oan	Nons	stocked	0.4	0			Consumers Energy gas well pad.



Stand	Level 4 C	Cover Type		•	Acres	Stand Age	BA Range	Managed S	Site	General Comments	
18	42110 - Pla				er Well	75.0	70	141-170	N/A		Casey Owens 2023Third row thinned in1997. Nice managable plantation, strait workable rows, good established landing sites. Thinned
	nopy Species		Size Class		H Age						to 120 BA Fall of 2017. Twin Silo Pine 73-002-16.
	Red Pine	90	Log/Pole	10	70						
J	Jack Pine	5	Pole	7							
Nortl	hern Pin Oak	5	XLog	21							
19	4122 -	Oak, Pine	S	apling l	Medium	6.0	16	51-80	N/A		Casey Owens 11/2023 Clearcut 2008 Strawberry Station 73-015-06. To release understory. All
Ca	nopy Species	% Cover	Size Class	DBH	H Age						white pine were left. Filling in well, with multiple openings 1/20 to 1/15 of
V	Vhite Oak	15	Sapling/Pole	3	16						an acre in size.
J	Jack Pine	10	Sapling	2	16						
Nortl	hern Pin Oak	50	Sapling/Pole	3	16						
R	Red Maple	5	Sapling	2	16						
ı	Red Pine	5	Sapling	2	16						
V	Vhite Pine	15	Sapling	2	16						
20	6113 - Lo	wland Maple	e P	oletimb	per Well	19.6	94	81-110	N/A		24 - Low wet site. Dense hardwood/balsam understory some tag alder.
Ca	nopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
Qua	aking Aspen	10	Pole	7		Ва	ılsam Fir	Medium	10 - 20 feet	Sapling	
P	aper Birch	10	Pole	6		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	
Bal	Isam Poplar	5	Pole	7		Re	ed Maple	Medium	Variable	Sapling	
В	Balsam Fir	15	Pole/Sapling	5							
R	Red Maple	60	Pole	7	94						
21	4122 -	Oak, Pine		Sapling	g Well	2.0	16	Immature	N/A		Clearcut 2008 Strawberry Station 73-015-06. To release understory. All
Ca	nopy Species	% Cover	Size Class	DBH	H Age						white pine was left.
R	Red Maple	5	Sapling	2	16						
V	Vhite Oak	10	Sapling	2	16						
Qua	aking Aspen	5	Sapling	2	16						
V	Vhite Pine	20	Pole/Sapling	5							
J	Jack Pine	10	Sapling	2	16						
Nortl	hern Pin Oak	50	Sapling	2	16						
22	6120 - Lo	wland Ceda	r P	oletimb	er Well	3.3	117	81-110	N/A		14 & 24 - Creek bisects stand. Some hardwood mixed in.
Ca	nopy Species	% Cover	Size Class	DBH	H Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Red Maple	10	Pole	8			ed Maple	Low	Variable	Sapling	
P	aper Birch	7	Pole	7		Ва	Isam Fir	Low	Variable	Sapling	
Northe	rn White Cedar	63	Pole	8	117						
			D.I.								
V	Vhite Pine	5	Pole	8							



Stand	d Level 4 C	Cover Type		Size Density		Acres	Stand Age E	BA Range	Managed Si	ite	General Comments
23		wland Mapl		Sawtimb		20.3	106	81-110	N/A		Casey Owens 2023 The Muskegon River flood plain.
	Canopy Species		Size Class		Age						-
	Silver Maple Basswood	74 10	XLog Pole	18	106						
	Bur Oak	10		20							
	Beech	6	XLog Pole	6							
24	42121 - Planted	Jack Pine,		Sapling	ı Well	26.2	22	111-140	N/A		14 & 24 - Clearcutt 1997 Strawberry Oak 73-019-19. Trenched and hand
		iduous									planted to jack pine in 2002.
	Canopy Species	% Cover			Age						
	Northern Pin Oak	20	Sapling	3	27						
	White Pine	5	Sapling	2	27						
	Jack Pine	75	Sapling	4	22						
25	42110 - Pla			Sawtimb	er Well	8.1	70	111-140	N/A		Thinned 2008 Strawberry Station 73-015-06. All mixed oak was left. BA at this time is not high enough to warrant thinning.
	Canopy Species	% Cover	Size Class		Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	at this time is not high chough to warrant thinning.
	Red Pine	90	Log/Pole		70		ck Pine	Low	Variable	Sapling	
	Northern Pin Oak	10	Pole/Log	8		Re	ed Pine	Low	Variable	Sapling	
26	4125 - Blac	k, N. Pin O	ak	Sapling I		4.5	16	51-80	N/A		14 & 24 - Clear cut 2008 Strawberry Station, 73-015-06. To release oak and white pine understory.
	Canopy Species	% Cover	Size Class	DBF	Age						and write pine understory.
	Red Maple	10	Sapling	2	16						
	White Oak	10	Sapling	2	16						
	White Pine	15	Sapling	2	16						
	Jack Pine	10	Sapling	2	16						
	Northern Pin Oak	55	Sapling	2	16						
27	42121 - Planted Dec	Jack Pine, iduous	Mixed	Sapling	j Well	22.2	14	111-140	N/A		Casey Owens 2023Clear cut 2008 Strawberry Station 73-015-06. FTP for replanting to jack pine. Planted to jack pine 5/2010, FTP C73-853.
	Canopy Species	% Cover	Size Class	DBH	Age						
	Northern Pin Oak	20	Sapling	3	16						
	Jack Pine	70	Sapling	4	14						
	White Pine	10	Sapling	3	16						
28	629 - Mixed nor	n-forested w	vetland	Nonsto	ocked	47.8			No		14 & 24 - Areas of standing dead timber, marshgrass, tag alder etc Stand is influenced by beaver. Green Creek flood plain.
29	42121 - Planted Dec	Jack Pine, iduous	Mixed	Saplino	j Well	59.8	22	51-80	N/A		14 & 24 - Clear cut 2002 Jack Pine Complex 73-040-96. Trenched and seeded to jack pine Oct. 2002.
	Canopy Species		Size Class		Age						
	Northern Pin Oak	20	Sapling/Pol		22						
	Jack Pine	80	Sapling/Pol	le 4	22						



