



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71110

Entry Year 2018

Acreage: 1,638

County Roscommon

Management Area: Houghton Lake Wetlands

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**Revision Date:** 2016-08-04

**Stand Examiner:** Dale Ekdom

**Legal Description:**

T22N R04W Sections 16,17, and 18.

**Identified Planning Goals:**

**Soil and topography:**

Topography is very level and has a water table close to or at the surface in most spots. Soils generally are Bergland loam and Saugatuck sand on the more upland areas and Rifle peat in the low marshy areas and swamps.

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

Compartment is a solid block of state land and is mostly surrounded by state land on the north, west, and south. There is private property to the northeast, east, and southeast which is farmland, wooded acreages used for hunting, or Houghton Lake Sewage Authority lands used for water treatment.

**Unique Natural Features:**

This compartment lies within the Houghton Lake Deer Research area (Porter Ranch).  
The west side of this compartment was ditched at one time to promote drainage (Nellsville Drain).

**Archeological, Historical, and Cultural Features:**

None known or detected during field work.

**Special Management Designations or Considerations:**

None at this time.

**Watershed and Fisheries Considerations:**

Nellsville Drain and the headwaters to Bear Creek are within this compartment.

**Wildlife Habitat Considerations:**

Provide and maintain habitat for a variety of game and non-game species. There are numerous maintained wildlife openings within this compartment with the potential for more if access can be gained across a drainage.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium, and peat and muck. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Saginaw Formation and Jurassic red beds. The Saginaw is quarried for shale elsewhere in the state. Most of the nearby sand and gravel pits are associated with upland areas. There are active pits in sections 10 and 24. However, much of the compartment consists of lowlands and wetlands and sand and gravel potential appears to be limited. Part of the Nellsville Field is located in Section 17. The field has produced over 75,000 bbls of oil from the Devonian Traverse Group, Dundee Limestone, and Richfield Formation. The State does not own any mineral rights in sections 17 & 18. Many of the leases in the area expired in February 2016, and there are currently no active leases within the compartment.

**Vehicle Access:**

Vehicle access is good to the east part of the compartment where high ground exists via seasonal county roads and forest roads. Vehicle access to the west part of the compartment is poor to non-existent due to the wet terrain.

**Survey Needs:**

None necessary at this time.

**Recreational Facilities and Opportunities:**

No formal recreational trails or facilities but good vehicle access creates multiple opportunities for dispersed recreation such as hunting, especially given the proximity to the population centers around Houghton Lake.

**Fire Protection:**

Majority of compartment is state-owned with little wildland-urban interface. Much of this compartment is wetland or swamp and the rest has a high water table. The upland areas of this compartment are made up of primarily hardwood cover type and it is in close proximity to suppression forces.

**Additional Compartment Information:**

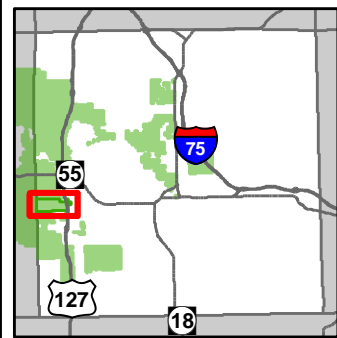
The following reports from the Inventory are attached:

- 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:

