



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71085

Entry Year 2017

Acreage: 1,221

County Roscommon

Management Area: Houghton Lake Wetlands

Revision Date: 2015-08-05

Stand Examiner: Dale Ekdom

Legal Description:

: T23N, R2W Sections 28 & 29

Identified Planning Goals:

Vegetation management in the Houghton Lake Wetlands management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the aspen age-class distribution. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within the next decade are the need to continue to balance aspen age-class distributions, an expected increase in recreation pressure and invasive species encroachment.

Soil and topography:

Terrain is mostly flat. Soils are Saugatuck and Rubicon sands with Rifle peat in the lower and wetter areas.

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

Solid state ownership within and surrounding the compartment.

Unique Natural Features:

Nine Mile Muskeg

Archeological, Historical, and Cultural Features:

None known but some archaeological potential.

Special Management Designations or Considerations:

Compartment is bisected by I-75 and the portion west of the highway is within the Backus State Game Area.

Watershed and Fisheries Considerations:

This compartment contains portions of the Little Mud Lake Flooding and the Backus Creek Flooding.

Wildlife Habitat Considerations:

This compartment is part of the proposed Backus GEMS Area.

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 400 and 600 feet. Beneath the glacial drift are the Mississippian Michigan Formation and Bayport Limestone. The Michigan is quarried for gypsum and the Bayport for limestone elsewhere in the state. Most of the good gravel pits in the region are associated with upland areas. The Nine Mile and St. Helen/Carter pits are located in sections 17 and 22/23, respectively, but potential within the compartment appears to be limited due to the abundance of wetlands. St. Helen Field lies five miles to the northeast. 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 area is currently leased for oil and gas development.

Vehicle Access:

The only vehicle access to the west side of the compartment is through the north Backus gate on E. Russell Lake Road. Vehicle access to the east end of the compartment is via E. Russell Lake Road. Compartment is bisected by I-75. There are no forest roads in the compartment east of I-75 due to the wet terrain.

Survey Needs:

None necessary at this time.

Recreational Facilities and Opportunities:

This compartment is walk-in access only and is used primarily for deer, small game, and some waterfowl hunting. Consider placement of retention pockets for best visual aesthetics for Interstate users. The compartment is surrounded by public land; utilize timber management to curtail resource damages.

Fire Protection:

Fire suppression within this compartment should not be a problem due to the absence of fire prone cover-types and the presence of numerous natural fire breaks. Access may be a problem if a fire does occur, due to the limited vehicle access and low, wet terrain.

Additional Compartment Information:

Proposed treatments in this compartment include 22 acres of final harvests for aspen management, 32 acres of final harvests in red pine, 2 acres of red pine thinning to promote turkey roosting and raptor nesting habitat, and 66 acres of wildlife opening creation and maintenance. There will also be 9 acres of red pine final harvests, 3 acres of red pine thinning, and 10 acres of opening maintenance in Compartment 86 to the south which will be included with the treatments in this compartment.

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:

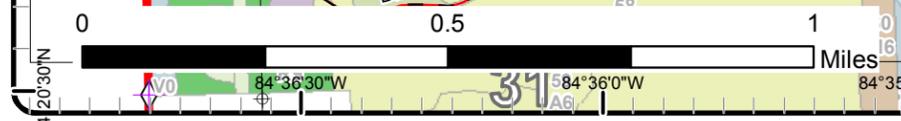
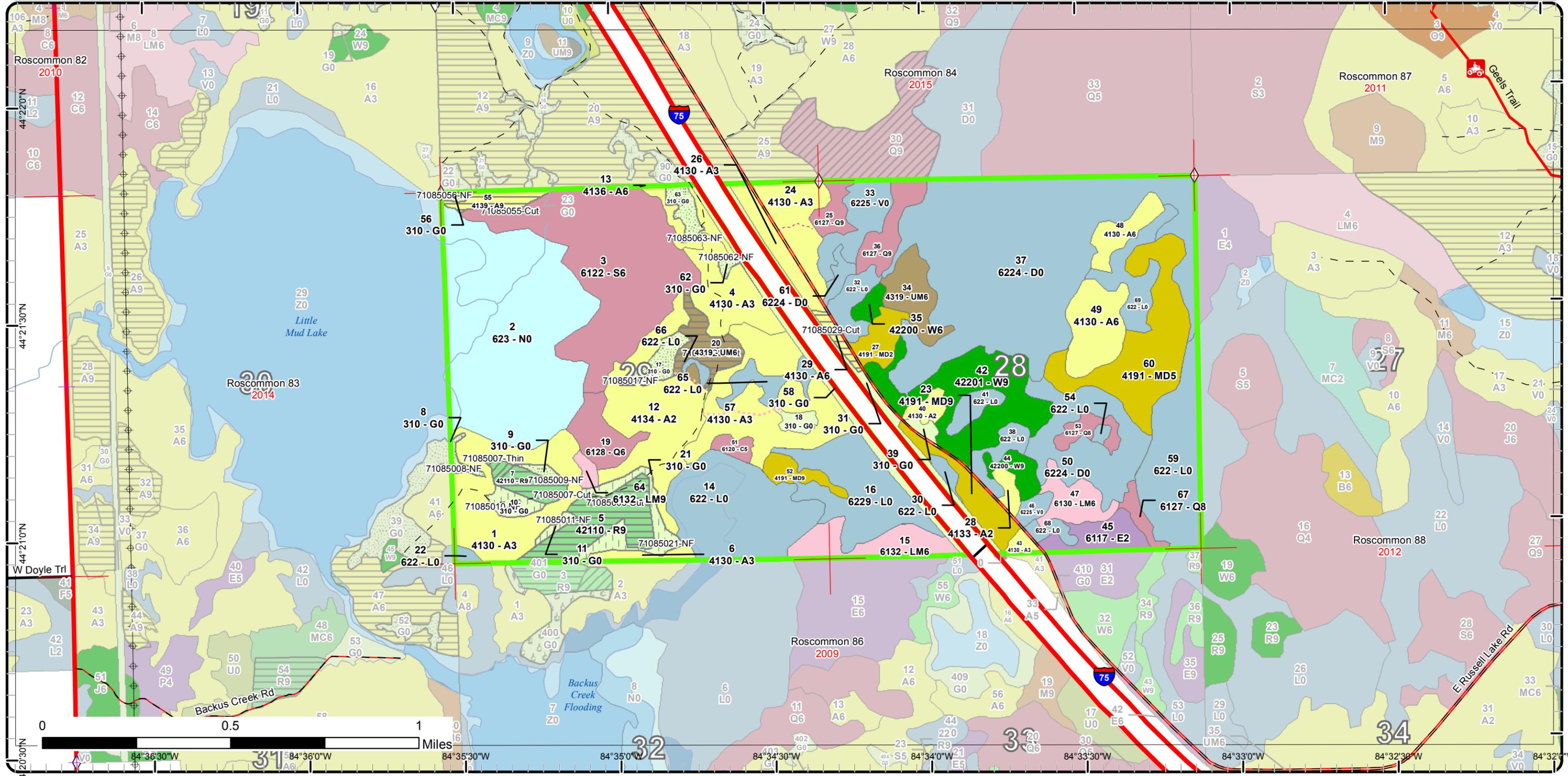
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 85
 T23N R02W 28, 29
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2017
 Acres: 1221 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 7/24/2015
 Map Phase: Pre-Review



- ✚ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- ORV Trails
- Designated ATV
- Rivers
- Lakes
- Powerline
- Treatments
- Clearcut (w/Reserves)
- Opening Maintenance
- Mowing
- Thinning (Crown, Low, Systematic)
- Forest Covertype
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertype
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland

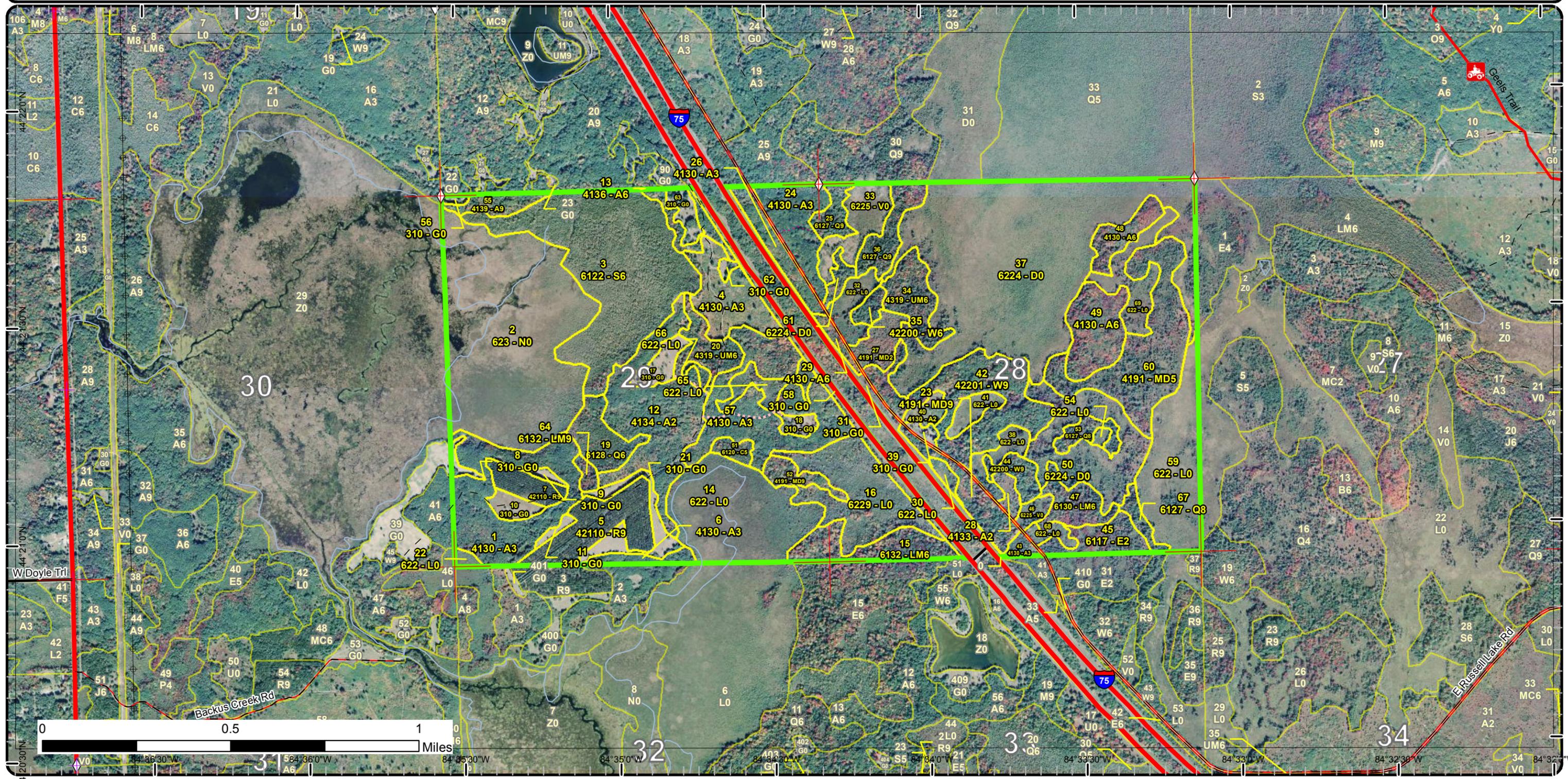


Stand Boundary Map



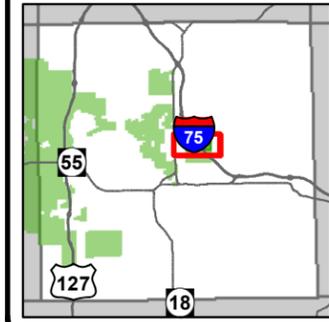
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- | Stand Boundaries | |
|----------------------|-----------------------------|
| Forest Covertype | |
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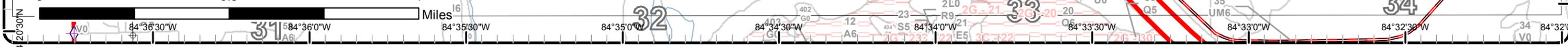
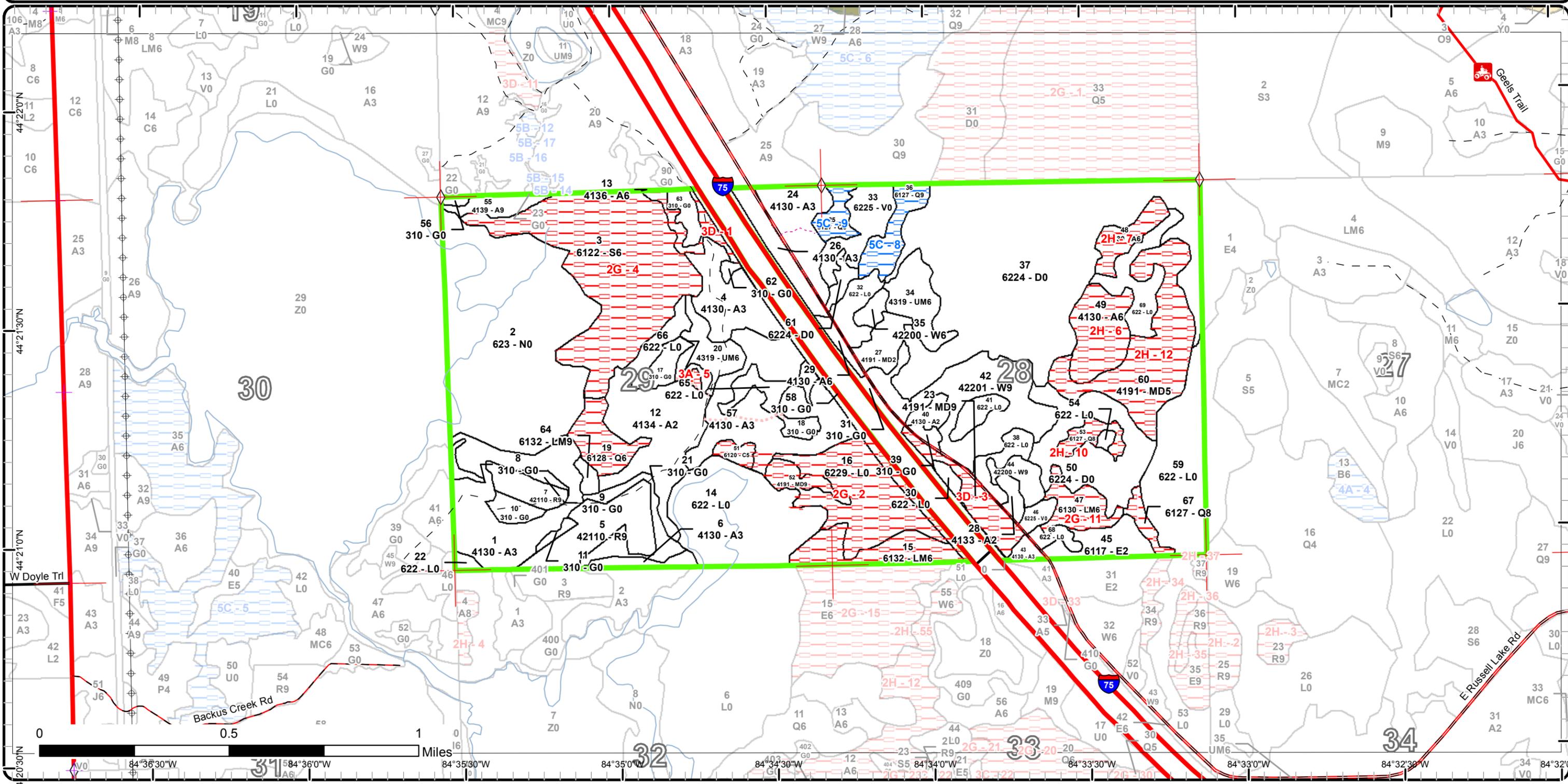


Special Conservation Areas & Site Conditions Map

Compartment: 85
 T23N R02W 28, 29
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2017
 Acres: 1221 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 7/24/2015
 Map Phase: Pre-Review



<ul style="list-style-type: none"> ✚ Remonumented Section Corners ◇ Field Grade GPS Corners — Miris Corners — Highway — Paved Roads — County Gravel Roads — Poor Dirt Roads — County Poor Dirt Roads — Trail (Non-Recreation) — Closed Roads 🛵 ORV Trails — Designated ATV — Rivers ⚡ Powerline 	<ul style="list-style-type: none"> □ Stand Boundaries Site Condition — Available w/ Constraints — Unavailable 	<p>Special Conservation Areas</p> <ul style="list-style-type: none"> Sand or Gravel Pit Sand or Gravel Pit <p>Available Factors W/ Constraints</p> <ul style="list-style-type: none"> 5C: Delay treatment for age/size class diversity or exceptional site quality <p>Unavailable Factors</p> <ul style="list-style-type: none"> 2G: Too wet (sensitive soils, does not include access issues) 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 3A: Potential old growth / biodiversity 3D: Recreational / Scenic values
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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	26	66	112	0	30	7	3	7	0	0	0	0	0	0	0	0	0	251
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	0	3	0	0	0	0	0	0	3
Herbaceous Openland	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Lowland Conifers	0	0	0	0	0	0	0	0	18	0	10	13	0	0	0	0	0	0	41
Lowland Deciduous	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Mixed Forest	0	0	0	0	0	0	0	0	12	3	18	0	0	0	0	0	0	0	33
Lowland Shrub	189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	90
Marsh	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Mixed Upland Deciduous	0	0	9	0	0	46	0	0	0	0	20	0	0	0	0	0	0	0	75
Red Pine	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	33
Treed Bog	203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	203
Upland Mixed Forest	0	0	0	0	0	0	0	15	13	0	0	0	0	0	0	0	0	0	28
White Pine	0	0	0	0	0	0	0	3	6	0	0	0	0	0	0	0	0	42	51
Total	603	26	75	124	0	76	40	21	56	3	48	106	0	0	0	0	0	42	1220