Stand	and Level 4 Cover Type			Size Density		Acres	Stand Age B	A Range	Managed 9	Site	General Comments
30	6130 - Fir, <i>i</i>	' '			er Well	2.0	106	141-170	N/A		Casey Owens 2023Steep hillside leading to the Muskegon River flood plain.
	Canopy Species		Size Class		l Age						P.S.
	Hemlock	10	Pole/Sapling								
	Bigtooth Aspen	20	Log	11							
	Red Maple	20	Pole	8	106						
Noi	rthern White Cedar	15	Sapling	4							
	Balsam Fir	25	Pole	6	106						
Blac	ck/Red (Hybrid) Oak	10	Sapling	4							
31	4191 - Mixed Upla Co	and Decidu onifer	ous with F	Poletimb	er Well	22.3	40	1-50	N/A		Casey Owens 24 A lot of old overstory oak decline. Rest of stand in good condition.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	2014 Overstony eak has been on the dealing for at least 15 yrs
١	Northern Pin Oak	25	Pole	5	35		ed Maple	Medium	5 - 10 feet	Sapling	2014 - Overstory oak has been on the decline for at least 15 yrs Advanced oak, red maple and aspen regeneration up to 25' tall.
	White Pine	15	Pole	5		Black/Re	d (Hybrid) Oak	Low	5 - 10 feet	Sapling	Harvesting the sparse poor quality oak would destroy the decent
	Red Pine	5	Sapling/Pole	4			nite Pine	Low	Variable	Sapling	regeneration that is place. Drainage within stand which contains dense
	Jack Pine	10	Pole	5				1	I.		ash and red maple whips.
	Red Maple	25	Pole	5	40						
	Quaking Aspen	15	Pole	6							
	Canopy Species	iferous % Cover	Size Class	DRI	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	55	Pole/Log	8	94		ed Maple	Low	Variable	Sapling	
	Paper Birch	10	Pole	6			Isam Fir	Low	Variable	Sapling	
	Quaking Aspen	8	Pole	6			ag Alder	Low	5 - 10 feet	Tall Shrub	
	Balsam Fir	10	Pole/Sapling	5							
	Northern Pin Oak	5	Pole/Log	8	94						
Noi	rthern White Cedar	7	Pole	6							
	White Pine	5	Pole/Log	8							
33	4191 - Mixed Upla Co	and Decidu onifer	ous with	Sawtimb	er Well	6.8	115	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	15	Pole/Log	9		Ва	lsam Fir	Low	Variable	Sapling	
	Red Maple	25	Pole	8		Re	ed Maple	Low	Variable	Sapling	
	White Oak	5	Log	16							-
	White Pine	30	Log	11	115						
Blac	ck/Red (Hybrid) Oak	25	Log	16							
34	000	5 - Bog		Nonsto	- alea -!	1.7			No		



Stand	Level 4 Cover Type		\$	Size De	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
35	6225	- Bog		Nonst	ocked	3.9			No		
36	42121 - Planted Decid	Jack Pine, duous	, Mixed	Saplin	g Well	12.4	22	Immature	N/A		14 & 24 - Clear cut 1997 Strawberry Oak 73-019-97. Trenched and hand planted to jack pine in 2002.
١	Canopy Species Northern Pin Oak Jack Pine White Pine	% Cover 30 60 10	Size Class Sapling Sapling Sapling/Pole	4 4 4 4	22 22 22						
37	310 - Herbace	eous Open	ıland	Nonst	ocked	9.4	0	Immature	No		14 & 24 - Cut Fall 2017 Twin Silo Pine 73-002-16. Scattered Oak left for retention.
38	310 - Herbace	eous Open	ıland	Nonsto	ocked	66.3	0		No		Clear cut spring 2019 Twin Silo Pine 73-002-16. Scattered large oaks left as retention. Stand was trenched in the spring of 2020. Stand sprayed with helicopter in summer of 2021. Stand planted May 2022, 928 TPA of red pine. Year 1 regen survey conducted September 2022. Data shows 864 TPA of red pine & 94% FTG.
39	4125 - Black	k, N. Pin O	oak Pol	etimbe	r Medium	10.4	102	81-110	N/A		14 & 24 - Stand varies. Access is limited from all directions.
40		Aspen			er Well	58.1	37	81-110	N/A		14 & 24 - Clear cut 1987 Fir Road Six 73-026-87. Several scattered wet marshy areas. Growth and sizes very throughout the stand.
	Canopy Species Red Maple Quaking Aspen Bigtooth Aspen White Pine	10 35 30 10	Size Class Sapling Pole Pole Sapling/Pole	4 5 5 3	37 37 37 37 37						
١	Jack Pine Northern Pin Oak	5 10	Sapling/Pole Sapling/Pole	3	37 37						
41	42110 - Plan				er Well	13.8	65	81-110	N/A		Casey Owens 24 Short pine of variable size, and BA. Last harvest all white pine and some
	Canopy Species		Size Class		l Age		nopy Specie		Avg. Height	Size	oak left.
	Black Oak Red Pine	5	XLog Pole	20	89		hite Oak	Low	Variable Variable	Sapling	14 - Red pine planted in understory in 1959. Red pine is reaching pole
	Reu Piñe	95	Pole	9	65		ed Maple ed Pine	Low	variable 5 - 10 feet	Sapling Sapling	size. Cut Spring of 2019. Twin Silo Pines 73-002-16. Thinned to 50 BA.
							ick Pine	Low	Variable	Sapling	
							Isam Fir	Low	Variable	Sapling	
							ack Oak	High	< 5 feet	Sapling	
							ck Cherry	Low	Variable	Sapling	
							nite Pine	Medium	Variable	Sapling	
42	629 - Mixed non-	-forested v	vetland	Nonst	ocked	17.5			No	. 0	



Stand	I Level 4 C	over Type		Size De	nsity	Acres	Stand Ag	e BA Range	Managed Site	General Comments
43	4310 - Pi	ne, Oak Mix	κ	Sapling	Well	24.7	16	81-110	N/A	Casey Owens 2023
	Canopy Species	% Cover	Size Class	DBH	Age					Oak is dense as well as jack pine, growth is going well for 15 years old.
1	Northern Pin Oak	34	Sapling	3	16					Clear cut 2008 Strawberry Station releasing oak and jack pine
	White Pine	7	Log	12						understory. Stand drops off at west end. Red pine planted along road in
	Bigtooth Aspen	2	Pole	6						1959.
	Jack Pine	31	Sapling	4	16					
	White Oak	5	Sapling	4	16					
	Red Pine	9	Log	11	16					
	Black Cherry	4	Sapling	2						
	Balsam Fir	8	Pole	6						
44	4139 - Aspen,	Mixed Deci	duous	Poletimb		10.7	35	81-110	N/A	Casey Owens 2023Clear cut 1989 Fir Road Six 73-026-87.
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Maple	26	Sapling	4	35					
	Quaking Aspen	50	Pole	6	35					
	Jack Pine	4	Pole/Log	8						
	Red Pine	2	Log	12						
	Black Cherry	6	Sapling	4						
Bla	ck/Red (Hybrid) Oak	12	Sapling	4	35					
45	6225	5 - Bog		Nonsto	cked	0.5			No	
46	6119 - Mixed Lowla	and Deciduo	ous Forest	Poletimb	er Well	13.5	69	111-140	N/A	14 - Low and wet scattered aspen pockets most of this aspen is very poor. Stand has some upland pockets with oak, birch, aspen and cherry. Access issues.
47	6225	5 - Bog		Nonsto	cked	3.1			No	
48	629 - Mixed nor	n-forested v	sted wetland Nonstocked		69.3			No	14 & 24 - Areas of standing water, standing dead timber. Beaver have impact on this ever changing stand. Un-named creek bisects stand.	
49	3102 - Grass Nonstocked			cked	18.4		Immature	No		



