



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71014

Entry Year 2025

Acreage: 5,171

County Roscommon

Management Area: High Sand Plains

Stand Examiner: Brian Martell

Legal Description:

T 21N R04W Sec. 19-21, 28-33

Identified Planning Goals:

Vegetation management in the Upper Muskegon Management Area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for the next ten years will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected issues within the next decade are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age class distribution and an expected increase in recreation pressure.

Soil and topography:

Soils in the lowlands are mostly Tawas-Lupton mucks and histosols dominate the Muskegon River floodplain. Upland soils are mostly Grayling sands with some Croswell sands and Au Gres sands.

Terrain is mostly flat with some slopes leading down to the river floodplain.

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

This compartment is one large block of state land, except for one 40 acre private parcel in the southwest part of the compartment, and is mostly all surrounded by state land.

Unique Natural Features:

The Muskegon River runs through the west side of the compartment.

There are occurrences of Kirtland's warbler, northern long-eared bat, Eastern massasauga rattlesnake, and Blanding's turtle within the compartment.

Archeological, Historical, and Cultural Features:

There are possible known archeological sites in sections 19 and 21.

Special Management Designations or Considerations:

The "Muskegon River Floodplain" reviewable SCA is encompassed within the compartment and part of the Eastern Massasauga Managed Land HCVA is within the compartment.

Watershed and Fisheries Considerations:

Muskegon River and Wolf Creek

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for metallic minerals in this part of the state. The nearest active sand/gravel pit is less than two miles south. There is potential for sand & gravel within the compartment on the uplands. The nearest hydrocarbon production, past or present, is three away. There has been no recent well permitting history in and around the compartment. While there has been some recent history of leasing of State-owned oil & gas rights within the compartment, oil & gas potential is considered low at this time.

Vehicle Access:

The uplands have good access through Old-127, county roads, old 40 roads, and two tracks. The lowlands have minimal vehicle access.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Recreational opportunities include dispersed camping, boating on the river, hunting, ORV/ATV-ing, snowmobiling, and hiking.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

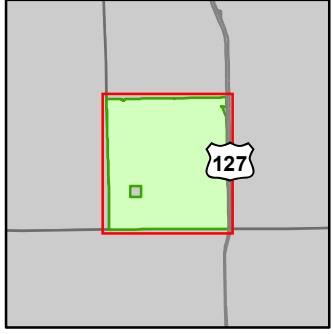
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

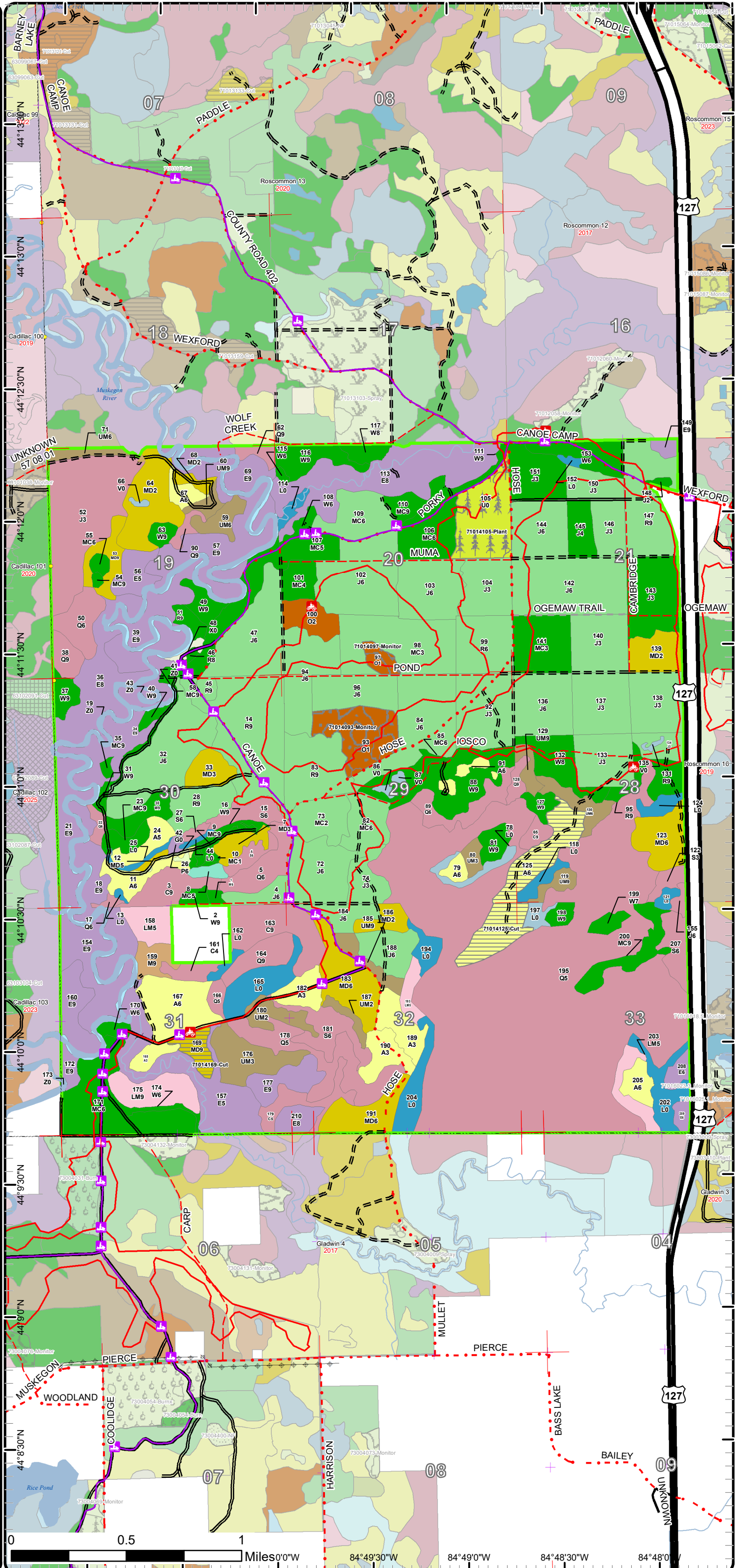
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 14
 T21N, R04W, Sec. 19-21, 28-33
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 5171.2 GIS Calculated
 Examiner: Brian Martell
 Map Revised: 6/27/2023
 Map Phase: Web-Post

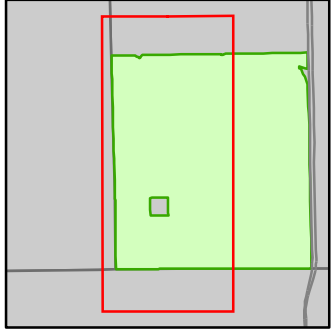


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Bridges
- Culvert
- Compartment Boundary
- Planting (Tree Species)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 790 - Other Bare/Sparsely Vegetated

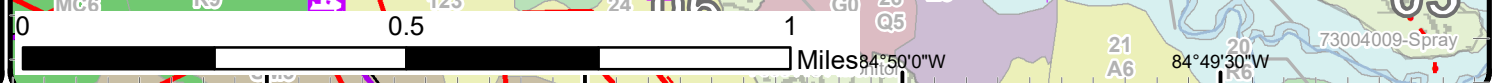
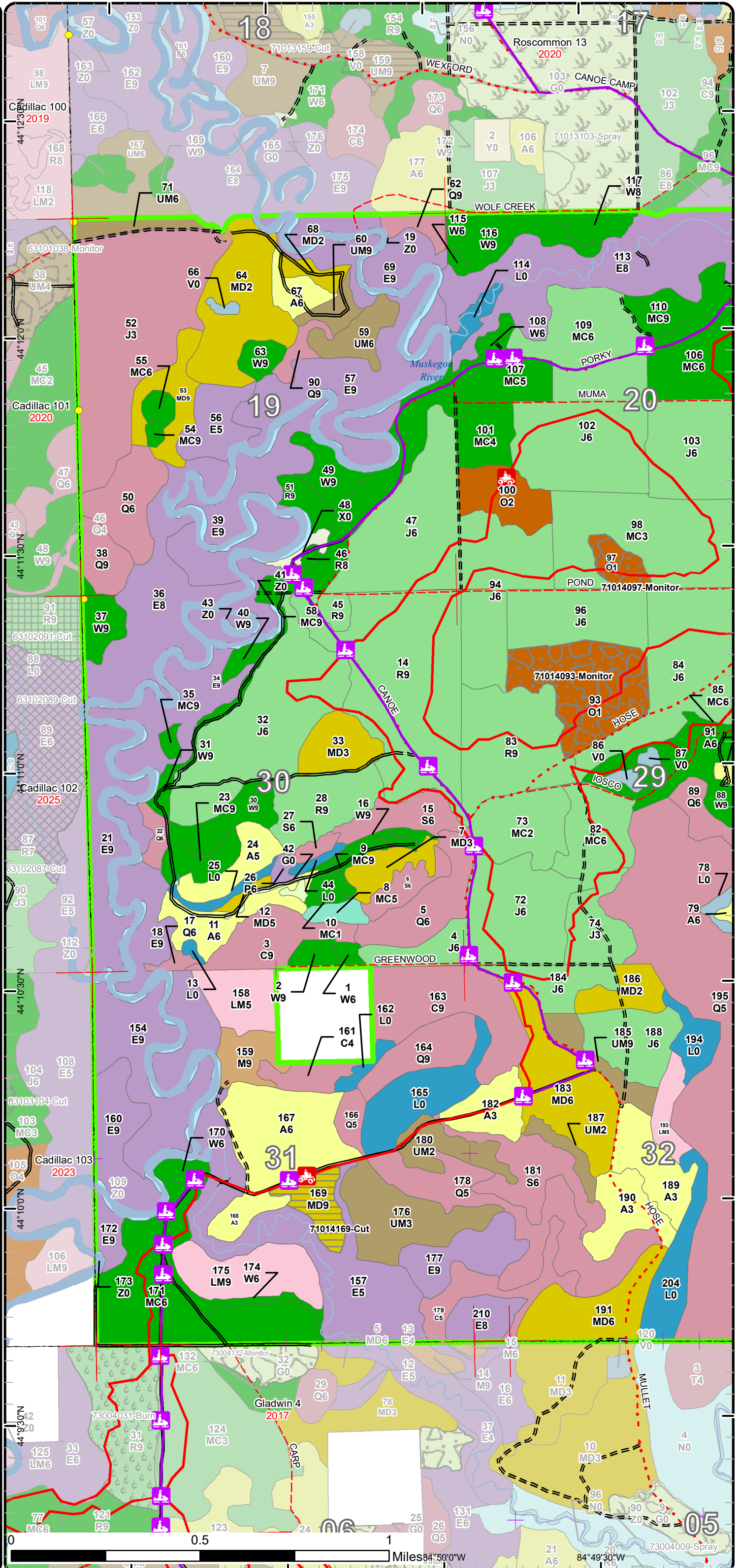


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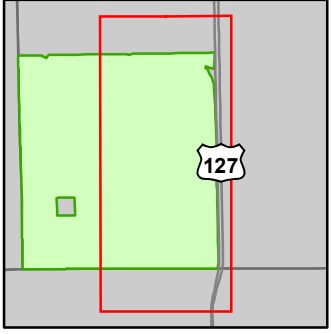


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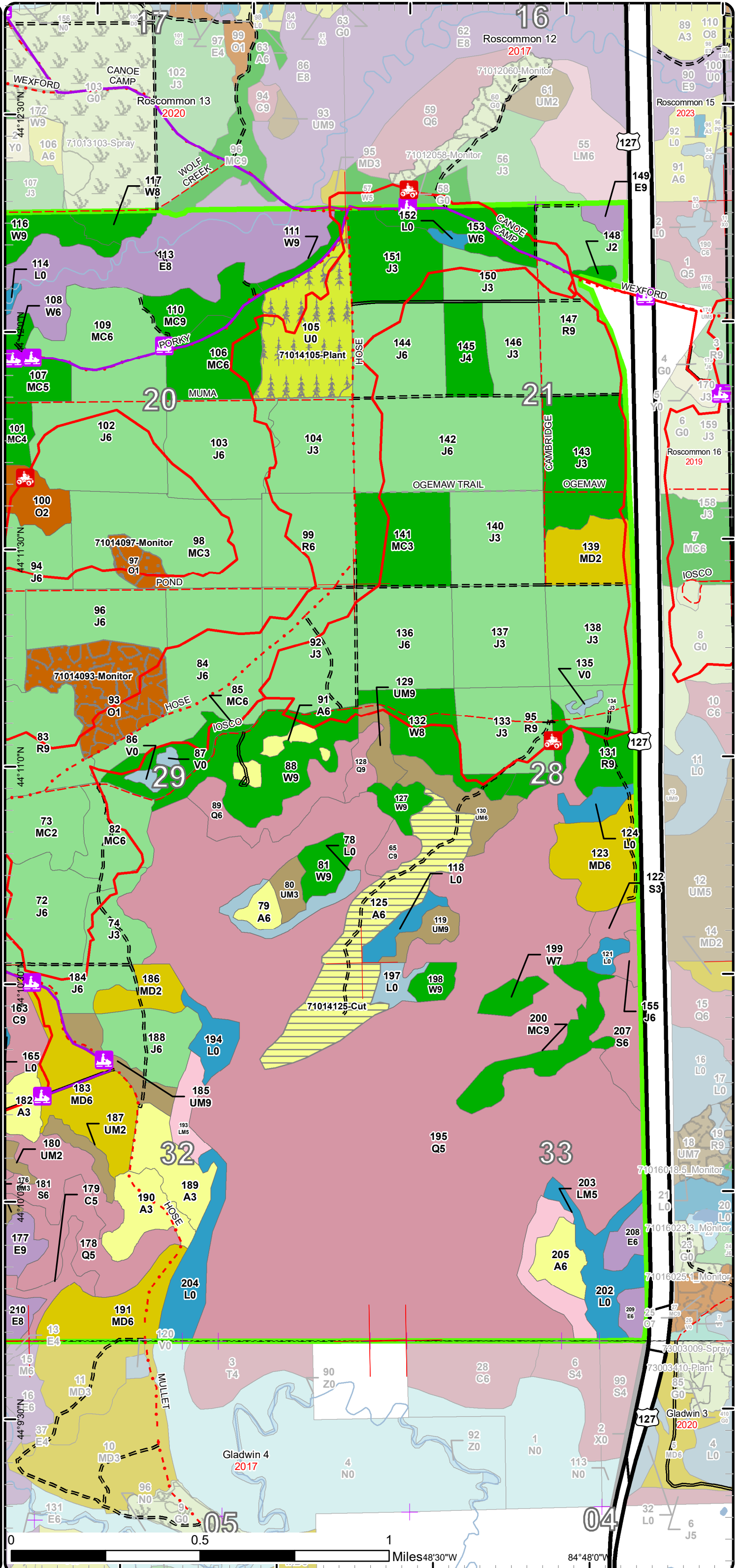


