



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71112

Entry Year 2019

Acreage: 1,294

County Roscommon

Management Area: Houghton Lake Wetlands

Revision Date: 2017-07-10

Stand Examiner: Dale Ekdom

Legal Description:

T22N R4W Sections 31 and 32

Identified Planning Goals:

Vegetation management in the Houghton Lake Wetlands Management Area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for the next ten years will focus on balancing the age class distribution aspen. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected issues 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 flat to gently rolling glacial outwash plain with a few steeper but low moraines in the NW corner. Soils are Rubicon sand, Saugatuck sand, and Lupton muck.

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

100% state ownership throughout the compartment with state land in Missaukee and Roscommon counties on the NW, west and south. Private property, mostly permanent residences with a few seasonal hunting cabins, on the NE and east.

Unique Natural Features:

Bigmouth shiner documented in the compartment and great blue heron rookeries documented on adjacent lands.

Archeological, Historical, and Cultural Features:

None known or detected during fieldwork.

Special Management Designations or Considerations:

Bear Creek and Bear Creek Flooding and the stands adjacent to the flooding are a proposed SCA.

Watershed and Fisheries Considerations:

Bear Creek and Bear Creek Flooding.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Maintain ecosystem diversity in the compartment via regular habitat manipulation to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species. Maintenance of Bear Creek Flooding to enhance waterfowl habitat for game species such as ducks and geese as well as non-game species such as eagles, osprey, loons and great blue herons.

Mineral Resource and Development Concerns and/or Restrictions

No sand/gravel pits are located in the area and potential appears to be limited within the compartment. The abandoned Denton Creek Field is located one mile to the south. The field produced nearly 55,000 BO from the Devonian Detroit River Formation. All of the parcels in the compartment are currently leased by Marathon. However, Marathon has indicated they are leaving the state and have begun the process of releasing all of their remaining leases that are not held by production. Oil and gas potential is considered moderate to low at this time. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is good via seasonal county roads and state forest two tracks.

Survey Needs:

None necessary at this time.

Recreational Facilities and Opportunities:

Portions of Parrot Road, Panther Drive, and Sparrow Road are also part of the Houghton Lake Snowmobile Trail. The compartment is also heavily used for hunting and other dispersed recreation due to its proximity to village of Houghton Lake.

Fire Protection:

Fire protection is less of a concern due to the terrain and fuel types as well as the proximity to protection forces. However, this compartment is part of the Zone 4 fire dispatch area.

Additional Compartment Information:

The following reports from the Inventory are attached:

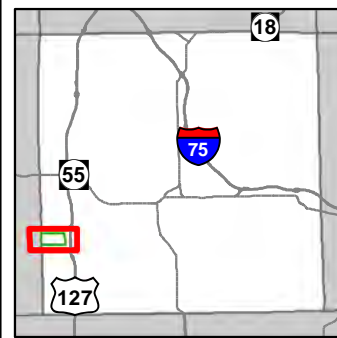
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