Stan	,			Size D	ensity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
50		Deciduous, iferous	Mixed F	Poletim	ber Well	43.4	99	81-110	N/A		Casey 24 - Access concerns due to both terrain and ownership. Pockets of very low ground, aspen all but gone. Overall stand is low and wet.
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	10	Pole/Log	8		Re	ed Maple	Medium	Variable	Sapling	
	Quaking Aspen	5	Pole	7		Ва	alsam Fir	Low	Variable	Sapling	
	Red Maple	55	Pole/Log	8	99	W	hite Pine	Low	Variable	Sapling	
	Balsam Fir	25	Pole	6		T	ag Alder	Low	5 - 10 feet	Tall Shrub	
No	orthern White Cedar	5	Pole	7							
51	4122 -	Oak, Pine	F	Poletim	ber Well	21.4	47	81-110	N/A		14 & 24 - Clear cut 1977.
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Oak	10	Pole/Sapling	5	47	W	hite Pine	Low	Variable	Sapling	
	Northern Pin Oak	60	Pole	8	47	Ja	ack Pine	Low	Variable	Sapling	
	White Pine	10	Pole/Sapling								
	Jack Pine	20	Pole/Sapling	5	47						
52	4122 -	Oak, Pine		Saplir	ng Well	16.9	27	Immature	N/A		14 & 24 - Clear cut 1997 Johbson Road 73-047-96. Good oak stump
	Canopy Species	% Cover	Size Class	DB	H Age						sprouts.
	White Oak	5	Sapling	3	27						
	White Pine	10	Sapling	3	27						
	Jack Pine	25	Sapling	4							
	Northern Pin Oak	60	Sapling	3	27						
53	6119 - Mixed Lowla	and Deciduo	ous Forest S	Sawtim	ber Well	4.9	106	51-80	N/A		14 & 24 - In the Muskegon River flood plain. Lowland flood plain forest.
54	629 - Mixed no	n-forested v	vetland	Nons	tocked	3.8		Immature	No		
55	4139 - Aspen,	Mixed Deci	duous S	Sawtim	ber Well	7.5	109		N/A		14 & 24 - Access concerns. Island of timber surrounded by private ownership and low wet ground.
56	3102	- Grass		Nons	tocked	9.5			No		14 & 24 - Jack, and red pine along with Aspen filling in stand manage with neighboring stands.
57	4139 - Aspen,	Mixed Deci	duous S	Sawtim	ber Well	3.3	109		N/A		14 & 24 - Access concerns. Island of timber surrounded by private ownership and low wet ground.
58	6120 - Lo	wland Ceda	ar F	Poletim	iber Well	24.2	117		N/A		14 & 24 - Surrounded by private ownership and low wet ground.



Stan	d Level 4 C	over Type		Size Density	Acres	Stand Age I	BA Range	Managed S	Site	General Comments
59	42110 - Pla		ine Size Class	Sawtimber Well DBH Age	10.1	70	171-200	N/A		Casey Owens 2023 Small crowns, suppressed, dense, and dying off in some areas.
	Red Pine	100	Log/Pole	10 70						2013 - Good quality plantation red pine. Has not yet been thinned. Good strait rows. Remove every third row. It appears that a few of the northern most rows are on private property. The only access is across private property. Corners are in for running private line.
60	42290 - Natu	ıral Mixed F	Pine	Poletimber Well	11.5	79	141-170	N/A		Surrounded by low wet ground. Natural mixed pine stand.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	
	White Pine	20	Pole/Log	8	W	hite Pine	Medium	Variable	Sapling	
	Red Pine	55	Pole/Log	8 79	North	ern Pin Oak	Low	Variable	Sapling	
	Red Maple	10	Pole/Log	8	R	ed Maple	Low	Variable	Sapling	
	Northern Pin Oak	5	Pole/Log	8			'			•
	Jack Pine	10	Pole	7						
61	6123 - L	owland Fir		Poletimber Well	13.2	60	81-110	N/A		14 & 24 - Access is limited due to both ownership and terrain. Low wet
	Canopy Species	% Cover	Size Class	DBH Age						site.
E	Eastern Red Cedar	20	Log	10						
	Red Maple	10	Pole	6						
	Balsam Fir	70	Pole	6 60						
62	500 -	- Water		Nonstocked	29.8			No		
63	6229 - Mixed	I lowland sh	nrub	Nonstocked	3.3			No		
64	6239 - Mixed E	mergent W	etland	Nonstocked	41.0			No		
65	6123 - L	owland Fir		Poletimber Well	2.1	60	81-110	N/A		14 & 24 - Access is limited due to both private ownership and terrain, low
	Canopy Species	% Cover	Size Class	DBH Age						wet soil
	Balsam Fir	70	Pole	6 60						
	Red Maple	10	Pole	6						
	Eastern Red Cedar	20	Log	10						
66	6123 - L	owland Fir		Poletimber Well	15.1	96	81-110	N/A		14 & 24 - Lowland harwood. Good wildlife stand. Stand is fairly wet and
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	access is difficult. Stand is surrounded by marsh, lowland timber types and private land.
	Balsam Poplar	10	Pole	8	R	ed Maple	Low	Variable	Sapling	
	Balsam Fir	60	Pole	8 96	Ва	alsam Fir	High	Variable	Sapling	
	Red Maple	10	Pole/Log	8 96	Т	ag Alder	Low	5 - 10 feet	Tall Shrub	
	Red Pine	10	Pole/Log	9			,		•	•
	White Pine	10	Pole/Log	9						