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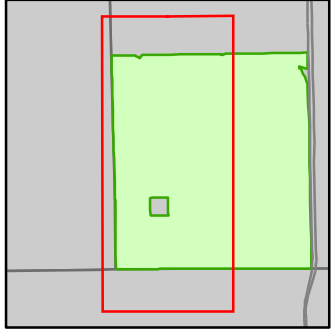


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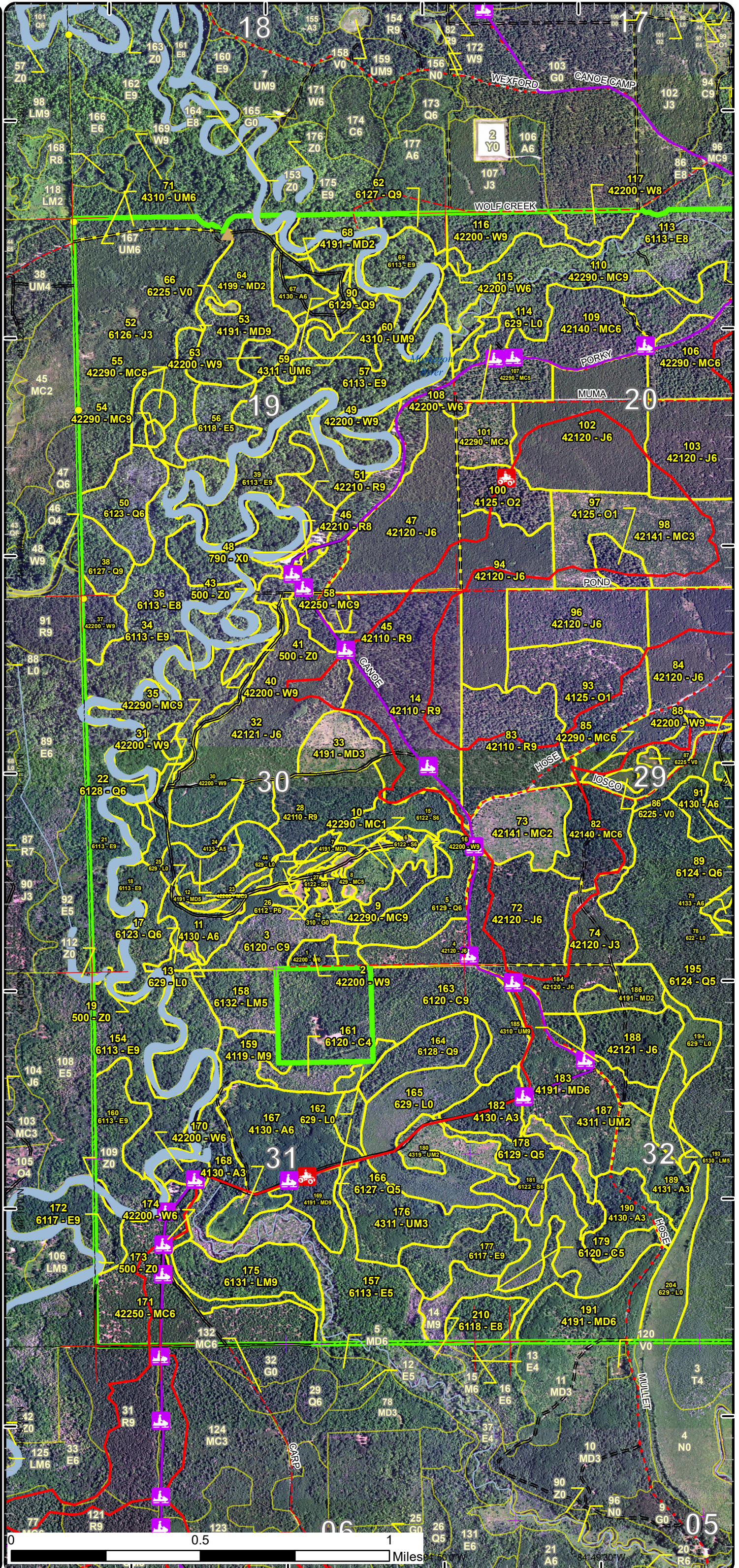


Stand Boundary Map

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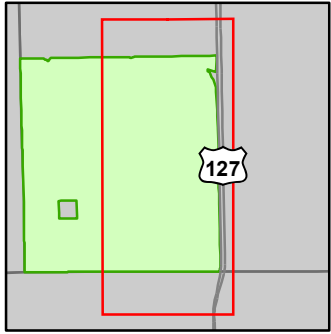


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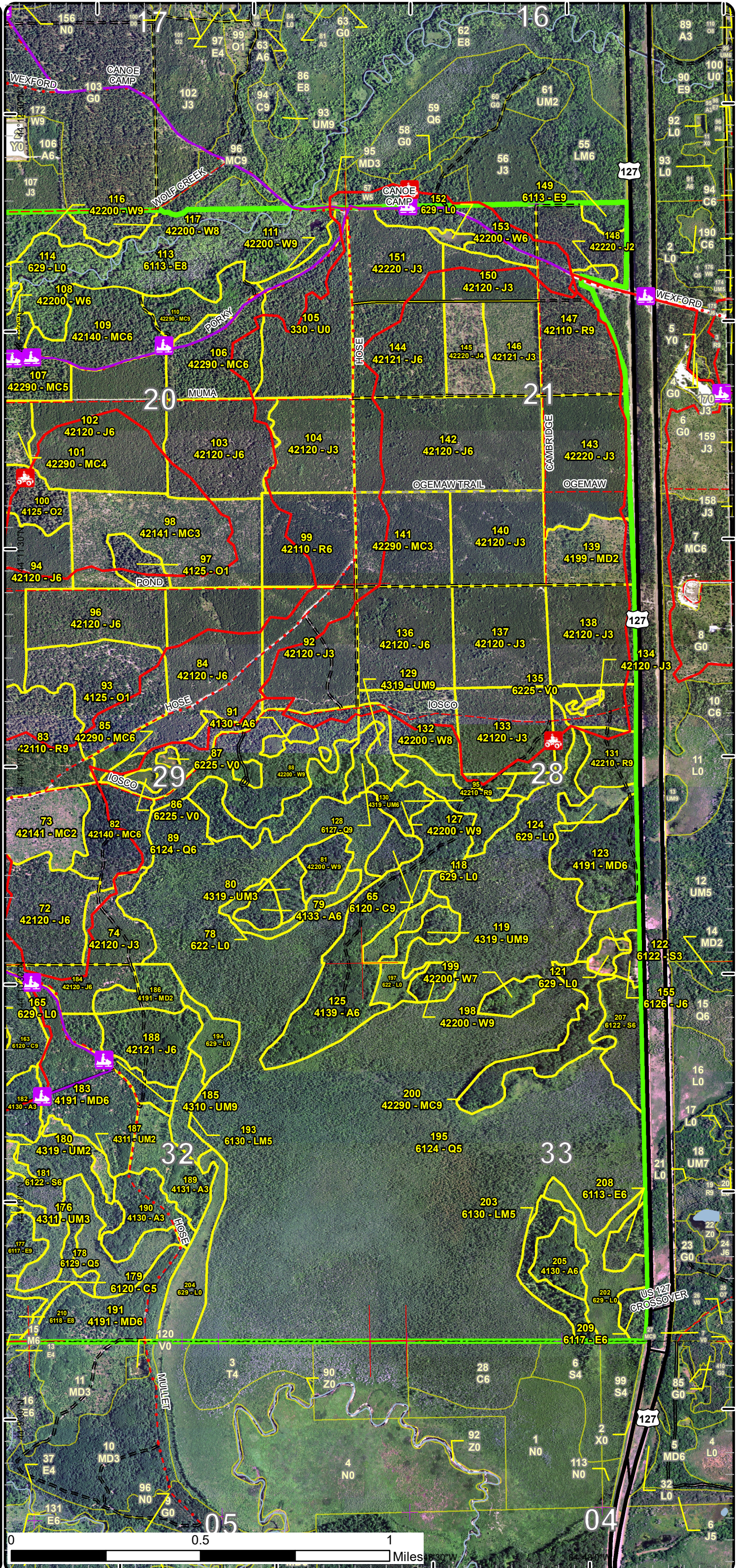


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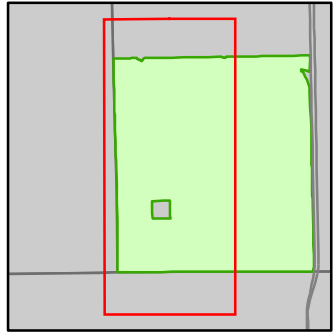


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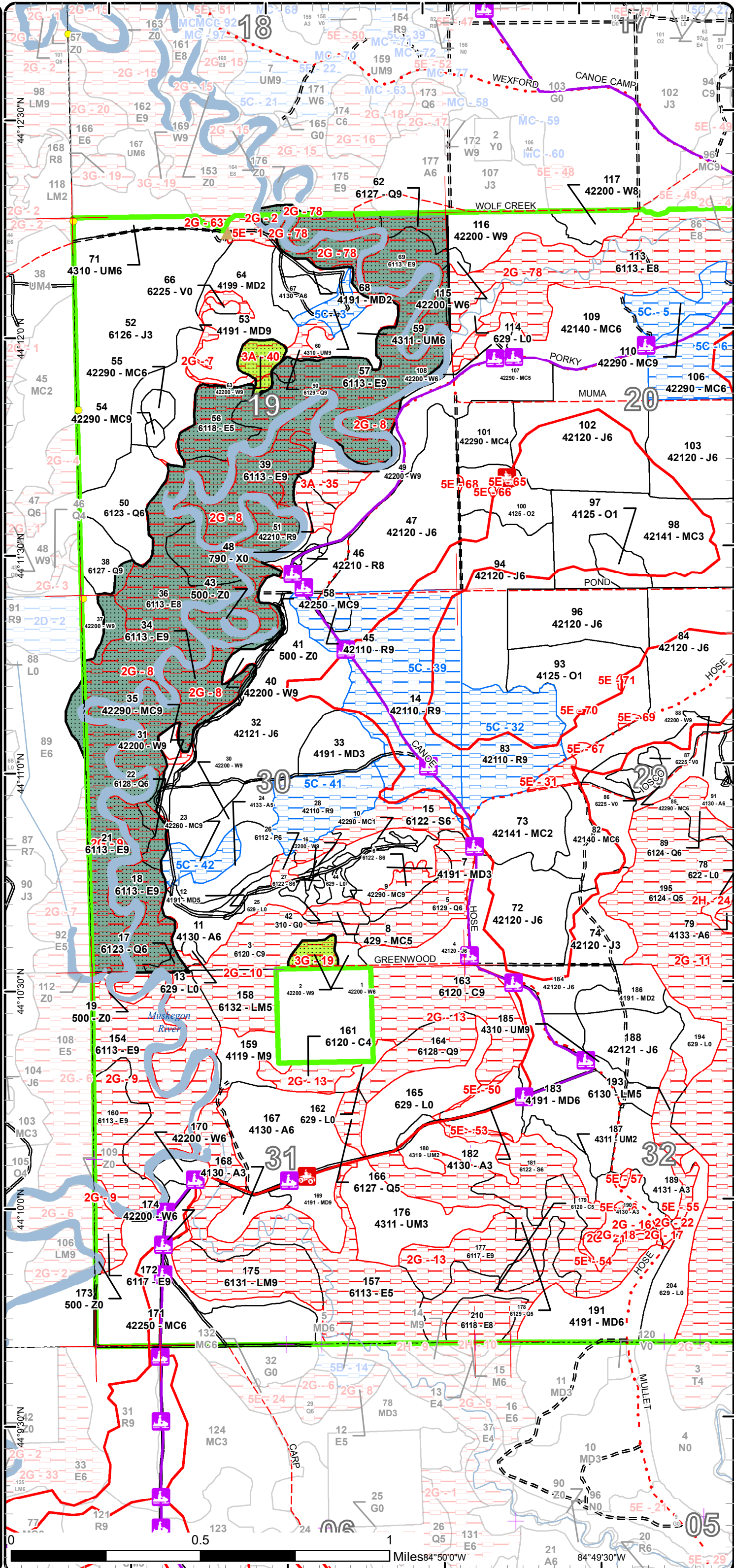


