



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71004

Entry Year 2023

Acreage: 1,439

County Roscommon

Management Area: Upper Muskegon

Stand Examiner: Brian Martell

Legal Description:

T24N, R04W, sections 9, 10, 15, and 16.

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.

Soil and topography:

Soils on the uplands consist primarily of Greycalm-Klacking sands. Lowland soils consist of Tawas-Lupton muck and Dawson-Loxley peat. The topography is generally flat with some minor sloping in the northwest corner of section 15.

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

The compartment has multiple blocks of private property within.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None known.

Watershed and Fisheries Considerations:

There is little direct affect on fisheries in this compartment. Heidemann Marsh helps feed Big Creek to the north which eventually flows into Higgins Lake to the east of 127.

Wildlife Habitat Considerations:

The compartment is just west of Higgins Lake in northwest Roscommon County. The topography is generally flat to the east, transitioning to gently rolling hills to the west. The northwestern side of the compartment contains part of the Heideman Swamp. This compartment is largely composed of oak, maple, and aspen stands which include scattered pine. Lowland conifer is found adjoining the swamp. The compartment is important to deer, turkey, grouse and woodcock. Black bear and snowshoe hare also frequent the compartment, especially in association with the Heideman swamp on the northwest corner of the compartment. This compartment sees heavy pressure for hunting. 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. Aspen stands will be managed to promote young forests for early successional wildlife species. Whenever possible, aspen harvests will include drumming logs to enhance breeding habitat for ruffed grouse. Currently there is one managed wildlife opening within the compartment.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is less than three miles southeast of the compartment. Sand & gravel potential is good in the southern half of the compartment. The East Norwich oil field is just over one mile to the west. The field is in secondary recovery operations currently, and it is unlikely there will be additional new wells drilled within the compartment. There is currently no mineral leasing activity or well permit activity in the compartment.

Vehicle Access:

Vehicle access is poor in the northern half of this compartment due to low ground, but the southern half has multiple county and state roads within.

Survey Needs:

None known.

Recreational Facilities and Opportunities:

Dual designated West Higgins ORV route and snowmobile trail 6/7 occurs in the west half of section 16. Dispersed land use for hunting and gathering occurs from adjacent property owners and visitors to the area.

Fire Protection:

Low occurrence of fire history in this compartment. A good portion of this compartment is lowland and the high ground is mostly low hazard fuels.

Additional Compartment Information:**The following reports from the Inventory are attached:**

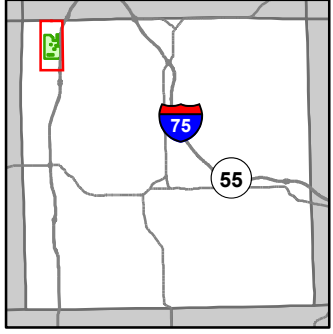
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

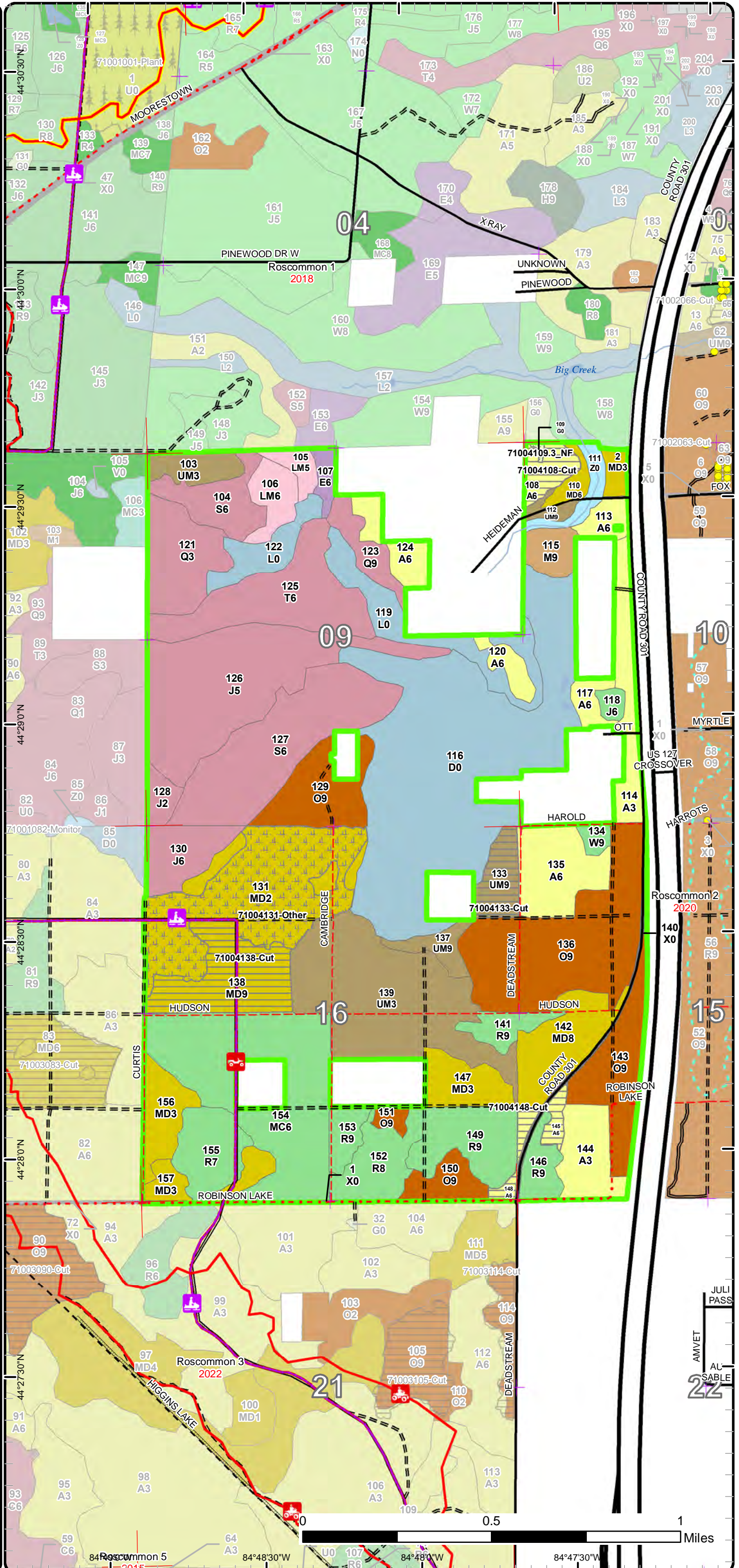
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 4
 T24N-R04W Sec. 09-10,15-16
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
 YOE: 2023
 Acres: 1439.2 GIS Calculated
 Examiner: Brian Martell
 Map Revised: 4/15/2022 Map
 Phase: Post-Review