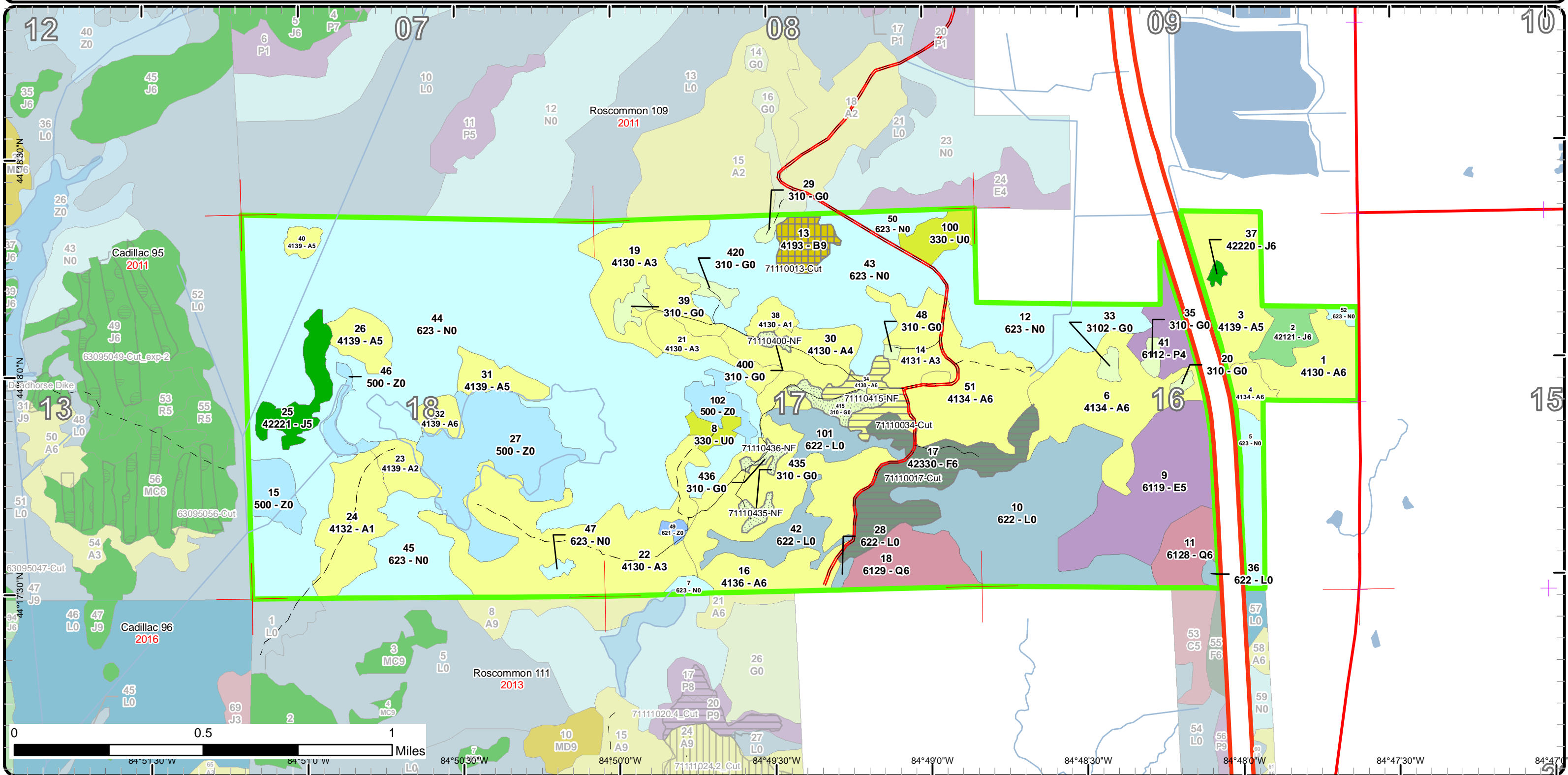
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

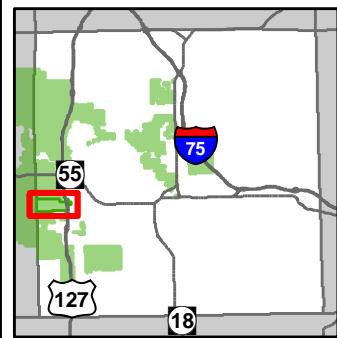


Compartment: 110  
 T22N, R04W, Sec. 16-18  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: Houghton Lake Wetlands  
 YOE: 2018  
 Acres: 1638 GIS Calculated  
 Examiner: Dale Ekdorn  
 Map Revised: 2/9/2017  
 Map Phase: Post-Review

- Miris Corners
- + Remonumented Section Corners
- Highway
- County Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Mowing
- Seed Tree (w/Reserves)
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 621 - Floating Aquatic
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