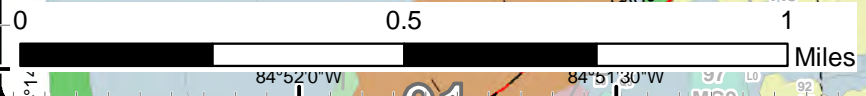
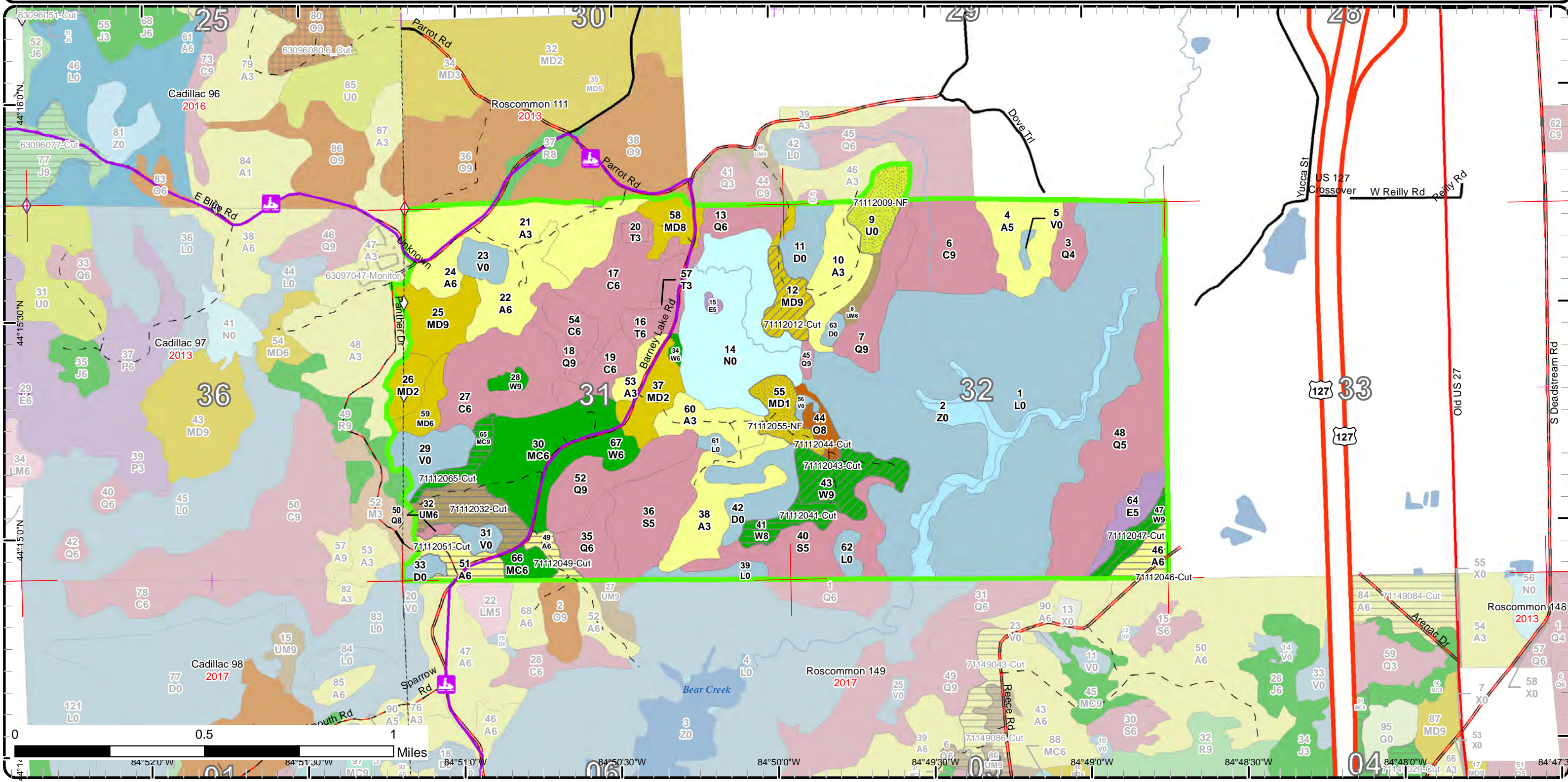
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 112
 T22N, R04W, Sec. 31-32
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2019
 Acres: 1294.3 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 8/2/2017
 Map Phase: Review



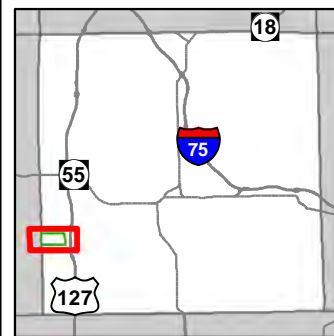
- Miris Corners
- + Remonumented Section Corners
- Field Grade GPS Corners
- Counties
- Snowmobile Trails
- Designated Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Clearcut (w/Reserves)
- Mowing
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