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 85
Total Compartment Acres: 1,221

Commercial Harvest - 55
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	10	0	0	0	0	0	0	0	0	10
Red Pine	32	0	0	0	2	0	0	0	0	33
Upland Mixed Forest	12	0	0	0	0	0	0	0	0	12
Total	53	0	0	0	2	0	0	0	0	55

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	55	0	0	0	0	0	0	35	0	90
Next Step	0	0	0	0	32	0	22	0	35	88
Total	55	0	0	0	32	0	22	0	70	178



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
5	71085005-Cut	24.6	42110 - Planted Red Pine	Sawtimber Well	55	171- 200	Harvest	Clearcut with Retention	3102 - Grass		Proposal

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
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 three to four 1/4 acre retention islands adjacent to stand edges to be used as turkey roosting areas or raptor nest areas. Old next step
Comment: comments:

Proposed Start Date: 10/1 /2016

7	71085007-Cut	7.0	42110 - Planted Red Pine	Sawtimber Well	55	Unspec ified	Harvest	Clearcut with Retention	3102 - Grass		Proposal
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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
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 Old next step comments:

Proposed Start Date: 10/1 /2016

7	71085007- Thin	1.8	42110 - Planted Red Pine	Sawtimber Well	55	Unspec ified	Harvest	Low Thinning	4221 - Natural Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin to 120 SF from below to improve the quality of the stand
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Stand will eventually be used for a turkey roosting/raptor nesting area. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

8	71085008-NF	1.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus Field 14.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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
9	71085009-NF	1.6	310 - Herbaceous Openland	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, Backus Field 13.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

10	71085010-NF	4.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus Field 15.

Specs:

Next Step ; NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

11	71085011-NF	1.6	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus Field 12.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

17	71085017-NF	6.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
20	71085020-Cut	11.9	4319 - Mixed Upland Forest	Poletimber Well	75	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription final harvest (no retention) during the dormant season due to the age of the aspen, leave what few oaks there are for wildlife mast, buffer around
Specs: any wet areas (especially Stand #66 and on the drainage on the east edge) for BMP's, buffer grassy opening as appropriate, leave out W9 for diversity

Next Step
Treatments:

Acceptable any combination of hardwoods and conifers to a fully stocked stand, trench and plant jack pine as alternate regeneration if large areas of aspen
Regen: fail to regenerate

Other use rabbit and drumming log spec, use Hare Spec 5.2.4.7 Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

21	71085021-NF	11.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus Fields 8 and 9.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

29	71085029-Cut	3.0	4130 - Aspen	Poletimber Well	65	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest during dormant season to increase aspen spouting, leave all oak for mast and leave WP for visual on Russell Lake Road and I-75,
Specs: leave any wet areas for BMP's, minimal to no retention due to size of stand and age of the aspen.

Next Step
Treatments:

Acceptable any combination of hardwoods to a fully stocked stand
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

55	71085055-Cut	6.7	4139 - Aspen, Mixed Deciduous	Sawtimber Well	56	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription clearcut with reserves, cut with stand #12 and #20 in 71084 in 2015 YO. Mark to leave healthy maple, pine, and oak individually and in
Specs: clumps. Residual basal area should average less than 5 square feet per acre.

Next Step
Treatments:

Acceptable Any combination of hardwoods and pine to a fully stocked stand
Regen:

Other expand cut into Stand #3 where appropriate and if operable Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
56	71085056-NF	1.0	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Backus Field 3.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

62	71085062-NF	1.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

63	71085063-NF	5.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 89.8**

Report 5 – Site Conditions

Roscommon Mgt. Unit
Dale Ekdom : Examiner

Compartment: 85
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions				
					5C	2G	2H	3A	3D
250	211	0	39	Aspen		2	30		7
19	19	0	0	Bog					
3	0	0	3	Cedar		3			
68	62	0	6	Herbaceous Openland		6			
42	0	18	24	Lowland Conifers	18	18	6		
12	12	0	0	Lowland Deciduous					
33	3	0	30	Lowland Mixed Forest		30			
189	150	0	38	Lowland Shrub		38			
90	0	0	90	Lowland Spruce/Fir		90			
124	124	0	0	Marsh					
75	9	0	66	Mixed Upland Deciduous		6	46		14
33	33	0	0	Red Pine					
203	203	0	0	Treed Bog					
28	27	0	1	Upland Mixed Forest				1	
52	52	0	0	White Pine					
1,221	904	18	298	Total Forested Acres	18	195	82	1	21
	74%	1%	24%	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	7	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdor : Examiner