Gladwin Mgt. Unit



Stand	Level 4 Co	ver Type	;	Size Density Acres Stand Age BA Range Managed Site G		General Comments					
67	4311 - Pine	, Aspen M	lix P	oletimb	er Well	104.0	49	111-140	N/A		Casey Owens 2023Upland stand with some lowland areas. Natural red,
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	white, and jack pine areas. Clear cut 1975. Stand is variable scattered pockets of R6/W6/J6. Most of stand is upland.
	Red Pine	20	Log	16		Northe	ern Pin Oak	Low	Variable	Sapling	pooreto of 10,700,000. Most of stalla to aplana.
	Jack Pine	10	Log/Pole	11		Wh	nite Pine	Low	Variable	Sapling	
Black	k/Red (Hybrid) Oak	5	Pole	8		Мар	ole (spp.)	Low	Variable	Sapling	
	Red Maple	20	Log/Pole	10		Aspe	en (spp.)	High	Variable	Sapling	
	White Pine	20	Log	15		Re	ed Pine	Low	Variable	Sapling	
C	Quaking Aspen	25	Pole	9	49	Jac	ck Pine	Low	Variable	Sapling	
68	4139 - Aspen, N	/lixed Deci	duous S	Sawtimbo	er Well	25.5	109		N/A		14 & 24 - Access concerns. Island of timber surrounded by private ownership and low wet ground.
69	6239 - Mixed En	nergent W	etland	Nonsto	cked	29.8			No		
				\ d ¹ l-							44.9.24 In the Musicoren Diverticed plain Leudand flood plain forces
70	6119 - Mixed Lowlar	nd Deciduo	ous Forest S	awtimbe	er Well	11.6	106	51-80	N/A		14 & 24 - In the Muskegon River flood plain. Lowland flood plain forest.
		nd Deciduo	ous Forest S	Nonsto		6.6	106	51-80	N/A No		14 & 24 - In the Muskegon River nood plain. Lowland nood plain forest.
70 ⁹ 71 72	3102 -				cked		36	51-80 81-110			Casey Owens 2023
71	3102 -	· Grass spen, Oak		Nonsto	cked	6.6			No	Size	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher
71 72	3102 - 4131 - As	· Grass spen, Oak	P	Nonsto	cked er Well	6.6 12.2 Sub-Ca r	36	81-110	No N/A	Size Sapling	Casey Owens 2023
71 72	3102 - 4131 - As Canopy Species	· Grass spen, Oak % Cover	P Size Class	Nonsto Poletimbe DBH	cked er Well	6.6 12.2 Sub-Car	36 nopy Species	81-110 Density Low	No N/A Avg. Height		Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher
71 72 (Black	3102 - 4131 - As Canopy Species c/Red (Hybrid) Oak	Grass spen, Oak Cover	Fize Class Pole	Nonsto Poletimbe	cked er Well Age 36	6.6 12.2 Sub-Car Rec Black/Rec	36 nopy Species d Maple	81-110 Density Low	No N/A Avg. Height Variable	Sapling	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher aspen to the south.
71 72 (Black	3102 - 4131 - As Canopy Species White Pine	Grass spen, Oak Cover 35 5	Size Class Pole Pole/Sapling	Nonsto	cked er Well Age 36 36	6.6 12.2 Sub-Car Rec Black/Rec	36 nopy Species d Maple d (Hybrid) Oak	81-110 Density Low Medium	No N/A Avg. Height Variable Variable	Sapling Sapling	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher aspen to the south.
71 72 (Black	3102 - 4131 - As Canopy Species x/Red (Hybrid) Oak White Pine Quaking Aspen	Grass Spen, Oak **Cover 35 5 50 10	Size Class Pole Pole/Sapling Pole Pole/Sapling	Nonsto Poletimbe DBH 6 5 7	er Well Age 36 36 36 36	6.6 12.2 Sub-Car Rec Black/Rec	36 nopy Species d Maple d (Hybrid) Oak	81-110 Density Low Medium	No N/A Avg. Height Variable Variable	Sapling Sapling	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher aspen to the south. Clear cut 1988, Green Creek 14 & 24 - Variable stand. Mostly low wet ground with small narrow ridges
71 72 Black	3102 - 4131 - As Canopy Species k/Red (Hybrid) Oak White Pine Quaking Aspen Red Maple	Grass Spen, Oak Cover 35 5 10 Vland Mapl	Size Class Pole Pole/Sapling Pole Pole/Sapling	Poletimber 5 7 5	er Well Age 36 36 36 36	6.6 12.2 Sub-Car Rec Black/Rec Wh	36 nopy Species d Maple d (Hybrid) Oak nite Pine	81-110 Density Low Medium Low	No N/A Avg. Height Variable Variable Variable	Sapling Sapling	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher aspen to the south. Clear cut 1988, Green Creek 14 & 24 - Variable stand. Mostly low wet ground with small narrow ridges of semi upland ground. Access is a concern. Scattered white pine and
71 72 6 8lack	3102 - 4131 - As Canopy Species (/Red (Hybrid) Oak White Pine Quaking Aspen Red Maple 6113 - Low	Grass Spen, Oak Cover 35 5 10 Vland Mapl	Pole Pole/Sapling Pole Pole/Sapling	Poletimber 5 7 5	cked er Well Age 36 36 36 36 36 er Well	6.6 12.2 Sub-Car Rec Black/Rec Wh 22.5 Sub-Car	36 nopy Species d Maple d (Hybrid) Oak nite Pine	81-110 Density Low Medium Low 81-110	No N/A Avg. Height Variable Variable Variable	Sapling Sapling Sapling	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher aspen to the south. Clear cut 1988, Green Creek 14 & 24 - Variable stand. Mostly low wet ground with small narrow ridge of semi upland ground. Access is a concern. Scattered white pine and red pine sawogs, scattered aspen clones, red maple poles, oak regen is also present from saps to poles. I do not beleive the stand would
71 72 Black	3102 - 4131 - As Canopy Species	Grass Spen, Oak Cover 35 50 10 Mand Mapl	Fole Pole/Sapling Pole Pole/Sapling Pole Sapling Pole Sapling Pole Sapling	Nonsto Poletimbe BH 6 5 7 5 Poletimbe DBH	cked er Well Age 36 36 36 36 36 er Well	6.6 12.2 Sub-Car Rec Wh 22.5 Sub-Car	36 nopy Species d Maple d (Hybrid) Oak nite Pine 40 nopy Species	81-110 Density Low Medium Low 81-110 Density	No N/A Avg. Height Variable Variable Variable N/A Avg. Height	Sapling Sapling Sapling	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher aspen to the south. Clear cut 1988, Green Creek 14 & 24 - Variable stand. Mostly low wet ground with small narrow ridge of semi upland ground. Access is a concern. Scattered white pine and red pine sawogs, scattered aspen clones, red maple poles, oak regen is also present from saps to poles. I do not beleive the stand would regenerate well if clear cut, pretty wet soils and aspen clones are to few
71 72 Black	3102 - 4131 - As Canopy Species K/Red (Hybrid) Oak White Pine Quaking Aspen Red Maple 6113 - Low Canopy Species orthern Pin Oak	Grass Spen, Oak Cover 35 50 10 Vland Mapl Cover 5	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Bize Class Log/Pole	Poletimber 6 5 7 5 Poletimber DBH 10	cked er Well Age 36 36 36 36 36 er Well	6.6 12.2 Sub-Car Rec Wh 22.5 Sub-Car Rec Quaki	36 nopy Species d Maple d (Hybrid) Oak nite Pine 40 nopy Species d Maple	81-110 Density Low Medium Low 81-110 Density Medium	No N/A Avg. Height Variable Variable Variable N/A Avg. Height Variable	Sapling Sapling Sapling Sapling Sapling	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher aspen to the south. Clear cut 1988, Green Creek 14 & 24 - Variable stand. Mostly low wet ground with small narrow ridger of semi upland ground. Access is a concern. Scattered white pine and red pine sawogs, scattered aspen clones, red maple poles, oak regen is also present from saps to poles. I do not believe the stand would regenerate well if clear cut, pretty wet soils and aspen clones are to few and to small. No treatment lots good things happening within the stand
71 72 Black	3102 - 4131 - As Canopy Species K/Red (Hybrid) Oak White Pine Quaking Aspen Red Maple 6113 - Low Canopy Species orthern Pin Oak White Pine	Grass Spen, Oak Cover 35 50 10 Vland Mapl Cover 5 5	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Bize Class Log/Pole Log/Pole	Poletimbe 6 5 7 5 Poletimbe DBH 10 10	cked er Well Age 36 36 36 36 36 er Well	6.6 12.2 Sub-Car Rec Wh 22.5 Sub-Car Rec Quaki	36 nopy Species d Maple d (Hybrid) Oak nite Pine 40 nopy Species d Maple ting Aspen	81-110 Density Low Medium Low 81-110 Density Medium Low	No N/A Avg. Height Variable Variable Variable N/A Avg. Height Variable Variable	Sapling Sapling Sapling Size Sapling Sapling	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher aspen to the south. Clear cut 1988, Green Creek 14 & 24 - Variable stand. Mostly low wet ground with small narrow ridge of semi upland ground. Access is a concern. Scattered white pine and red pine sawogs, scattered aspen clones, red maple poles, oak regen is also present from saps to poles. I do not beleive the stand would regenerate well if clear cut, pretty wet soils and aspen clones are to few
71 72 6 8lack 73 0 No	3102 - 4131 - As Canopy Species (Red (Hybrid) Oak White Pine Quaking Aspen Red Maple 6113 - Low Canopy Species orthern Pin Oak White Pine Balsam Fir	Grass Spen, Oak Cover 35 50 10 Mand Mapl Cover 5 5 5 5 5 5 5 5 5 5 5 5 5	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Bole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling	Poletimber 6 5 7 5 Poletimber 10 10 6	cked er Well Age 36 36 36 36 36 er Well	6.6 12.2 Sub-Car Rec Wh 22.5 Sub-Car Rec Quaki	36 nopy Species d Maple d (Hybrid) Oak nite Pine 40 nopy Species d Maple ting Aspen	81-110 Density Low Medium Low 81-110 Density Medium Low	No N/A Avg. Height Variable Variable Variable N/A Avg. Height Variable Variable	Sapling Sapling Sapling Size Sapling Sapling	Casey Owens 2023 Dense to the northern half and pine to the northwest and slightly higher aspen to the south. Clear cut 1988, Green Creek 14 & 24 - Variable stand. Mostly low wet ground with small narrow ridges of semi upland ground. Access is a concern. Scattered white pine and red pine sawogs, scattered aspen clones, red maple poles, oak regen is also present from saps to poles. I do not believe the stand would regenerate well if clear cut, pretty wet soils and aspen clones are to few and to small. No treatment lots good things happening within the stand



