



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71048

Entry Year 2024

Acreage: 1,578

County Roscommon

Management Area: Upper Muskegon

Stand Examiner: Jason Lewicki

Legal Description:

T22N, R02W Sections 26, 27 and 28

Identified Planning Goals:

Vegetation management in the Upper Muskegon management area (MA) (Figure 2.27.1) will provide forest 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 this 10-year period 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. Expected trends within this 10-year planning period 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:

The soils on the uplands generally consist of Grayling and Saugatuck sands while the lowlands are dominated by Rifle peat.

The topography within the compartment is generally flat to gently rolling.

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

There is some private land holders scattered throughout the compartment. Much of the surrounding area and township is under State Ownership.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

The headwaters of Denton creek lie just to the west of the compartment.

Wildlife Habitat Considerations:

The compartment is located just east of the Denton Creek Flooding and is bisected by Crooked Road. Aspen, mixed deciduous, and jack pine are the most common timber types in the compartment. A drainage runs from SE to NW which eventually flows toward the Backus system. The compartment is important to deer, turkey, grouse and woodcock. Black bear and snowshoe hare also frequent the compartment, especially in association with the lowland areas of the compartment. This compartment sees heavy pressure for hunting with Crooked Road as a popular public access route. Management considerations include treatments that will promote hard and soft mast production for wildlife including retention of large crown mast producing trees when possible. Early successional species such as aspen should be managed to ensure young stands are always available for grouse and woodcock. To promote snowshoe hare and other small mammals, brush piles will be constructed in association with timber harvests along lowland edges. Currently there are no managed wildlife openings within the compartment. The Denton dam is currently planned for removal in 2022 due to its age and significant hazard rating. This dam removal has the potential to affect the hydrology within this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Sections 26-28, T22N-R2W, Roscommon County

No known potential exists for metallic minerals in this part of the state. The nearest active sand/gravel pit is two miles to

the east. Commercial aggregate and borrow pits are common in this region, and there is generally good potential for sand & gravel within the outwash and ice-contact glacial deposits of the area. The best potential for sand & gravel in the compartment appears to be on the uplands in the northeast of Sec 26. Some minor oil production has occurred in the compartment consisting of the Denton Creek Field, an eight-well field that produced from the Detroit River Group and was abandoned in the late 1990s. There has been no additional well drilling or permitting activity in the compartment since that time. While there has been some more recent oil & gas leasing in the compartment, potential for hydrocarbon development in this area is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Vehicle access is very good throughout the compartment due to its proximities to M-55 and F-97. Multiple county roads and forest roads traverse the uplands increasing its accessibility.

Survey Needs:

There will be a survey needed around private property for when stand 116 is harvested.

Recreational Facilities and Opportunities:

The snowmobile and ORV trail run through this compartment. It is also a very popular area for hunting.

Fire Protection:

This compartment has no recent history of major fires with numerous natural barriers to slow the spread of fire. Recreation is popular in this compartment and may contribute to a fire start.

Additional Compartment Information:

The following reports from the Inventory are attached:

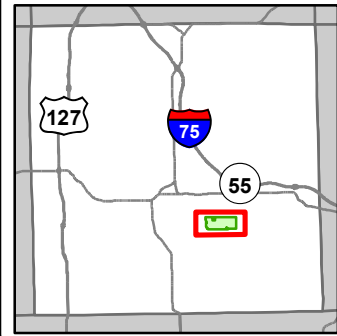
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

