



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71086

Entry Year 2019

Acreage: 1,205

County Roscommon

Management Area: Houghton Lake Wetlands

Revision Date: 2017-08-02

Stand Examiner: Doug Bates

Legal Description:

T23N R02W Sections 32 and 33

Identified Planning Goals:

Maintain current age and species diversity in a range of early and late successional ecosystems. Numerous aspen stands reached maturity age that will need to start be regenerated.

Soil and topography:

Terrain is primarily broad flat outwash plain. Soils are Saugatuck and Rubicon sands, Newton loamy sand, and Rifle peat.

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

The compartment is a solid block of all state land and is surrounded by state land. I-75 runs through the compartment with the portion lying west of the expressway being in the Backus Creek State Game Area.

Unique Natural Features:

Osprey nesting areas and great blue heron rookeries have been documented in this compartment. Wild pig activity was evident at the last time of inventory but none found this time around.

Archeological, Historical, and Cultural Features:

None identified or found during field work. No concerns from State Archeological Office.

Special Management Designations or Considerations:

Backus Creek State Game Area with restricted vehicular access and a dike system with water control device.

Watershed and Fisheries Considerations:

Backus Creek Flooding with is associated wetlands and a water filled borrow pit created during construction of the expressway that is known as "Piglet Pond".

Wildlife Habitat Considerations:

Compartment is within Backus Creek SGA. Area offers unique walk in hunting access and birding opportunities. Manage aspen for grouse, deer, and turkeys. Allow some forest to mature for wood duck cavities, hollow logs, and downed timber for wildlife. Manage flooding for waterfowl and furbearer production and stopover, fall hunting opportunities. Continue to manage openings for deer, turkeys, and other grassland wildlife.

Mineral Resource and Development Concerns and/or Restrictions

The St. Helen/Carter pit is located less than two miles to the north, but sand and gravel potential within the compartment appears to be limited. The nearest hydrocarbon production (past or present) is greater than four miles away, and there has been sparse exploration in the area. All of the state-owned mineral rights within the compartment are currently leased but are in the process of being released. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicular access to the compartment east of I-75 is good with a seasonal county road running along the west side. West of I-75 forest roads are present within the compartment allowing for access to most stands but it is restricted to DNR management purposes only and has a gate located at the Backus Dike system.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

Limited vehicle access reduces pressure of recreational opportunities in this compartment to walk-in traffic. Good hunting and trapping opportunities exist for the general public for waterfowl, small game, deer and bear hunting. No designated recreation trails exist within the compartment.

Fire Protection:

No high hazard fuels in this compartment. Access is limited in some of the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

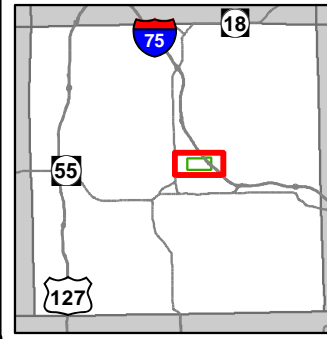
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

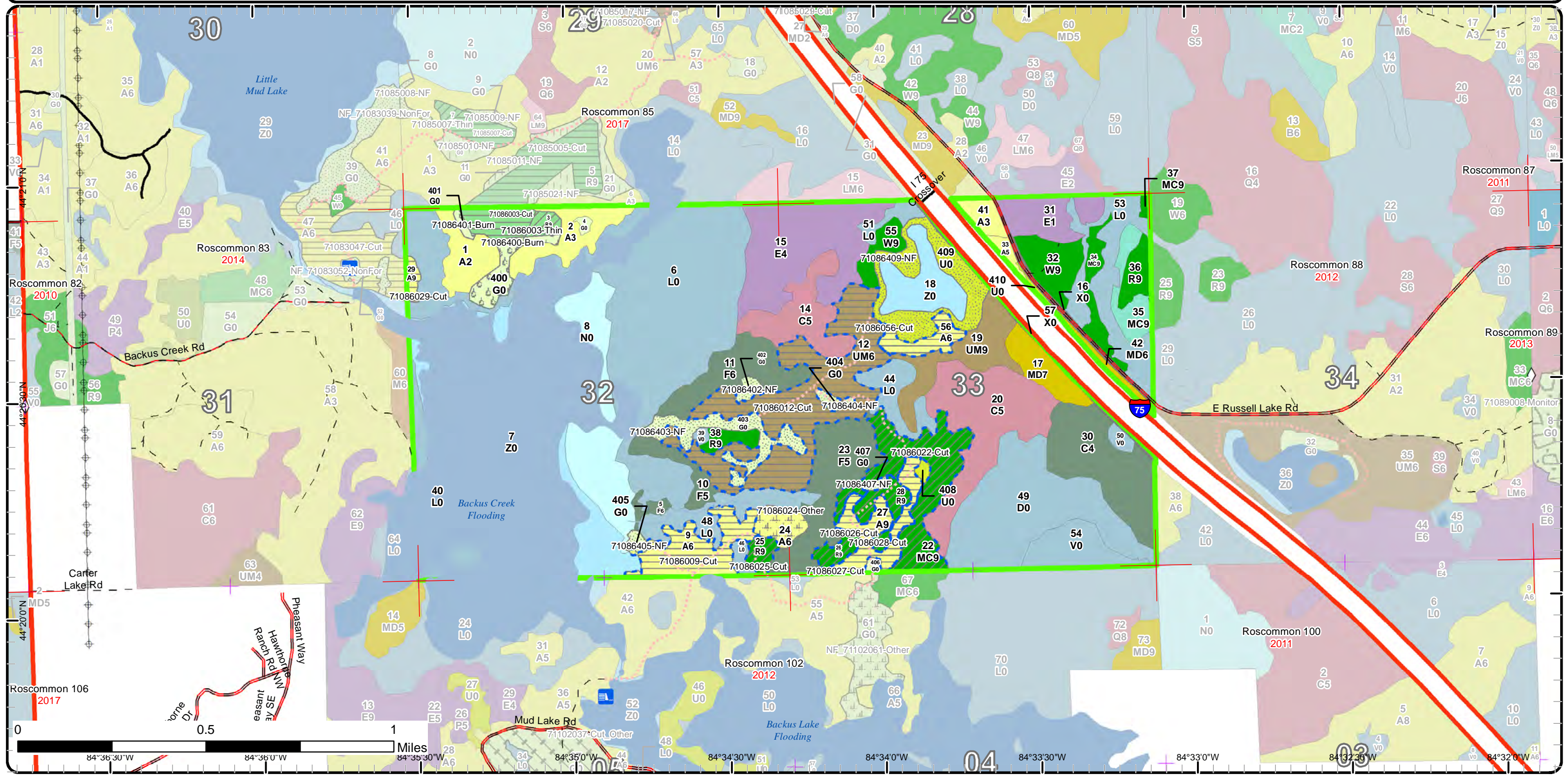
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 86
 T23N, R02W, Sec. 32-33
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2019
 Acres: 1204.9 GIS Calculated
 Examiner: Doug Bates
 Map Revised: 8/2/2017
 Map Phase: Review