Stand	d Level 4 C	over Type	;	Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
74	6130 - Fir,	Aspen, Map	ole P	Poletimb	er Well	18.7	36	111-140	N/A		Casey 24 - Clearcut 1988 73-025-88. Low saturated soils with a small 2-
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	acre area of upland
	Red Maple	35	Pole/Sapling	5	36	Bal	sam Fir	Medium	Variable	Sapling	
	Bigtooth Aspen	20	Pole	7	36						-
	Balsam Fir	35	Pole	6							
	Jack Pine	10	Pole	8							
75	6225	5 - Bog		Nonsto	cked	2.9			No		
76	6127 - Lo	owland Pine	· S	Sawtimb	er Well	6.0	90	81-110	N/A		Casey Owens 24
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Low land stand with hard access with private on the East, West, and South.
	Red Maple	10	Pole	7			sam Fir	Low	Variable	Sapling	
	White Pine	20	Log/Pole	10							red maple mixed in. Natural stand with some larger diameter red pine.
	Red Pine	30	Log	13	90						
	Quaking Aspen	10	Pole	7							
	Jack Pine	30	Log	10							
77		iferous		Sawtimb		31.1	92	81-110	N/A		Casey 24 - True swamp hardwood stand, areas of standing water. Stand is a drainage. Wet mucky soils.
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	
	Jack Pine	10	Pole	7			g Alder	Low	5 - 10 feet	Tall Shrub	
	Paper Birch	10	Pole	7			ite Pine	Low	Variable	Sapling	
	Red Maple	55	Log/Pole	10	92		sam Fir	Low	Variable	Sapling	
	Red Pine	10	Log/Pole	10		Re	d Maple	Medium	Variable	Sapling	
	White Pine	15	Log/Pole	10							
78	42220 - Nat		ine P	Poletimb		95.1	34	51-80	N/A		Casey Owens 2023Dense Jack pine, with pockets of aspen, and red maplesClear cut 1990, Pipeline Pine. Excellent mix of natural
	Canopy Species White Pine	15	Sapling/Pole		34						regeneration. Areas of aspen, red maple, oak and white pine
	Jack Pine	60	Pole	6	34						regeneration.
	Red Maple	10	Sapling/Pole		34						
	Quaking Aspen	10	Pole	6	34						
	Northern Pin Oak	5	Sapling/Pole		34						
	I VOILIIGIII I III Oak	3	Capiling/i Ole	7	54						
79	6229 - Mixed	d lowland sh	nrub	Nonsto	ocked	20.4			No		14 & 24 - Green Creek flood plain. Creek bi-sects stand. Beaver have big influence on this stand. Very wet ground. Stand is in a valley with areas of steep slopes. Several beaver dams within stand. Areas of marsh grass and standing water.