Special Conservation Areas

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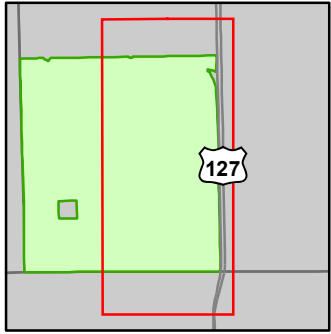


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Vernal Pool
- Possible Type 2 Old Growth

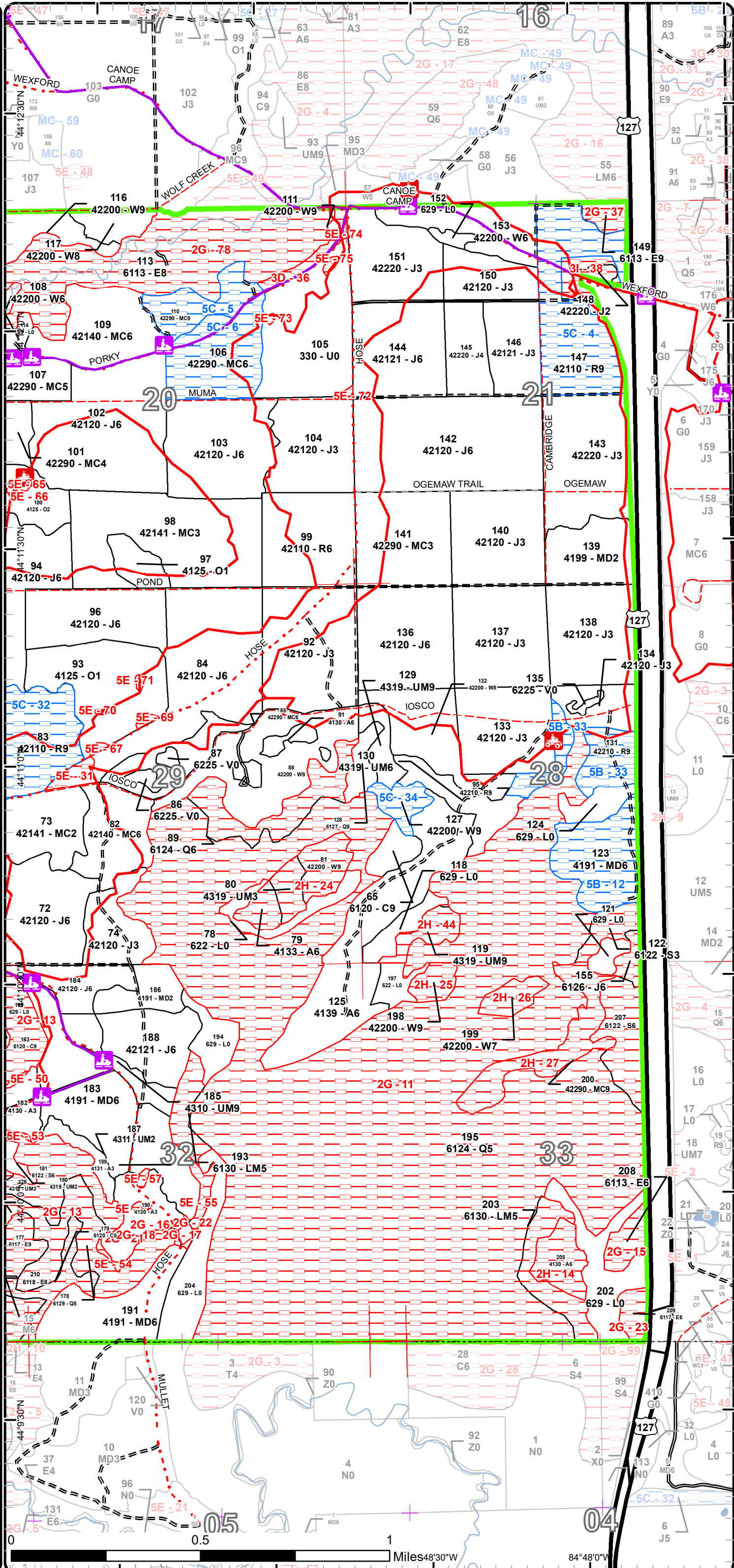


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- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	36	31	46	41	13	79	0	0	0	0	0	0	0	0	0	0	0	245
Bare/Sparsely Vegetated	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	0	77	8	0	0	0	0	24	0	109
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	22	543	486	132	18	0	0	0	0	0	0	0	0	0	0	0	1201
Low-Density Trees	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Lowland Aspen/Balsam Poplar	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	6	0	0	28	13	0	5	23	53	0	25	6	7	0	793	958
Lowland Deciduous	0	0	0	0	0	0	26	0	0	112	139	83	54	111	66	0	34	45	670
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	49	74
Lowland Shrub	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140
Lowland Spruce/Fir	0	0	0	0	0	0	8	0	17	10	0	46	3	0	0	0	0	0	84
Mixed Upland Deciduous	0	51	54	88	2	0	31	19	0	0	0	13	0	0	0	0	0	0	256
Natural Mixed Pines	0	0	6	108	16	0	17	4	16	58	17	0	0	2	2	0	0	59	305
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Oak	0	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Planted Mixed Pines	0	28	0	70	27	34	0	0	0	0	0	0	0	0	0	0	0	0	159
Red Pine	0	0	0	0	40	0	0	0	23	187	0	60	8	0	0	0	0	0	317
Upland Conifers	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	22	35	7	12	23	0	25	7	0	0	0	0	0	8	0	0	139
Water	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
White Pine	0	0	0	0	2	107	19	20	27	10	22	0	7	11	22	13	0	0	260
Total	295	191	135	896	624	303	249	56	108	389	316	263	72	149	96	28	58	946	5167



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 14
Total Compartment Acres: 5,171

Commercial Harvest - 80
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	66	0	0	0	0	0	0	0	0	66
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Total	80	0	0	0	0	0	0	0	0	80

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	80	0	51	0	0	0	54	0	0	184
Next Step	0	63	54	0	0	0	288	0	0	404
Total	80	63	104	0	0	0	342	0	0	588



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

125	71014125-Cut	66.1	4139 - Aspen, Mixed Deciduous	Poletimber Well	59	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" DBH and larger. Leave all red pine. Mark 5-7 healthy, large-crowned white oak to leave. Mark white pine that meet legacy tree characteristics to leave. Leave standard area retention possibly focused along any lowlands that need to be buffered according to BMP's. Include drumming log specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked stand of aspen with red maple and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
169	71014169-Cut	13.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	105	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" DBH and larger. Leave 5-7 large crowned healthy white oak for hard mast. Protect thick pockets of white pine regeneration were possible. Leave standard area retention. If natural regeneration fails, site prep and plant to red pine. Include snowmobile trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked stand of oak, maple, aspen, and pine. If natural regeneration fails, site prep and plant to red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

Approved Treatments:

93	71014093-Monitor	44.3	4125 - Black, N. Pin Oak	Sapling Poor	3	Immature	Monitoring	Natural Regen (Intermediate)	42121 - Planted Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of planted jack pine and naturally regenerated species to a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2025</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
97 71014097-Monitor	9.3	4125 - Black, N. Pin Oak	Sapling Poor	4	Immature	Monitoring	Natural Regen (Intermediate)	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor regeneration <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; SitePrep, Trenching <u>Treatments:</u> <u>Acceptable</u> Any combination of planted red pine and naturally regenerated species to a fully stocked stand <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /1 /2025</p>										
105 71014105-Plant	50.6	330 - Low-Density Trees	Nonstocked	0	Immature	Planting	Initial Plant	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> ; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Any combination of planted red pine and naturally regenerated species to a fully stocked stand. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /1 /2023</p>										

Total Treatment 183.7
Acres Proposed:

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 14
 Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions									
					5B	5C	2G	2H	3A	3D	3G	3I	5E	
246	219	0	26	Aspen				19						8
4	4	0	0	Bare/Sparsely Vegetated										
7	7	0	0	Bog										
109	8	0	102	Cedar			102				0			
3	3	0	0	Herbaceous Openland										
1202	1195	0	7	Jack Pine		0	4						2	0
53	51	0	2	Low-Density Trees						0				2
3	0	0	3	Lowland Aspen/Balsam Poplar			3							
959	45	0	915	Lowland Conifers			913							2
670	0	0	670	Lowland Deciduous			670							0
75	0	0	75	Lowland Mixed Forest			75							
141	141	0	0	Lowland Shrub				0						
85	0	0	85	Lowland Spruce/Fir			85							
258	217	31	10	Mixed Upland Deciduous	31		6							4
304	218	62	25	Natural Mixed Pines		62		25						
13	13	0	0	Northern Hardwood										
76	73	0	3	Oak		0								3
159	159	0	0	Planted Mixed Pines										
316	41	257	18	Red Pine	22	234	0		8				7	4
5	0	0	5	Upland Conifers			5							
139	118	7	15	Upland Mixed Forest		7	0	15						
87	87	0	0	Water			0							0
258	196	8	54	White Pine		8	0	25	18	6	5			
5,171	2,792	365	2,014	Total Forested Acres	54	311	1,862	83	26	6	6	9		23
	54%	7%	39%	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	5E: Long-Term Retention	5	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Brian Martell : Examiner

Compartment: 14

Year of Entry: 2025

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Brian Martell : Examiner

Compartment: 14

Year of Entry: 2025

7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	245	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	113	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	159	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	847	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Brian Martell : Examiner

Compartment: 14

Year of Entry: 2025

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	323	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Brian Martell : Examiner

Compartment: 14

Year of Entry: 2025

18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3G: Other Influence zones - See comments	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mature white pine with red pine, there is a small ammount of black oak and bigtooth aspen. Large healthy trees approaching old growth status. There is a small open area with hardwood in the central part of the stand.							
20	Available	Minor Change in Acreage	2				
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Brian Martell : Examiner

Compartment: 14

Year of Entry: 2025

24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	Minor Change in Acreage	0				
Comments:							
29	Available	Minor Change in Acreage	0				
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 14
 Year of Entry: 2025

30	Available	Minor Change in Acreage	0				
Comments:							
31	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left when Stand 3 final harvested and Stand 19 was thinned.....keep as retention for when Stand 19 is harvested in some future YOE							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	3A: Conservation Values incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Brian Martell : Examiner

Compartment: 14

Year of Entry: 2025

36	Unavailable	3D: Recreational / Scenic values	6	3J: Water quality / BMPs (stream, river, or lake)	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments:							
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	107	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Just cut last YOE							
40	Unavailable	3A: Conservation Values incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Just cut last YOE							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 14
 Year of Entry: 2025

42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
53	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
55	Unavailable	5E: Long-Term Retention	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
56	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 14
 Year of Entry: 2025

57	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
63	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
65	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
66	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
67	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
68	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
69	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 14
 Year of Entry: 2025

70	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
71	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
72	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
73	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
74	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
75	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
78	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	149	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Muskegon River Floodplain	Spring Wetlands Riparian Area	Vernal Pool	SCA	424
Comments				



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.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	42200 - Natural White Pine	Poletimber Well	2.8	76	111-140	N/A	Pole sized white pine with super canopy oak.																																																									
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2	42200 - Natural White Pine	Sawtimber Well	5.6	136	201+	N/A	Mature white pine with red pine, there is a small amount of black oak and bigtooth aspen. Large healthy trees approaching old growth status. There is a small open area with hardwood in the central part of the stand.																																																									
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Balsam Fir	Low	>20 feet	Pole																																																													
3	6120 - Lowland Cedar	Sawtimber Well	24.2	155	141-170	N/A	Lowland cedar. The balsam fir understory has a variable density and uneven distribution. There is a small pocket in the southwest corner of balsam fir, red maple, white pine and black spruce.																																																									
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4	42120 - Planted Jack Pine	Poletimber Well	13.7	22	1-50	N/A	This stand was clearcut in 96-97 and seeded to jack pine in Dec. 1998. The seeding was not successful and the stand was hand planted to jack pine in May of 2001. Stand is just barely pole sized overall.																																																									
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Jack Pine	85	Pole/Sapling	5	22																																																												
5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	25.4	121	141-170	N/A	Lowland conifer with more cedar in the east and black spruce in the west. There is a trace amount of paper birch, and white pine. There is an FTP where some of this stand may have been habitat cut in 1997 by cutting all red maple, aspen, white birch, black ash and jack pine down to a two inch diameter.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	6122 - Black Spruce	Poletimber Well	10.2	82	81-110	N/A	Pole sized black spruce with spruce and alder in the understory. There is a trace ammount of red maple and paper birch. This stand is unique to the compartment.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	90	Pole/Log	8	82	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	5	Pole	5		Balsam Fir	Low	Variable	Sapling
White Pine	5	Log/Pole	11		Black Spruce	Medium	Variable	Sapling