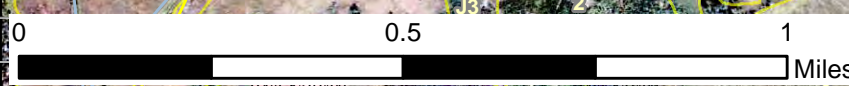
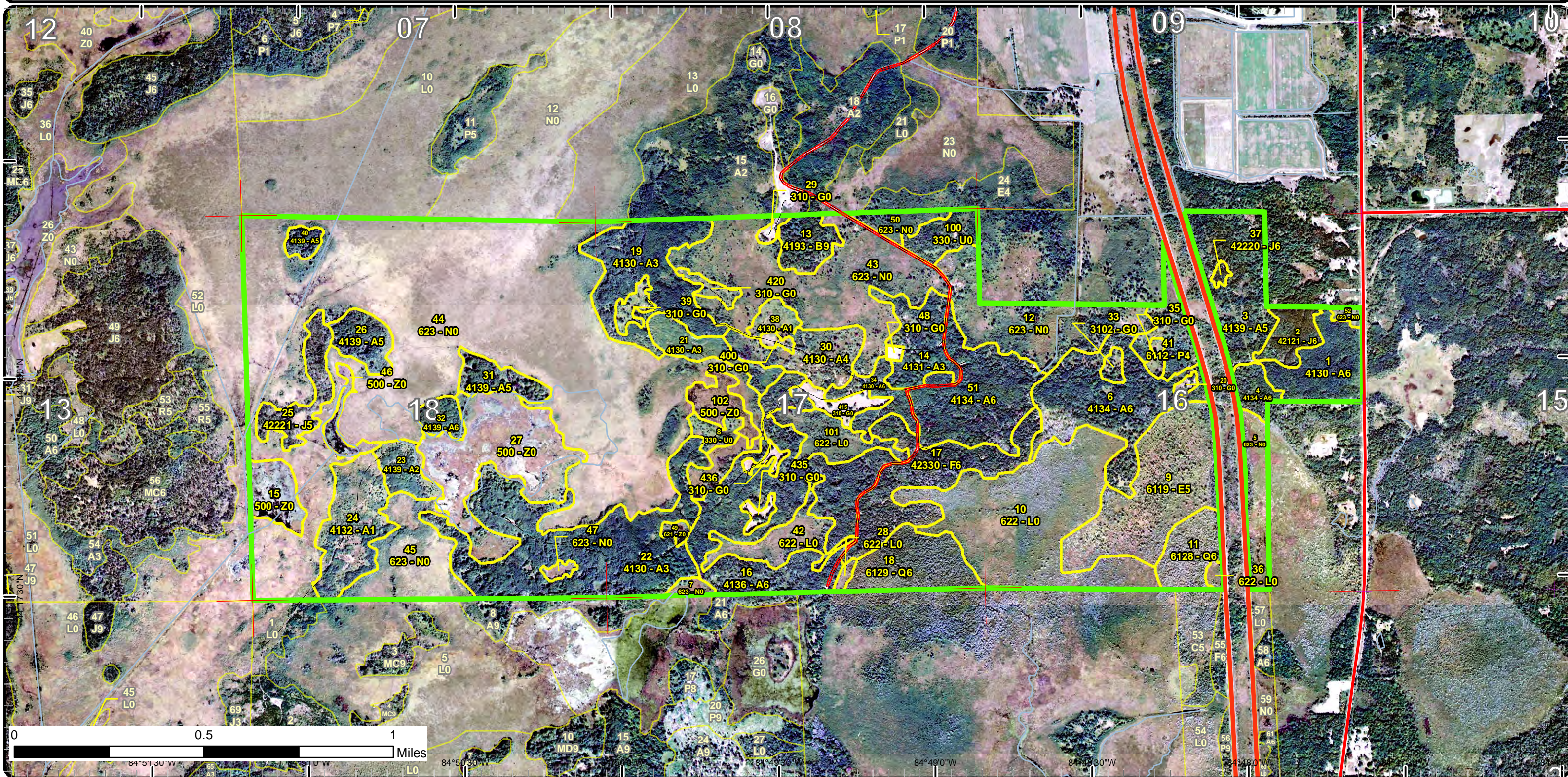