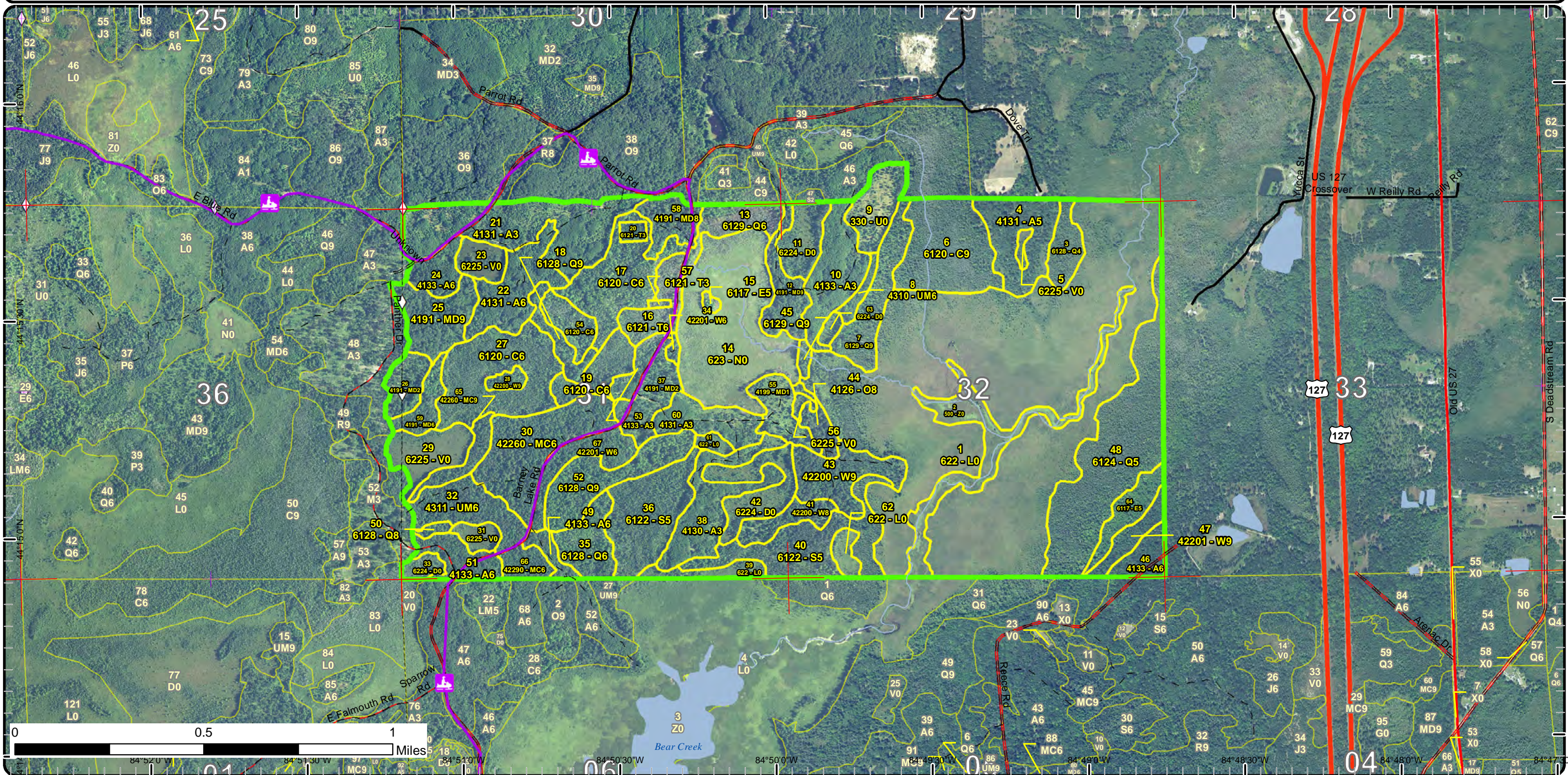
Map coordinates: 44°16'0"N, 44°15'30"N, 44°15'0"N, 44°14'30"N, 44°14'0"N, 84°52'0"W, 84°51'30"W, 84°51'0"W, 84°50'30"W, 84°50'0"W, 84°49'30"W, 84°49'0"W, 84°48'30"W, 84°48'0"W

Stand Boundary Map

Compartment: 112
 T22N, R04W, Sec. 31-32
 County: Roscommon
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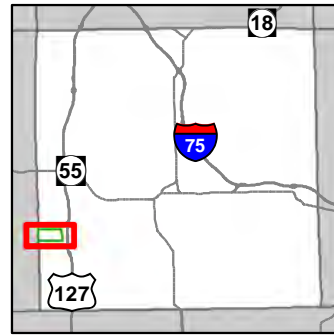