7	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	12.4	13	Immature	N/A	This stand was clearcut in 2009, 71-011-06-01 Porky Pine Harvest. Trenched in 2009 and planted to jack pine in 2010.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	26	Sapling	2	13
Red Pine	1	Sapling	1	
Red Maple	26	Sapling	2	14
Bigtooth Aspen	24	Sapling	3	14
Black/Red (Hybrid) Oak	8	Sapling	2	
Black Cherry	10	Sapling	2	
White Pine	5	Log/Pole/Sap	10	

8	429 - Mixed Upland Conifers	Poletimber Medium	5.2	44	1-50	N/A	Open grown white pine and mixed deciduous. Low density. There is a low drainage of leatherleaf that runs through the middle of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Pole/Sapling	6		Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	45	Pole/Log	9	44	Pin Cherry	Low	Variable	Sapling
Balsam Fir	8	Pole/Sapling	7		White Pine	Low	Variable	Sapling
Black Spruce	10	Pole/Sapling	6					
Black Cherry	5	Sapling	3					
Red Maple	12	Pole/Sapling	6					
Black/Red (Hybrid) Oak	10	Pole/Sapling	6					

9	42290 - Natural Mixed Pine	Sawtimber Well	4.0	82	81-110	N/A	Mixed pine with oak, a WLD opening is in the middle of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log	15		White Pine	Low	Variable	Sapling
Jack Pine	38	Log/Pole	11	82	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Maple	5	Log/Pole	10		Red Maple	Low	>20 feet	Sapling
Black/Red (Hybrid) Oak	20	Log/Pole	13		Balsam Fir	Low	Variable	Sapling
Black Cherry	2	Pole	7					
White Pine	30	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10 42290 - Natural Mixed Pine Sapling Poor 5.8 10 Immature N/A Clearcut in 87 or 88. This is supposed to be a wildlife opening, but there is a lot of pine and oak that has seeded in making this a forested stand.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	25	Sapling	1	
Red Pine	45	Sapling	1	10
Black/Red (Hybrid) Oak	25	Sapling	1	10
Bigtooth Aspen	2	Sapling	1	
White Pine	3	Sapling	1	

11 4130 - Aspen Poletimber Well 17.5 36 N/A Aspen stand that was regenerated in 1987.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	Pole/Sap/Log	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	15	Pole/Sapling	5		White Pine	Low	Variable	Sapling
Red Maple	8	Sapling	3					
Bigtooth Aspen	69	Pole/Sapling	5	36				
Balsam Fir	5	Pole/Sapling	6					

12 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 2.4 36 1-50 N/A This stand was regenerated in 1987. Aspen mixed with red maple and white pine. This is a transition stand from upland to lowland.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	35	Pole/Sapling	5	36	Red Maple	Low	Variable	Sapling
Red Maple	30	Pole/Sapling	5		White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Sapling/Pole	3		Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	20	Pole/Log/Sap	9					
Balsam Fir	10	Pole/Sapling	7					

13 629 - Mixed non-forested wetland Nonstocked 1.2 No It looks like this stand has been wetter with standing water in the past based on imagery so there may be a recent change in beaver activity.

14 42110 - Planted Red Pine Sawtimber Well 102.5 84 81-110 N/A Red Pine stand harvested in 96 or 97 by removing only the jack pine and oak. Thinned 2019. There is a well developed understory of oak. A recreation trail runs through the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	13	84	White Oak	Low	Variable	Sapling
					Black/Red (Hybrid) Oak	High	Variable	Sapling
					Jack Pine	Low	Variable	Sapling
					Black Cherry	Low	Variable	Sapling
					White Pine	Low	Variable	Sapling

15 6122 - Black Spruce Poletimber Well 16.9 73 N/A There is an FTP where some of this stand may have been habitat cut in 1997 by cutting all red maple, aspen, white birch, black ash and jack pine down to a two inch diameter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	70	Pole/Log/Sap	7	73	Tag Alder	Full	5 - 10 feet	Tall Shrub
Northern White Cedar	25	Log/Pole	10					
Balsam Fir	5	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
16	42200 - Natural White Pine	Sawtimber Well	5.0	58	81-110	N/A	Long narrow stand that borders lowland and a WLD opening.																																																								
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17	6123 - Lowland Fir	Poletimber Well	2.7	57	81-110	N/A																																																									
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18	6113 - Lowland Maple	Sawtimber Well	20.7	103	111-140	N/A	Lowland maple stand that is part of the Muskegon River floodplain. This stand is seasonally flooded and has old oxbows from the river in it. A trace amount of sugar maple was found on the highest ground in the stand.																																																								
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19	500 - Water	Nonstocked	82.8			No	Muskegon River																																																								
21	6113 - Lowland Maple	Sawtimber Well	39.4	103	111-140	N/A	Lowland maple (red and silver) growing on the Muskegon River floodplain.																																																								
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22	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.2	82	51-80	N/A	White pine and balsam fir stand that is seasonally flooded. This stand borders a floodplain. The cover is highly variable in distribution and size. The balsam fir is more concentrated in the north of the stand.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 10.5 73 111-140 N/A

Mixed upland pine stand, two-aged with super canopy red and white pine and a pole and log sized cohort of white pine, red maple and oak. The west part of the stand has a pocket of large white and red pine. There is a swale running through the middle of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Log/Pole/XLog	14		White Pine	Full	Variable	Sapling
White Pine	15	XLog	23		Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	37	Pole/Log	8	73	Balsam Fir	Low	Variable	Sapling
White Oak	2	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Red Maple	20	Pole/Log	9					
Red Pine	10	XLog/Log/Pole	18					
Northern White Cedar	1	Log/Pole	10					

24 4133 - Aspen, Mixed Pine Poletimber Medium 14.3 36 N/A

This stand was regenerated in 1987. Aspen mixed with other deciduous. There is open grown white pine and scattered red pine. Hypoxylon present in some of the aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	43	Pole/Sapling	5	36	Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	15	Log/Pole	10		White Pine	Low	Variable	Sapling
Balsam Fir	3	Pole/Log	8		Pin Cherry	Low	Variable	Sapling
Red Pine	3	Pole/Log	8		Jack Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Sapling	7					
Jack Pine	5	Pole/Sapling	7					
Black Cherry	1	Pole/Sapling	5					
Red Maple	10	Sapling/Pole	4					
Quaking Aspen	15	Pole/Sapling	5					

25 629 - Mixed non-forested wetland Nonstocked 4.2 No

26 6112 - Lowland Aspen Poletimber Well 2.6 35 51-80 N/A

Aspen stand that was regenerated in 1988.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	6	Sapling	3		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Red Maple	10	Pole/Sapling	5		White Pine	Low	Variable	Sapling
White Pine	5	Pole	7					
Balsam Fir	3	Pole/Sapling	5					
Quaking Aspen	70	Pole/Sapling	5	35				
Red Pine	1	Pole/Sapling	6					
Black/Red (Hybrid) Oak	5	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	6122 - Black Spruce	Poletimber Well	3.3	118	81-110	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Black Spruce	85	Pole/Log/Sap	9	118			
Balsam Fir	2	Pole	7				
White Pine	5	Pole/Log/Sap	8				
Black/Red (Hybrid) Oak	2	Pole/Log	9				
Red Maple	5	Pole/Sapling	6				
Northern White Cedar	1	Log	14				
Sub-Canopy Species	Density	Avg. Height	Size				
Black Spruce	Low	Variable	Sapling				
Balsam Fir	Low	Variable	Sapling				
White Pine	Low	Variable	Sapling				
28	42110 - Planted Red Pine	Sawtimber Well	28.2	83	81-110	N/A	Red pine stand that was harvested in 2009 by thinning the red and white pine and by cutting all oak and jack pine. 71-011-06-01Porky Pine Harvest - Thinned in 2017
Canopy Species	% Cover	Size Class	DBH	Age			
Red Pine	95	Log/Pole	13	83			
White Pine	2	Log/Pole	11				
Bigtooth Aspen	3	Log	13				
Sub-Canopy Species	Density	Avg. Height	Size				
Black/Red (Hybrid) Oak	High	Variable	Sapling				
White Pine	Low	Variable	Sapling				
Red Maple	Trace	Variable	Sapling				
Balsam Fir	Trace	10 - 20 feet	Sapling				
Bigtooth Aspen	Trace	10 - 20 feet	Sapling				
30	42200 - Natural White Pine	Sawtimber Well	15.7	73	51-80	N/A	This stand was harvested in 2009 by removing all jack pine and hardwood, 71-011-06-01 Porky Pine Harvest. Low end of canopy coverage.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Pine	5	Log/Pole/XLog	12				
Red Maple	1	Pole/Log	9				
White Oak	1	Log/Pole	12				
White Pine	93	Log/Pole	10	73			
Sub-Canopy Species	Density	Avg. Height	Size				
White Pine	Low	Variable	Pole				
Black/Red (Hybrid) Oak	Full	10 - 20 feet	Sapling				
Bigtooth Aspen	Medium	>20 feet	Sapling				
Jack Pine	Low	Variable	Sapling				
Red Pine	Trace	Variable	Sapling				
Red Maple	Low	Variable	Sapling				
31	42200 - Natural White Pine	Sawtimber Well	3.9	82	81-110	N/A	Upland white pine with a component of oak and aspen. Borders a portion of the Muskegon River and the river flood plain.
Canopy Species	% Cover	Size Class	DBH	Age			
White Pine	78	Log/Pole	10	82			
Bigtooth Aspen	5	Log/Pole	12				
Black/Red (Hybrid) Oak	14	Log/Pole	13				
Red Maple	2	Pole/Log	8				
Red Pine	1	Log	14				
Sub-Canopy Species	Density	Avg. Height	Size				
White Pine	Low	Variable	Sapling				
Black/Red (Hybrid) Oak	Low	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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32	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	76.2	22	Immature	N/A	This stand was clearcut in 96-97 and seeded to jack pine in Dec. 1998. The seeding was not successful and the stand was hand planted to jack pine in May of 2001. Stand is just barely pole sized overall.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	67	Pole/Sapling	5	22
Black Cherry	10	Sapling/Pole	4	
White Oak	2	Sapling/Pole	3	
Bigtooth Aspen	10	Pole/Sapling	5	
Black/Red (Hybrid) Oak	10	Sapling/Pole	4	
White Pine	1	Log	10	

33	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	17.1	14	Immature	N/A	This stand was clearcut in 2009, 71-011-06-01 Portky Pine Harvest. Trenched in 2009 and planted to red pine in 2010
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	35	Sapling	2	14
Red Pine	25	Sapling	2	13
Jack Pine	5	Sapling	2	
Bigtooth Aspen	15	Sapling	3	
Black Cherry	20	Sapling	1	

34	6113 - Lowland Maple	Sawtimber Well	48.6	118	111-140	N/A	Lowland maple (red and silver) stand that is part of the floodplain. This stand is seasonally flooded.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Log/Pole	13		Balsam Fir	Low	Variable	Sapling
Silver Maple	15	Log/XLog	16		Musclewood/Hornbeam	Medium	Variable	Sapling
White Pine	3	XLog	18		Ash (spp.)	Low	Variable	Sapling
Northern White Cedar	3	Pole/Log	9		White Pine	Low	Variable	Sapling
Swamp White Oak	10	Log/Pole	13		Northern White Cedar	Low	>20 feet	Pole
Red Maple	61	Log/XLog/Pole	14	118	Ironwood	Low	Variable	Sapling
Basswood	3	Log/Pole	13					

35	42290 - Natural Mixed Pine	Sawtimber Well	2.4	126	171-200	N/A	Natural red and white pine with an oak component, this stand is approaching old growth status. The pine is mature and healthy. This stand is of slightly higher elevation than the adjacent floodplain and may be occasionally flooded. There is a heavy white pine understory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Pole/Log	9		Northern White Cedar	Low	>20 feet	Pole
Black/Red (Hybrid) Oak	10	Log	15		White Pine	High	Variable	Sapling
White Pine	40	XLog/Log/Pole	19	146	Red Maple	Low	>20 feet	Sapling
Red Pine	45	Log/XLog	17	126				
Northern White Cedar	1	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
36	6113 - Lowland Maple	Sawtimber Medium	61.2	123	51-80	N/A																																																						
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37	42200 - Natural White Pine	Sawtimber Well	11.3	65	81-110	N/A																																																						
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38	6127 - Lowland Pine	Sawtimber Well	12.8	65		N/A																																																						
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39	6113 - Lowland Maple	Sawtimber Well	49.6	123	81-110	N/A																																																						
40	42200 - Natural White Pine	Sawtimber Well	4.0	138	171-200	N/A	Mature natural white pine stand that is adjacent to the floodplain and may be seasonally flooded. The trees have good spacing and healthy crowns. There is a trace amount of birch.																																																					
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41	500 - Water	Nonstocked	1.8			No	Old river oxbow. Filling in with lowland shrubs around the edges.																																																					
42	310 - Herbaceous Openland	Nonstocked	2.7	0		Managed Opening	Clearcut in 87 or 88. Managed wildlife opening.																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
43	500 - Water	Nonstocked	1.2			No	Old river oxbow.																																							
44	629 - Mixed non-forested wetland	Nonstocked	2.2	0		No																																								
45	42110 - Planted Red Pine	Sawtimber Well	4.6	84	111-140	N/A	This stand was previously thinned in 96 or 97 by removing only the jack pine and oak. A wildfire underburned between 2005 and 2009. Some trees did not survive the fire, there is a mortality pocket centrally located with dense oak and jack pine regeneration. The tree boles are charred 15-20 feet in places.																																							
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46	42210 - Natural Red Pine	Sawtimber Medium	1.9	80	111-140	N/A	Small pine and oak stand. Portions of this stand are used for dispersed camping.																																							
47	42120 - Planted Jack Pine	Poletimber Well	61.2	33	81-110	N/A	Pole sized, healthy jack pine plantation. There are a couple pockets of blowdown from a high wind event. This stand was harvested in the fall of 1987 by cutting all species which contain at least one 100 inch pulpwood stick to a four inch top diameter. Planted May 1990.																																							
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48	790 - Other Bare/Sparsely Vegetated	Nonstocked	3.5			No	Dispersed camping takes place within this stand along the Muskegon River.																																							
49	42200 - Natural White Pine	Sawtimber Well	11.6	138	171-200	N/A	Natural white and red pine stand that is part of an ancient floodplain along the Muskegon River. The stand borders lowland and is adjacent to uplands. It may be seasonally wet or experience occasional flooding. This is a nice stand that is approaching old growth status.																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50 6123 - Lowland Fir Poletimber Well 25.0 59 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	20	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Red Maple	15	Log/Pole	10					
Black Spruce	5	Pole	7					
Balsam Fir	50	Pole/Sapling	6	59				
Paper Birch	5	Sapling/Pole	4					
Balsam Poplar	5	Pole/Sapling	6					