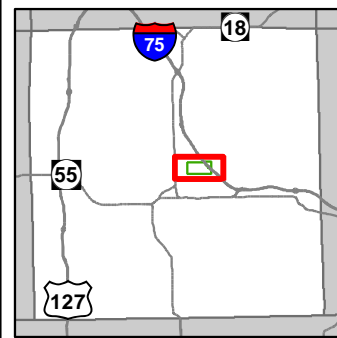


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|--|--|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners ◇ Field Grade GPS Corners ▭ Counties ▭ Dams — Highway — Paved Roads — County Gravel Roads — County Poor Dirt Roads - - Poor Dirt Roads — Closed — Streams ▭ Lakes and Rivers All ⊕ Powerline | <ul style="list-style-type: none"> ▭ Compartment Boundary ▭ Treatments with Site Conditions ▭ Clearcut (w/Reserves) ▭ Other Treatment - See Comments ▭ Prescribed Burn ▭ Mowing ▭ Thinning (Crown, Low, Systematic) ▭ 413 - Aspen ▭ 419 - Mixed Upland Deciduous ▭ 421 - Planted Pines ▭ 422 - Natural Pines ▭ 423 - Other Upland Conifers ▭ 429 - Mixed Upland Conifers ▭ 430 - Upland Mixed Forest ▭ 611 - Lowland Deciduous Forest | <ul style="list-style-type: none"> ▭ 612 - Lowland Coniferous Forest ▭ 122 - Roads/Parking Lot ▭ 310 - Herbaceous Openland ▭ 330 - Low Density Trees ▭ 500 - Water ▭ 622 - Lowland Shrub ▭ 623 - Emergent Wetland ▭ Lakes |
|--|--|---|