# Stand Boundary Map



Compartment: 110  
 T22N, R04W, Sec. 16-18  
 County: Roscommon  
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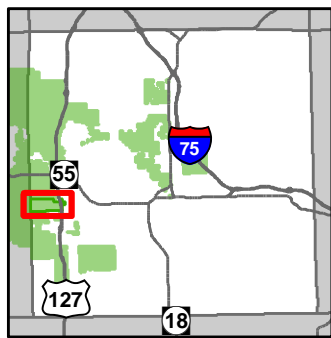
- Miris Corners
- + Remonumented Section Corners
- Highway
- County Paved Roads
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- Compartment Boundary
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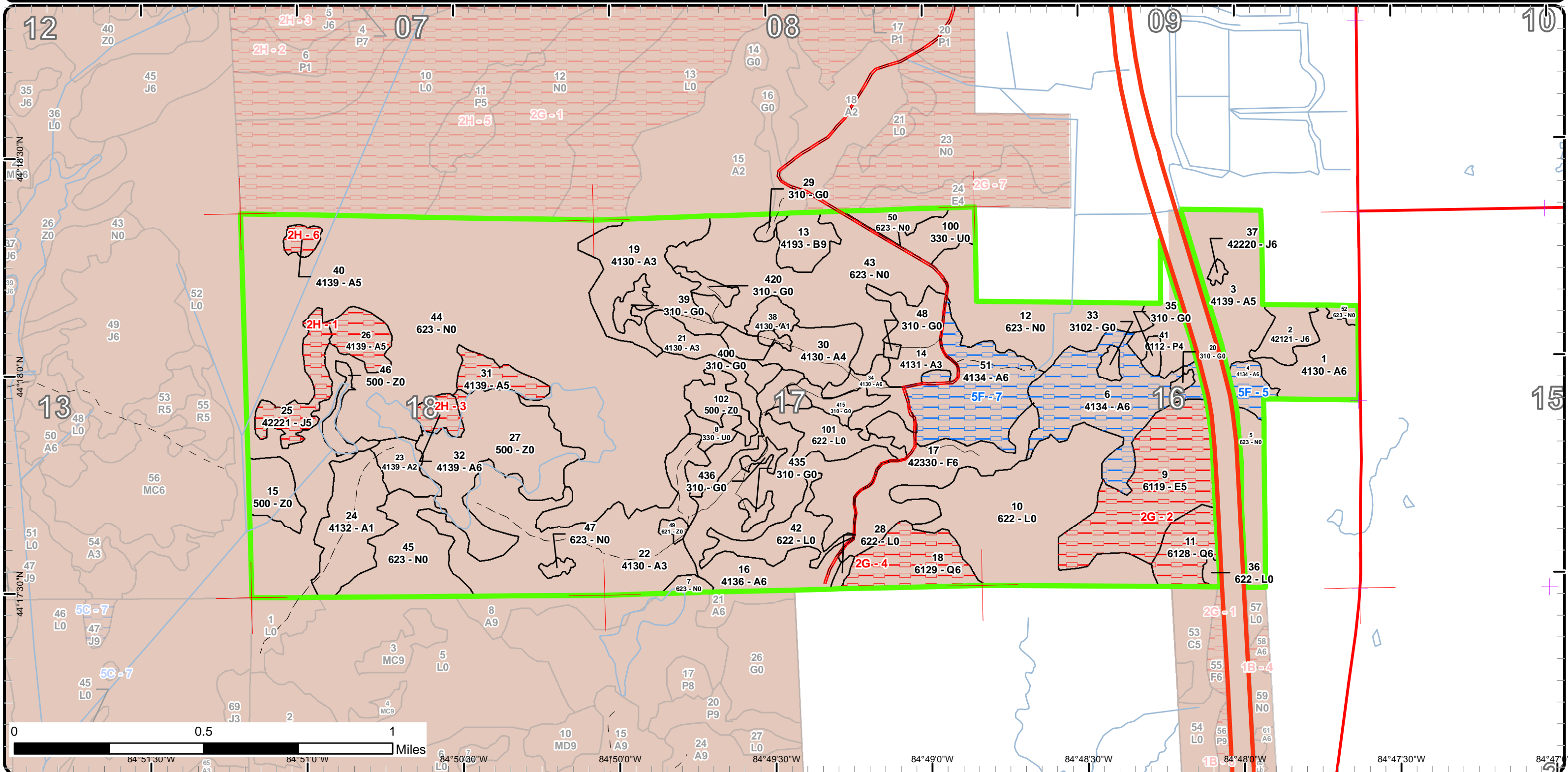
84°51'30" W    84°50'30" W    84°49'30" W    84°48'30" W    84°48'00" W