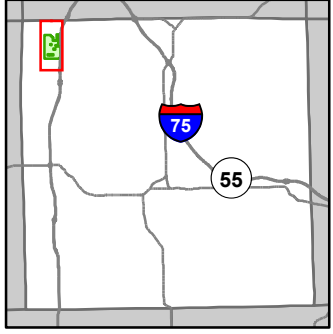
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Ski Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Mowing
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



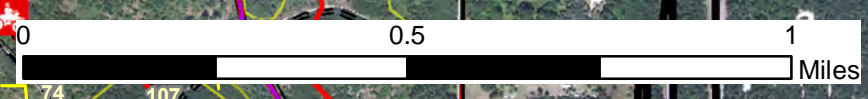
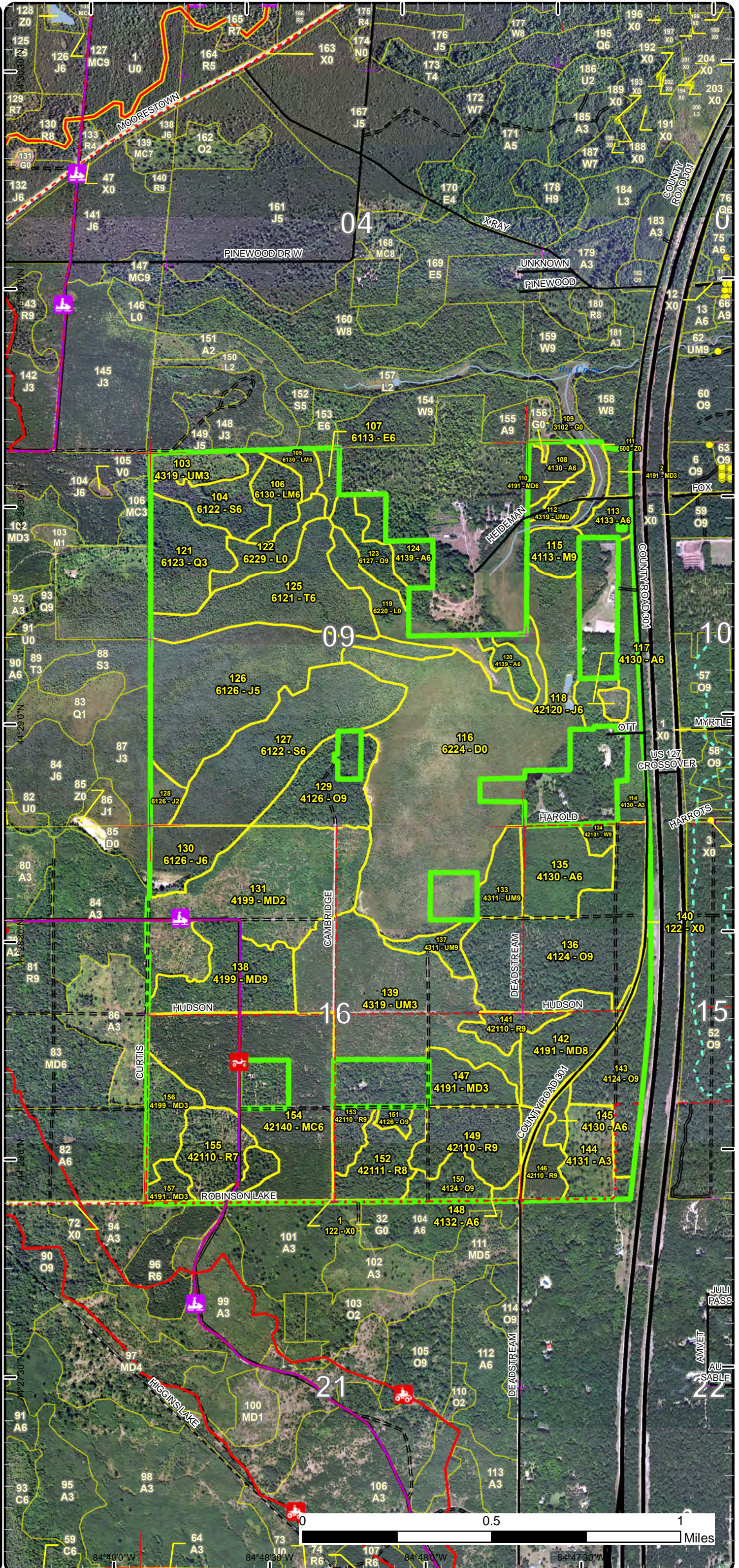
JULI PASS
 AMVET
 AL SABLE
 22