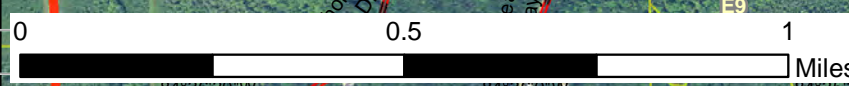
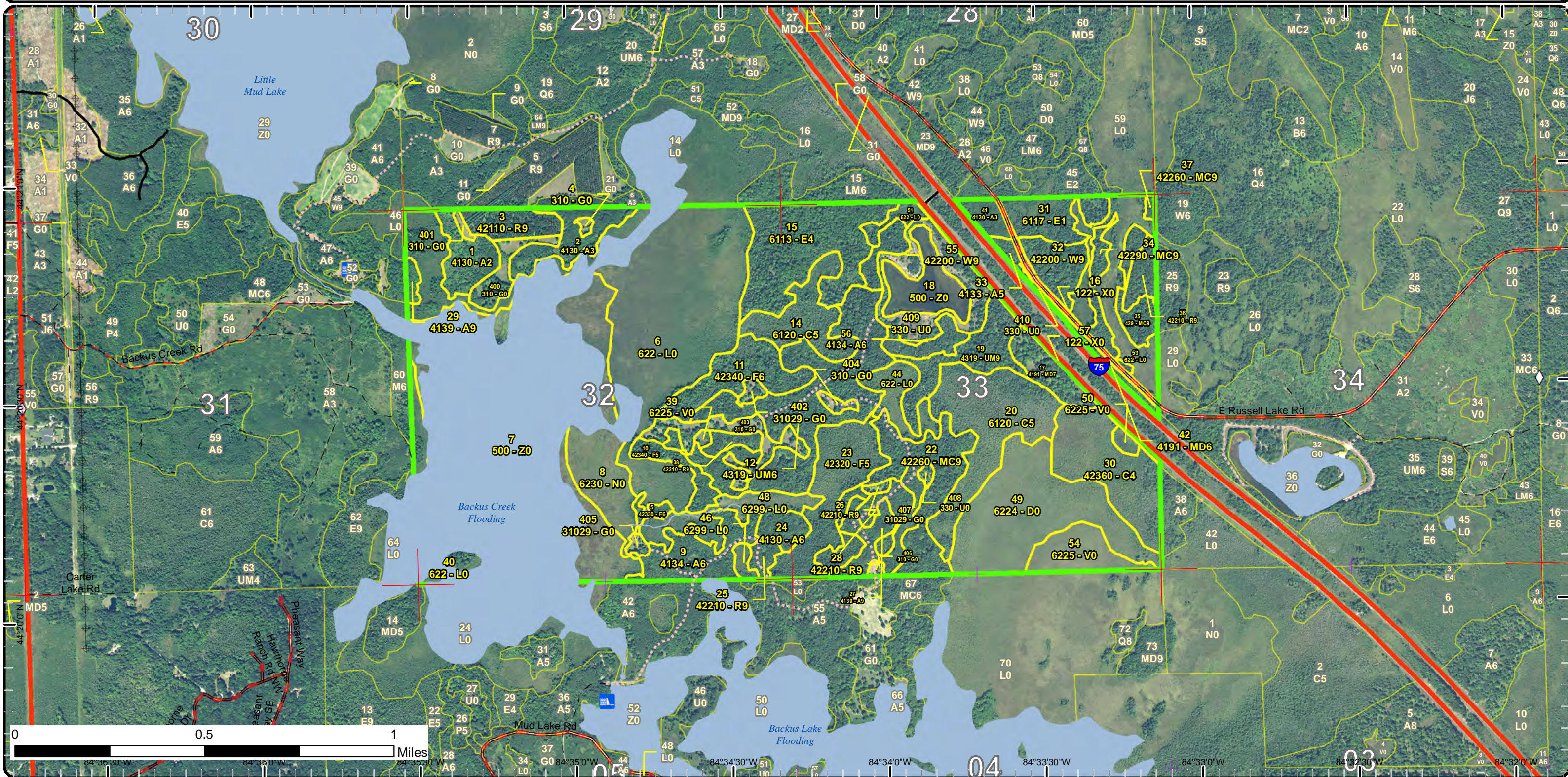


Stand Boundary Map

Compartment: 86
 T23N, R02W, Sec. 32-33
 County: Roscommon
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 Mgmt Area: Houghton Lake Wetlands
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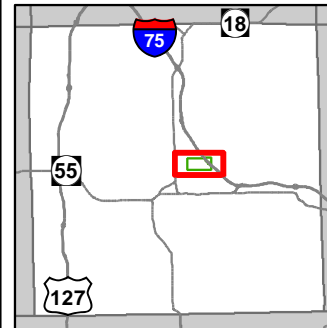
- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- Dams
- Highway
- Paved Roads
- County Gravel Roads
- - County Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- ⊕ Powerline
- Compartment Boundary
- Stand Boundaries
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water