# Special Conservation Areas & Site Conditions Map

Compartment: 110  
 T22N, R04W, Sec. 16-18  
 County: Roscommon  
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 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Highway
- County Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Wildlife Research Areas



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	20	43	162	65	235	8	0	0	11	7	0	0	0	0	0	0	0	551
Herbaceous Openland	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Jack Pine	0	0	0	0	1	0	28	0	0	0	0	0	0	0	0	0	0	0	29
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Aspen/Balsam Poplar	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	0	0	0	0	27	18	0	0	0	0	0	0	0	45
Lowland Deciduous	0	0	0	0	0	0	0	0	0	61	0	0	0	0	0	0	0	0	61
Lowland Shrub	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130
Marsh	608	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	608
Paper Birch	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Upland Spruce/Fir	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	44
Water	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
<b>Total</b>	<b>880</b>	<b>20</b>	<b>43</b>	<b>162</b>	<b>66</b>	<b>250</b>	<b>48</b>	<b>0</b>	<b>44</b>	<b>99</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1637</b>



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2018

Acres of Harvest

Compartment 110  
Total Compartment Acres: 1,638

Commercial Harvest - 69  
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	13	0	0	0	0	0	0	0	0	13
Paper Birch	0	0	0	12	0	0	0	0	0	12
Upland Spruce/Fir	44	0	0	0	0	0	0	0	0	44
<b>Total</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>69</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	69	0	0	0	0	0	0	15		83
Next Step	0	0	0	0	0	0	69	0	15	83
<b>Total</b>	<b>69</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>69</b>	<b>0</b>	<b>29</b>	<b>166</b>



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
13	71110013-Cut	12.4	4193 - Birch, Aspen	Sawtimber Well	55	51-80	Harvest	Seed Tree	4137 - Aspen, Birch	Two-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription no specific retention due to size of the stand and the age of the aspen, cut all aspen and red maple and leave oak and birch for a seed source to  
Specs: keep these species as a component in the stand and provide hard mast for wildlife, possibly mark some birch and oak to cut also to open the stand up more for oak/birch regeneration

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any combination of species to a fully stocked stand, plant/seed jack pine if regeneration fails

Regen:

Other line out any really wet spots, cut may extend into compartment 71109 to the north, buffer grassy openings with oil rigs on the north and west  
Comment: sides especially the areas which are heavy to white pine, cut during the dormant season to increase aspen sprouting

Proposed Start Date: 10/01/2017

17	71110017-Cut	43.7	42330 - Upland Fir	Poletimber Well	72	51-80	Harvest	Clearcut with Retention	42380 - Non Pine Upland Conifer, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut with reserves to 2" spec and leave tops for a seed source, leave wet drains/potholes out of the sale, add hare spec and brush pile spec  
Specs: to the treatment

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any combination of species to a fully stocked stand, plant/seed jack pine next YOE if aspen and spruce/fir regeneration fails to develop into a  
Regen: fully stocked stand

Other this stand may fall outside the Chapter 7 window for acres so approve deviation at compartment review

Comment:

Proposed Start Date: 10/01/2017

34	71110034-Cut	12.5	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest and manage for aspen, buffer the two grassy openings as necessary and any wet areas which are left out of the sale and use these  
Specs: areas as retention, leave all oak for diversity and wildlife mast, add hare and brush pile specs to the sale per WD

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any combination of species to a fully stocked stand

Regen:

Other plant/seed jack if aspen regeneration fails

Comment:

Proposed Start Date: 10/01/2017

400	71110400-NF	1.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Porter Ranch Field 5.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:OtherComment:

Proposed Start Date: 10/01/2017





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
415	71110415-NF	7.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Porter Ranch Field 6.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

435	71110435-NF	2.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Porter Ranch Field 8.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

436	71110436-NF	2.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Porter Ranch Field 7.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment  
Acreage Proposed: 83.2**