Stand Boundary Map

Compartment: 4
 T24N-R04W Sec. 09-10,15-16
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
 YOE: 2023
 Acres: 1439.2 GIS Calculated
 Examiner: Brian Martell
 Map Revised: 4/15/2022 Map
 Phase: Post-Review



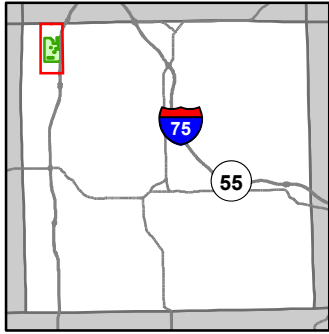
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
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- 🚙 ORV Routes
- 🚙 Snowmobile Trails
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- Michigan Cross Country Cycle Trail (MCCCT)
- Lake/Pond
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- Compartment Boundary
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- 411 - Northern Hardwood
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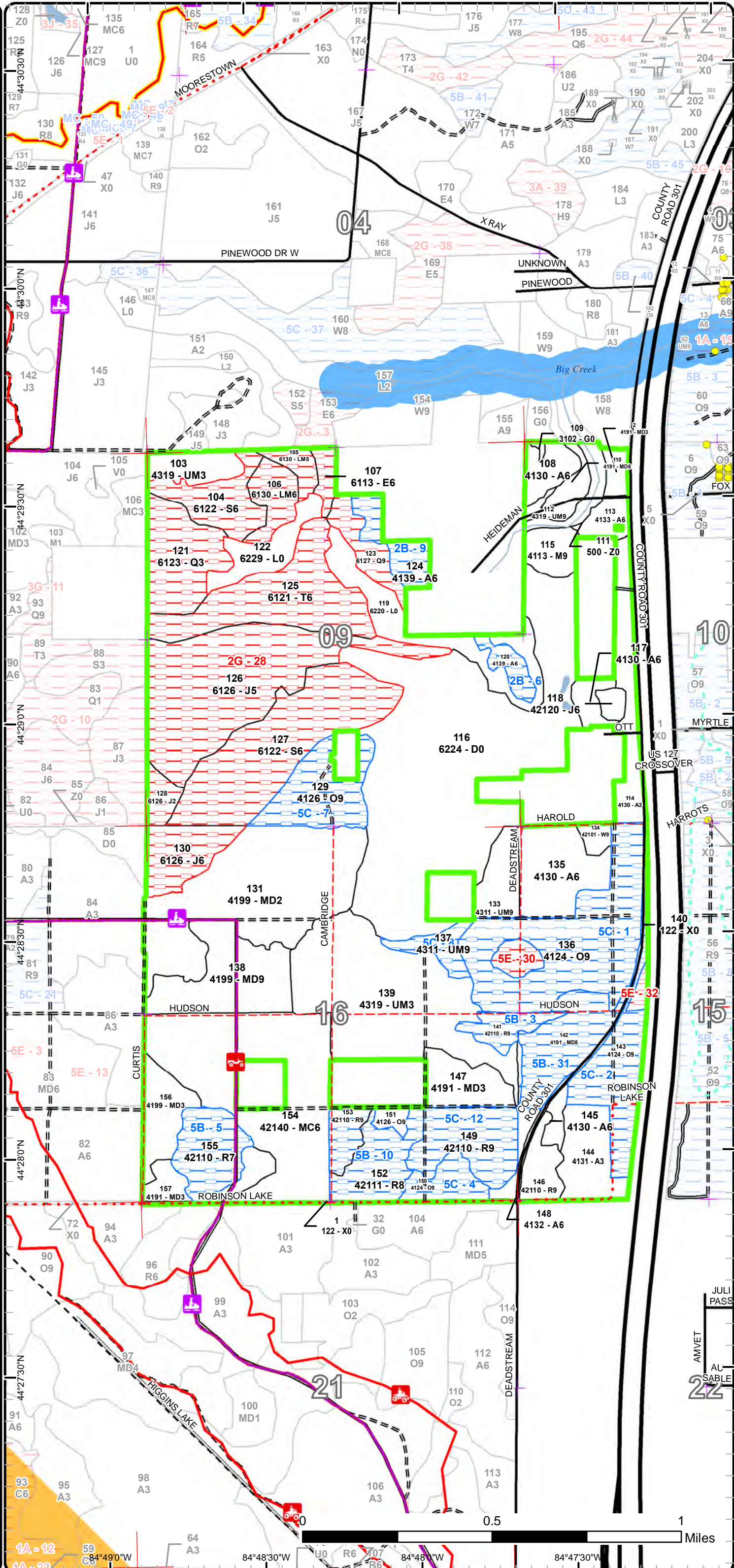
84°49'0"W 84°48'30"W 84°48'0"W 84°47'30"W