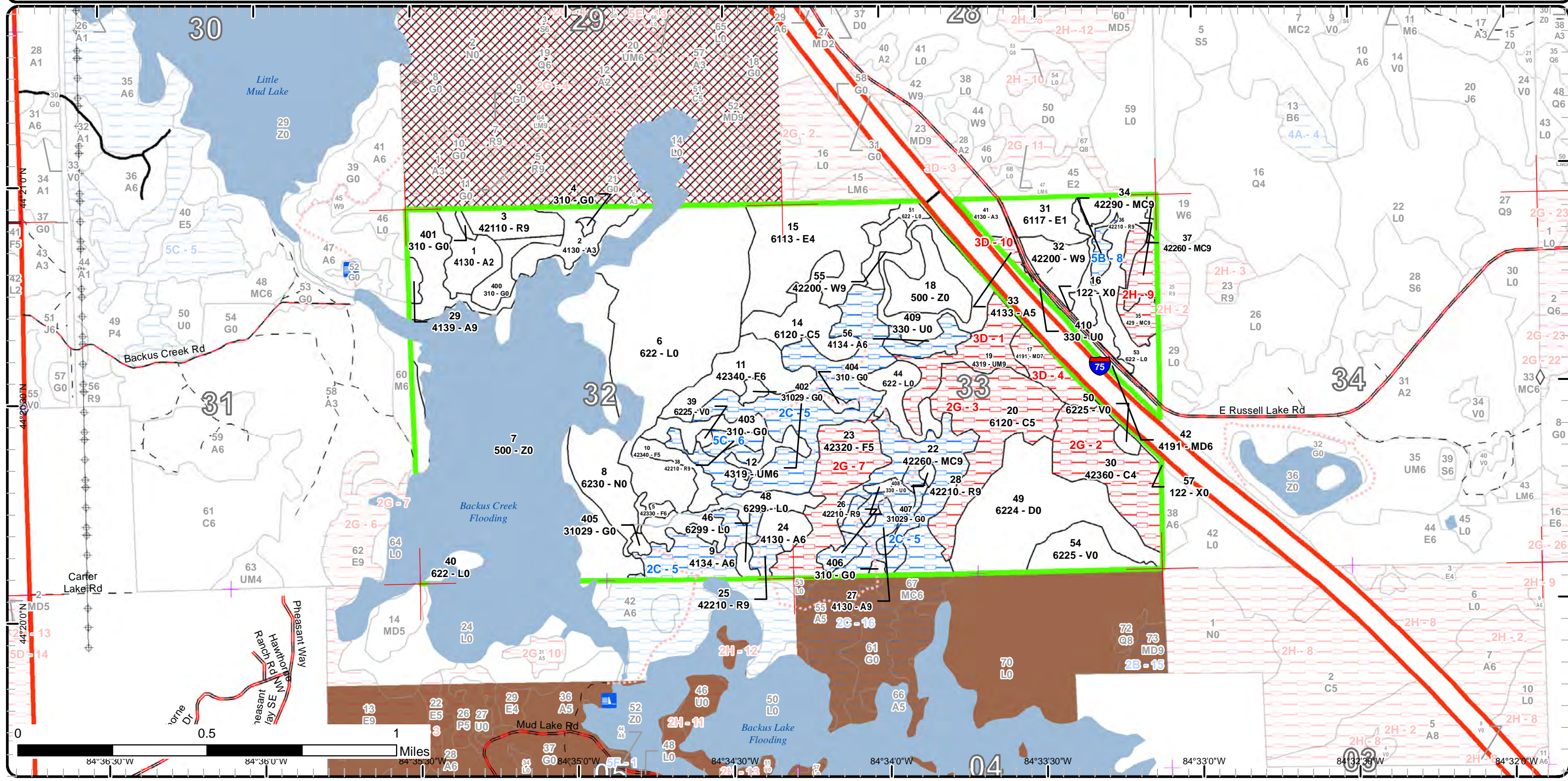
0 0.5 1 Miles

Special Conservation Areas & Site Conditions Map

Compartment: 86
 T23N, R02W, Sec. 32-33
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2019
 Acres: 1204.9 GIS Calculated
 Examiner: Doug Bates
 Map Revised: 8/2/2017
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- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- Dams
- Highway
- Paved Roads
- County Gravel Roads
- - County Poor Dirt Roads
- - - - Closed
- Streams
- Lakes and Rivers All
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Wildlife Management Areas
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- Stand Boundaries



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	0	30	6	0	10	47	0	2	0	0	0	0	0	0	0	0	0	95
Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Cedar	0	0	0	0	0	0	0	0	0	0	107	0	0	0	0	0	0	0	107
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Deciduous	0	0	0	16	0	50	0	0	0	0	0	0	0	0	0	0	0	0	66
Lowland Shrub	255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	255
Marsh	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	4	0	12	0	0	0	0	0	0	0	16
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	1	33	0	4	0	0	0	0	38
Red Pine	0	0	0	0	0	0	12	0	0	11	0	16	0	0	0	0	0	0	39
Treed Bog	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
Upland Mixed Forest	0	0	0	0	0	0	68	0	0	0	21	0	0	0	0	0	0	0	89
Upland Spruce/Fir	0	0	0	0	0	33	0	0	0	33	0	0	0	0	0	0	0	0	66
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192
White Pine	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	17	23
Total	655	0	30	22	0	93	127	0	6	50	141	49	0	4	0	0	0	27	1204



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 86
Total Compartment Acres: 1,205

Commercial Harvest - 14
Harvests with Site Condition - 164
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	50	0	0	0	0	0	0	0	0	50
Natural Mixed Pines	0	0	0	0	0	33	0	0	0	33
Red Pine	9	0	0	0	0	19	0	0	0	28
Upland Mixed Forest	68	0	0	0	0	0	0	0	0	68
Total	126	0	0	0	0	52	0	0	0	178

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	178	0	0	0	10	0	0	7	45	240
Next Step	0	0	0	0	9	0	166	0	55	230
Total	178	0	0	0	18	0	166	7	99	469



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
3	71086003-Cut	8.6	42110 - Planted Red Pine	Sawtimber Well	57	171-200	Harvest	Clearcut with Retention	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final harvest this stand per WD and manage for upland herbaceous; after harvest, burn multiple times over the course of 5-8 years as specified
Specs: by WD to reduce and eliminate the needle/duff layers & encourage stumps to naturally decay so that stand can be incorporated into surrounding grassy openings

Next Step Burn, Other
Treatments:

Acceptable none - stand to be managed as maintained opening with surrounding stands, will eventually be part of the GEM's area/trail.
Regen:

Other place two 1/4 acre retention islands adjacent to stand edges to be used as turkey roosting areas or raptor nest areas, require tops to be chipped
Comment: to reduce the slash load for the subsequent burns

Proposed Start Date: 10/01/2016

3	71086003-Thin	3.1	42110 - Planted Red Pine	Sawtimber Well	57	171-200	Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to 120 SF/acre from below to improve quality of the stand, stand will eventually be used as turkey roosting area or raptor nesting area
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2016