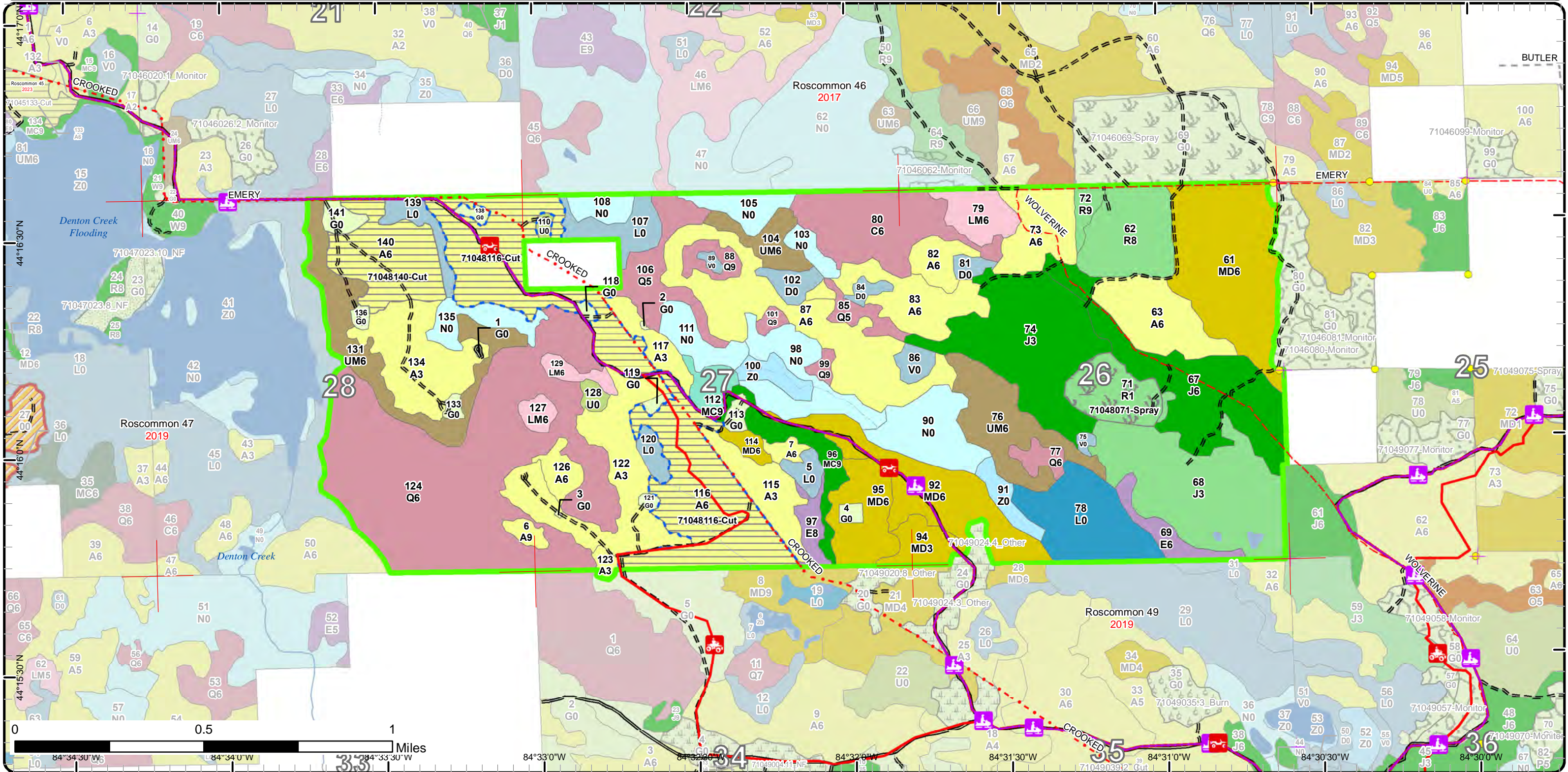
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 48
 T22N, R02W, Sec. 26-28
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
 YOE: 2024
 Acres: 1578.3 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 12/27/2022
 Map Phase: Post-Review

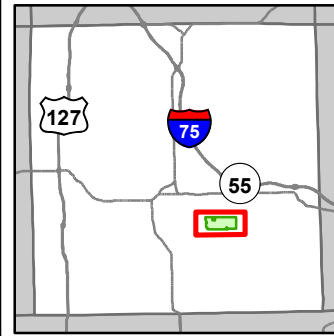


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Clearcut (w/Reserves)
- 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
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