51 42210 - Natural Red Pine Sawtimber Well 7.6 114 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	1	Log/Pole	13		White Pine	High	Variable	Sapling
Red Maple	1	Log/Pole	11		Red Maple	Low	>20 feet	Sapling
Red Pine	60	Log/Pole/XLog	14	114				
Bigtooth Aspen	2	Log/Pole	10					
Black/Red (Hybrid) Oak	11	Log/Pole/XLog	14					
White Pine	25	Pole/Log/XLog	9					

52 6126 - Lowland Jack Pine Sapling Well 104.3 21 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Pole/Log	8		Leatherleaf	Medium	< 5 feet	Tall Shrub
Balsam Fir	1	Pole/Sapling	5		Black Spruce	Low	Variable	Sapling
Bigtooth Aspen	2	Sapling/Pole	4					
Black/Red (Hybrid) Oak	10	Pole/Sapling	5					
Jack Pine	81	Sapling/Pole	3	21				
Black Cherry	3	Sapling/Pole	4					
Red Maple	1	Sapling/Pole	4					

Final harvested in 1997-98, seeded to jack pine in December 1999, trenched and planted to jack pine in May 2002. South 3/4 of the stand are lowland. Most of the oak, cherry, and aspen are in the northern part of the stand, and the white pine, red maple, and balsam fir are in the southern part of the stand.

53 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 18.5 61 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	7		Red Pine	Low	Variable	Sapling
Bigtooth Aspen	5	Log/Pole	13		Balsam Fir	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	22	Log	14		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Balsam Fir	5	Pole	7		White Oak	Trace	Variable	Sapling
White Pine	15	Log/Pole	13		White Pine	High	Variable	Sapling
Jack Pine	5	Log	13					
Red Maple	45	Pole/Log/Sap	9	61				
White Oak	1	XLog	20					

Mixed stand of red maple, oak and aspen. The subcanopy is full of white pine, which is what the stand will eventually succeed to. There is variability of species composition and density.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54	42290 - Natural Mixed Pine	Sawtimber Well	1.8	133	201+	N/A	Small, isolated, mature, red pine and white pine stand on the edge of the Muskegon River floodplain. This is a unique stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		45	XLog/Log	18		White Pine		High	Variable	Sapling
Red Pine		55	Log/XLog	16	133	Red Pine		Low	>20 feet	Pole
						Northern White Cedar		Trace	>20 feet	Pole
						Red Maple		Low	Variable	Sapling
						Balsam Fir		Low	Variable	Sapling

55	42290 - Natural Mixed Pine	Poletimber Well	4.3	67	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		55	Pole/Log	9	67	Balsam Fir		Medium	Variable	Sapling
Black Spruce		1	Pole	5		White Pine		High	Variable	Sapling
Red Maple		4	Pole/Sapling	5						
Bigtooth Aspen		10	Pole/Log	8						
Jack Pine		30	Log/Pole	12						

56	6118 - Lowland Deciduous with Cedar	Poletimber Medium	18.1	59	51-80	N/A	Lowland stand with dead/dying ash, cedar and tag alder.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		25	Log/Pole	10		Balsam Fir		Medium	Variable	Sapling
Red Maple		60	Pole/Log/Sap	8	59	Tag Alder		High	5 - 10 feet	Tall Shrub
Balsam Fir		15	Pole/Sapling	7						

57	6113 - Lowland Maple	Sawtimber Well	65.7	130	111-140	N/A	Lowland stand consisting of red and silver maple and white oak, the trees are large and healthy. This stand is part of the Muskegon River flood plain. There is a trace amount of cedar.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Swamp White Oak		5	Log/XLog	17	195	Green Ash		Medium	Variable	Sapling
Silver Maple		25	XLog/Log	19	130	Red Maple		Medium	Variable	Sapling
Red Maple		70	Log/Pole	15	130					

58	42250 - Pine, Oak	Sawtimber Well	5.1	72	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		2	Log/Pole	12		White Pine		Medium	Variable	Sapling
Bigtooth Aspen		3	Log/Pole	10		Red Maple		Low	Variable	Sapling
White Oak		1	Log/Pole/XLog	14		Balsam Fir		Low	Variable	Sapling
White Pine		63	Log/Pole/XLog	10	72	Bigtooth Aspen		Low	Variable	Sapling
Black/Red (Hybrid) Oak		30	Log/Pole/XLog	14						
Jack Pine		1	Log/Pole	11						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59	4311 - Pine, Aspen Mix	Poletimber Well	13.5	56	111-140	N/A	A young white pine stand with mixed deciduous that was harvested between 87-89 by cutting all aspen, red oak, white oak, jack pine, red maple, balsam fir, white birch, ash, basswood, and sugar maple that are 2" plus dbh.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		45	Pole/Log/Sap	8	56	Witch Hazel		Low	10 - 20 feet	Tall Shrub
Red Maple		10	Pole/Sapling	5		Balsam Fir		Low	Variable	Sapling
Black/Red (Hybrid) Oak		5	Pole/Sap/Log	7		White Pine		Low	Variable	Sapling
Bigtooth Aspen		40	Pole/Sapling	6	36	Black Cherry		Low	Variable	Sapling
						Red Maple		Low	Variable	Sapling

60	4310 - Pine, Oak Mix	Sawtimber Well	7.1	83	81-110	N/A	Mixed upland white pine with oak and aspen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Log	8		White Pine		Medium	Variable	Sapling
White Oak		5	Log/XLog	16		Black/Red (Hybrid) Oak		Low	Variable	Sapling
Black/Red (Hybrid) Oak		30	Log	15		Red Maple		Medium	Variable	Sapling
Red Pine		1	Log	15						
Bigtooth Aspen		14	Log/Pole	13						
White Pine		45	Log/Pole	12	83					

62	6127 - Lowland Pine	Sawtimber Well	6.9	149	201+	N/A	Mature natural white and red pine stand on the edge of the Muskegon River floodplain. There is a small amount of oak and aspen mixed in. In the north part of the stand there is a small inclusion of a white pine pole stand with a white pine understory, which is where the lower basal area is. The majority of the red pine is in the east part of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock		10	Log/Pole	12		White Pine		Low	Variable	Sapling
Red Pine		30	Log/Pole	13	146					
Red Maple		5	Pole/Log	9						
White Pine		40	XLog/Log/Pole	18	149					
Bigtooth Aspen		10	Pole	7						
Black/Red (Hybrid) Oak		5	Log/Pole	13						

63	42200 - Natural White Pine	Sawtimber Well	6.4	146	171-200	N/A	Mature white pine stand with hemlock and red pine. There is a low drainage with cedar that runs through the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		2	Log/Pole	10		White Pine		Medium	Variable	Sapling
Black/Red (Hybrid) Oak		3	Log	15						
White Pine		80	XLog/Log	22	146					
Hemlock		10	Log	15						
Red Pine		5	Log	16						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64 4199 - Other Mixed Upland Deciduous Sapling Medium 44.6 5 1-50 N/A Stand cut as a part of "Hesgone Harvest," 71-004-17, in fall 2018.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	7	Log	14		Jack Pine	Low	< 5 feet	Seeding
White Oak	1	Log	14					
Red Pine	3	Log/XLog	16	83				
White Pine	15	Sapling	1	5				
Bigtooth Aspen	10	Sapling	1	5				
Black/Red (Hybrid) Oak	5	Sapling	1	5				
Black Cherry	10	Sapling	1	5				
White Pine	13	XLog/Log	18					
Red Maple	35	Sapling	1	5				
Balsam Fir	1	Sapling	2					

65 6120 - Lowland Cedar Sawtimber Well 7.6 102 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	7		Black Spruce	Low	Variable	Sapling
Northern White Cedar	75	Log/Pole	12	102	Tag Alder	Low	10 - 20 feet	Tall Shrub
Black Spruce	5	Pole	7	102	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	15	Pole/Sapling	6					

66 6225 - Bog Nonstocked 1.5 No

67 4130 - Aspen Poletimber Well 9.0 35 N/A Aspen stand that was regenerate between 87-89 by cutting all aspen, red oak, white oak, jack pine, red maple, balsam fir, white birch, ash, basswood, and sugar maple that are 2" plus dbh.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Sapling	6	35	White Pine	Low	Variable	Sapling
White Pine	5	Pole	6		White Pine	Low	>20 feet	Pole
Paper Birch	1	Pole/Sapling	6		Red Maple	Low	>20 feet	Sapling
Red Maple	10	Sapling/Pole	4	35	Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	79	Pole	6	35				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 5.9 5 1-50 N/A Stand cut as a part of "Hesgone Harvest," 71-004-17, in fall 2018.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	1	Log	15	
White Pine	15	Log/Pole/XLog	13	
White Pine	15	Sapling	1	5
Pin Cherry	10	Sapling	1	5
Red Maple	30	Sapling	1	5
Black/Red (Hybrid) Oak	5	Sapling	1	5
Black/Red (Hybrid) Oak	10	Log/XLog	17	89
Bigtooth Aspen	7	Sapling	1	5
White Oak	2	Log	10	
Balsam Fir	5	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub

69 6113 - Lowland Maple Sawtimber Well 34.4 151 111-140 N/A

This stand is part of the Muskegon river floodplain and it's seasonally flooded with old river oxbows throughout. Made up of lowland maple consisting of both red and silver with swamp white oak and dead ash. There is an old RR grade and bridge site.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	5	Log/Pole	13	
Swamp White Oak	5	Log/XLog	16	
Silver Maple	50	XLog/Log	18	151
Red Maple	40	Log/XLog	17	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Swamp White Oak	Low	Variable	Sapling

71 4310 - Pine, Oak Mix Poletimber Well 9.0 57 1-50 N/A

Long, narrow, mixed upland stand in the northwest corner of the compartment. The age likely ranges +- ten years. There are some wet areas with alder.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Sapling	3	
Black/Red (Hybrid) Oak	25	Pole/Sapling	5	
Quaking Aspen	20	Sapling/Pole	4	
White Pine	25	Pole/Sap/Log	7	57
Red Pine	5	Pole/Sapling	7	
Jack Pine	20	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	Low	Variable	Sapling
Northern Pin Oak	Medium	Variable	Sapling

72 42120 - Planted Jack Pine Poletimber Well 45.5 45 81-110 N/A Stand was seeded in 1978.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	67	Pole/Sap/Log	7	45
Red Pine	10	Log/Pole	11	
White Pine	10	Log/Pole	11	
Balsam Fir	2	Pole	7	
Black/Red (Hybrid) Oak	10	Log/Pole	12	84
Bigtooth Aspen	1	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 42141 - Planted Mixed Pine, Mixed Deciduous Sapling Medium 27.9 8 Immature N/A Final Harvested Spring 2011, planted to red pine in 2015.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	33	Sapling	1	8
Pin Cherry	5	Sapling	2	12
Jack Pine	30	Sapling	2	12
Black/Red (Hybrid) Oak	32	Sapling	2	12

74 42120 - Planted Jack Pine Sapling Well 20.1 22 Immature N/A Cut 2000, planted to jack pine May 2001.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Sapling/Pole	4	
Jack Pine	95	Sapling/Pole	4	22

78 622 - Lowland Shrub Nonstocked 9.7 No Some lowland tree species filling in but overall non forested.