9	71086009-Cut	22.2	4134 - Aspen, Spruce/Fir	Poletimber Well	50	Unspecified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Engineered Bridge Needed**

Prescription Final harvest all species to a 2 inch diameter, however leave all white pine and oaks over 26 inches for mast, roast, and future snags. Place a 3 percent retention buffer by area around the small vernal pond within the stand's center. Place habitat along the boundaries with the lowland type.
Specs:

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

Acceptable Aspen with a moderate component of fir to full stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

12	71086012-Cut	67.8	4319 - Mixed Upland Forest	Poletimber Well	58	141-170	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Engineered Bridge Needed**

Prescription Final harvest all species to a two inch d.b.h.. Place retention pockets around the perimeters of the maintained grass openings with the total percentage of retention being at the higher end of the range. Place habitat along the boundaries with the lowland type.
Specs:

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

Acceptable aspen with a component of fir to full stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
22 71086022-Cut	33.2	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	108	111-140	Harvest	Crown Thinning	42111 - Planted Red Pine, Mixed Deciduous	Uneven-Aged	Proposal

Habitat Cut: No **Site Condition: Engineered Bridge Needed**

Prescription Thin the red pine down to a 90-110 basal area average. Remove the aspen, spruce, and all multi-stemmed red maple. When marking the red and white pine target the 16+ inch range for removal and any poor quality trees. Leave those red and white pines 26+ for future large snags.

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

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

24 71086024-Other	7.1	4130 - Aspen	Poletimber Well	45	Unspecified	Other	Other	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Wildlife Division will habitat cut this stand. All trees will be felled and left in place.

Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

25 71086025-Cut	3.9	42210 - Natural Red Pine	Sawtimber Well	88	171-200	Harvest	Crown Thinning	42211 - Natural Red Pine, Mixed Deciduous	Uneven-Aged	Proposal
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Habitat Cut: No **Site Condition: Engineered Bridge Needed**

Prescription Remove all aspen, red maple and fir down to a four inch d.b.h.. Thin remaining red pine down to a 100-120 basal area by removing the larger(15+inch) and any poor formed red pines and leaving the smaller sawlogs and poles. Do not cut pines or oaks over 28 inches as to leave for future large snags. No retention due to small size.

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

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
26	71086026-Cut	4.6	42210 - Natural Red Pine	Sawtimber Well	102	111-140	Harvest	Crown Thinning	42211 - Natural Red Pine, Mixed Deciduous	Uneven-Aged	Proposal

Habitat Cut: No **Site Condition: Engineered Bridge Needed**

Prescription Remove all aspen, red maple, spruce, and fir down to a four inch d.b.h.. Thin remaining red pine down to a 70-90 basal area by removing the larger and any poor formed red pines(15+ inches class) and leaving the smaller sawlogs and poles. Leave trees with a d.b.h. larger than 28 inches for large future snags. No retention due to small size.

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

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

27	71086027-Cut	17.1	4130 - Aspen	Sawtimber Well	58	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: Engineered Bridge Needed**

Prescription Final harvest all species to 2 inches d.b.h.. Leave all trees 26 inches and greater for roast and future snags. Leave approximately 3 percent total of retention. Some of the retention should be a buffer against the maintained opening.

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

Acceptable Regen: Aspen with a mixed component of some softwoods, i.e. balsam fir to fully stocked levels.

Other Comment:

Proposed Start Date: 10/01/2018

28	71086028-Cut	7.3	42210 - Natural Red Pine	Sawtimber Well	89	141-170	Harvest	Crown Thinning	42211 - Natural Red Pine, Mixed Deciduous	Uneven-Aged	Proposal
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Habitat Cut: No **Site Condition: Engineered Bridge Needed**

Prescription Thin the red pine down to a basal area between 90 and 110. Favor leaving the smaller sawclass pine and poles and focus on the larger red pine in the 16+ inch or larger. Leave the red pines/white that are in the 28+ inch range for future snags. Remove all the aspen, basal fir, and maple. Leave no retention due to stands smaller, irregular shape.

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

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

29	71086029-Cut	2.4	4139 - Aspen, Mixed Deciduous	Sawtimber Well	73	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Final harvest and manage for aspen. Leave some scattered white pine for retention. Leave no retention due to stand's small size. Add rabbitat spec.

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

Acceptable Regen: Aspen with mixed deciduous to full stocking

Other Comment: Treat this stand with Stand 47 in Compartment 83 which is slated for prep. in 2017.

Proposed Start Date: 10/01/2018



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
56	71086056-Cut	7.9	4134 - Aspen, Spruce/Fir	Poletimber Well	53	Unspecified	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
Habitat Cut: No		Site Condition: Engineered Bridge Needed									
<u>Prescription</u> Final harvest all species to two inches. No retention due to small size.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen with mixed fir to full stocking.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
400	71086400-Burn	8.7	310 - Herbaceous Openland	Nonstocked		Unspecified	Burn	Opening	3102 - Grass		Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> multiple burns over a 5-8 year period to kill any encroaching hardwoods, abandon east arm of Stand 400 as a maintained opening, possibly											
<u>Specs:</u> connect with Stand 401 to make one big grassy opening, possibly leave south arm of this stand out of the burns											
<u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> burns to start after Stand 3 is harvested, burn with Stand 3											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
401	71086401-Burn	1.1	310 - Herbaceous Openland	Nonstocked		Unspecified	Burn	Opening	3102 - Grass		Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> multiple burns over a 5-8 year period to kill any encroaching hardwoods, expand into Stand 1 as appropriate where aspen has not regenerated,											
<u>Specs:</u> possibly connect with Stand 400 to make one big grassy opening											
<u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> burns to start after Stand 3 is harvested, burn with Stand 3											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2008											
402	71086402-NF	2.1	31029 - Grass (OI)	Nonstocked		Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus 20											
<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>Proposed Start Date:</u> 10/01/2018											