Compartment: 85

Year of Entry: 2017

3	Unavailable	3D: Recreational / Scenic values	14	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	104	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3A: Potential old growth / biodiversity	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit

Compartment: 85

Dale Ekdor : Examiner

Year of Entry: 2017

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	46	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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Sapling Well	42.5	26	Immature	A3 regenerated in 1989, growing well and should be A6 next YOY, there is a small inclusion of W6/W9 within this stand between Stands 5 and 7
3	6122 - Black Spruce	Poletimber Well	90.4	105	Unspecified	wet lowland conifer stand with numerous small potholes of tag alder, other slightly drier gaps have balsam fir/black spruce saplings
4	4130 - Aspen	Sapling Well	22.0	6	Immature	A3 regenerated in 2000, scattered oak XL's and BTA/WP poles and SL's were left for diversity, mast, and retention
5	42110 - Planted Red Pine	Sawtimber Well	24.6	55	171-200	RP just at small SL size, 3rd row thinned in 2000 and thinned again in 2009, scattering of WP, RP, and hardwood saplings in the understory, growing well with 2-3 feet between branch whorls, RP SI = 65, great utility pole potential, recommend thinning once more before final harvesting like WD wants to do now
6	4130 - Aspen	Sapling Well	5.2	15	Immature	A3 regenerated in 2000
7	42110 - Planted Red Pine	Sawtimber Well	8.7	55	Unspecified	RP just at small SL size, 3rd row thinned in 2000 and thinned again in 2009, scattering of WP, RP, and hardwood saplings in the understory, growing well with 2-3 feet between branch whorls, RP SI = 65, great utility pole potential, recommend thinning once more before final harvesting like WD wants to do now
12	4134 - Aspen, Spruce/Fir	Sapling Medium	46.0	15	Immature	A3 regenerated in 2000, regeneration very variable in terms of density with numerous wetter potholes with either marsh grass or tag alder, other spots well stocked in ether balsam fir or black spruce
13	4136 - Aspen, Mixed Conifer	Poletimber Well	7.0	75	Unspecified	rim of aspen/RM/conifers around a maintained wildlife opening, keep as buffer for the opening as acreage is too small and volume is too low to bother with this stand, will be good visual buffer for I-75 also
15	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	18.4	95	Unspecified	
19	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.4	105	Unspecified	wet, lowland conifer stand, almost SL size
20	4319 - Mixed Upland Forest	Poletimber Well	12.8	75	Unspecified	upland with some potholes of tag alder which are mostly on the edges or concentrated around Stand #66, stand is a mix of TA/RM and BF/WP, lots of BF and some aspen blow-down, heavy BF understory thru-out most of the stand except for the north arm, east edge is a broad drainage, there is also a small inclusion of W9 tucked into the west part of the stand with "L" on 3 sides, stand will convert to WP/BF if not treated, should get good aspen sprouting if cut during the dormant season and if no retention is left, trench and plant jack pine as alternate regeneration if large areas of aspen fail to regenerate