79 4133 - Aspen, Mixed Pine Poletimber Well 6.0 46 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	2	Pole	8	
Black/Red (Hybrid) Oak	2	Log/Pole	10	
Red Maple	25	Pole/Sapling	5	
White Pine	25	Pole/Log/Sap	8	
Red Pine	5	Pole/Log	9	
Bigtooth Aspen	41	Pole/Sapling	5	46

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling

80 4319 - Mixed Upland Forest Sapling Well 6.6 32 1-50 N/A FTP found for all trees to be cut except all red pine, oak, and white pine 10 DBH and greater.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	27	Sapling/Pole	4	36
White Pine	10	XLog/Log	20	
Red Pine	5	XLog/Log	22	
Bigtooth Aspen	25	Sapling/Pole	4	
Red Maple	28	Sapling/Pole	4	32
Black/Red (Hybrid) Oak	5	Log/Pole	10	

81 42200 - Natural White Pine Sawtimber Well 11.0 123 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	6	
White Pine	65	Log/Pole/XLog	14	123
Red Pine	30	Log/Pole/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Sapling
White Pine	Medium	Variable	Sapling
Black Spruce	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
82	42140 - Planted Mixed Pine	Poletimber Well	27.2	33	81-110	N/A	Very mixed stand by species, density, and size class.																																														
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83	42110 - Planted Red Pine	Sawtimber Well	49.6	84	81-110	N/A	Removed oak and jack pine in 1989 and thinned spring 2010. SE corner between losco and Hose Roads was left unthinned in 2010. Records show jack pine was seeded or underplanted in 1990.																																														
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Jack Pine	Medium	Variable	Sapling																																																		
84	42120 - Planted Jack Pine	Poletimber Well	67.9	33	1-50	N/A	Cut 1989, planted 1990. There are a couple aspen clones in the southwest finger.																																														
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85	42290 - Natural Mixed Pine	Poletimber Well	17.0	53	81-110	N/A																																															
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86	6225 - Bog	Nonstocked	2.1			No																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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88 42200 - Natural White Pine Sawtimber Well 45.0 45 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole	6		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole/XLog	12		Jack Pine	Low	Variable	Sapling
Red Pine	10	Log/Pole	12		White Pine	Low	Variable	Sapling
Jack Pine	20	Pole/Log	8	45	Red Maple	Low	>20 feet	Sapling
Bigtooth Aspen	2	Pole/Log	8					
White Pine	60	Log/Pole	12	45				

89 6124 - Lowland Spruce-Fir Poletimber Well 23.3 93 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	8	93	Red Maple	Low	Variable	Sapling
Balsam Fir	35	Pole	7	93	White Pine	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	13		Balsam Fir	Medium	Variable	Sapling
Black Spruce	15	Pole	7		Tag Alder	Low	10 - 20 feet	Tall Shrub
White Pine	20	Pole/Log	9	93				

90 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 5.5 130 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Hemlock	75	Log/Pole/XLog	14	130	Green Ash	Medium	Variable	Sapling

91 4130 - Aspen Poletimber Well 6.8 45 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	3	Log/XLog	16		Pin Cherry	Low	Variable	Sapling
White Pine	3	Pole	7		White Pine	Low	Variable	Sapling
Red Maple	1	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	93	Pole/Sap/Log	7	45				

92 42120 - Planted Jack Pine Sapling Well 52.2 22 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	1	Sapling	3	23	Northern Pin Oak	Low	5 - 10 feet	Sapling
Jack Pine	99	Sapling/Pole	4	22	Pin Cherry	Low	Variable	Sapling

Cut in 2000, planted to jack pine in 2001. Trace amounts of white pine and red pine pole/logs.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
93	4125 - Black, N. Pin Oak	Sapling Poor	46.9	3	Immature	N/A	Final harvested Winter 2020, and planned to trench and plant jack pine north of the ATV trail and red pine south of the ATV trail for a mixed stand of oak and pine. There are lots of oak stump sprout clumps filling in and a lot of Jack pine in the seedling layer that has not reached 3' to make the canopy yet. Give the stand a few more years and it will probably be a natural mixed stand of oak and jack pine.																																																																	
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94	42120 - Planted Jack Pine	Poletimber Well	48.4	33	1-50	N/A	Cut 1988 and planted 1990. Just barely reaching pole size overall. Trace amounts of big tooth aspen pole/saplings and white pine logs.																																																																	
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95	42210 - Natural Red Pine	Sawtimber Well	8.3	78	111-140	N/A																																																																		
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96	42120 - Planted Jack Pine	Poletimber Well	35.3	45	Unspecified	N/A	Stand was seeded in 1978.																																																																	
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97	4125 - Black, N. Pin Oak	Sapling Poor	9.3	4	Immature	N/A	Red pine stand thinned July 1989 and final harvested winter 2019 to manage for a mix of red pine and oak. Some 10 to 20 foot saplings and 20 plus foot poles of oak and pine were left at harvest. Reevaluate to determine if next step of planting red pine is necessary. Herbicide use was not originally approved for this stand.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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98 42141 - Planted Mixed Pine, Mixed Deciduous Sapling Well 70.0 22 Immature N/A Stand was cut in 2000 and planted to red pine in May 2001. Lots of natural jack pine and oak regeneration. Trace amount of white pine logs.

Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	1	Sapling	3	
Jack Pine	37	Sapling/Pole	3	
Black/Red (Hybrid) Oak	25	Sapling/Pole	3	23
Red Pine	37	Sapling/Pole	3	22

99 42110 - Planted Red Pine Poletimber Well 39.6 33 141-170 N/A Final harvested 1988, planted to red pine in 1990.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	99	Pole	7	33	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Jack Pine	1	Pole/Sapling	5	33				

100 4125 - Black, N. Pin Oak Sapling Medium 20.1 4 Immature N/A Removed jack pine and oak in 1989, Thinned in spring 2010 to 90 SF. Final harvest/overstory removal was done winter 2019. Left 3 small islands for retention.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Sapling/Pole	3	34
Jack Pine	1	Sapling	2	34
Red Pine	3	Log	15	
Pin Cherry	5	Sapling	1	4
Black/Red (Hybrid) Oak	81	Sapling	1	4
Black/Red (Hybrid) Oak	5	Sapling/Pole	3	34

101 42290 - Natural Mixed Pine Poletimber Poor 15.7 34 1-50 N/A Removed all species but red pine in 1989, removed red pine over-story in 2010.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Pole/Sapling	5	34	Black/Red (Hybrid) Oak	High	5 - 10 feet	Seeding
White Pine	30	Pole/Log/Sap	7		Red Pine	Low	Variable	Sapling
Jack Pine	30	Pole/Sapling	6	34	White Pine	Low	Variable	Sapling
Red Pine	30	Pole/Log/Sap	7	34	Jack Pine	Medium	Variable	Sapling
					White Oak	Low	Variable	Sapling

102 42120 - Planted Jack Pine Poletimber Well 69.6 33 1-50 N/A Cut 1988, planted to jack pine in 1990. Stand is just getting into pole size. There are trace amounts of red pine logs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	Log/Pole	10		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	2	Sapling/Pole	4					
Jack Pine	97	Pole/Sapling	5	33				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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103 42120 - Planted Jack Pine Poletimber Well 46.5 45 Unspecified N/A Jack pine seeded 1978.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	92	Pole	7	45	Jack Pine	Low	Variable	Sapling
Red Pine	3	Log/Pole	12		Red Pine	Low	< 5 feet	Sapling
White Pine	5	Pole/Log/Sap	7		Pin Cherry	Trace	5 - 10 feet	Sapling
					Northern Pin Oak	Medium	Variable	Sapling
					White Pine	Low	Variable	Sapling

104 42120 - Planted Jack Pine Sapling Well 34.9 22 Immature N/A Jack pine planted May 2001. Trace amounts of red pine and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	94	Sapling/Pole	4	22	Pin Cherry	Low	5 - 10 feet	Sapling
Northern Pin Oak	5	Sapling/Pole	3		Northern Pin Oak	Low	5 - 10 feet	Sapling
Pin Cherry	1	Sapling	3					

105 330 - Low-Density Trees Nonstocked 52.8 0 Immature 4211 - Planted Red Pine Final harvested Winter 2020, trenched 2021, site prep sprayed July 2022. Scattered white pine and red pine.

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	>20 feet	Log
White Pine	Medium	>20 feet	Log

106 42290 - Natural Mixed Pine Poletimber Well 33.9 55 111-140 N/A Cut the hardwoods and jack pine out of this stand in 2000. Pockets dominated by white pine, and pockets dominated by red pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	47	Log/Pole	13	75	White Pine	Medium	Variable	Sapling
Jack Pine	1	Pole/Sapling	6		Black/Red (Hybrid) Oak	High	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	2	Log/Pole/XLog	14		Jack Pine	Low	Variable	Sapling
White Pine	50	Pole/Log	9	55				

107 42290 - Natural Mixed Pine Poletimber Medium 53.6 82 51-80 N/A Removed hardwood and jack pine overstory in 2009.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Sapling	1	34	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Jack Pine	25	Sapling	1	34	White Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	2	Log/XLog	17	82	Jack Pine	Low	Variable	Sapling
Red Pine	25	Pole/Log	9	82				
White Oak	3	Log/XLog	17	82				
Black/Red (Hybrid) Oak	10	Sapling	1	34				
White Pine	30	Pole	7	82				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
108	42200 - Natural White Pine	Poletimber Well	6.2	48	81-110	N/A	2-Aged stand with oak over-topping white pine, stand has a steep bank to the Wolf Creek floodplain and is heavily used for camping.																																																		
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109	42140 - Planted Mixed Pine	Poletimber Well	33.7	44	81-110	N/A	Part of this stand was sprayed in the early 1980's for jack pine budworm.																																																		
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111	42200 - Natural White Pine	Sawtimber Well	5.6	84	81-110	N/A	Small, narrow stand between Porky Drive and Wolf Creek floodplain.																																																		
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113	6113 - Lowland Maple	Sawtimber Medium	104.6	89	51-80	N/A	Stand is in the floodplain of Wolf Creek amd is seasonally flooded. Areas that were dominated by ash are now open. There are a couple pockets heavy to cedar.																																																		
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114	629 - Mixed non-forested wetland	Nonstocked	5.6		Immature	No																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
115	42200 - Natural White Pine	Poletimber Well	1.8	32	Immature	N/A	Appears to have been originally prescribed as a habitat cut but was eventually cut commercially in 1991 to regenerate hardwoods for deer browse, but white pine seeded in naturally. This stand slopes over into the compt to the west for approx. 1/2 acre.																																																						
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116	42200 - Natural White Pine	Sawtimber Well	21.7	97	141-170	N/A	Stand is a transition zone between the upland to the north and the lowland to the south. Closer to the lowlands there are more red maple and more large legacy white pines.																																																						
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117	42200 - Natural White Pine	Sawtimber Medium	9.2	65	1-50	N/A	Most of the jack pine and oak over-story was removed in 2000.																																																						
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118	629 - Mixed non-forested wetland	Nonstocked	8.2			No																																																							
119	4319 - Mixed Upland Forest	Sawtimber Well	8.1	143	51-80	N/A	Looked across lowland shrub stand and saw what looks to be red maple and black spruce.																																																						
121	629 - Mixed non-forested wetland	Nonstocked	4.3			No	Old borrow pit for US-127.																																																						
122	6122 - Black Spruce	Sapling Well	8.1	50	1-50	N/A																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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123 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 31.3 51 111-140 N/A Habitat cut in 1972 but left red and white pine. There are a couple wet potholes with lowland shrubs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	7	Pole/Log	8	51	Red Maple	Low	Variable	Sapling
Red Maple	17	Pole/Sap/Log	7	51	Bigtooth Aspen	Low	Variable	Sapling
Red Pine	5	Log/Pole/XLog	10		White Pine	Medium	10 - 20 feet	Sapling
White Oak	1	XLog	20					
Bigtooth Aspen	35	Pole/Log	9	51				
White Pine	35	Log/Pole/XLog	10					

124 629 - Mixed non-forested wetland Nonstocked 8.0 No

125 4139 - Aspen, Mixed Deciduous Poletimber Well 66.1 59 Unspecified N/A Aspen clones with pockets of white pine, oak, and red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	5	59	Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Oak	2	Log/XLog/Pole	14	59	Balsam Fir	Low	>20 feet	Pole
Bigtooth Aspen	52	Pole/Log	9	59	White Pine	Low	Variable	Sapling
White Pine	15	Pole/Log	8		Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	13	Pole/Log	8	59	Balsam Fir	Low	Variable	Sapling
Red Pine	3	XLog/Log	20					

127 42200 - Natural White Pine Sawtimber Well 8.2 79 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	2	Pole	8		White Pine	Low	Variable	Sapling
Red Maple	10	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Balsam Fir	2	Pole/Sapling	6					
Black Spruce	1	Pole	7					
White Pine	85	Log/Pole	11	79				

128 6127 - Lowland Pine Sawtimber Well 6.8 142 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	49	XLog/Log	20	142	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Pine	5	Log/XLog	17		White Pine	Low	Variable	Sapling
Red Maple	25	Log/Pole	11		Black Spruce	Low	Variable	Sapling
Paper Birch	5	Pole/Sap/Log	7		Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole	7					
Black Spruce	5	Pole	7					
Bigtooth Aspen	1	Log/XLog	15					
Northern White Cedar	5	Log/Pole	10	142				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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129 4319 - Mixed Upland Forest Sawtimber Well 8.4 79 141-170 N/A Stand is marginally operable transition zone between swamp to the south/west and upland to the north/east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	10	79	White Pine	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log/XLog/Pole	14		Balsam Fir	Low	Variable	Sapling
Red Pine	4	Log/Pole	13		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Bigtooth Aspen	2	Pole	8					
White Oak	2	XLog/Log	18					
White Pine	40	Log/XLog/Pole	14					
Paper Birch	2	Pole/Log	8					