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
403	71086403-NF	14.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
			Habitat Cut: No		Site Condition:						
<u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus 19											
<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>Proposed Start Date:</u> 10/01/2018											
404	71086404-NF	2.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
			Habitat Cut: No		Site Condition:						
<u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus 21											
<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>Proposed Start Date:</u> 10/01/2018											
405	71086405-NF	1.6	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
			Habitat Cut: No		Site Condition:						
<u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus 18											
<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>Proposed Start Date:</u> 10/01/2018											
407	71086407-NF	1.1	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
			Habitat Cut: No		Site Condition:						
<u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus 22											
<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>Proposed Start Date:</u> 10/01/2018											



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
409	71086409-NF	23.1	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Mowing	320 - Upland Shrub		Proposal

Habitat Cut: No**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain establish NEW Wildlife Opening

Specs:

Next Step NonForestMgt, Mowing

Treatments:AcceptableRegen:

Other NEW Wildlife Opening

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 239.8**

Report 4 – Site Conditions

Roscommon Mgt. Unit
Doug Bates : Examiner

Compartment: 86
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2C	5B	5C	2G	2H	3D	
94	45	47	3	Aspen	47						3
19	19	0	0	Bog							
107	23	0	84	Cedar				84			
33	33	0	0	Herbaceous Openland							
25	25	0	0	Low-Density Trees							
66	66	0	0	Lowland Deciduous							
255	255	0	0	Lowland Shrub							
57	57	0	0	Marsh							
16	4	0	12	Mixed Upland Deciduous							12
38	1	37	0	Natural Mixed Pines	33	4					
39	12	20	7	Red Pine	16		4		7		
63	63	0	0	Treed Bog							
10	0	0	10	Upland Conifers					10		
89	0	68	21	Upland Mixed Forest	68						21
66	33	0	33	Upland Spruce/Fir				33			
10	10	0	0	Urban							
192	192	0	0	Water							
24	24	0	0	White Pine							
1,205	863	172	170	Total Forested Acres	164	4	4	117	17		36
	72%	14%	14%	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	3D: Recreational / Scenic values	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 86

Year of Entry: 2019

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3D: Recreational / Scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	164	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

