



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71033

Entry Year 2017

Acreage: 656

County Roscommon

Management Area: Houghton Lake Wetlands

Revision Date: 2015-07-16

Stand Examiner: Jason Lewicki

Legal Description:

T24N R03W S. 25 and 26

Identified Planning Goals:

Maintain current age and species diversity in a range of early and late successional ecosystems as determined by the Houghton Lake Wetlands Management Area plan.

Soil and topography:

Uplands consist of Saugatuck sand. Lowlands are composed of Rifle peat. Topography is generally flat to very gently rolling. Much of this compartment is lowland.

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

There are multiple private ownerships surrounding this compartment. Due to scattered private ownerships this compartment is broken into 3 different blocks across the two sections.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the state. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is located two miles to the northeast (Section 18). There may be some sand and gravel potential within the compartment. St. Helen Field lies six miles to the east. The field has produced over 8.7 million bbls of oil and 14.7 Bcf gas from the Devonian Richfield Member. It is in secondary recovery operations currently. All of the State land in the compartment is currently leased.

Vehicle Access:

Vehicle access is very limited in section 26 due to the high amount of lowlands. The majority of state land in section 25 is on uplands and has good vehicle access from county roads and state forest roads.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

There are no established recreational facilities in the compartment. The area is mainly used for hunting. The proximity of private land ownership increased the likelihood unofficial ORV trails occur within the compartment. Utilize forest management practices to curtail damage by off road vehicle use.

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:

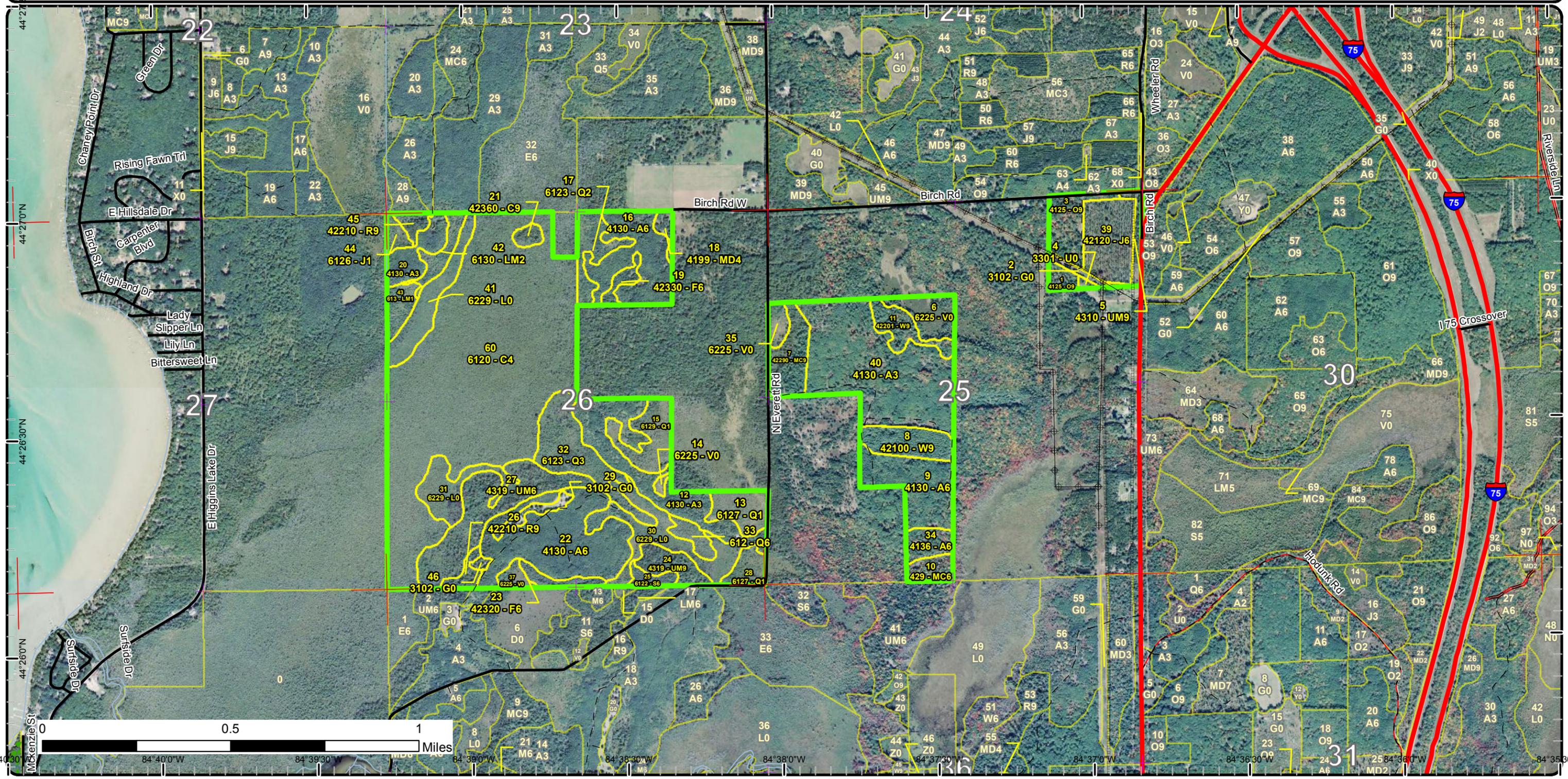
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Stand Boundary Map