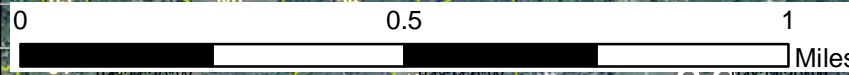
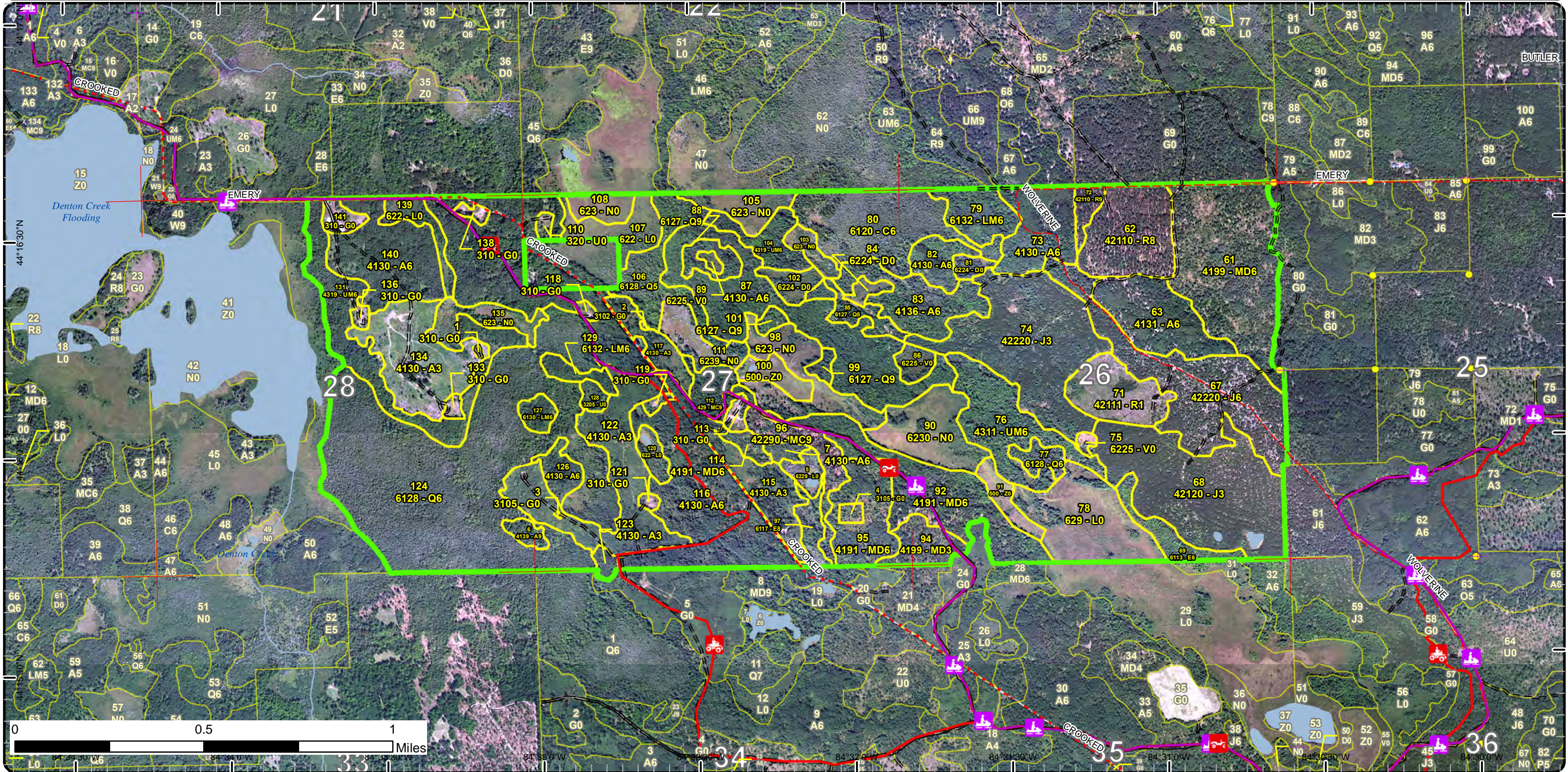