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
Dale Ekdom : Examiner

Compartment: 110  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5F	2G	2H
		With Condition	Not Available				
551	409	<b>108</b>	35	Aspen	108		35
33	33	<b>0</b>	0	Herbaceous Openland			
30	13	<b>0</b>	17	Jack Pine			17
17	17	<b>0</b>	0	Low-Density Trees			
15	15	<b>0</b>	0	Lowland Aspen/Balsam Poplar			
45	0	<b>0</b>	45	Lowland Conifers		45	
61	0	<b>0</b>	61	Lowland Deciduous		61	
130	130	<b>0</b>	0	Lowland Shrub		0	
608	608	<b>0</b>	0	Marsh			
12	12	<b>0</b>	0	Paper Birch			
44	44	<b>0</b>	0	Upland Spruce/Fir			
92	91	<b>0</b>	1	Water			1
1,638	1,372	<b>108</b>	159	Total Forested Acres	108	106	53
	84%	<b>7%</b>	10%	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	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	79	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 110

Dale Ekdor : Examiner

Year of Entry: 2018

3	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Looking at for 2018 YOE inventory, change site condition or add treatment after stand is looked at this winter							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	100	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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
<b>Comments</b>				



### 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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Poletimber Well	26.0	38	Unspecified	Nice young quaking aspen stand, growing well, some BTA also. scattered areas heavy to BF as well as a few wetter areas heavy to tag alder, treat next YOE
2	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	11.4	52	Unspecified	appears to be jack pine planted in an old barrow area, there is a ridge of pushed up soil around the outside of this stand with a few rows of RP SL planted on it, rest of the stand is jack pine with a few area of hardwoods where the jack pine did not get established
3	4139 - Aspen, Mixed Deciduous	Poletimber Medium	38.9	39	1-50	roller-chopped in 1978 but didn't regenerate well, slowly filling in with merchantable species, stand is upland areas interspersed with areas of lower ground, upland areas have oak and white pine as well as aspen, lower areas are tag alder with sparse trees or balsam fir/white pine, stand cut by some sort of drainage ditch north to south, possibly cut with Stands #1-4 next YOE
4	4134 - Aspen, Spruce/Fir	Poletimber Well	7.8	52	51-80	small stand of A6, upland terrain but the south end gets lower/wetter as it grades into the marsh to the south, aspen is low quality but doing OK, stand is bisected north to south with some sort of drainage ditch, too small to cut by itself so recommend holding until next YOE and cutting with stands 1-3.
6	4134 - Aspen, Spruce/Fir	Poletimber Well	53.0	42	Unspecified	Access is cut off by drainage so will need to use a bridge or culvert to access if cut, stand is just at pole-size (A6), most of this stand is operable given the right conditions but the south and north parts are slightly lower and wetter than the central portion, Cut or hold per MA analysis but WD has expressed interest in restoring Stands #20, 33, and 35 which are old maintained openings so this gives added incentive to use a culvert and fill to bridge the drain on the west side of the stand to make a permanent crossing point and treating this stand now
9	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	60.9	87	51-80	OIPC Comment: ABANDON ALL HOPE ALL YE WHO ENTER HERE! Stand is a very wet lowland deciduous stand, not commercially operable and very difficult access, black ash and balsam poplar are slowly dropping out of this stand and red maple is taking over, heavy tag alder understory thru-out stand along with areas of cat-tails, lots of blow-down in spots
11	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.6	97	51-80	OIPC Comment: ABANDON ALL HOPE ALL YE WHO ENTER HERE! Stand is a very wet lowland conifer stand with lots of tag alder in the understory, hardwoods are dropping out, lots of blowdown
13	4193 - Birch, Aspen	Sawtimber Well	12.4	55	51-80	Fairly equal mix of aspen and birch with scattered maple and oak, aspen is older than the birch and is starting to decline, north end is heavy to white pine, needs to be treated to regenerate the older aspen and red maple
14	4131 - Aspen, Oak	Sapling Well	21.5	24	Immature	A3 stand with numerous scattered overstory oaks, cut 1993 and left oak SL's good regeneration of aspen and red maple, mix of BTA and QA, some spots are already approaching pole-size despite high BA of oak residual.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4136 - Aspen, Mixed Conifer	Poletimber Well	82.8	42	51-80	Decent quality quaking aspen stand (A6) with a few big tooth aspen on the drier spots, scattered red maple. Some areas have balsam fir component in the understory. Some pin cherry and red maple in understory. Hold or cut parts as needed per the MA analysis
17	42330 - Upland Fir	Poletimber Well	43.7	72	51-80	60-70% of the stand appears operable, east edge gets wet as it grades into the lowland shrub/swamp complex to the east, mostly balsam fir but numerous scattered black spruce, red maple, and aspen. Numerous wetter potholes and drains which are heavy to tag alder, needs to be regenerated but there is probably not enough viable aspen to get good aspen sprouting if cut, recommend leaving scattered tops for a balsam fir seed source and you will get some e-spouting of aspen and other hardwoods, plant/seed jack pine if fir/aspen doesn't regenerate
18	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	27.2	82	Unspecified	low/wet sand of swamp conifers, not operable due to the wet terrain and Tawas-Lupton muck soil
19	4130 - Aspen	Sapling Well	45.2	25	Immature	just starting to transition to A6, mostly quaking aspen but some big tooth aspen on the higher/drier spots, terrain is upland but the water table is close to the surface so any depressions are wet with tag alder
21	4130 - Aspen	Sapling Well	14.3	8	Immature	Cut Dec. 2008, nice A3
22	4130 - Aspen	Sapling Well	94.9	24	Immature	nice young aspen stand transitioning to A6, numerous small, wet potholes but majority of the stand is upland, some areas on the west side are heavy to white pine, overall there is a fairly equal mix of BTA/QA. mostly A3 but a few parts are A6
23	4139 - Aspen, Mixed Deciduous	Sapling Medium	11.3	17	Immature	Some aspen, red maple and a few oaks, Some areas are under-stocked, access is extremely poor, had to freeze a road across an L-type and rest of road is poor with many low potholes, access for the timber sale in fall of 2000 was thru Missaukee County into Roscommon County to the Barney Lake area.
24	4132 - Aspen, Jack Pine	Sapling Poor	32.4	17	Immature	Low stocked stand, Some aspen regen and some spots with jack pine regeneration, many areas are under-stocked. Very wet site and access is extremely poor, had to freeze a road across an L-type and rest of road is poor with many low potholes, access for the timber sale in fall of 2000 was thru Missaukee County into Roscommon County to the Barney Lake area.
25	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	17.1	57	Unspecified	natural jack pine stand surrounded by marsh, no access
26	4139 - Aspen, Mixed Deciduous	Poletimber Medium	12.5	47	1-50	surrounded by marsh, no access
30	4130 - Aspen	Poletimber Poor	23.2	42	Unspecified	upland is A4/5, lowland areas are bog or lowland brush, records indicate probably regenerated from KG blading back in the early to mid 1970's and did not regenerate too well.
31	4139 - Aspen, Mixed Deciduous	Poletimber Medium	11.4	87	1-50	aspen stand surrounded by marsh, no access