Special Conservation Areas

Compartment: 4
 T24N-R04W Sec. 09-10,15-16
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
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- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- 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)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer



1A-12
1A-23
59
C6
A3

84°48'30"W 84°48'00"W 84°47'30"W
 0.5 1 Miles

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	22	25	30	26	0	10	5	13	0	0	0	0	0	0	0	0	0	131
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	0	0	0	0	27	4	0	0	0	0	88	0	0	0	0	0	119
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	44
Lowland Deciduous	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Lowland Mixed Forest	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	19
Lowland Shrub	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	71	0	0	21	0	0	0	0	0	92
Mixed Upland Deciduous	0	0	122	18	5	0	5	0	0	0	0	70	0	0	0	0	0	0	220
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Oak	0	0	0	0	0	0	0	0	0	0	0	131	29	0	0	0	0	0	160
Planted Mixed Pines	0	0	0	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
Red Pine	0	0	0	0	0	0	11	0	0	0	0	93	0	0	0	0	0	0	104
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	52
Treed Bog	190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190
Upland Mixed Forest	0	0	104	0	0	0	0	9	0	0	0	14	0	4	0	0	0	0	131
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Total	256	22	251	140	31	0	53	18	37	71	10	312	234	4	0	0	0	0	1439



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 4
Total Compartment Acres: 1,439

Commercial Harvest - 73
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	19	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	40	0	0	0	0	0	0	0	0	40
Upland Mixed Forest	14	0	0	0	0	0	0	0	0	14
Total	73	0	0	0	0	0	0	0	0	73

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	73	0	0	0	0	0	82	1		156
Next Step	0	0	0	0	0	73	0	1		74
Total	73	0	0	0	0	73	82	1		230



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:

108	71004108-Cut	10.2	4130 - Aspen	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" DBH and large. Leave standard retention. Include drumming log specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Fully stocked stand of aspen mixed with maple, pine, oak, and balsam fir. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
109	71004109.3_N F	0.7	3102 - Grass	Nonstocked		Immatur re	NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Deadstream Field 1. <u>Specs:</u> <u>Next Step</u> NonForestMgt, Mowing <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 7 /15/2021</p>											
131	71004131- Other	82.1	4199 - Other Mixed Upland Deciduous	Sapling Medium	18	Immatur re	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Removal of woody vegetation that is in direct competition with planted red pine via a pre-commercial thinning by hand. Leave out areas <u>Specs:</u> where red pine is fully overtopped and stunted by competing regeneration (such as the east end of the stand.) <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> planted red pine with 80% free to grow <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /1 /2023</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
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133 71004133-Cut	14.0	4311 - Pine, Aspen Mix	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut all trees 2 inches DBH and larger. Leave a handful of healthy white oak for hard mast, and the few large supercanopy white pine that are present. Leave jack pine tops scattered for a seed source. Leave about 3% retention focused along the lowland edge as needed.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Fully stocked stand of aspen, red maple, oak, and pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

138 71004138-Cut	39.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	107	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Cut all trees 2 inches DBH and larger. Mark a couple super canopy red pine and several large crowned healthy white oak to leave. Leave about 3% retention focusing on leaving areas with smaller diameter oak and maple if possible. Include snowmobile trail protection specs.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Fully stocked stand of red maple, oak, aspen and pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

145 71004145-Cut	4.3	4130 - Aspen	Poletimber Well	39	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all trees 2 inches DBH and larger. No retention due to small stand size.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Fully stocked stand of aspen with red maple and oak.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

148 71004148-Cut	4.7	4132 - Aspen, Jack Pine	Poletimber Well	62	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all trees 2 inches DBH and larger. Leave no retention due to small stand size and irregular shape. Leave a few healthy white oak for hard mast.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Fully stocked stand of aspen with other desirable mixed deciduous species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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
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Total Treatment Acreage Proposed: 155.9

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 4
 Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2B	5B	5C	2G	5E
131	111	21	0	Aspen	21	0			
1	1	0	0	Herbaceous Openland					
118	4	0	115	Jack Pine				115	
44	0	0	44	Lowland Conifers				44	
5	0	0	5	Lowland Deciduous				5	
19	0	0	19	Lowland Mixed Forest				19	
46	46	0	0	Lowland Shrub					
92	0	0	92	Lowland Spruce/Fir				92	
220	191	29	0	Mixed Upland Deciduous		29			
10	10	0	0	Northern Hardwood					
160	3	147	9	Oak		0	147		9
92	92	0	0	Planted Mixed Pines					
105	11	94	0	Red Pine		65	29		
52	0	0	52	Tamarack				52	
190	190	0	0	Treed Bog					
131	122	9	0	Upland Mixed Forest		0	9		
11	11	0	0	Urban					
8	8	0	0	Water					
4	4	0	0	White Pine					
1,439	803	301	336	Total Forested Acres	21	94	186	327	9
	56%	21%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 4
 Year of Entry: 2023

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold until more of the maple and aspen in merchantable, then convert the stand to MUD.							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 4
 Year of Entry: 2023

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	2B: Unknown if access through adjacent landowner(s) is possible	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	327	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Brian Martell : Examiner

Compartment: 4

Year of Entry: 2023

31	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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	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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1 122 - Road/Parking Lot Nonstocked 3.4 0 No