130 4319 - Mixed Upland Forest Poletimber Well 16.9 77 51-80 N/A Most jack pine is standing dead now.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	2	Log/Pole	11		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Maple	50	Pole/Sap/Log	7	77	White Pine	High	Variable	Sapling
White Oak	1	Log	15		Balsam Fir	Low	Variable	Sapling
White Pine	39	Pole/Log	9		Red Maple	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole	13					
Jack Pine	3	Log	12	77				

131 42210 - Natural Red Pine Sawtimber Well 14.2 78 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	7	Pole/Log/Sap	7		White Pine	Medium	Variable	Sapling
Red Pine	65	Log/Pole	12	78	Red Pine	Low	>20 feet	Sapling
White Oak	1	Log/Pole	13		Balsam Fir	Low	Variable	Sapling
Red Maple	10	Pole/Sap/Log	6	42	Black Spruce	Low	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log/XLog	15	77	White Oak	Low	5 - 10 feet	Sapling
Jack Pine	7	Pole/Log	9	78	Red Maple	Low	Variable	Sapling
					Black/Red (Hybrid) Oak	Low	Variable	Sapling

132 42200 - Natural White Pine Sawtimber Medium 29.9 42 1-50 N/A Removed everything but white oak and red and white pine in 2006 via shortwood operation. Heavy regeneration in the subcanopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1	Pole	7		Balsam Fir	Trace	Variable	Sapling
White Oak	5	Log	15	109	White Oak	Medium	Variable	Sapling
White Pine	94	Log/Pole	12	42	White Pine	Low	Variable	Sapling
					Red Maple	Low	>20 feet	Sapling
					Bigtooth Aspen	Medium	>20 feet	Sapling
					Black/Red (Hybrid) Oak	High	Variable	Sapling
					Jack Pine	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
133	42120 - Planted Jack Pine	Sapling Well	36.7	33	Immature	N/A	Cut 1987, planted 1990 to jack pine.																																				
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134	42120 - Planted Jack Pine	Sapling Well	13.7	26	Immature	N/A	Jack pine planted 1997 after 1995 cut, left narrow buffer between ORV trail and freeway fence.																																				
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																			
Red Pine	2	Sapling/Pole	3		Black/Red (Hybrid) Oak	Low	Variable	Sapling																																			
White Pine	2	Log/Pole	13																																								
Jack Pine	96	Sapling/Pole	3	26																																							
135	6225 - Bog	Nonstocked	1.4			No																																					
136	42120 - Planted Jack Pine	Poletimber Well	43.8	33	1-50	N/A	Cut 1987 and jack pine planted 1990. Small treed bog in middle of stand. Trace amounts of white oak and cherry in the canopy.																																				
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Jack Pine	98	Pole/Sapling	5	33																																							
137	42120 - Planted Jack Pine	Sapling Well	42.8	26	Immature	N/A	Planted to JP in 1997 after 1995 cut. There is a pocket of log and pole sized white pine in the SW 1/4 of the stand.																																				
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Jack Pine	97	Sapling/Pole	3	26	Pin Cherry	Low	10 - 20 feet	Sapling																																			
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138	42120 - Planted Jack Pine	Sapling Well	39.2	33	Immature	N/A	Jack pine planted 1990, narrow buffer left between ORV trail and freeway fence. A good chunk of the stand is low with leatherleaf and labrador tea ground cover.																																				
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139	4199 - Other Mixed Upland Deciduous	Sapling Medium	24.3	16	Immature	N/A	Cut 2007, mistakenly trenched, but not planted.																																				
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140	42120 - Planted Jack Pine	Sapling Well	39.8	26	Immature	N/A	Cut 1994, planted to jack pine 1997.																																													
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Pin Cherry	Low	Variable	Sapling																																																	
141	42290 - Natural Mixed Pine	Sapling Well	40.4	28	Immature	N/A	Planted red pine with jack pine volunteers that are starting to dominate the stand. Red pine was planted 1997.																																													
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Pin Cherry	Low	Variable	Sapling																																																	
142	42120 - Planted Jack Pine	Poletimber Well	79.4	30	51-80	N/A	Jack pine planted in 1993, parts (esp. NW corner) have planted red pine. Just barely pole sized overall.																																													
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Pin Cherry	Low	Variable	Sapling																																																	
143	42220 - Natural Jack Pine	Sapling Well	49.3	28	Immature	N/A	Planted red pine with natural jack pine regeneration from cut in 1995. Red pine was planted 1997.																																													
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145	42220 - Natural Jack Pine	Poletimber Poor	18.0	55	1-50	N/A	Cut 2015.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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146 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 22.4 14 Immature N/A Cut 2007 and planted to jack pine May 2009.

Canopy Species	% Cover	Size Class	DBH	Age
Scotch Pine	1	Sapling	2	
Pin Cherry	2	Sapling	2	
Jack Pine	72	Sapling	2	14
Black/Red (Hybrid) Oak	25	Sapling	2	

147 42110 - Planted Red Pine Sawtimber Well 59.9 105 111-140 N/A Planted red pine thinned in late 1990's and in 2015. About 8 acres south of Canoe Camp Road surface burned in a wildfire in July 2020.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	1	Log	14		Balsam Fir	Low	Variable	Sapling
White Pine	2	Log/Pole	13		White Oak	Low	Variable	Sapling
Red Pine	97	Log/XLog	15	105	White Pine	Low	Variable	Sapling
					Black/Red (Hybrid) Oak	Medium	Variable	Sapling

148 42220 - Natural Jack Pine Sapling Medium 2.3 29 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log/XLog	16	
Jack Pine	60	Sapling/Pole	4	29
Quaking Aspen	5	Sapling/Pole	3	
White Pine	10	Sapling/Pole	4	
Red Pine	18	Sapling/Pole	4	
White Pine	2	XLog	18	

149 6113 - Lowland Maple Sawtimber Well 5.3 118 51-80 N/A Very north end turns into balsam poplar with lowland grasses and tag their underneath.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Pole/Sapling	5		Balsam Fir	Full	Variable	Sapling
Balsam Poplar	7	Pole/Sapling	5		Tag Alder	Low	10 - 20 feet	Tall Shrub
Red Maple	90	Log/Pole	11	118				
Balsam Fir	2	Pole	7					

150 42120 - Planted Jack Pine Sapling Well 19.0 26 Immature N/A Cut 1996, planted 1997. Trace amounts of scotch pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	97	Sapling/Pole	4	26	Pin Cherry	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	3	Sapling/Pole	3	27	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
151	42220 - Natural Jack Pine	Sapling Well	33.6	26	Immature	N/A	Cut 1996, planted 1997, mix of planted red pine and natural jack pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Sapling/Pole	4		Pin Cherry	Low	5 - 10 feet	Sapling
White Pine	1	Log/Pole	12		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Jack Pine	64	Sapling/Pole	4	26				
Red Pine	30	Sapling/Pole	4	26				

152	629 - Mixed non-forested wetland	Nonstocked	2.4			No	
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153	42200 - Natural White Pine	Poletimber Well	25.9	43	81-110	N/A	White pine released in 1994.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	90	Pole/Log	9	43	Jack Pine	Low	Variable	Sapling
Red Pine	7	Log/Pole	11		Black/Red (Hybrid) Oak	High	Variable	Sapling
Jack Pine	3	Pole	6		Jack Pine	Low	>20 feet	Pole
					Bigtooth Aspen	Trace	>20 feet	Sapling

154	6113 - Lowland Maple	Sawtimber Well	45.1	112	111-140	N/A	Stand is within floodplain of the Muskegon River.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5	Log/Pole	10		Ash (spp.)	Low	Variable	Sapling
Black Ash	1	Pole/Log	8		Northern White Cedar	Low	>20 feet	Pole
Silver Maple	25	XLog/Log	18					
Red Maple	68	Log/XLog/Pole	14	112				
Balsam Fir	1	Pole/Log	8					

155	6126 - Lowland Jack Pine	Poletimber Well	4.3	45		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	4	Pole/Log/Sap	8	
Black Spruce	4	Pole	7	
Jack Pine	77	Pole	7	45
Red Pine	15	Pole	8	

157	6113 - Lowland Maple	Poletimber Medium	93.2	97	81-110	N/A	Stand is in the flood plain of Towlne Creek and the Muskegon River and on a few lower benches along these watercourses. There are pockets that were once dominated by ash that are now completely open.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Log/Pole	13	97	Tag Alder	Medium	Variable	Tall Shrub
White Pine	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	10	Pole	7		White Pine	Medium	Variable	Sapling
Swamp White Oak	10	Log	12		Red Maple	Medium	Variable	Sapling
Silver Maple	20	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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158 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 19.3 98 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Log	8	98	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	20	Pole/Sapling	7		White Pine	Low	Variable	Sapling
Northern White Cedar	25	Pole/Log	8					
Black/Red (Hybrid) Oak	5	Log	14					
Red Maple	40	Log/Pole	10	98				
White Pine	5	Log/XLog/Pole	14					

159 4119 - Mixed Northern Hardwoods Sawtimber Well 13.2 99 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	3	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log	14	99	White Pine	Low	Variable	Sapling
White Oak	5	Log	14	99				
Red Maple	67	Log/Pole	12	99				
Bigtooth Aspen	15	Log/XLog	16	99				

Stand is on a bench above the Muskegon River and has a few intermittent drainages that would need mats to cross. Only access is down a steep bank or possibly through private property which was refused in 2005.

160 6113 - Lowland Maple Sawtimber Well 26.8 90 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Silver Maple	10	XLog/Log	18		Ash (spp.)	Low	Variable	Sapling
Northern White Cedar	1	Log	12		Musclewood/Hornbeam	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	3	Log/XLog	17		Northern White Cedar	Low	>20 feet	Pole
Red Maple	60	Log/Pole	11	90	White Pine	Low	Variable	Sapling
Basswood	3	Pole/Log	9					
Swamp White Oak	20	Log	15					
Green Ash	3	Pole/Log	9					

161 6120 - Lowland Cedar Poletimber Poor 10.1 97 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	65	Pole	7	97	Tag Alder	Medium	Variable	Tall Shrub
Red Maple	15	Pole/Log/Sap	8					
Balsam Fir	10	Pole/Sapling	6					
Paper Birch	5	Pole/Sapling	7					

162 629 - Mixed non-forested wetland Nonstocked 4.0 No Mixed lowland tree species filling in, but not forested yet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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163 6120 - Lowland Cedar Sawtimber Well 46.0 97 N/A Wet lowland conifer. NW corner/north edge along road is an inclusion of oak and white pine which is a long narrow stand with steep banks going down to the swamp.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Paper Birch	2	Pole/Sapling	6		Tag Alder	Medium	Variable	Tall Shrub
Black Spruce	26	Pole/Log	8					
Balsam Fir	2	Pole/Sapling	6					
Northern White Cedar	65	Log/Pole	10	97				

164 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 20.6 108 81-110 N/A Stand is an upland knob surrounded by lower ground (old oxbows) and was J9 last YOE, JP component is now mostly gone or on the way out as a component of the stand, stand is now oak/RM XL's over BS/BF/WP P-L's and has lots of conifer saplings in the U/S, lots of blowdown (mostly JP/BF/BTA) and lots of wildlife sign/scat with good u.s. cover and abundant water sources near-by, stand is a mix of ages/species/sizes, poor access/no access without a major road building project, better to leave as part of the old growth SCA along the Muskegon River for the above reasons

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	2	Log/XLog	16	108	Red Maple	Low	Variable	Sapling
Balsam Fir	5	Pole	7	108	Balsam Fir	Medium	Variable	Sapling
White Pine	30	Log/Pole	12	108	White Pine	Medium	Variable	Sapling
Jack Pine	5	Log	14		White Spruce	Medium	Variable	Sapling
Red Maple	28	Log/Pole	12	108				

165 629 - Mixed non-forested wetland Nonstocked 28.0 No Dead cedar. White pine, tamarack, and spruce are filling in but overall not forested.