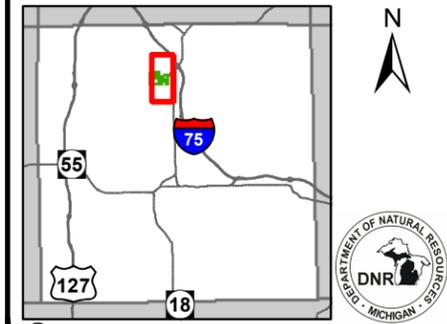
Compartment: 33
 T24N R03W 25, 26
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2017
 Acres: 656 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 8/10/2015
 Map Phase: Pre-Review

- ✚ Remonumented Section Corners
- Miris Corners
- Highway
- Paved Roads
- County Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- - Designated Hiking Pathways
- Rivers
- Pipeline
- Powerline
- Stand Boundaries
- Forest Covertypes
 - 412 - Oak Types
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 430 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Covertypes
 - 310 - Herbaceous Openland
 - 330 - Low Density Trees
 - 622 - Lowland Shrub

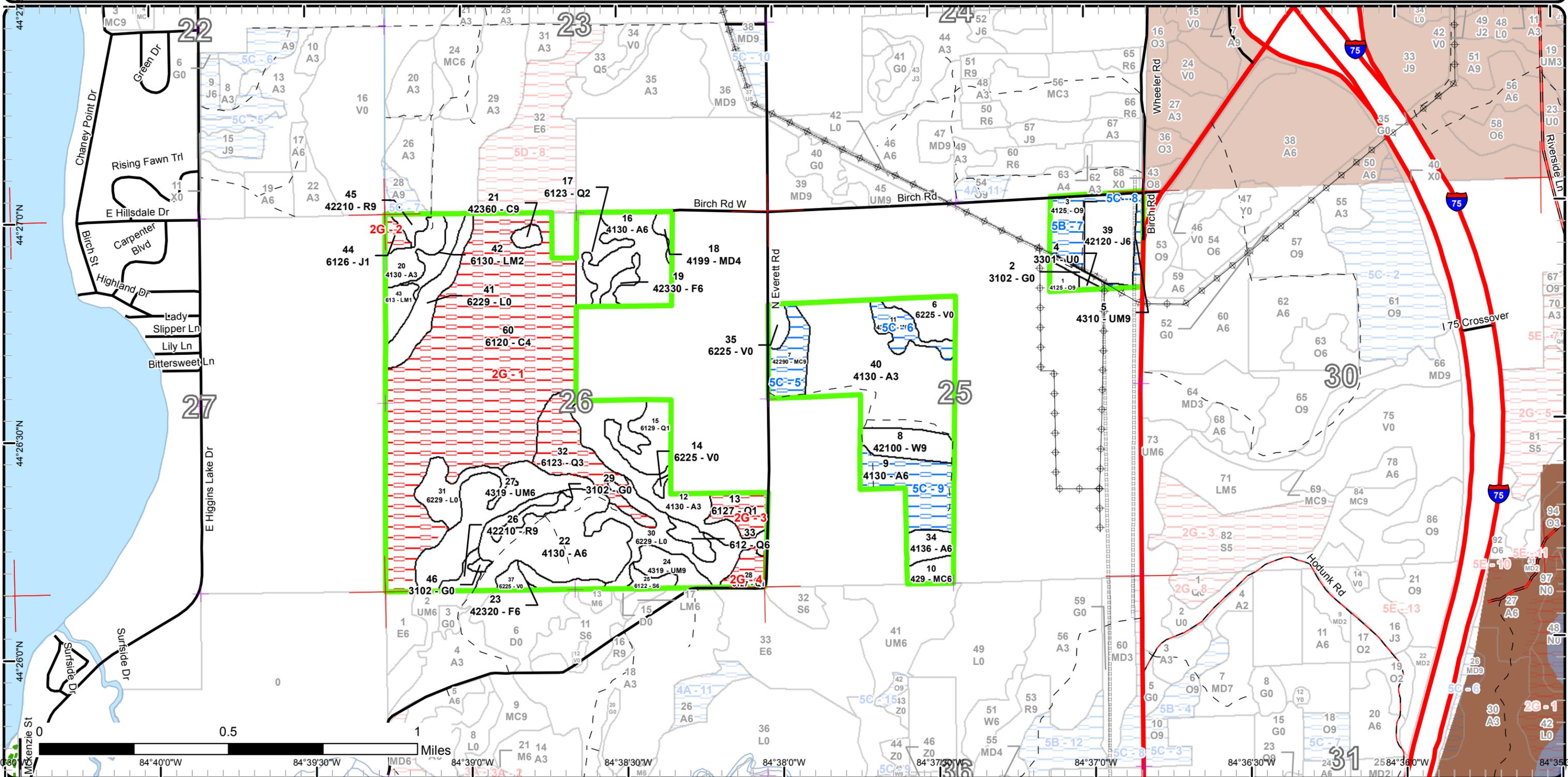


Special Conservation Areas & Site Conditions Map

Compartment: 33
 T24N R03W 25, 26
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2017
 Acres: 656 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 8/10/2015
 Map Phase: Pre-Review



- ✦ Remonumented Section Corners
- Miris Corners
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Designated Hiking Pathways
- Rivers
- Pipeline
- Powerline
- Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
 - 5B: Maintain for regeneration purposes
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
 - 2G: Too wet (sensitive soils, does not include access issues)
- Special Conservation Areas
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Cold Water Streams
 - Cold Water Lakes
 - Wildlife Management Areas
- Research, Development, and Military Lands



Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment 33 Year of Entry 2017



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	0	61	107	0	6	22	0	0	0	0	0	0	0	0	0	0	0	196
Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	180	0	0	0	0	0	180
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Jack Pine	0	0	0	0	0	18	0	0	0	0	3	0	0	0	0	0	0	0	21
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	10	0	0	34	0	19	0	0	0	0	0	0	0	0	0	63
Lowland Mixed Forest	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
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	3	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12
Oak	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14