Stand	d Level 4 C	Cover Type	Size Density		Acres	Stand Age	BA Range	Managed S	ite	General Comments	
80	6126 - Lowl			Poletimb		11.7	34	1-50	N/A		Casey Owens 2023 Jack pine lowland
	Canopy Species	% Cover	Size Class	DBI	H Age						dack pine lowaria
	Jack Pine	70	Pole	6	34						
	Red Maple	10	Sapling/Pol		34						
<u> </u>	White Pine	20	Sapling/Pol	le 4	34						
81	3102	- Grass		Nonst	ocked	7.9			No		
82	4130	- Aspen		Poletim	oer Well	5.3	29		N/A		24 - Clear cut 1997 Cranberry Hemlock 73-034-97.
	Canopy Species	% Cover	Size Class	DBI	-l Age						
	Bigtooth Aspen	50	Pole	5	29						
	Northern Pin Oak	10	Sapling	4	29						
	White Pine	5	Sapling	4	29						
	Red Maple	10	Pole	5	29						
	Quaking Aspen	25	Pole	5	29						
83	6112 - Lo	wland Aspe	en	Poletim		65.0	37	51-80	N/A		Casey Owens 24good stand many areas are low full of tag alder and paper birch. With some upland pockets. Clear cut 1987. Excellent
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	regeneration. Mix of aspen, red maple, oak and white pine. Several small
	Red Maple	10	Pole	5	37	Re	d Maple	Low	Variable	Sapling	scattered lowland brush pockets.
	Paper Birch	5	Sapling	2		Wh	nite Pine	Low	Variable	Sapling	
	Quaking Aspen	50	Pole	7	37	Northe	ern Pin Oak	Low	Variable	Sapling	
	Northern Pin Oak	10	Pole	6	37	Ва	Isam Fir	Medium	Variable	Sapling	
	White Pine	5	Sapling	4	37	Ta	ag Alder	Medium	5 - 10 feet	Tall Shrub	
	Bigtooth Aspen	20	Pole	7	37						
84	4130	- Aspen		Poletim	oer Well	16.7	29	81-110	N/A		Clear cut 1995.
	Canopy Species	% Cover	Size Class	DBI	H Age						
	Red Maple	10	Sapling	4	29						
	Bigtooth Aspen	55	Pole	5	29						
	Quaking Aspen	25	Pole	5	29						
	Northern Pin Oak	5	Sapling	4	29						
	White Pine	5	Sapling	4	29						
85	3102	- Grass		Nonst	ocked	1.6			No		14 - natural grassy opening
86	6239 - Mixed E	mergent W	etland	Nonst	ocked	25.7			No		
87	7 6229 - Mixed lowland shrub		Nonst	ocked	23.9			No			



Stand	d Level 4 Cover Type			Size Density A			Stand Age BA Range		Managed S	Site	General Comments	
88	6220 - A	Alder/willow		Nonsto	cked	3.3			No			
89	6126 - Lowl	and Jack P	ine	Sapling	Poor	3.7	22		N/A		Casey Owens 24Jackpine bog	
	Canopy Species	% Cover	Size Class	DBH	Age							
	Jack Pine	100	Sapling/Pole									
90	42290 - Natu	ural Mixed F	Pine F	Poletimb	er Well	11.7	100	141-170	N/A		24 - Some large timber mixed with smaller timber, with a good pine	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	understory.	
	Red Oak	10	XLog	20		WI	nite Pine	Medium	Variable	Sapling		
	Red Pine	10	Log	17		R	ed Pine	Medium	Variable	Sapling		
	Jack Pine	30	Pole	8		Ja	ick Pine	Low	Variable	Sapling		
	Red Maple	10	Log	13		Re	ed Maple	Low	Variable	Sapling		
	White Pine	40	Log	15	100			1				
91	500 -	- Water		Nonsto	cked	3.1	0		No		MUSKEGON RIVER	
92		- Aspen		Poletimb		52.2	36	141-170	N/A		Clear cut 1988.	
	Canopy Species	% Cover	Size Class	DBH	Age							
	Northern Pin Oak	5	Sapling	4	36							
	Bigtooth Aspen	60	Pole	7	36							
	White Pine	5	Sapling	4	36							
	Quaking Aspen	20	Pole	7	36							
	Jack Pine	5	Sapling	4	36							
	Red Maple	5	Pole	5	36							
93	6120 - Lo	wland Ceda	ar F	Poletimb	er Well	28.1	124		N/A		14 & 24 - Stand varies pockets of hardwood, balsam fir, and dead standing timber. Some blow-down mainly along edges. Mucky soil,	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	standing water.	
	Balsam Fir	30	Pole/Sapling			Ta	ag Alder	Low	5 - 10 feet	Tall Shrub		
No	rthern White Cedar	70	Pole	7	124	Re	ed Maple	Low	Variable	Sapling		
140						Ва	lsam Fir	Low	Variable	Sapling		
140									NI/A		Clear aut 4005	
		- Aspen		Poletimb		15.0	29	111-140	N/A		Clear cut 1995.	
94	Canopy Species	% Cover	Size Class	DBH	Age	15.0	29	111-140	N/A		Clear cut 1995.	
94	Canopy Species Bigtooth Aspen	% Cover 60	Size Class Pole	DBH	Age 29	15.0	29	111-140	IV/A		Clear cut 1995.	
94	Canopy Species Bigtooth Aspen Red Maple	% Cover 60 10	Size Class Pole Sapling	DBH 5 4	29 29	15.0	29	111-140	N/A		Clear cut 1995.	
94	Canopy Species Bigtooth Aspen Red Maple White Pine	% Cover 60 10 5	Size Class Pole Sapling Sapling	5 4 4	29 29 29	15.0	29	111-140	N/A		Clear cut 1995.	
94	Canopy Species Bigtooth Aspen Red Maple	% Cover 60 10	Size Class Pole Sapling	DBH 5 4	29 29	15.0	29	111-140	N/A		Clear cut 1995.	