166 6127 - Lowland Pine Poletimber Medium 6.2 26 81-110 N/A Poor quality white pine with excessive branching growing on hummocky ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole/Sapling	5		Pin Cherry	Low	Variable	Sapling
White Pine	70	Pole/Sap/Log	6	26	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Jack Pine	15	Pole/Sapling	5					
Red Pine	1	Pole	7					
Red Maple	1	Pole/Sapling	5	26				
Black/Red (Hybrid) Oak	2	Sapling/Pole	4	26				
Balsam Fir	1	Sapling/Pole	4					

167 4130 - Aspen Poletimber Well 46.1 27 Immature N/A Cut 1996.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	7	Pole/Sapling	5		Pin Cherry	Low	Variable	Sapling
Balsam Fir	1	Pole	7		White Pine	Low	Variable	Sapling
White Pine	1	XLog/Log	18		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Sapling	5	27	Red Maple	Low	Variable	Sapling
White Pine	2	Pole	6		Jack Pine	Low	10 - 20 feet	Sapling
Black Cherry	1	Sapling/Pole	3		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	1	Pole	5		White Oak	Low	Variable	Sapling
Bigtooth Aspen	80	Pole/Sapling	5	27				
Red Maple	2	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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168 4130 - Aspen Sapling Well 9.2 16 Immature N/A Cut 2007.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	1	Sapling	3	16	Red Maple	Low	Variable	Sapling
Pin Cherry	7	Sapling/Pole	3		White Pine	Low	< 5 feet	Sapling
White Oak	1	XLog/Log	18		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Maple	2	Sapling	3	16	Jack Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	89	Sapling/Pole	3	16	Pin Cherry	Low	Variable	Sapling
					White Oak	Low	Variable	Sapling

169 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 13.4 105 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	1	Pole/Log	8		Red Pine	Low	Variable	Sapling
Bigtooth Aspen	5	Pole/Log/XLog	9		Balsam Fir	Low	Variable	Sapling
White Pine	25	Pole/Log	9	51	White Pine	Medium	Variable	Sapling
White Oak	15	Log/XLog/Pole	14	105				
Red Pine	2	Log/Pole/XLog	13					
Red Maple	8	Log/Pole	10					
Black/Red (Hybrid) Oak	44	Log/XLog/Pole	14	105				

170 42200 - Natural White Pine Poletimber Well 5.5 59 141-170 N/A Stand is at the confluence of the Muskegon River and Townline Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log	14		White Pine	Low	Variable	Sapling
White Oak	10	XLog/Log/Pole	18	94	Red Maple	Low	Variable	Sapling
Balsam Fir	2	Pole	7		Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak	3	Log/Pole/XLog	13	94	Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	80	Pole/Log	8	59				

171 42250 - Pine, Oak Poletimber Well 67.7 27 1-50 N/A Cut 1996 and regenerated naturally. Just barely starting to reach pole size overall

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	27	Sapling/Pole	4	27	White Oak	Low	5 - 10 feet	Sapling
Balsam Fir	1	Pole	6		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
White Oak	3	Pole/Sapling	5					
Jack Pine	63	Pole/Sapling	5	27				
White Pine	3	Pole/Sap/Log	6					
Bigtooth Aspen	1	Pole/Sapling	5					
Pin Cherry	2	Sapling/Pole	4	27				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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172 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 7.2 82 81-110 N/A Stand includes a steep bank and the floodplain of the Muskegon River.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Log/Pole	12	82	Musclewood/Hornbeam	Medium	Variable	Sapling
White Pine	10	Pole/Log/XLog	8		Tag Alder	Low	Variable	Tall Shrub
Basswood	25	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
Red Maple	25	Pole/Log	9	82	White Pine	Low	Variable	Sapling
Bigtooth Aspen	5	Log	14					
Swamp White Oak	5	Log	12					
Black/Red (Hybrid) Oak	5	Log/Pole	12					
Balsam Fir	15	Pole	6					

173 500 - Water Nonstocked 0.8 No

174 42200 - Natural White Pine Poletimber Well 8.1 50 141-170 N/A Stand is a long narrow strip on a steep bank between high ground and low ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	2	Log/Pole	10		White Pine	Low	Variable	Sapling
White Pine	71	Pole/Log	8	50	Balsam Fir	Low	Variable	Sapling
Red Maple	2	Pole/Log	9		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log	14	94				
White Oak	15	Log/Pole/XLog	14	94				

175 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Well 30.2 94 141-170 N/A Stand is on a bench in the floodplain of Townline Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole/Log	9	94	White Pine	Medium	Variable	Sapling
Paper Birch	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	15	Pole/Log	8	94				
White Pine	30	XLog/Log	22	112				
Balsam Fir	5	Pole	7					

176 4311 - Pine, Aspen Mix Sapling Well 35.3 26 Immature N/A Stand was cut in 1997.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	1	Pole/Sapling	5		Balsam Fir	Low	Variable	Seeding
Balsam Fir	2	Pole/Sapling	6		Pin Cherry	Low	Variable	Sapling
Red Maple	2	Sapling/Pole	4	26	Black/Red (Hybrid) Oak	Low	Variable	Seeding
Bigtooth Aspen	35	Sapling/Pole	4	26	White Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	10	Sapling/Pole	4	26				
White Pine	10	Log/Pole/Sap	12					
Jack Pine	35	Pole/Sapling	5	26				
Pin Cherry	5	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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177 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 23.4 102 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Log/Pole	12		Beech	Trace	5 - 10 feet	Sapling
Red Maple	57	Log/Pole/XLog	11	102	Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	20	Pole	7	81	Ash (spp.)	Trace	Variable	Sapling
White Pine	5	Log/Pole	13		Balsam Fir	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	1	Pole/Log	8		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black Spruce	13	Pole	7	81				
Northern White Cedar	2	Log/Pole	12					

178 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 52.5 102 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	40	Pole/Log	9	102
Northern White Cedar	5	Pole/Sap/Log	7	102
Black Spruce	38	Pole/Sap/Log	7	102
Paper Birch	2	Sapling	3	
Balsam Fir	5	Pole/Sapling	5	
Red Maple	10	Pole/Log/Sap	8	

179 6120 - Lowland Cedar Poletimber Medium 21.3 97 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Sap/Log	7	97	Tag Alder	High	Variable	Tall Shrub
Northern White Cedar	55	Pole/Log	9	97	Ash (spp.)	Low	Variable	Sapling
Balsam Fir	25	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Paper Birch	5	Pole/Sap/Log	6					

180 4319 - Mixed Upland Forest Sapling Medium 16.0 18 Immature N/A Cut 2007

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Sapling	2	
Paper Birch	3	Sapling	2	
White Pine	5	Sapling	3	
Pin Cherry	3	Sapling	3	
Jack Pine	15	Sapling/Pole	3	
Red Maple	20	Sapling	2	18
Black/Red (Hybrid) Oak	20	Sapling	3	18
Tamarack	1	Sapling	2	
Red Pine	15	Sapling	3	
Bigtooth Aspen	3	Sapling	3	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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181 6122 - Black Spruce Poletimber Well 26.8 102 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	7	Pole/Log	9		Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir	10	Pole	7	102	Balsam Fir	Low	Variable	Sapling
Black Spruce	78	Pole/Log	9	102	Black Spruce	Low	Variable	Sapling
Northern White Cedar	3	Log/Pole	10	102				
Tamarack	2	Pole	7					

182 4130 - Aspen Sapling Well 16.3 7 Immature N/A Cut Fall 2016

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	8	Log/Pole	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	4	Sapling	1	7				
Bigtooth Aspen	70	Sapling	1	7				
Red Maple	10	Sapling	1	7				
Pin Cherry	3	Sapling	1	7				
Black/Red (Hybrid) Oak	5	Log/XLog	16					

183 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 43.9 27 Immature N/A Cut 1996 and regenerated naturally.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole/Sapling	6		Pin Cherry	Low	Variable	Sapling
White Pine	1	Log/Pole/Sap	13		White Pine	Low	Variable	Sapling
Jack Pine	35	Pole/Sapling	6	27	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Pin Cherry	4	Sapling/Pole	4					
Quaking Aspen	10	Sapling/Pole	4	27				
Black/Red (Hybrid) Oak	40	Pole/Sapling	5	27				

184 42120 - Planted Jack Pine Poletimber Well 16.4 29 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	9	Pole/Sapling	5	31
Pin Cherry	1	Sapling	3	
Jack Pine	90	Pole/Sapling	5	29



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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185 4310 - Pine, Oak Mix Sawtimber Well 12.2 45 81-110 N/A Strip left from when stands to the east were cut, part of strip has been cut also with some jack pine being removed in 1983-1989. Far SE corner is wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log/Pole/XLog	13	67	Jack Pine	Low	Variable	Sapling
Red Pine	10	Log/Pole	12	67	Pin Cherry	Low	Variable	Tall Shrub
Jack Pine	20	Pole/Log	8	45	Red Maple	Low	Variable	Sapling
Balsam Fir	1	Pole	7		Balsam Fir	Low	Variable	Sapling
Paper Birch	1	Pole/Log	9		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	23	Log/Pole/XLog	11		White Pine	Low	Variable	Sapling
Red Maple	25	Log/Pole	10	45				

186 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 13.3 26 Immature N/A Natural jack pine and hardwood regeneration from 1996.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	35	Sapling/Pole	3	26
Jack Pine	35	Pole/Sapling	6	26
White Pine	5	Pole	6	
Pin Cherry	15	Sapling	3	
Red Maple	10	Sapling/Pole	4	26

187 4311 - Pine, Aspen Mix Sapling Medium 6.4 16 Immature N/A Cut 2007.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	2	
Jack Pine	45	Sapling	3	16
Pin Cherry	10	Sapling	2	
Black/Red (Hybrid) Oak	15	Sapling	2	16
Quaking Aspen	25	Sapling	2	16

188 42121 - Planted Jack Pine, Mixed Deciduous Poletimber Well 25.4 29 Immature N/A Nice aspen clone in the east central part of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	78	Pole/Sapling	6	29	Black/Red (Hybrid) Oak	Medium	Variable	Seeding
Pin Cherry	3	Sapling/Pole	4		Pin Cherry	Low	Variable	Tall Shrub
White Pine	2	Log/XLog/Pole	12		Jack Pine	Low	Variable	Seeding
Black/Red (Hybrid) Oak	10	Pole/Sapling	5	31				
Bigtooth Aspen	7	Pole/Sapling	6	31				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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189 4131 - Aspen, Oak Sapling Well 22.2 16 Immature N/A Cut in 2007. South part of stand is almost solid aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	3	Sapling	2	
Red Pine	1	Sapling/Pole	4	
White Pine	5	Sapling/Pole/Log	3	
Quaking Aspen	29	Sapling	2	16
Paper Birch	2	Sapling	2	
Jack Pine	12	Sapling	3	
Black/Red (Hybrid) Oak	25	Sapling	1	16
Red Maple	8	Sapling	2	
Bigtooth Aspen	15	Sapling/Pole	4	

190 4130 - Aspen Sapling Well 19.5 7 Immature N/A Cut Fall 2016

Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	2	Sapling	1	
White Oak	1	XLog/Log	18	
Black/Red (Hybrid) Oak	3	Sapling	1	7
Quaking Aspen	40	Sapling	1	7
Red Maple	9	Sapling	1	7
Bigtooth Aspen	45	Sapling	1	7

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Low	< 5 feet	Seeding
Jack Pine	Low	< 5 feet	Seeding

191 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 31.3 25 Immature N/A Cut 1997 and planted to JP in 1998.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	1	Sapling/Pole	4	26
Quaking Aspen	15	Sapling/Pole	4	26
Black/Red (Hybrid) Oak	30	Pole/Sapling	5	26
Jack Pine	33	Pole/Sapling	5	25
White Pine	1	Log/Pole	13	
Bigtooth Aspen	15	Pole/Sapling	5	
Pin Cherry	5	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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193 6130 - Fir, Aspen, Maple Poletimber Medium 10.1 98 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	4	Pole/Sapling	6		White Pine	Low	Variable	Sapling
Balsam Fir	38	Pole	6		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Northern White Cedar	10	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Tamarack	2	Log/Pole	10					
White Pine	1	Log/Pole	10					
Red Maple	38	Log/Pole	10	98				
Black Spruce	5	Pole/Log	8					
Quaking Aspen	2	Pole	7					

194 629 - Mixed non-forested wetland Nonstocked 10.6 No

195 6124 - Lowland Spruce-Fir Poletimber Medium 766.4 102 N/A Wet swamp conifer stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	40	Pole/Log	8	102	Tag Alder	Low	10 - 20 feet	Tall Shrub
Balsam Fir	10	Pole	8		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	35	Pole/Log	8	102	Black Spruce	Low	Variable	Sapling
Paper Birch	2	Pole/Log	8					
Red Maple	3	Pole/Log	8					
Tamarack	10	Pole/Log	8	102				

197 622 - Lowland Shrub Nonstocked 6.3 No Some lowland tree species filling in but overall still a non forested stand.

198 42200 - Natural White Pine Sawtimber Well 6.4 143 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log	13		Red Maple	Low	>20 feet	Pole
Red Maple	5	Log/Pole	13		White Pine	Full	10 - 20 feet	Sapling
Red Pine	5	XLog/Log	20					
White Pine	85	XLog/Log	22	143				

199 42200 - Natural White Pine Sawtimber Poor 7.4 112 81-110 N/A Records found that they removed red maple, aspen, and paper birch in 1972 with a habitat cut.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	12		Red Maple	Low	>20 feet	Pole
White Pine	95	XLog/Log	22	112	Red Maple	High	>20 feet	Sapling
					Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
200	42290 - Natural Mixed Pine	Sawtimber Well	24.9	112	171-200	N/A																																																		
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202	629 - Mixed non-forested wetland	Nonstocked	24.0			No	Some lowland species are filling in but overall non forested.																																																	
203	6130 - Fir, Aspen, Maple	Poletimber Medium	15.4	97		N/A	Habitat cut in 1971 by removing red maple, aspen, and paper birch.																																																	
204	629 - Mixed non-forested wetland	Nonstocked	21.8			No																																																		
205	4130 - Aspen	Poletimber Well	12.8	51		N/A	Habitat cut in 1971 by removing aspen, red maple, and paper birch.																																																	
207	6122 - Black Spruce	Poletimber Well	19.5	102	81-110	N/A	Higher density of cedar in the southern part of the stand.																																																	
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208	6113 - Lowland Maple	Poletimber Well	8.0	52	51-80	N/A	Records indicste that the stand was habitat cut in 1971 removing red mae, aspen, paper birch, and some sugar maple, bur left basswood, ash, balsam fir, and black spruce.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
210	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	12.8	97		N/A	