Stand Boundary Map

Compartment: 48
 T22N, R02W, Sec. 26-28
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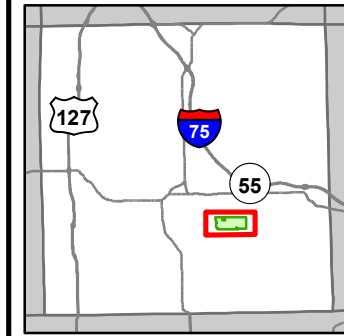
- Miris Corners
 - + Remonumented Section Corners
 - Survey Grade Corners
 - Counties
 - DNR - Secondary Forest Road
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 - County - Gravel Road
 - County - Dirt Road (Seasonal)
 - Private - Dirt / Gravel Road
 - 🚲 ORV Trails
 - 🚲 ORV Routes
 - 🚲 Snowmobile Trails
 - Designated ATV
 - Designated ORV Route
 - Designated Snowmobile Trails
 - Intermittent Stream
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers
 - Compartment Boundary
 - Stand Boundaries
- 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 629 - Mixed Non-forested Wetland
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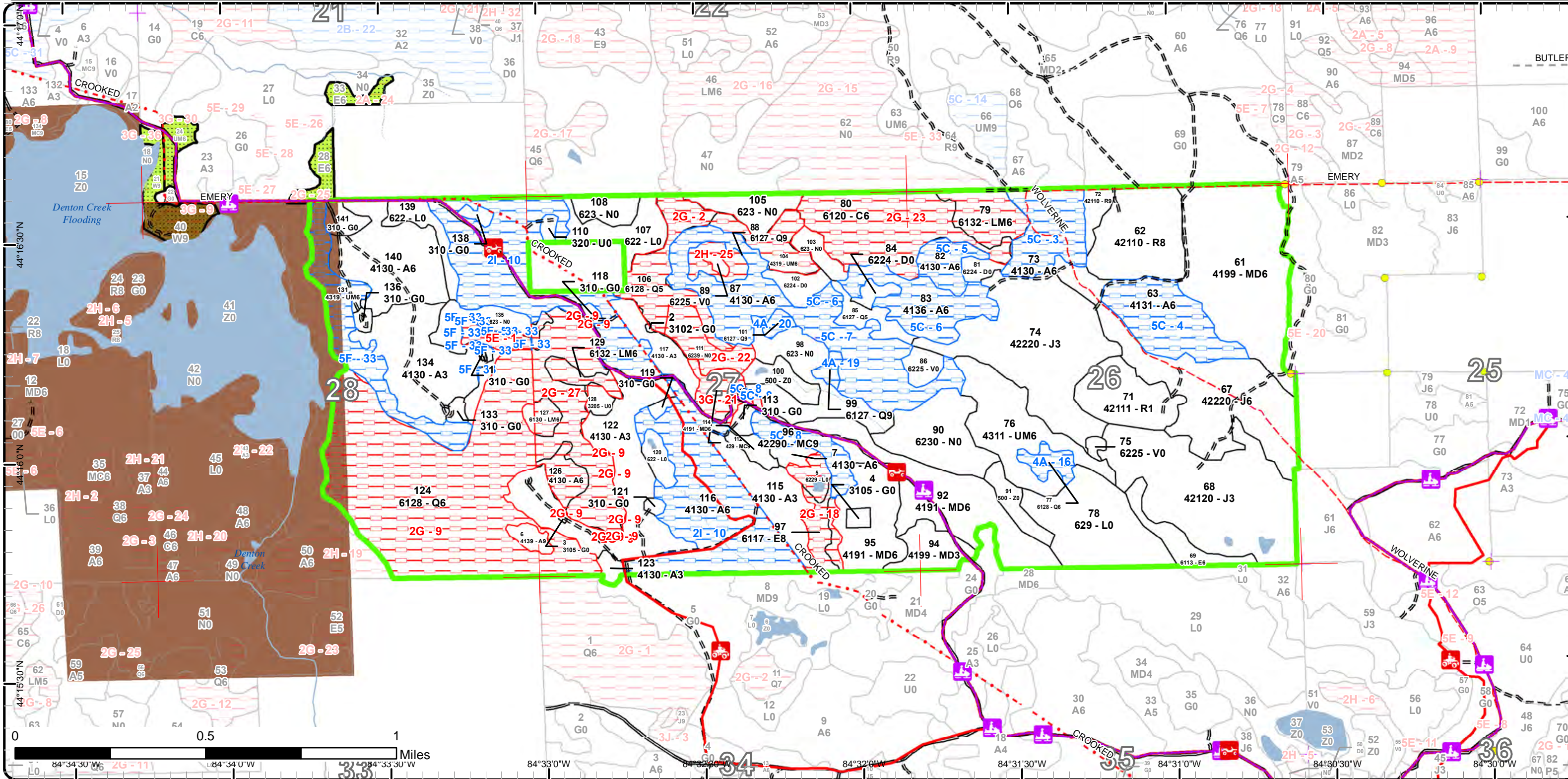
84°38'0" W
84°32'0" W
84°31'0" W
84°30'0" W

Special Conservation Areas

Compartment: 48
 T22N, R02W, Sec. 26-28
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
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- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- 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)
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Wildlife Management Areas
- Possible Type 2 Old Growth



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	70	51	0	3	300	38	0	4	0	0	0	0	0	0	0	0	0	466
Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Cedar	0	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	46
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Jack Pine	0	0	0	146	0	0	0	0	0	0	0	0	0	0	0	0	0	62	208
Lowland Conifers	0	0	0	0	0	0	0	8	0	0	0	218	3	0	0	0	0	13	241
Lowland Deciduous	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	7	17
Lowland Mixed Forest	0	0	0	0	0	10	0	0	0	0	0	15	0	0	0	0	0	0	25
Lowland Shrub	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Marsh	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104
Mixed Upland Deciduous	0	0	0	37	4	120	0	0	0	0	0	0	0	0	0	0	0	0	161
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	16
Red Pine	0	23	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	62
Treed Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Upland Mixed Forest	0	0	0	0	0	88	0	0	0	0	0	0	0	0	0	0	0	0	88
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Total	240	93	51	183	7	529	38	39	12	0	0	296	3	0	0	0	0	91	1579