2 4191 - Mixed Upland Deciduous with Conifer Sapling Well 4.9 32 1-50 N/A More white pine as the stand slopes down to lowland. Maples are almost all stump sprouts clumps.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	Pole/Log	8	52	White Oak	Medium	Variable	Sapling
Red Maple	50	Sapling/Pole	4	32	White Pine	Low	Variable	Sapling
White Oak	5	Sapling/Pole	3					
Black/Red (Hybrid) Oak	3	Sapling/Pole	4					
Bigtooth Aspen	2	Pole/Log	9					

103 4319 - Mixed Upland Forest Sapling Well 11.9 17 Immature N/A Jack pine final harvest with some small pine/balsam and maple left from harvest. Cut late in the year 2004 as a part of sale 71-037-03 "Block 1142". Some natural jack pine present. Stand was trenched and seeded to jack pine with mixed success.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Sapling/Pole	3	18
Balsam Fir	5	Sapling/Pole	4	
White Pine	2	Sapling	2	
Black/Red (Hybrid) Oak	5	Sapling	2	
White Pine	8	Log/Pole	10	
Pin Cherry	10	Sapling	2	18
Jack Pine	45	Sapling	2	17

104 6122 - Black Spruce Poletimber Well 21.3 111 111-140 N/A Large legacy white pines throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole/XLog	12		Balsam Fir	Low	Variable	Sapling
Black Spruce	70	Pole/Log	8	111	Red Maple	Low	Variable	Sapling
Red Maple	15	Pole/Sap/Log	7					
Red Pine	2	Log	11					
Balsam Fir	3	Pole	8					

105 6130 - Fir, Aspen, Maple Poletimber Medium 6.4 76 1-50 N/A Dead ash poles in the canopy

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole/Sap/Log	6	76	Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	20	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	30	Pole	6		Red Maple	Medium	10 - 20 feet	Sapling
Northern White Cedar	5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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106	6130 - Fir, Aspen, Maple	Poletimber Well	12.7	76	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	30	Pole	6	
Red Maple	49	Pole/Log	9	76
Black Spruce	15	Pole/Log	9	
Northern White Cedar	5	Log/Pole	10	
Paper Birch	1	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	High	5 - 10 feet	Sapling

107	6113 - Lowland Maple	Poletimber Well	5.3	76	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	65	Pole	7	76
White Pine	15	Pole/Sapling	7	
Quaking Aspen	5	Log	14	76
Balsam Fir	10	Pole/Sapling	6	
Paper Birch	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	High	Variable	Sapling
Red Maple	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling

108	4130 - Aspen	Poletimber Well	10.2	57	81-110	N/A	Bigtooth aspen pole timber stand with some scattered supercanopy red and white oak. Good site.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Log	12	
White Oak	5	Log	12	
White Pine	3	Pole	6	
Bigtooth Aspen	85	Pole/Log	8	57
Balsam Fir	2	Pole	6	

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

109	3102 - Grass	Nonstocked	0.7		Immature	Managed Opening	
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110	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.3	57	81-110	N/A	Primarily a red maple and white pine stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	45	Pole/Log	8	57
Black/Red (Hybrid) Oak	10	Log/Pole	12	
White Pine	25	Pole/Log/XLog	9	
Red Pine	5	Log	12	
Bigtooth Aspen	15	Pole/Log/Sap	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

111	500 - Water	Nonstocked	8.4			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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112	4319 - Mixed Upland Forest	Sawtimber Well	4.1	121	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole/Log/Sap	8	
Red Oak	10	Log/Pole	13	
White Pine	40	Log/Pole/XLog	17	121
Bigtooth Aspen	10	Log/Pole	12	
Red Pine	10	Log/XLog	14	

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

113	4133 - Aspen, Mixed Pine	Poletimber Well	7.6	38	51-80	N/A	Cut 1984 as a part of sale 71-007-84 "Block 327"
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling/Pole	4	
Bigtooth Aspen	55	Pole/Log/Sap	7	38
Quaking Aspen	5	Pole/Sapling	6	
White Pine	25	Pole/Sap/Log	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Pin Cherry	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling

114	4130 - Aspen	Sapling Well	24.8	18	Immature	N/A	Cut late in the year 2004 as a part of sale 71-037-03 "Block 1142".
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	80	Sapling/Pole	3	18
White Oak	2	Sapling	2	
Black/Red (Hybrid) Oak	2	Sapling	2	
Pin Cherry	1	Sapling	2	
White Pine	5	Log/Pole	10	
Red Maple	10	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling

115	4113 - R.Maple, Conifer	Sawtimber Well	10.3	97	81-110	N/A	Red maple stand mixed with some white pine. A small area of large 20+ red and white pine found on north end of stand. Some low wetter areas but overall upland. An old ditch is on south end of stand running east and west.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log/Pole/XLog	14	
White Pine	10	Log/XLog/Pole	14	
Balsam Fir	10	Pole/Sapling	6	
Red Maple	75	Log/Pole	10	97

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling
White Oak	Low	>20 feet	Sapling
Balsam Fir	High	10 - 20 feet	Sapling