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7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3D: Recreational / Scenic values	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
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
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Stand	Roscommon Mgt. Unit		Report 7 – Forested Stands			Compartment: 86	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2019	
1	4130 - Aspen	Sapling Medium	13.6	17	Immature		Final harvest in 2000 with Compartment 85 to the north. The stand is sparse with the canopy closure being at the very bottom of the percentage.
2	4130 - Aspen	Sapling Well	15.9	17	Immature		Final harvest in 2000 with Compartment 85 to the north. The stand has a couple small areas with hypoxylon canker. Stand is towards the bottom for percentage in canopy closure. is sparse with the canopy closure being at the very bottom of the percentage.
3	42110 - Planted Red Pine	Sawtimber Well	11.7	57	171-200		Sale #04-07 complete
5	42330 - Upland Fir	Poletimber Well	2.5	45	51-80		Mostly an upland peninsula of fir with multi-stemmed red maple surrounded by lowland brush.
9	4134 - Aspen, Spruce/Fir	Poletimber Well	22.2	50	Unspecified		Aspen with a dense balsam fir mid and sub-canopies. Should treat to keep the aspen component. There is a small vernal pond within the center of the stand that was to small for delineation, place retention around this.
10	42340 - Upland Spruce/Fir	Poletimber Medium	8.0	45	111-140		Dense fir understory with it being the predominate cover species also. Individual multi-stemmed maple in clumps of 1-2 are scattered throughout.
11	42340 - Upland Spruce/Fir	Poletimber Well	22.8	45	81-110		Dense balsam fir understory and mid-canopy. The ground is relatively high and dry but grades to lower along the west fringe. Numerous blowdowns of small fir saplings. The maple is multi-stemmed individual trees in clumps of 1-2 throughout.
12	4319 - Mixed Upland Forest	Poletimber Well	67.8	58	141-170		Pole sized aspen stand with dense fir and some spruce understory. The maple is mainly multi-stemmed trees in clumps of 1-2 scattered throughout the stand. Find pockets of large red and white pine mainly at the south end. Should treat to keep the aspen component.
14	6120 - Lowland Cedar	Poletimber Medium	23.0	91	51-80		Cedar with dense fir understory. No regeneration other than that. Higher stockings on the east half with the west side being sparser and more tag alder mixed in. Numerous cedar with top dieback.
15	6113 - Lowland Maple	Poletimber Poor	50.0	49	1-50		Sparse lowland type with a fair amount of standing dead ash still. Predominate type is maple with some super-canopy white pines throughout. The ground is standing water in numerous location all year with cattails in pockets.
17	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	11.9	94	Unspecified		Stand of large crowned maples, oak, and birch with pockets of white pine. There are several open grass areas broken up by the pockets of trees. This stand is narrow and parallels I-75. The stand is regenerating to pine mainly and would be best to leave for visual concerns.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4319 - Mixed Upland Forest	Sawtimber Well	21.3	91	81-110	Mixed stand of numerous large crowned maples amongst a white pine stand. The understory is heavy to either white pine or balsam fir or combination of both. The stand is naturally taking care of itself. Borders I-75 and would be best left for visual values.
20	6120 - Lowland Cedar	Poletimber Medium	47.2	91	51-80	The cedar has lots of mortality and top dieback. The northern fringe along stand 17 and 19 has some merchantable volumes as the elevation transition to high ground. The site is too wet and any type of regeneration from a treatment is highly unlikely. Leave for diversity.
22	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	33.2	108	111-140	Nice natural red pine stand with areas of red pine in the 170+ basal area. The understory is mostly dense white pine. recommend a light crown thin to remove some of the older red pine while promoting the younger red pine and the white pine in the understory. One day this stand with convert to white pine.
23	42320 - Upland Spruce	Poletimber Medium	32.8	89	1-50	Spruce stand with leatherleaf ground cover and tag alder in majority of areas. Mostly smaller sized trees. There is a pocket of spruce between stands 24 and 26 that has some saw sized spruce, but overall the stand is small poles and saplings. Too wet to treat.
24	4130 - Aspen	Poletimber Well	7.1	45	Unspecified	Nice aspen stand with very little regeneration, even from competing species. Wildlife Division wants to habitat cut this stand.
25	42210 - Natural Red Pine	Sawtimber Well	3.9	88	171-200	Natural red pine stand that is regenerating red pine. Recommend to thin down to 110 basal area average targeting the removal of the larger red pines in the 16+ inch diameters to open up the crowns for the smaller sawlog pines and poles mixed in.
26	42210 - Natural Red Pine	Sawtimber Well	4.6	102	111-140	Natural red pine stand that is about 2/3rds high ground with the remainder grading into a spruce type to the northwest. Even in the lower transition area find red pine with a heavy black spruce mid-canopy. On the ground do not find the spruce. Recommend removing all the aspen and maple to fill in the areas devoid of pine and thin the pine out favor leaving the smaller sawlogs and poles. Thin down to a 70-90 basal area.
27	4130 - Aspen	Sawtimber Well	17.1	58	Unspecified	Mature aspen stand with large natural red pine scattered throughout. Along the outer fringes that grade towards lower ground find more fir mixed in. Recommend treating and leaving retention as buffer around grass openings, approximately 3 percent. Leave trees 26 inches and greater for roast/snags.
28	42210 - Natural Red Pine	Sawtimber Well	7.3	89	141-170	Natural red pine stand that has a good component of aspen mixed in. The regeneration is light and consist mainly of the white pine and fir. The aspen is in the 40 year old range. Recommend a treatment to remove the aspen and get a younger age class of it in the stand and thin the red pine targeting the older red pine for removal. The red pine stand will shrink in size and be typed more of an aspen stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4139 - Aspen, Mixed Deciduous	Sawtimber Well	2.4	73	Unspecified	The only good access for this stand is by way of Compartment 83 to the immediate west. Stand 47 in Compartment 83 is up for treatment so the best way to treat this small stand is to include it in with that treatment. There is about an 1.5 acre portion of this stand that is being left out and lumped with stand 6. There is a large expanse of tag alder marsh between the two stands. With the small size, it would not be feasible to treat.
30	42360 - Upland Cedar	Poletimber Poor	36.9	93	1-50	Cedar has mostly died out. what cedar that is still alive has a large amount of top die back. Leave for diversity, plus too wet and insufficient volumes to treat.
31	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	16.4	27	Immature	This stand was treated in 1990 with the stand to the north in Compartment 85. The topography is undulating with the higher elevations being sparse aspen, white pine, and maple. The slightly lower ground is better with dense stocking of balsam fir, black spruce and/or white pine. The true low ground is bog or lowland shrub and is patch worked throughout the entire stand. Aspen is poor quality and health with the white pine being mostly bushes.
32	42200 - Natural White Pine	Sawtimber Well	17.4	70	141-170	White pine stand with all age classes represented right up to the original nurse trees. The average size is right around the small log class. The highest regeneration in the understory is balsam fir though, with almost none of it in the canopy. The maple is confined to scattered multi-stemmed trees with no regeneration of it in the understory. There are a few small swales scattered throughout the sale. Leave stand go for regeneration purposes.
33	4133 - Aspen, Mixed Pine	Poletimber Medium	2.6	48	51-80	Narrow strip of land between the expressway and county road. The stand is sparse with the aspen being mainly in the north end with more oak/maple in the south. Keep for visual.
34	42290 - Natural Mixed Pine	Sawtimber Well	3.6	120	81-110	Ridge with drainages on two sides. The large red pine is found in the northern half with the south being maple, spruce, fir, and white pine. The understory is a dense mix of a combination of fir, spruce, and white pine. Two aged stand that should be left for regeneration purposes.
35	429 - Mixed Upland Conifers	Sawtimber Well	9.9	95	111-140	For the majority of the stand it is high ground but the out fringes grades into the lowland type and of course is wetter ground. This is where find more of the balsam fir and spruce mix with maple. The stand for the time being is log class with the scattered red and white pine just beating out the younger maple poles in the mid-canopy. The maple is the dominant species in the mid-canopy with the understory being higher to white pine. The stand is managing itself and with the distance to travel across a lowland marsh makes commercial treatment impractical.
36	42210 - Natural Red Pine	Sawtimber Well	7.1	101	81-110	Nice natural red pine stand with some maple and white pine mixed in. Trace amounts of red pine saplings but most of the understory is fir with some maple.
37	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	1.1	91	51-80	Natural red pine stand that is slowly convert to maple and white pine. Landlocked by low ground.