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 48
Total Compartment Acres: 1,578

Commercial Harvest - 38
Harvests with Site Condition - 131
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen		170	0	0	0	0	0	0	0	0	170
	Total	170	0	0	0	0	0	0	0	0	170

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		170	0	0	0	22	0	0	0	0	191
Next Step		0	0	0	0	0	170	0	0	0	170
	Total	170	0	0	0	22	170	0	0	0	361



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

71	71048071- Spray	21.6	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	8	Immatur re	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine 80% FTG <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											
116	71048116-Cut	131.4	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clearcut stand with a 2" spec. Leave islands of retention preferably with a pine component present. Leave a buffer/retention along the bog edge. Apply drumming log specs to increase grouse habitat. Snowmobile and orv trail present. Protect with appropriate specs. Survey needed on the north end along private. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen at fully stocked levels. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2023											
140	71048140-Cut	38.1	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clearcut stand with a 2" spec and regenerate aspen. Leave blowdown areas out of the sale as well as some retention possibly along the east swamp line. Apply drumming log spec and place some brush piles along swamp edges to increase grouse and hare habitat. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen at fully stocked levels. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023											

Total Treatment 191.1
Acreage Proposed:

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 48
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions								
		With Condition				2I	4A	5C	5F	2G	2H	3G	5E	
465	168	289	8	8	Aspen	131	0	157		8				0
8	8	0	0	0	Bog									
46	0	0	46	46	Cedar					46				
20	20	0	0	0	Herbaceous Openland					0				
208	208	0	0	0	Jack Pine									
241	8	11	222	222	Lowland Conifers		11			215	7			0
18	10	0	7	7	Lowland Deciduous					7				
25	1	0	24	24	Lowland Mixed Forest					24				
74	68	0	5	5	Lowland Shrub					5				
104	90	0	14	14	Marsh		0			14				0
161	161	0	0	0	Mixed Upland Deciduous									
16	0	11	5	5	Natural Mixed Pines			11		3		2		
62	62	0	0	0	Red Pine									
13	13	0	0	0	Treed Bog					0				
9	0	0	9	9	Upland Conifers					0		9		
88	40	30	18	18	Upland Mixed Forest		0		30	12				6
5	5	0	0	0	Upland Shrub					0				
15	15	0	0	0	Water					0				
1,578	878	341	359	359	Total Forested Acres	131	11	169	30	336	7	11		6
	56%	22%	23%	23%	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	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: wet cedar swamp							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 48
Year of Entry: 2024

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 48
Year of Entry: 2024

7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	150	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2I: Survey needed	131	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	4A: No Markets Available for these Forest Products	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 48
Year of Entry: 2024

19	Available	4A: No Markets Available for these Forest Products	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	4A: No Markets Available for these Forest Products	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3G: Other Influence zones - See comments	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 48
Year of Entry: 2024

27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5F: Evaluated for Forest Health Considerations	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Terrain is transition zone between upland to the east and lowland to the west and south, Part of this stand was recently cut in 2015, rest of stand has enough aspen that it should regenerate to aspen if held and cut in 10 years with Stand #51, stand is still fairly young yet							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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	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	310 - Herbaceous Openland	Nonstocked	0.4	0	Unspecified	No	DEQ website shows wellsite being a few hundred north of this site but it is believed to be here. permit #37227. Updated stand data to not "managed oil/gas". Muskegon Development is not responsible for any additional surface restoration. R Merrick
2	3102 - Grass	Nonstocked	0.2		Unspecified		Permit #36308. Active oil and gas
3	3105 - Mixed Upland Herbaceous	Nonstocked	0.1		Unspecified		Permit #37272. Oil and gas production. Site was not field checked due to field restrictions of 2020. Site may actual be north of here along 2track. This is where DEQ site shows it..
4	3105 - Mixed Upland Herbaceous	Nonstocked	2.0	0	Unspecified		DEQ data shows active oil and gas site. Permit #36685
5	6229 - Mixed lowland shrub	Nonstocked	5.4	0		No	

6	4139 - Aspen, Mixed Deciduous	Sawtimber Well	3.8	75	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log/Pole	10	
Red Maple	20	Pole/Log	8	
Balsam Fir	5	Pole	6	
Paper Birch	10	Pole	5	
Quaking Aspen	55	Log/Pole	12	75