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>32</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.7	90	Unspecified	aspen stand surrounded by marsh, previous examiner for 2008 YOE inventory walked across beaver dam to inventory
<b>34</b>	4130 - Aspen	Poletimber Well	12.5	42	51-80	Decent quality quaking aspen stand with a few big tooth aspen and red maple. Some areas have balsam fir component in the understory. Some pin cherry and red maple in understory. Part of Stand #16 last YOE, mostly upland except for a few wet potholes, cut or hold as needed per MA analysis and to provide an upland staging area if Stand #17 is cut.
<b>37</b>	42220 - Natural Jack Pine	Poletimber Well	1.3	39	Unspecified	stand was roller-chopped with Stand #3 in 1978 resulting in good jack pine regeneration, jack pine is growing well, stand has hummocky terrain with the water table close to the surface, cut by some sort of drain north to south, possible treat with Stands #1-4 next YOE.
<b>38</b>	4130 - Aspen	Sapling Poor	5.6	8	Immature	cut Dec. 2008 with Stand #21, did not regenerate well, scattered aspen and red maple saplings, trench and plant jack pine
<b>40</b>	4139 - Aspen, Mixed Deciduous	Poletimber Medium	4.3	47	Unspecified	small aspen island surrounded by marsh, no access
<b>41</b>	6112 - Lowland Aspen	Poletimber Poor	14.9	42	1-50	drier parts of this stand were roller-chopped in the 1970's but the stand did not regenerate to a fully stocked condition, there are a few small aspen clones in the drier parts on the south end of the stand, the rest of the stand is wetter with scattered aspen, red maple, and balsam fir, many of the wettest spots are tag alder swales
<b>51</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	46.8	42	Unspecified	A6 which is just reaching pole size, east and southern part are lower and wetter with more red maple/tag alder, most of stand is operable given the right conditions, hold or cut now if needed for MA plan