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Roscommon Mgt. Unit

Report 7 – Forested Stands

Compartment: 86
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	42210 - Natural Red Pine	Sawtimber Well	4.4	105	141-170	Nice natural red pine stand that has some red pine regeneration, but the majority of the youngest regen. is balsam fir. The middle of the stand is slightly lower and is void of pine but contains the aspen and maple. Could start to thin the stand and start to convert it to fir/aspen, final harvest and let come back what will and lump the unforested areas into Stand 403 or hold it for diversity.
41	4130 - Aspen	Sapling Well	5.7	27	Immature	Stand was final harvest in 1990 along with stand 53 in Compartment 85 to the north. Decent aspen regeneration but there is still a good amount of maple sub-canopy. A few small low depressions scattered about stand with tag alder.
42	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	3.9	72	81-110	Narrow strip of land running between two built up roads. Get some seasonal water holding. A few small wet swales mixed in but predominately upland. Keep for visual.
55	42200 - Natural White Pine	Sawtimber Well	6.4	80	141-170	Nice mixed pine stand with the north half being slightly higher in elevation resulting in it being exclusively red and white pine with just trace understory. The southern portion is lower and has the spruce, maple, fir mixed in.
56	4134 - Aspen, Spruce/Fir	Poletimber Well	7.9	53	Unspecified	Decent aspen stand with dense fire understory Should treat to keep aspen component.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	310 - Herbaceous Openland	0.9	No	Not on the list for a maintained opening by wildlife division.
6	622 - Lowland Shrub	154.2	No	There are a handful of upland islands containing aspen/maple mainly on the west side. The largest is about an acre. Can't access these islands so lumped into this stand.
7	500 - Water	173.6	No	BACKUS CREEK FLOODING
8	6230 - Cattail	57.3	No	
16	122 - Road/Parking Lot	5.5	No	
18	500 - Water	18.5	No	PIGLET POND, BORROW PIT FOR I-75 CONSTRUCTION, USED BY FISH DIV. AT ONE TIME FOR WALLEYE REARING
39	6225 - Bog	1.0	No	Leatherleaf bog.
40	622 - Lowland Shrub	34.6	No	Lowland shrub with a half dozen small upland islands with maple. Islands are too small and remote to treat.
44	622 - Lowland Shrub	12.7	No	
46	6299 - Lowland Shrub (OI)	2.6	No	OPIC - FMD: OI Stand Year Origin was
48	6299 - Lowland Shrub (OI)	17.3	No	OPIC - FMD: OI Stand Year Origin was
49	6224 - Treed Bog	63.0	No	OPIC - FMD: OI Stand Year Origin was
50	6225 - Bog	2.2	No	
51	622 - Lowland Shrub	4.4	No	
53	622 - Lowland Shrub	28.9	No	
54	6225 - Bog	16.2	No	
57	122 - Road/Parking Lot	4.9	No	I-75 R.O.W. clearing



Stand	Cover Type	Acres	Managed Site	General Comments:
400	310 - Herbaceous Openland	8.7	Yes	Opening maintained by wildlife division. Currently has a treatment for prescribed burn.
401	310 - Herbaceous Openland	1.1	Yes	Opening maintained by wildlife division that has a treatment for a prescribed burn.
402	31029 - Grass (OI)	2.1	Yes	OPIC - FMD: MAINTAINED OPENING
403	310 - Herbaceous Openland	14.9	Yes	Opening maintained by wildlife division.
404	310 - Herbaceous Openland	2.0	Yes	Opening maintained by wildlife division.
405	31029 - Grass (OI)	1.6	Yes	OPIC - FMD: MAINTAINED OPENING
406	310 - Herbaceous Openland	1.0	Yes	MAINTAINED OPENING - NORTH PART OF OPENING IN COMPARTMENT 102 TO THE SOUTH
407	31029 - Grass (OI)	1.1	Yes	OPIC - FMD: MAINTAINED OPENING
408	330 - Low-Density Trees	1.1	No	Not on the list for wildlife maintained openings.
409	330 - Low-Density Trees	23.1	No	Grass opening around the pond that has multiple pockets of aspen/oak/maple scattered about within it.
410	330 - Low-Density Trees	0.8	No	NON-MAINTAINED OPENING, BASICALLY A DITCH BANK MOWED PERIODICALLY BY R.C.R.C.