116	6224 - Treed Bog	Nonstocked	190.3		Immature	No	Leatherleaf bog with lowland conifer species of varying sizes.
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Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	Variable	Sapling
Tamarack	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Jack Pine	Medium	Variable	Sapling
Black Spruce	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
117	4130 - Aspen	Poletimber Well	6.6	39	51-80	N/A	South part of stand has log sized aspen in it that is probably a little older.																																																				
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118	42120 - Planted Jack Pine	Poletimber Well	3.6	60	51-80	N/A																																																					
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119	6220 - Alder/willow	Nonstocked	29.7			No																																																					
120	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.4	38		N/A	Looked across the creek from the bog. Looks like bigtooth aspen with some other mixed deciduous species and white pine around the edge.																																																				
121	6123 - Lowland Fir	Sapling Well	31.9	111	Unspecified	N/A																																																					
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122	6229 - Mixed lowland shrub	Nonstocked	16.1		Immature	No																																																					
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123	6127 - Lowland Pine	Sawtimber Well	12.3	111	51-80	N/A																																																					
124	4139 - Aspen, Mixed Deciduous	Poletimber Well	13.3	76	Unspecified	N/A																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
125	6121 - Tamarack	Poletimber Well	51.6	111	1-50	N/A																																																						
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126	6126 - Lowland Jack Pine	Poletimber Medium	87.8	111	1-50	N/A																																																						
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127	6122 - Black Spruce	Poletimber Well	70.6	86	51-80	N/A	Very wet boggy stand of black spruce. Part of Heideman swamp. Labrador tea ground cover.																																																					
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129	4126 - White, Black, N. Pin Oak	Sawtimber Well	28.6	116	81-110	N/A	Stand of oak and pine. Some jack pine mixed in along west edge. Some very nice large canopy white oak. Large 20+\" red and white pine found especially on west side of stand where it slopes down to the lowland.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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130	6126 - Lowland Jack Pine	Poletimber Well	20.2	59	51-80	N/A	Decent quality jack pine. Has leatherleaf ground cover, but it is mixed with blueberry. Relatively flat and not too hummocky.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	95	Pole/Sapling	7	59	Labrador Tea	Medium	< 5 feet	Tall Shrub
White Pine	2	Pole/Sapling	5		Black Spruce	Medium	Variable	Sapling
Black Spruce	3	Pole/Sapling	5		Tamarack	Low	5 - 10 feet	Sapling
					White Pine	Low	5 - 10 feet	Sapling
					Leatherleaf	Full	< 5 feet	Tall Shrub

131	4199 - Other Mixed Upland Deciduous	Sapling Medium	91.3	18	Immature	N/A	Oak clear-cut from 2004 that did not meet regen requirements. Volumes show a mixture of red oak and mixed oak. The stand is dominated by red maple and cherry stump sprouts with oak stump sprouts mixed in and a little bit of single stem oak regeneration that stayed at ground level. Competition control was not able to be applied, but the stand was trenched and planted to red pine in 2009. This stand was selected to remove the woody vegetation, by hand with a pre-commercial thin, that is competing against the planted red pine to bring the stand to a red pine planting status with 80 percent of the pine free to grow.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	20	Sapling	2	18	Red Pine	Full	< 5 feet	Sapling
Black/Red (Hybrid) Oak	15	Sapling	2	18	Black Cherry	Low	< 5 feet	Sapling
Red Maple	39	Sapling	3	18	White Oak	Low	< 5 feet	Sapling
Red Oak	15	Sapling	2	18				
Red Pine	1	Sapling	2	13				
Bigtooth Aspen	10	Sapling	3	18				

133	4311 - Pine, Aspen Mix	Sawtimber Well	14.0	100	81-110	N/A	Jack pine still present mostly along western lowland edge from original planting. Aspen and red maple were cut out in the 60's. A few nice oak poles are present in spots.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Log	8		White Pine	Low	Variable	Sapling
Red Maple	3	Pole	6		White Oak	Low	Variable	Sapling
White Oak	5	Log	14	107	Witch Hazel	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	25	Pole/Log	8	59	Red Maple	Low	Variable	Sapling
White Pine	3	Log/Pole/XLog	12					
Red Pine	30	Log/Pole	13	100				
Jack Pine	15	Pole/Log	8	100				
Red Oak	14	Log/Pole	12	107				

134	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	3.8	100	111-140	N/A	Planted in 1922. Thinned to favor white pine in 2003
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	20	Log/Pole	13	107	Red Maple	High	>20 feet	Sapling
White Oak	3	Log/Pole	13		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Pine	75	Log/Pole	12	100				
Red Pine	2	Log/Pole/XLog	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
135	4130 - Aspen	Poletimber Well	30.1	29	51-80	N/A	Steep hilly terrain. North part of stand is on north facing slope. Some birch along east and north road edges.																																																												
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136	4124 - Red with White Oak	Sawtimber Well	82.5	107	51-80	N/A	Northeast piece is on the north slope and had a small firewood sale, but isn't much different than the rest. Oak dominated mixed with white pine that is partially in the canopy and partially suppressed. White pine was planted in 1922. Thinned in 1984 and thinned Late Summer/Fall of 2013 to 80 SF.																																																												
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137	4311 - Pine, Aspen Mix	Sawtimber Well	8.8	64	81-110	N/A	Unique stand with scattered monarch red pine with big catface fire scars. Quaking aspen in not looking good, but jack pine is still relatively small diameter for this type of site. Some scattered red pine and white pine regeneration.																																																												
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138	4199 - Other Mixed Upland Deciduous	Sawtimber Well	39.9	107	51-80	N/A	Looks like the stand was set up to harvest last entry but was not cut. Jack pine is likely planted with the rest of the red pine in the compartment. It is falling apart and mostly dead. The quaking aspen and oak is also not looking good in spots. Looks like there is a younger class of red maple just reaching pole size. There is heavy dead and down and lots of hawthorn, cherry, and red maple in the understory.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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139 4319 - Mixed Upland Forest Sapling Well 91.9 16 Immature N/A Jack pine plantation that had limited success.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	1	Sapling	3	
Black/Red (Hybrid) Oak	14	Sapling	2	19
Jack Pine	50	Sapling	3	16
Red Maple	14	Sapling	2	19
Black Cherry	2	Sapling	2	19
Bigtooth Aspen	19	Sapling	3	19