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	13.7	95	81-110	Very variable stand in terms of terrain, density, species, and tree size, stand consists of a narrow strip of high ground next to the road which grades into lower/wetter ground in the interior and along I-75, aspen is very decadent and probably wouldn't regenerate well, lots of red maple, balsam fir, and white pine coming in already to replace the aspen, this is a good stand to leave for visual and just let it convert to a mix of species
24	4130 - Aspen	Sapling Well	19.6	26	Immature	A3 cut 1989, mostly BTA and growing well, pats are A6 but bulk of stand is still A3, should be A6 next YOY, scattered oak SL/XL's left for mast
25	6127 - Lowland Pine	Sawtimber Well	6.5	74	111-140	lowland mixed with upland, W6 transitioning to W9, water table close to the surface, probably operable during dry/frozen ground periods, hold 10 years and then thin or thin now with stand to the north
26	4130 - Aspen	Sapling Well	10.7	15	Immature	A3 cut 2000, mostly BTA and growing well, small 1/2-1 acre inclusion of grassy opening in the north end of the stand which was probably the old landing
27	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	9.0	15	Immature	cut 2000 and came back to a mix of species/densities, upland with a few wet areas with mostly tag alder or marsh grass, jack pine was supplemental planted on mostly the old landing and skid trails areas as they came back fairly sparse, will probably be fully stocked next YOY
28	4133 - Aspen, Mixed Pine	Sapling Medium	3.6	15	Immature	
29	4130 - Aspen	Poletimber Well	3.0	65	Unspecified	mix of BTA/QA with red maple, upland with at least 1 main wet area in the center which is heavy to tag alder in the understory, cut during dormant season to increase aspen spouting, leave all oak for mast and possibly leave WP for visual on Russell Lake Road and I-75, leave any wet areas for BMP's and retention
34	4319 - Mixed Upland Forest	Poletimber Well	14.8	65	111-140	hummocky ground, upland islands with tag alder swales/potholes and other drainages, south arm is the wettest part, stand is mostly red maple poles and logs with WP poles and saplings with a few WP L-X's, there is a small component of hard mast species of all sizes such as red oak and beech, stand is at least 2 aged going towards all aged and converting to white pine, lots of deer trails and ote wildlife sign thru-out stand, good stand to leave for wildlife for now as access is difficult, possible thin WP at some future YOY with Stand #35
35	42200 - Natural White Pine	Poletimber Well	3.5	65	111-140	upland stand with a few pockets of "L" and several broad forested drainages, water table close to the surface, nice W6/W9 stand which is growing well, stand has a few WP XL's scattered around also, not ready for thinning yet and difficult access due to terrain, possible thin with Stand #34 at some future YOY
36	6127 - Lowland Pine	Sawtimber Well	11.8	74	111-140	White pine stand, lowland with some upland areas, water table close to the surface, numerous small bogs scattered thru-out, wetter than St #25 with more and larger wet potholes, growing well, hold 10 years or possibly thin now with stand to the north in 71084



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4130 - Aspen	Sapling Medium	4.1	6	Immature	aspen cut from 2006, oak seedlings starting in sparser areas, will probably be fully stocked A3 next YOE
42	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	41.7	75	111-140	upland but cut by numerous potholes/drainages which are wetter and make access difficult, ranges from RM/A poles and SL's with WP XL's and W3 u.s. to solid W6/W9, stand is at least 2 and 3 aged going towards all aged, aspen /RM are 1967 YOO, younger WP is 1940 YOO, W3 is 1980 YOO and there are also scattered older WP which is 1900 YOO, aspen is in pockets - mostly on the north arm, stand appears to be replacing itself where needed and thinning itself where needed, los of wildlife sign, recommend no treatment this YOE
43	4130 - Aspen	Sapling Well	2.6	25	Immature	mix of lowland and upland, upland is TA/RM and lowland is TA/BF, stand has pockets of "L" also, stand was regenerated with the stand to the south in 71086
44	42200 - Natural White Pine	Sawtimber Well	6.3	75	111-140	upland with lowland pockets and water table close to the surface, WP stand with encroaching aspen/red maple, spots heavy to WP or BF saplings, stand is just reaching pole-size, not ready to thin yet
45	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	12.5	25	Immature	cut with stand to the south in 71086 in 1990, high ground is poorly stocked aspen/RM/WP and lower ground is well stocked BF/BS/WP, lots of small, low, wet non-stocked areas with either bog or tag alder swale, fairly equal mix of all species, los of hypoxylon canker on the east end on the aspen AND the white pine are very bushy thru-out the whole stand, aspen is doing better on the west end
47	6130 - Fir, Aspen, Maple	Poletimber Well	11.9	75	81-110	low/hummocky ground with standing water in spots and higher/drier ground in others, hardwood overstory with conifer understory, stand is converting to conifers, lots of deer trails and other wildlife sign
48	4130 - Aspen	Poletimber Well	9.7	48	Unspecified	upland island surrounded by lower/wetter terrain, poor access due to lack of roads and the wet terrain, aspen and red maple fairly small diameter yet, some hypoxylon canker present, aspen is poor quality but thick, south end is more open than the northern portion
49	4130 - Aspen	Poletimber Well	20.6	48	Unspecified	upland island surrounded by lower/wetter terrain, poor access due to lack of roads and the wet terrain, aspen and red maple fairly small diameter yet, some hypoxylon canker present, aspen is poor quality but thick
51	6120 - Lowland Cedar	Poletimber Medium	3.5	105	Unspecified	cedar stand with pockets of "L" and scattered hardwoods
52	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.5	95	51-80	appears to be a series of upland islands surrounded by lower ground, pockets of "L" thru-out upland part of stand, no access without major road building project due to surrounding wet terrain and a broad drainage between this stand and Stand #57, fairly open understory except where BF saplings are heavy, stand moving towards 2 aged/all-aged