Red Pine	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	6
Upland Conifers	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	43
Upland Spruce/Fir	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	12	0	0	0	0	0	8	0	0	0	0	0	20
Total	70	0	61	129	2	24	71	12	19	0	6	60	200	0	0	0	0	0	654



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2017

Compartment 33
Total Compartment Acres: 656

Acres of Harvest

Commercial Harvest - 0
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 4

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	0	0	4	4
Next Step	0	0	0	0	0	0	0	0	4	4
Total	0	0	0	0	0	0	0	0	9	9



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	Approval Status
29	71033029-NF	3.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 1

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

46	71033046-NF	0.9	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
----	-------------	-----	--------------	------------	--	-----------------	--------------	--------	---------------------------------	--	----------

Habitat Cut: Yes**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 2

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 4.4**

Report 5 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 33
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5B	5C	2G
196	174	22	0	Aspen		22	
17	17	0	0	Bog			
181	3	0	178	Cedar			178
6	6	0	0	Herbaceous Openland			
21	18	0	3	Jack Pine			3
1	1	0	0	Low-Density Trees			
63	27	0	36	Lowland Conifers			36
11	11	0	0	Lowland Mixed Forest			
46	46	0	0	Lowland Shrub			
3	3	0	0	Lowland Spruce/Fir			
2	2	0	0	Mixed Upland Deciduous			
12	0	12	0	Natural Mixed Pines		12	
14	3	11	0	Oak	11		
6	6	0	0	Red Pine			
5	5	0	0	Upland Conifers			
43	38	5	0	Upland Mixed Forest		5	
7	7	0	0	Upland Spruce/Fir			
20	12	8	0	White Pine		8	
656	380	59	217	Total Forested Acres	11	48	217
	58%	9%	33%	Relative Percent			

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	199	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 33
Year of Entry: 2017

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 33
Year of Entry: 2017

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 7 – 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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.