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

7	4130 - Aspen	Poletimber Well	3.4	49	81-110	N/A	Small stand of primarily quaking aspen poletimber.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	95	Pole	8	49
White Pine	5	Pole	6	

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

61	4199 - Other Mixed Upland Deciduous	Poletimber Well	73.1	49	1-50	N/A	Low quality oak and aspen stand. Some open areas are dominated by cherry and grass. Some bigtooth aspen clones found mostly on the north end. Could possibly harvest the aspen and jack pine out of stand and leave all of the oak.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	10	Pole	8	
Bigtooth Aspen	2	Pole	8	
Black/Red (Hybrid) Oak	35	Pole/Sapling	6	49
Quaking Aspen	28	Pole	6	49
Pin Cherry	25	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Pin Cherry	Medium	5 - 10 feet	Sapling

62	42110 - Planted Red Pine	Sawtimber Medium	34.2	64	81-110	N/A	Thinned in 1997 by removing hardwoods and jack pine. Second thinning in Summer 2016 to 100 SF
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	98	Log	13	64
Bigtooth Aspen	2	Sapling/Pole	2	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
Pin Cherry	Medium	Variable	Sapling
Jack Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
63	4131 - Aspen, Oak	Poletimber Well	30.6	49	51-80	N/A	Low quality oak stand with pockets of aspen and scattered jack pine.																																					
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67	42220 - Natural Jack Pine	Poletimber Well	62.4	49	1-50	N/A	Natural jack pine stand. Needs another 10+ years to grow before harvesting again.																																					
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68	42120 - Planted Jack Pine	Sapling Well	76.3	26	Immature	N/A																																						
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69	6113 - Lowland Maple	Poletimber Well	10.5	49	51-80	N/A	Primarily a red maple poletimber stand along a swamp edge. Operable for the most part. Small pocket of pine on the very north end.																																					
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71	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	22.7	8	Immature	N/A	Wildfire May 2001 Two fire skips/retention pockets about 1 acre each. Trenched in 2013 and planted to red pine in 2014 Prescribed aerial herbicide release of red pine from cherry competition. Spray when Stand 69 is aerial release sprayed.																																					
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72	42110 - Planted Red Pine	Sawtimber Well	5.2	64	111-140	N/A	Stand was thinned in 1997. For some reason this area of the plantation has some of the mature oak left in it. Oak is of low quality.																																					
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73	4130 - Aspen	Poletimber Well	25.1	49	51-80	N/A	Most of the white pine and balsam are found in the sw part of the stand. Aspen is primarily quaking there and bigtooth elsewhere. Try to hold for ten more years.																																															
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74	42220 - Natural Jack Pine	Sapling Well	69.5	28	Immature	N/A	Thick, natural jack pine regeneration mixed with a bit of oak and pin cherry. Poletimber developing. High water table on the west edge of stand.																																															
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75	6225 - Bog	Nonstocked	1.5		Unspecified	No																																																
76	4311 - Pine, Aspen Mix	Poletimber Well	34.8	49	51-80	N/A	Stand of quaking aspen with some pine and fir mixed in. Areas of lowland mixed in. Areas dominated by pine and fir. Let grow another 10 years before harvesting.																																															
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77	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.8	101	Unspecified	N/A																																																
78	629 - Mixed non-forested wetland	Nonstocked	40.0		Unspecified	No																																																



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79	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	15.0	101	111-140	N/A	2 aged going towards all aged, hardwoods appear to have been cut in 1972, rest of stand is 1920 YOO																																															
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80	6120 - Lowland Cedar	Poletimber Well	45.6	101	Unspecified	N/A																																																
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81	6224 - Treed Bog	Nonstocked	3.4		Unspecified	No																																																
82	4130 - Aspen	Poletimber Well	10.1	49	51-80	N/A	Small hill of better quality aspen than the surrounding stands. Hold and harvest in 10 years with surrounding aspen stands																																															
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83	4136 - Aspen, Mixed Conifer	Poletimber Well	27.7	49	51-80	N/A	Primarily a quaking aspen stand mixed with pine and fir. Poor quality. Stand needs 10 more years of growth.																																															
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85	6127 - Lowland Pine	Poletimber Medium	7.5	75	51-80	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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86 6225 - Bog Nonstocked 5.2 Unspecified No