Stand	Level 4 C	over Type		Size Density		Acres	Stand Age	BA Range	Managed S	Site	General Comments
95	6129 - Mixed Conif	erous Lowla	and Forest	Poletimb	er Well	10.2	106	141-170	N/A		Casey Owens 2023
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	Steep hillside, saturated soils, along the Muskegon River flood plain.
	Red Maple	8	Pole/Log	8	106	Н	lemlock	Low	5 - 10 feet	Sapling	
	Balsam Fir	40	Pole	7	106	Ba	ılsam Fir	Medium	Variable	Sapling	
	White Pine	29	XLog	18		Norther	n White Ceda	r Low	5 - 10 feet	Sapling	
No	rthern White Cedar	15	Pole	7		W	hite Pine	Trace	Variable	Sapling	
	Hemlock	8	Pole	6							
96	4136 - Asper	n, Mixed Co	nifer	Sapling	g Well	17.0	27	Immature	N/A		14 & 24 - Clear cut 1997. Balsam fir at north end.
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Balsam Fir	15	Sapling	4	27						
	White Pine	5	Sapling	4	27						
	Bigtooth Aspen	50	Sapling	4	27						
1	Northern Pin Oak	5	Sapling	4	27						
	Quaking Aspen	20	Sapling	4	27						
	Red Maple	5	Sapling	4	27						
97	4130	- Aspen		Sapling	g Well	18.6	16	Immature	N/A		Clear cut 2008.
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Quaking Aspen	20	Sapling	3	16						
1	Northern Pin Oak	5	Sapling	2	16						
	White Pine	5	Sapling	2	16						
	Bigtooth Aspen	60	Sapling	3	16						
	Red Maple	10	Sapling	3	16						
98	6239 - Mixed E	mergent W	etland	Nonsto	ocked	31.0			No		
99	6112 - Lo	wland Aspe	n	Poletimb	er Well	7.9	36	81-110	N/A		Casey OwensLowland stand with some standing water.Clear cut
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	1988 during McKinney- 61 Plantation 73-028-87
	Paper Birch	8	Pole	7		North	ern Pin Oak	Low	Variable	Sapling	
	Red Maple	12	Pole	6	36	Ta	ag Alder	Medium	5 - 10 feet	Tall Shrub	
	Quaking Aspen	72	Pole	8	36						
1	Northern Pin Oak	2	Pole	6	36						
	Black Cherry	6	Pole	8	36						



Compartment: 13

Year of Entry: 2026

Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
100	4130) - Aspen Sa		Sapling	g Well	26.1	16	mmature	N/A		24 - Clear cut 2008 Take It Easy Aspen 73-013-06
С	anopy Species	% Cover	Size Class	DBH	l Age						
	Red Maple	10	Sapling	2	16						
Bi	gtooth Aspen	60	Sapling	2	16						
Qı	uaking Aspen	20	Sapling	2	16						
No	rthern Pin Oak	5	Sapling	1	16						
1	White Pine	5	Sapling	1	16						
101	101 622		25 - Bog		Nonstocked		12.6 In	mmature	No		
102	102 42110 - Pla		anted Red Pine		Sawtimber Well		70	171-200	N/A		14 & 24 - First thinning 1987, MacKinley - 61 Plantation 73-028-87,
С	anopy Species	% Cover Size Class		DBH Age		Sub-Ca	nopy Species	Density	Avg. Height	Size	second thinning 1997, MacKinley Red Pine 73-055-96, and third thinnny 2008, Summit Red Pine 73-012-06. Good workable rows, highly visible
	Red Pine		Log	13	70	Bla	ck Cherry	Low	Variable	Sapling	from M-61, up on a hill. High quality poles.
	White Pine		Log	16		Re	ed Maple	Medium	Variable	Sapling	
Qı	uaking Aspen	5	Log	13		Black/Re	d (Hybrid) Oak	Low	Variable	Sapling	
					<u>. </u>	WI	nite Pine	Low	Variable	Sapling	
							Beech	Trace	>20 feet	Sapling	
103	4130	- Aspen		Poletimb	er Wel	l 49.4	26	81-110	N/A		Casey OwensUpland with low pockets very humoky. Clear cut 1998, McKinly Avenue, 033-96-013
С	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	ivicitility Avenue, 000-90-013
	Red Maple	10	Sapling	3	26	Black/Re	d (Hybrid) Oak	Medium	Variable	Sapling	
Bi	gtooth Aspen	54	Pole	5	26	Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	
No	rthern Pin Oak	5	Sapling	4	26	R	ed Pine	Low	Variable	Sapling	
	Jack Pine	1	Sapling	4	26	WI	nite Pine	Low	Variable	Sapling	
	Red Pine	2	Pole	7							
Qı	uaking Aspen	22	Sapling	4	26						
	Red Oak	2	Sapling	4							
	Balsam Fir	4	Pole	5							
104	4130	- Aspen		Poletimb	er Wel	l 20.0	38	81-110	N/A		Casey Owens
С	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stand is humoky with lowland areas.
	White Pine	5	Pole	7		R	ed Pine	Low	Variable	Sapling	Clear cut 1986, MacKinley Avenue Break-up, 056-86-013
No	rthern Pin Oak	10	Pole	5	38	Black/Re	d (Hybrid) Oak	Low	Variable	Sapling	
Qı	uaking Aspen	15	Pole	6	38	Bla	ck Cherry	Medium	Variable	Sapling	
Bi	gtooth Aspen	60	Pole	6	38	Auti	umn Olive	Low	5 - 10 feet	Tall Shrub	
	Red Maple	10	Pole	5	38	Ва	Isam Fir	Low	Variable	Sapling	