Stand	Cover Type	Acres	Managed Site	General Comments:
5	623 - Emergent Wetland	17.9	No	OPIC - FMD: OI Stand Year Origin was
7	623 - Emergent Wetland	3.0	No	OPIC - FMD: OI Stand Year Origin was 1993
8	330 - Low-Density Trees	5.5	No	Stand was cut in 1993 with Stand #22 to the south, did not regenerate well, parts are grassy opening and parts are low density trees (both conifers and deciduous), beaver activity on the north edge along Stand #102, this is a good spot to leave an opening for use by wildlife
10	622 - Lowland Shrub	93.1	No	OPIC - FMD: OI Stand Year Origin was
12	623 - Emergent Wetland	47.1	No	marsh with spots of "L" and spots of high ground with sparse A/M/O trees
15	500 - Water	13.3	No	
20	310 - Herbaceous Openland	1.5	No	old maintained opening, no access w/o bridge or culvert
27	500 - Water	60.3	No	OPIC - FMD: Old beaver pond
28	622 - Lowland Shrub	1.6	No	OPIC - FMD: Decent quality quaking aspen stand with a few big tooth aspen and red maple. Some areas have balsam fir component in the understory. Some pin cherry and red maple in understory.
29	310 - Herbaceous Openland	2.0	No	OIL WELL SITE.
33	3102 - Grass	2.7	Yes	old maintained opening, currently no access w/o bridge or culvert
35	310 - Herbaceous Openland	2.5	No	old maintained opening, currently no access w/o bridge or culvert
36	622 - Lowland Shrub	1.9	No	OPIC - FMD: ABANDON ALL HOPE ALL YE WHO ENTER HERE!
39	310 - Herbaceous Openland	4.8	No	non-maintained grassy opening with some lower/wetter spots, drier part was used as a landing when Stand 19 was cut in 1992
42	622 - Lowland Shrub	17.6	No	
43	623 - Emergent Wetland	88.1	No	Emergent Marsh with spots of "L"
44	623 - Emergent Wetland	405.8	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
45	623 - Emergent Wetland	34.4	No	
46	500 - Water	6.1	No	
47	623 - Emergent Wetland	1.9	No	
48	310 - Herbaceous Openland	1.0	No	WELL SITE, bare in middle by pump, rest is grass
49	621 - Floating Aquatic	2.1	No	nice young aspen stand transitioning to A6, numerous small, wet potholes but majority of the stand is upland, some areas on the west side are heavy to white pine, overall there is a fairly equal mix of BTA/QA. mostly A3 but a few parts are A6
50	623 - Emergent Wetland	7.8	No	Emergent Marsh and lowland shrub, areas of high ground with A/M/O
52	623 - Emergent Wetland	2.1	No	small wet pothole with marsh grass and tag alder, scattered areas heavy to aspen which are too small to map
100	330 - Low-Density Trees	11.5	No	lots of almost pole-size pin cherry, parts filling in with aspen and red maple saps/poles, variable terrain with wetter pockets of lowland brush
101	622 - Lowland Shrub	15.9	No	
102	500 - Water	10.6	No	beaver flooding?
400	310 - Herbaceous Openland	1.8	Yes	Managed Opening
415	310 - Herbaceous Openland	7.5	Yes	MAINTAINED OPENING.
420	310 - Herbaceous Openland	3.9	No	Old maintained opening, grass and ferns encroaching with aspen, over-grown but could be brought on-line as a maintained opening with minimal time and \$.
435	310 - Herbaceous Openland	2.8	Yes	MAINTAINED OPENING.
436	310 - Herbaceous Openland	2.5	Yes	MAINTAINED OPENING.