87 4130 - Aspen Poletimber Well 64.4 49 81-110 N/A

Large stand of primarily quaking aspen. White pine Is found scattered and along swamp edges. Aspen diameters are small for age. Recommended letting grow another 10 years before harvesting.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole	6		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	2	Pole	6		Pin Cherry	Low	Variable	Tall Shrub
White Pine	15	Log/Pole	10		White Pine	Low	Variable	Sapling
Red Pine	2	Log	12					
Black/Red (Hybrid) Oak	2	Pole	5	49				
Quaking Aspen	67	Pole	6	49				
Red Maple	10	Pole	6					

88 6127 - Lowland Pine Sawtimber Well 6.7 101 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Pole	8		Black Spruce	Medium	Variable	Sapling
Red Pine	5	Log	14		Red Maple	Low	10 - 20 feet	Sapling
Jack Pine	2	Log/Pole	10					
White Pine	73	Log/Pole	12	101				

89 6225 - Bog Nonstocked 1.5 Unspecified No

90 6230 - Cattail Nonstocked 27.1 Unspecified No

91 500 - Water Nonstocked 7.5 Unspecified No

92 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 46.7 49 81-110 N/A

Mixed stand of maple, oak and pine. Aspen is found in pockets or clones and mostly in the north half of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	6	49	White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	15	Pole	5		Red Maple	Low	Variable	Sapling
White Pine	25	Pole/Log	8		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Bigtooth Aspen	10	Pole	7					
Red Maple	40	Pole	6	49				

94 4199 - Other Mixed Upland Deciduous Sapling Well 12.2 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	64	Sapling/Pole	4	25	Pin Cherry	Low	< 5 feet	Sapling
Jack Pine	2	Sapling/Pole	4		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	34	Sapling/Pole	3		White Pine	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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95 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 25.0 27 1-50 N/A A mixed stand of primarily low quality oak and cherry. There are pockets of aspen and maple along with some scattered pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30	Pole	7		Pin Cherry	Medium	< 5 feet	Sapling
Quaking Aspen	5	Pole/Sapling	5	27	White Pine	Low	Variable	Sapling
Pin Cherry	30	Sapling/Pole	4		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	35	Pole/Sapling	5	27				

96 42290 - Natural Mixed Pine Sawtimber Well 16.5 101 81-110 N/A Mixed pine stand. Stand was thinned summer 2016 to 90 SF.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Log	12		White Pine	Medium	Variable	Sapling
White Pine	40	Log/Pole	12	101	Red Maple	Low	< 5 feet	Sapling
Red Pine	55	Log/Pole	13	101	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
					Pin Cherry	Low	5 - 10 feet	Sapling

97 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 7.4 101 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole/Log	10	101	White Pine	Medium	Variable	Sapling
Paper Birch	5	Pole/Log	10					
Quaking Aspen	15	Pole/Log	11					
Black/Red (Hybrid) Oak	10	Log	13					
White Pine	20	XLog	20	101				

98 623 - Emergent Wetland Nonstocked 26.5 Unspecified No

99 6127 - Lowland Pine Sawtimber Well 2.7 110 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	95	Log/XLog/Pole	14	110	White Pine	Medium	10 - 20 feet	Sapling
White Pine	5	Pole	6					

100 500 - Water Nonstocked 7.9 No

101 6127 - Lowland Pine Sawtimber Well 2.5 101 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	2	Log/Pole	10		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	3	Pole	6		White Pine	Low	Variable	Sapling
Red Pine	95	Log/Pole	12	101				

102 6224 - Treed Bog Nonstocked 6.5 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
103	623 - Emergent Wetland	Nonstocked	5.6		Unspecified	No																																																								
104	4319 - Mixed Upland Forest	Poletimber Well	12.7	49	1-50	N/A																																																								
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105	623 - Emergent Wetland	Nonstocked	11.9		Unspecified	No																																																								
106	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	24.0	101	51-80	N/A	stand is very wet with tag alder thru-out most of stand in the understory, hardwoods are declining but swamp conifers are taking over, lots of blowdown on ground, stand is cut by numerous tag alder swales/pockets and a free flowing stream																																																							
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107	622 - Lowland Shrub	Nonstocked	14.7		Unspecified	No																																																								
108	623 - Emergent Wetland	Nonstocked	7.6		Unspecified	No																																																								
110	320 - Upland Shrub	Nonstocked	1.8		Unspecified	No																																																								
111	6239 - Mixed Emergent Wetland	Nonstocked	12.8	0		No																																																								
112	429 - Mixed Upland Conifers	Sawtimber Well	8.7	101	111-140	N/A																																																								
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113	310 - Herbaceous Openland	Nonstocked	3.0		Unspecified	No	permit #36684. Stand updated to not "managed oil/gas". Oryx Energy is not responsible for any additional surface restoration. R Merrick																																																							