S t a n d	Roscommon Mgt. Unit		Report 8 – Forested Stands			Compartment: 33	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2017	
1	4125 - Black, N. Pin Oak	Sawtimber Well	3.1	100	51-80		
3	4125 - Black, N. Pin Oak	Sawtimber Well	11.2	100	1-50		Old stand of black oak that was thinned in the past. There has been a lot of mortality over the years. Average BA is only around 50 or below. It has a good understory of red maple with some oak and aspen from the thinning. Deer have been pawing through the snow to get at the acorns. Leave the stand and allow the understory to advance. Good for mast production.
5	4310 - Pine, Oak Mix	Sawtimber Well	4.9	100	81-110		
7	42290 - Natural Mixed Pine	Sawtimber Well	12.2	110	81-110		Mixed red and white pine stand that was thinned two entries ago, Mixed understory of maple, aspen and white pine. Some large diameter white pine present.
8	42100 - Planted White Pine	Sawtimber Well	11.5	50	141-170		White pine plantation. Stand was heavily weeviled in the past. Very little to no understory.
9	4130 - Aspen	Poletimber Well	22.2	52	81-110		Nice healthy stand of bigtooth aspen mixed with some oak and pine. Hold for 10 more years to obtain more diameter growth.
10	429 - Mixed Upland Conifers	Poletimber Well	5.1	65	51-80		Stand of balsam and spruce with some hardwoods. Stand is operable. Hold for 10 years and manage with aspen stand to the north.
11	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	8.5	110	81-110		White pine sawtimber stand mixed with red maple. Some scattered oak and some old rotten aspen.
12	4130 - Aspen	Sapling Well	29.5	24	Immature		
13	6127 - Lowland Pine	Sapling Poor	9.2	75	1-50		Treed Bog
15	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	12.9	55	Unspecified		
16	4130 - Aspen	Poletimber Well	24.8	24	Immature		Stand approaching A6
17	6123 - Lowland Fir	Sapling Medium	9.7	24	Immature		Stand was cut with adjacent aspen stand. Some open areas dominated by tag alder.
18	4199 - Other Mixed Upland Deciduous	Poletimber Poor	2.4	35	1-50		Upland cherry. Very open stand with sweet fern ground cover.
19	42330 - Upland Fir	Poletimber Well	3.3	55	81-110		
20	4130 - Aspen	Sapling Well	9.5	24	Immature		





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	42360 - Upland Cedar	Sawtimber Well	2.4	110	81-110	Nice little island of cedar.
22	4130 - Aspen	Poletimber Well	43.4	28	1-50	
23	42320 - Upland Spruce	Poletimber Well	4.1	60	81-110	Narrow strip between a bog and aspen stand. A stand of Black spruce and jack pine. Some scattered red and white pine. Stand is operable and could be managed in the future.
24	4319 - Mixed Upland Forest	Sawtimber Well	8.0	100	51-80	Mixed/variable stand.
25	6122 - Black Spruce	Poletimber Well	3.2	60	81-110	Small black spruce stand. 55-60 years old. Site is operable. Consider harvesting with some other adjacent stands in the future.
26	42210 - Natural Red Pine	Sawtimber Well	3.5	105	81-110	Small stand of natural red pine with heavy balsam fir understory.
27	4319 - Mixed Upland Forest	Poletimber Well	30.1	100	51-80	Diverse mixed stand. Some lowland areas dominated by fir and tag alder. Other areas are dominated by red maple with balsam fir understory. Some pockets of cedar.
28	6127 - Lowland Pine	Sapling Poor	5.6	75	1-50	Treed Bog
32	6123 - Lowland Fir	Sapling Well	21.3	55	Unspecified	
33	612 - Lowland Coniferous Forest	Poletimber Well	4.3	75	Unspecified	
34	4136 - Aspen, Mixed Conifer	Poletimber Well	6.1	45	51-80	Harvest next entry with aspen stand to the north.
39	42120 - Planted Jack Pine	Poletimber Well	17.9	47	51-80	Jack pine plantation that was third row thinned last entry. Stand was hit by heavy snow in march of 2012 that caused heavy mortality by snapping boles of the jack pine. There are quite a few snags around 10' high. Stand has a good understory of primarily jack pine and oak, There are some areas of heavy red maple,
40	4130 - Aspen	Sapling Well	61.1	17	Immature	
42	6130 - Fir, Aspen, Maple	Sapling Medium	5.8	24	Immature	
43	613 - Lowland Mixed Forest	Sapling Poor	5.5	24	Immature	
44	6126 - Lowland Jack Pine	Sapling Poor	2.8	95	Unspecified	Treed Bog

S
t
a
n
d

Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 33
Year of Entry: 2017



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	42210 - Natural Red Pine	Sawtimber Well	2.8	90	81-110	Small stand of natural red pine. Thinned in the past.
60	6120 - Lowland Cedar	Poletimber Poor	178.2	110	51-80	Stand has a lot of dead black ash from EAB.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	3102 - Grass	2.1	No	
4	3301 - Low Density Deciduous Tree	0.8	No	
6	6225 - Bog	9.3	No	
14	6225 - Bog	0.9	No	
29	3102 - Grass	3.5	Yes	Maintained wildlife opening.
30	6229 - Mixed lowland shrub	20.3	No	
31	6229 - Mixed lowland shrub	12.0	No	
35	6225 - Bog	3.5	No	
37	6225 - Bog	3.0	No	
41	6229 - Mixed lowland shrub	13.6	No	
46	3102 - Grass	0.9	Yes	Managed wildlife opening