140 122 - Road/Parking Lot Nonstocked 7.2 No

141 42110 - Planted Red Pine Sawtimber Well 9.9 100 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log/XLog	14		Black Cherry	Trace	Variable	Sapling
Bigtooth Aspen	2	Pole/Log	9		White Oak	Medium	Variable	Sapling
Red Maple	1	Pole	6		Red Maple	Low	>20 feet	Pole
White Oak	3	Log/XLog	16	107	Bigtooth Aspen	Low	>20 feet	Pole
Red Pine	92	Log	14	100	Red Oak	Medium	Variable	Sapling
					Red Maple	High	Variable	Sapling

Thinned in Spring 2013 leaving 90 SF residual. Has a couple of monarch natural red pine and the rest is plantation similar to other plantations in the compartment. Red maple and oak understory is transitioning to poles.

142 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 30.4 107 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole/XLog	12		Red Maple	High	>20 feet	Sapling
Bigtooth Aspen	3	Pole/Sapling	6		Bigtooth Aspen	Low	>20 feet	Sapling
Red Pine	22	Log	14	100	Black Cherry	Low	10 - 20 feet	Sapling
Quaking Aspen	2	Pole/Sapling	6					
White Oak	20	Log/Pole/XLog	14					
Red Oak	28	Log/XLog	16	107				

Large red oak log trees mixed with red pine and a few red maple in the canopy. Dense red maple that is now approaching the canopy but is mostly still technically in the understory. The stand includes a pocket of aspen poles/saplings on the south edge out by road and a pocket of mostly white pine in the NE portion of the stand.

143 4124 - Red with White Oak Sawtimber Well 33.5 107 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	25	Log	14	107	Red Oak	Low	< 5 feet	Sapling
White Pine	20	Pole/Log/Sap	7	100	White Pine	Low	Variable	Sapling
Red Oak	55	Log	14	107	White Oak	Low	< 5 feet	Sapling
					Black Cherry	Low	10 - 20 feet	Sapling
					Red Maple	High	>20 feet	Sapling

Oak and planted white pine from 1922. Thinned in Fall 2014 to 80SF oak/pine.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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144 4131 - Aspen, Oak Sapling Well 22.1 8 1-50 N/A Cut Fall 2014, left 10-20 SF of red and white oak for a seed source.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log/XLog	14	107	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black Cherry	5	Sapling	1					
Black/Red (Hybrid) Oak	5	Sapling	1	8				
Red Maple	15	Sapling	1	8				
Bigtooth Aspen	55	Sapling	1	8				
White Oak	5	Log/XLog	15	107				

145 4130 - Aspen Poletimber Well 4.3 39 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	16		Red Maple	High	>20 feet	Sapling
Bigtooth Aspen	56	Pole	7	39	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	25	Log/Pole	12					
White Pine	1	Log	14					
Red Pine	5	Log/Pole	10					
Red Maple	3	Pole	6					

146 42110 - Planted Red Pine Sawtimber Well 10.9 57 141-170 N/A Thinned Spring 2013 leaving 130 SF Residual. Contains a pocket of aspen to the northeast.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	93	Log/Pole	10	57	White Oak	Medium	Variable	Sapling
Black Cherry	2	Pole	7		Black Cherry	Low	5 - 10 feet	Sapling
White Oak	2	Log	14		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	3	Log	14					

147 4191 - Mixed Upland Deciduous with Conifer Sapling Well 17.6 29 Immature N/A Red pine plantation that had low survivability due to heavy advanced regeneration in the preceding stand. It was coded as an R8 before it was clear-cut. Current species composition is desirable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling/Pole	3		Hawthorn (spp.)	Low	Variable	Tall Shrub
Black/Red (Hybrid) Oak	35	Sapling/Pole	4	29	Black Cherry	Medium	Variable	Sapling
Red Pine	25	Sapling/Pole	4	27	Red Maple	Low	Variable	Sapling
Black Cherry	5	Sapling	3	29				
Bigtooth Aspen	10	Sapling/Pole	4	29				
White Oak	10	Sapling/Pole	3	29				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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148 4132 - Aspen, Jack Pine Poletimber Well 4.7 62 81-110 N/A Mix of ages of aspen. Located directly along road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	1	Log/Pole/XLog	12		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Maple	10	Pole/Sapling	7		Black Cherry	Low	Variable	Sapling
White Oak	1	Log	14		Red Maple	Low	Variable	Sapling
Jack Pine	30	Pole/Log	8	62	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Black Cherry	5	Pole	7					
Bigtooth Aspen	37	Log/Pole	10	62				
Red Pine	1	XLog/Log	18					
Quaking Aspen	15	Pole/Log	8					