Stand Level 4 (over Type	S	Size Density Poletimber Well		Acres Stand Age BA Range			Managed Site		General Comments	MICHIGAN .
105	6112 - Lov	n Po	9.2			36	111-140	N/A		Casey 24 - Clearcut 1988 73-025-88. Scattered low wet areas.		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Red Maple	15	Pole/Sapling	5	36	Bal	sam Fir	Medium	Variable	Sapling		
	Quaking Aspen	18	Pole	7	36							
	Bigtooth Aspen	35	Pole	7	36							
	Balsam Fir	32	Pole	6								
106	6130 - Fir, <i>i</i>	Aspen, Mar	ole Po	oletimb	er Well	11.9	36	111-140	N/A		Casey 24 - Clearcut 1988 73-025-88. Low saturated soils.	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Red Maple	30	Pole/Sapling	5	36	Bal	sam Fir	Medium	Variable	Sapling		
	Quaking Aspen	18	Pole	7	36					'		
	White Pine	10	Sapling/Pole	4	36							
	Jack Pine	2	Sapling/Pole	4	36							
	Balsam Fir	40	Pole	6	36							
107	6229 - Mixed	i iowiana sr	nrub	Nonsto	ocked	14.6			No			
107		wland Mapl			er Well	9.0	92	81-110	No N/A		Casey 24 - Lowland with standing water in areas	
		wland Mapl		awtimb		9.0	92 nopy Species	81-110 Density		Size	Casey 24 - Lowland with standing water in areas	
	6113 - Lov	wland Mapl	e Sa	awtimb	er Well	9.0 Sub-Car			N/A	Size Sapling	Casey 24 - Lowland with standing water in areas	
	6113 - Lov	wland Mapl	e Sa	awtimb DB F	er Well	9.0 Sub-Car	nopy Species	Density	N/A Avg. Height		Casey 24 - Lowland with standing water in areas	
	6113 - Lov Canopy Species Silver Maple	wland Mapl	e Sa Size Class Log/Pole/Sap	DBH 10	er Well	9.0 Sub-Car Rec	nopy Species d Maple	Density Medium	N/A Avg. Height Variable	Sapling		
	6113 - Low Canopy Species Silver Maple Red Maple	wland Mapl % Cover 15 55	e Sa Size Class Log/Pole/Sap Log/Pole	DBH 10	er Well	9.0 Sub-Car Rec Bal Ta	nopy Species d Maple sam Fir	Density Medium Low	N/A Avg. Height Variable Variable	Sapling Sapling		
	6113 - Lov Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir	wland Mapl **Cover** 15	e Saize Class Log/Pole/Sap Log/Pole Pole Pole	DBH 10 10 7 5	er Well	9.0 Sub-Car Rec Bal Ta	nopy Species d Maple sam Fir g Alder ite Pine	Density Medium Low Low	N/A Avg. Height Variable Variable 5 - 10 feet	Sapling Sapling Tall Shrub		
108	6113 - Lov Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir	wland Mapl % Cover 15 55 10 20 en, Spruce/	e Saize Class Log/Pole/Sap Log/Pole Pole Pole	DBH 10 10 7 5	er Well I Age	9.0 Sub-Car Rec Bal Tar Wh	nopy Species d Maple sam Fir g Alder ite Pine	Density Medium Low Low Low	N/A Avg. Height Variable Variable 5 - 10 feet Variable	Sapling Sapling Tall Shrub		
108	6113 - Lov Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir	wland Mapl % Cover 15 55 10 20 en, Spruce/	e Sa Size Class Log/Pole/Sap Log/Pole Pole Pole Pole	DBH 10 10 7 5	er Well 92 er Well	9.0 Sub-Car Rec Bal Tar Wh	nopy Species d Maple sam Fir g Alder ite Pine	Density Medium Low Low Low	N/A Avg. Height Variable Variable 5 - 10 feet Variable	Sapling Sapling Tall Shrub		
108	Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir 4134 - Aspe	wland Mapl **Cover* 15 55 10 20 en, Spruce/ **Cover*	e Saize Class Log/Pole/Sap Log/Pole Pole Pole Fir Poisize Class	DBH 10 10 7 5 Determine	er Well 92 er Well 1 Age	9.0 Sub-Car Rec Bal Tar Wh	nopy Species d Maple sam Fir g Alder ite Pine	Density Medium Low Low Low	N/A Avg. Height Variable Variable 5 - 10 feet Variable	Sapling Sapling Tall Shrub		
108	Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir 4134 - Aspec Canopy Species Red Maple	wland Mapl **Cover* 15	e Saize Class Log/Pole/Sap Log/Pole Pole Pole Pole Size Class Pole/Sapling	DBH 10 10 7 5 Dletimb DBH 5	er Well 92 92 er Well 1 Age 36	9.0 Sub-Car Rec Bal Tar Wh	nopy Species d Maple sam Fir g Alder ite Pine	Density Medium Low Low Low	N/A Avg. Height Variable Variable 5 - 10 feet Variable	Sapling Sapling Tall Shrub		
108	Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir 4134 - Aspection Canopy Species Red Maple Bigtooth Aspen	wland Mapl % Cover	e Saize Class Log/Pole/Sap Log/Pole Pole Pole Size Class Pole/Sapling Pole	DBH 10 7 5 Dletimb 5 7	er Well 92 92 er Well 1 Age 36	9.0 Sub-Car Rec Bal Tar Wh	nopy Species d Maple sam Fir g Alder ite Pine	Density Medium Low Low Low	N/A Avg. Height Variable Variable 5 - 10 feet Variable	Sapling Sapling Tall Shrub		
108	Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir 4134 - Aspecies Red Maple Bigtooth Aspen Balsam Fir	wland Mapl % Cover 15 55 10 20 en, Spruce/ % Cover 15 35 20	e Sa Size Class Log/Pole/Sap Log/Pole Pole Pole Size Class Pole/Sapling Pole Pole	DBH 10 7 5	er Well 92 92 er Well 1 Age 36 36	9.0 Sub-Car Rec Bal Tar Wh	nopy Species d Maple sam Fir g Alder ite Pine	Density Medium Low Low Low	N/A Avg. Height Variable Variable 5 - 10 feet Variable	Sapling Sapling Tall Shrub		
108	Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir 4134 - Aspe Canopy Species Red Maple Bigtooth Aspen Balsam Fir White Pine Quaking Aspen	wland Mapl % Cover 15 55 10 20 en, Spruce/ % Cover 15 35 20 10	e Sa Size Class Log/Pole/Sap Log/Pole Pole Pole Fir Po Size Class Pole/Sapling Pole Pole Sapling/Pole Pole	DBH 10 10 7 5 Deletimb 5 7 6 4 7	er Well 92 92 er Well 1 Age 36 36	9.0 Sub-Car Rec Bal Tar Wh	nopy Species d Maple sam Fir g Alder ite Pine	Density Medium Low Low Low	N/A Avg. Height Variable Variable 5 - 10 feet Variable	Sapling Sapling Tall Shrub		
108	Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir 4134 - Aspe Canopy Species Red Maple Bigtooth Aspen Balsam Fir White Pine Quaking Aspen	wland Mapl % Cover	e Sa Size Class Log/Pole/Sap Log/Pole Pole Pole Fir Po Size Class Pole/Sapling Pole Pole Sapling/Pole Pole	10	92 92 92 92 94 95 95 95 95 95 95 95 95 95 95 95 95 95	9.0 Sub-Car Rec Bal Ta Wh	nopy Species d Maple Isam Fir g Alder iite Pine	Density Medium Low Low Low 111-140	N/A Avg. Height Variable Variable 5 - 10 feet Variable N/A	Sapling Sapling Tall Shrub	Casey 24 - Clearcut 1988 73-025-88.	
109	Canopy Species Silver Maple Red Maple Paper Birch Balsam Fir 4134 - Aspecies Red Maple Bigtooth Aspen Balsam Fir White Pine Quaking Aspen	wland Maple % Cover 15 55 10 20 en, Spruce/ % Cover 15 35 20 10 20 wland Ceda	e Sa Size Class Log/Pole/Sap Log/Pole Pole Pole Fir Po Size Class Pole/Sapling Pole Pole Sapling/Pole Pole Sapling/Pole Pole	10	er Well 92 92 er Well 1 Age 36 36 36 36	9.0 Sub-Car Rec Bal Ta Wh	nopy Species d Maple Isam Fir g Alder iite Pine	Density Medium Low Low Low 111-140	N/A Avg. Height Variable Variable 5 - 10 feet Variable N/A	Sapling Sapling Tall Shrub	Casey 24 - Clearcut 1988 73-025-88.	