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- Snowmobile Trails
- Designated Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
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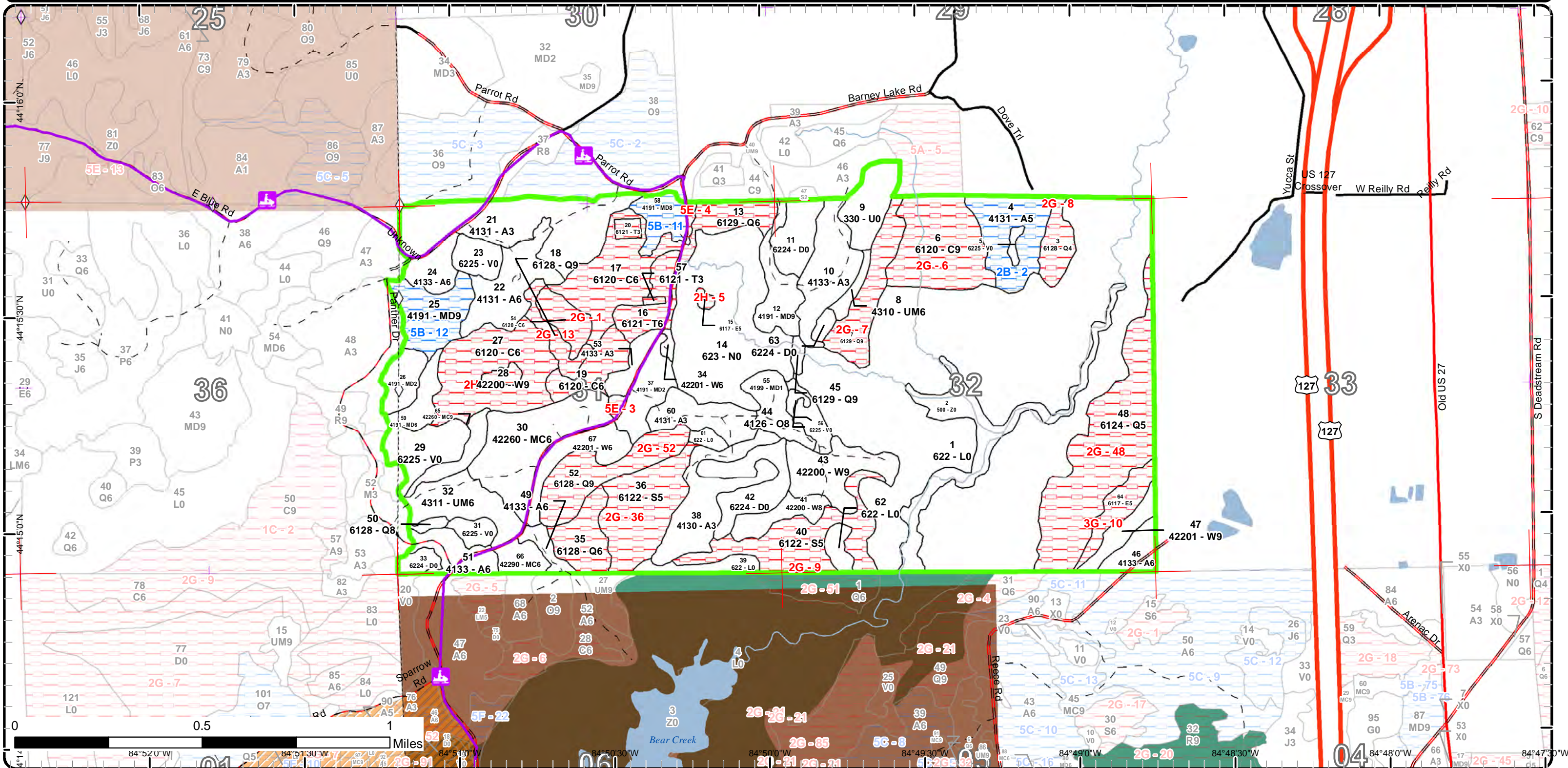


Special Conservation Areas & Site Conditions Map

Compartment: 112
T22N, R04W, Sec. 31-32
County: Roscommon
Unit: Roscommon
Mgmt Area: Houghton Lake Wetlands
YOE: 2019
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- Miris Corners
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- Designated Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries
- Eastern Massasauga Managed Land
- Wildlife Management Areas
- Wildlife Research Areas
- Habitat Corridor