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 85
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	6127 - Lowland Pine	Sawtimber Medium	6.0	95	51-80	
55	4139 - Aspen, Mixed Deciduous	Sawtimber Well	6.8	56	Unspecified	mixed upland stand with variable density and species composition, possibly cut with stand to the north in 71084
57	4130 - Aspen	Sapling Well	47.1	26	Immature	A3 regenerated in 1989, upland stand but with numerous low areas with either marsh grass or tag alder, growing OK and should be A5/6 next YOE, grades more into a P3/P6 on the south end along the swamp edge (especially in the arm between St#51 and 52), there is also a broad drainage on the north end of the stand
60	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	45.9	48	51-80	upland but cut by many drains/potholes and the water table is close to the surface, no access due to surrounding wet terrain, regenerated in 1967 (KG blade?) but left WP which is now L and XL size, also some pole-size R/W pine, aspen and red maple poles are poor quality and the small WP is very bushy, lots of wildlife sign
64	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	2.6	85	Unspecified	stand of lowland hardwoods and conifers, wet terrain, lots of wildlife sign, balsam fir or tag alder understory
67	6127 - Lowland Pine	Sawtimber Medium	4.3	95	1-50	lowland with upland as stand is a transition zone between "L" to the east and "upland" hardwoods to the west, consists of wet pockets and swales interspersed with higher ground, wet ground is swamp conifers such as balsam fir and black spruce OR bog OR tag alder swales and drainages, marginally higher ground is WP/M



Stand	Cover Type	Acres	Managed Site	General Comments:
2	623 - Emergent Wetland	123.6	No	East part of Backus Creek Flooding
8	310 - Herbaceous Openland	1.8	Yes	
9	310 - Herbaceous Openland	1.6	Yes	
10	310 - Herbaceous Openland	4.8	Yes	
11	310 - Herbaceous Openland	1.6	Yes	
14	622 - Lowland Shrub	53.7	No	Part of Backus Creek Flooding
16	6229 - Mixed lowland shrub	37.9	No	Stand was black ash pole stand with scattered swamp conifers last YOE, ash is mostly all dead and there are just a few scattered RM poles and NWC poles with heavy tag alder and dead ash stubs/trees thru-out stand
17	310 - Herbaceous Openland	6.4	Yes	Maintained Wildlife Opening
18	310 - Herbaceous Openland	3.3	No	consider developing this stand as a maintained wildlife opening if time and funds are available
21	310 - Herbaceous Openland	11.2	Yes	
22	622 - Lowland Shrub	1.7	No	Part of Backus Creek Flooding
30	622 - Lowland Shrub	2.4	No	pothole of lowland brush, a large portion of this stand burned in 1997 or 1998 during a drought year
31	310 - Herbaceous Openland	12.8	No	
32	622 - Lowland Shrub	9.0	No	
33	6225 - Bog	15.2	No	
37	6224 - Treed Bog	163.5	No	Large leather leaf/treed bog
38	622 - Lowland Shrub	7.4	No	lowland brush, west part along Russell Lake road has encroaching white pine but this portion is too small to map as a separate stand



Stand	Cover Type	Acres	Managed Site	General Comments:
39	310 - Herbaceous Openland	2.2	No	
41	622 - Lowland Shrub	5.7	No	
46	6225 - Bog	3.5	No	Leather leaf bog with encroaching conifers/"L"
50	6224 - Treed Bog	36.0	No	treed bog, possibly cut when Stand #48 and 49 were cut, did not regenerate very well, encroaching black spruce both solitary and in pockets
54	622 - Lowland Shrub	1.2	No	
56	310 - Herbaceous Openland	1.0	Yes	Managed Opening
58	310 - Herbaceous Openland	14.7	No	
59	622 - Lowland Shrub	41.3	No	
61	6224 - Treed Bog	3.5	No	
62	310 - Herbaceous Openland	1.2	Yes	Maintained Wildlife Opening
63	310 - Herbaceous Openland	5.2	Yes	Maintained Wildlife Opening
65	622 - Lowland Shrub	8.3	No	lowland brush with scattered trees, also has some small more upland islands of A3 which were too small to map
66	622 - Lowland Shrub	1.5	No	low pocket with scattered hardwoods and conifers surrounded by higher ground
68	622 - Lowland Shrub	3.5	No	lowland brush, E-type cut in 1990 and regenerated to tag alder
69	622 - Lowland Shrub	15.0	No	