149 42110 - Planted Red Pine Sawtimber Well 29.4 100 111-140 N/A Thinned in Spring 2013 leaving 110 SF residual. Planted in 1922 with several stands in this compartment.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log	16		Red Maple	High	Variable	Sapling
Bigtooth Aspen	5	Pole/Log	8		Red Oak	Low	>20 feet	Sapling
Red Maple	5	Pole/Sapling	6		Bigtooth Aspen	Low	>20 feet	Sapling
Red Pine	85	Log/XLog	15	100	Black Cherry	Medium	Variable	Sapling
White Oak	3	Log/XLog	17		White Oak	Low	>20 feet	Sapling
					Paper Birch	Low	>20 feet	Sapling

150 4124 - Red with White Oak Sawtimber Well 11.7 107 81-110 N/A Mix big wolfy red oak and some patches of nice quality stems. Has a couple of aspen clones and a vein of red pine - thinned to 90 SF in Fall 2014 (65 SF oak and 25 SF RP average residual)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log	12		Black Cherry	Low	Variable	Sapling
White Oak	20	Log/Pole	13		Red Oak	Low	Variable	Sapling
Red Pine	15	Log	12		Bigtooth Aspen	Low	Variable	Sapling
Red Oak	50	XLog/Log	18	107	Red Maple	Low	Variable	Sapling

151 4126 - White, Black, N. Pin Oak Sawtimber Well 3.4 107 141-170 N/A Two aged stand where red maple understory is becoming part of the canopy. Red pine are original monarchs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	3	Log	12		Red Maple	Full	>20 feet	Sapling
Red Pine	2	Log	16		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak	35	Log/XLog	16	107	Black Cherry	Low	Variable	Sapling
White Oak	45	Log/Pole/XLog	13	107				
Red Maple	15	Pole/Sap/Log	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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152	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	22.4	100	81-110	N/A	Old plantation red pine. The aspen, oak, and maple were taken out in 1993. This stand had more aspen regen than the surrounding stands. Some of the regeneration has made it into the canopy, but most is still in the understory.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Pole/Sapling	5	
Red Maple	7	Sapling/Pole	3	
Black/Red (Hybrid) Oak	3	Sapling/Pole	3	29
White Oak	2	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	>20 feet	Sapling
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
White Oak	Low	>20 feet	Sapling
Black/Red (Hybrid) Oak	Medium	>20 feet	Sapling

153	42110 - Planted Red Pine	Sawtimber Well	9.1	100	81-110	N/A	Thinned in Spring 2013 leaving a RP residual of 85 SF. Planted in 1922 with several stands in this compartment. Species thinned in 1992. This stand is split from the original stand where bigtooth aspen did not come in as strong. Not as good of a site as the similar stand further to the east.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	2	XLog	18	
Red Pine	98	Log	16	100

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	>20 feet	Sapling
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
White Oak	Low	>20 feet	Sapling
Red Maple	Medium	>20 feet	Sapling
Red Oak	Medium	>20 feet	Sapling
Paper Birch	Low	>20 feet	Sapling
Bigtooth Aspen	Medium	>20 feet	Sapling

154	42140 - Planted Mixed Pine	Poletimber Well	92.0	29	111-140	N/A	Red pine plantation mixed with jack pine and oak throughout. Heavier aspen to the southeast.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	55	Pole/Sapling	7	29
Jack Pine	30	Pole/Sapling	6	
Red Maple	2	Sapling/Pole	3	
Quaking Aspen	8	Sapling	3	
Black/Red (Hybrid) Oak	5	Sapling/Pole	4	

155	42110 - Planted Red Pine	Sawtimber Poor	23.4	100	1-50	N/A	Seed Tree Cut in Spring 2013 leaving 30 SF RP. Heavy oak understory.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log/XLog	16	100

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	10 - 20 feet	Sapling
White Oak	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	High	10 - 20 feet	Sapling
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Red Maple	Medium	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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156 4199 - Other Mixed Upland Deciduous Sapling Well 17.8 19 1-50 N/A

Looks like there was some sort of overstory removal leaving anything 4" and smaller in 2003. The larger pole-sized trees are about 50 years old and the sapling-sized trees resulted from the harvest in 2003.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	12	Pole	7	52	Black Cherry	Low	Variable	Sapling
White Oak	1	Pole	8	52	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	28	Sapling	3	19	White Oak	Low	Variable	Sapling
Red Maple	22	Sapling	2	19	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Bigtooth Aspen	25	Sapling/Pole	4	19	Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	12	Pole/Log	9	52	Witch Hazel	Low	5 - 10 feet	Tall Shrub

157 4191 - Mixed Upland Deciduous with Conifer Sapling Well 12.7 19 Immature N/A

Sapling deciduous stand with some supercanopy red pine. Looks like there were some jack pine and red pine planted in a few rows along the road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Sapling	2	19	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Quaking Aspen	10	Sapling/Pole	3	19	Black Cherry	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	40	Sapling/Pole	3	19	Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
Jack Pine	10	Sapling	3	19				
Red Maple	15	Sapling/Pole	3	19				
Red Pine	5	Sapling	2	19				
Red Pine	15	Log/XLog	16					