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114	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.3	35	51-80	N/A	Low quality, low density aspen, oak and white pine stand. Wild fire burned this stand in 1987 per old notes off of oil wells.																																																																
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115	4130 - Aspen	Sapling Well	20.1	9	Immature	N/A																																																																	
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116	4130 - Aspen	Poletimber Well	131.4	49	81-110	N/A	Large, Mature, mixed aspen stand. Heavier to bigtooth on northern end. Some scattered pine and oak.																																																																
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117	4130 - Aspen	Sapling Well	11.0	8	Immature	N/A	Young aspen sapling stand with some scattered oak poletimber left from before the harvest.																																																																
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118	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No	permit #36269. Stand has been updated not "managed oil/gas". Muskegon Development is no longer responsible for any additional restoration of well pad. R Merrick																																																																
119	310 - Herbaceous Openland	Nonstocked	1.5		Unspecified		permit#35970																																																																
120	622 - Lowland Shrub	Nonstocked	5.1		Unspecified	No																																																																	
121	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No	permit #36309. Stand modified to not "managed oil/gas". Muskegon Development is no longer responsible for any additional surface restoration. R Merrick																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
122	4130 - Aspen	Sapling Well	50.6	10	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		10	Sapling	1					
Black Cherry		2	Sapling	1					
Bigtooth Aspen		78	Sapling	1	10				
Red Maple		5	Sapling	1					
Black/Red (Hybrid) Oak		5	Sapling/Pole	3					
123	4130 - Aspen	Sapling Well	2.7	32	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Sapling/Pole	3	32	Pin Cherry	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		15	Sapling/Pole	3					
124	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	191.6	101	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce		20	Pole	6		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		45	Pole/Log	8	101				
Balsam Fir		5	Pole	6					
Paper Birch		10	Pole	5					
126	4130 - Aspen	Poletimber Well	7.5	49	51-80	N/A	Primarily a bigtooth aspen stand with balsam fir. Some wet pockets but overall operable.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		90	Pole	7	49	Balsam Fir	Medium	Variable	Sapling
Red Maple		5	Pole	6		Pin Cherry	Low	5 - 10 feet	Sapling
Balsam Fir		5	Pole	5					
127	6130 - Fir, Aspen, Maple	Poletimber Well	4.8	49	Unspecified	N/A	lowland aspen stand with BF encroaching in understory, surrounded by very wet swamp, could be cut when frozen but access is a problem		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		50	Pole	6	49	Balsam Fir	Medium	Variable	Sapling
Balsam Fir		50	Pole	4	49				
128	3205 - Mixed Upland Shrub	Nonstocked	3.1		Unspecified	No	upland brush with scattered TA,oak, and RM saps/poles		
129	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	5.5	49	51-80	N/A	The east end is upland aspen island/peninsula surrounded by swamp, west end is lowland aspen with balsam fir and a few NWC, both sections of the stand are operable (west end if frozen) but volumes would be low and access is difficult due to the surrounding swamp		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		50	Pole	6	49	Balsam Fir	Medium	Variable	Sapling
Balsam Fir		30	Pole	5					
Northern White Cedar		20	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
131	4319 - Mixed Upland Forest	Poletimber Well	40.4	49	81-110	N/A	Primarily a quaking aspen and balsam fir strip between high and low ground. Multiple wet areas within stand. Stand creates a nice travel/cover corridor for wildlife.																																							
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133	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified	No	permit #36310. Stand updated to not "managed oil/gas". Muskegon Development is no longer responsible for any additional surface restoration of this well pad. R Merrick																																							
134	4130 - Aspen	Sapling Well	38.7	7	Immature	N/A																																								
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135	623 - Emergent Wetland	Nonstocked	12.5		Unspecified	No																																								
136	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	No	permit #36775. Stand data modified to not "managed oil/gas". Muskegon Development is not responsible for any additional restoration of well pad. R Merrick																																							
138	310 - Herbaceous Openland	Nonstocked	1.9		Unspecified		Permit #36774																																							
139	622 - Lowland Shrub	Nonstocked	8.7			No																																								
140	4130 - Aspen	Poletimber Well	38.1	58	81-110	N/A	Mature quaking aspen stand with some bigtooth and a few scattered pine. A few areas of storm blow down especially on the north end from a few years ago. Those areas already have aspen regeneration within them and exhibit large amounts of CWD.																																							
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