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	70	49	0	64	16	0	0	0	0	0	0	0	0	0	0	0	199
Bog	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Cedar	0	0	0	0	0	0	0	0	29	22	0	40	0	0	0	0	36	0	127
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	0	0	0	15	18	78	0	47	0	0	0	0	0	158
Lowland Deciduous	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	314	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	314
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	64
Marsh	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Mixed Upland Deciduous	0	36	0	0	0	22	0	0	0	20	0	11	0	0	0	0	0	0	89
Natural Mixed Pines	0	0	0	0	0	43	0	0	7	0	0	0	0	0	0	0	0	0	50
Oak	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Tamarack	0	0	0	0	0	3	0	0	0	0	12	0	0	0	0	0	0	0	15
Treed Bog	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Upland Mixed Forest	0	0	0	0	0	4	20	0	0	0	0	0	0	0	0	0	0	0	24
Water	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
White Pine	0	0	0	0	0	34	0	0	19	0	0	0	3	0	0	0	0	0	56
Total	497	36	70	49	0	170	36	0	88	60	154	51	50	0	0	0	36	0	1297



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 112
Total Compartment Acres: 1,294

Commercial Harvest - 107
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	25	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	0	0	0	0	0	12	0	0	0	12
Natural Mixed Pines	7	0	0	0	0	0	0	0	0	7
Oak	0	0	0	0	5	0	0	0	0	5
Upland Mixed Forest	20	0	0	0	0	0	0	0	0	20
White Pine	10	0	0	0	0	29	0	0	0	38
Total	61	0	0	0	5	41	0	0	0	107

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	107	0	0	0	0	0	10	0	27	144
Next Step	0	10	10	0	0	0	76	0	12	107
Total	107	10	10	0	0	0	86	0	38	251



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	71112009-NF	14.6	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal

Habitat Cut: No**Site Condition:**

Prescription Mow, cultivate, fertilize, crawler, seed as required to create new Wildlife Opening,
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other close off access to opening with gate somewhere in Stand #10 to the SW of the opening

Comment:

Proposed Start Date: 10/01/2018

12	71112012-Cut	12.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	40	81-110	Harvest	Low Thinning	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription low thinning by removing all aspen and marking Oak/RM/Pine to cut, use a target residual of 110 SF in areas heavy to pine and 90 SF in areas
Specs: heavy to hardwoods, parts will be fairly open where aspen is heavy and pine or oak are sparse, line out the wet potholes and leave off all or most of the northern arm and treed bog portion of the stand

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

32	71112032-Cut	19.5	4311 - Pine, Aspen Mix	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	4132 - Aspen, Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest and manage for a aspen/pine mix, place 1 or 2 small retention islands where WP is heavier along the road to the south, trench/plant
Specs: red pine if aspen, pine, and other hardwoods do not result in a fully stocked stand

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable any combination of aspen and other species to a fully stocked stand
Regen:

Other add SMT protection specs to sale add brush pile spec for rabbitat, add drumming log spec.

Comment:

Proposed Start Date: 10/01/2018

41	71112041-Cut	9.5	42200 - Natural White Pine	Sawtimber Medium	79	51-80	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest and regenerate naturally, manage for a mixed stand of pine and HW's, no retention due to stand size, expand into stand to the south
Specs: where feasible

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable any combination species to a fully stocked stand
Regen:

Other add brush pile spec along edges for rabbitat

Comment:

Proposed Start Date: 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
43	71112043-Cut	20.8	42200 - Natural White Pine	Sawtimber Well	42	141- 170	Harvest	Low Thinning	4220 - Natural White Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription low thinning to promote stand quality, thin from below to a target of 90 SF residual to improve stand quality by removing doubles, double-tops,
Specs: and suppressed WP, leave most oak unless needed for maneuvering within the stand

Next Step
Treatments:

Acceptable
Regen:

Other add brush pile spec for rabbitat scattered throughout the stand (1 per acre if possible)

Comment:

Proposed Start Date: 10/01/2018

44	71112044-Cut	5.3	4126 - White, Black, N. Pin Oak	Sawtimber Medium	79	51-80	Harvest	Shelterwood	4122 - Oak, Pine	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription shelter-wood by marking oak to leave to a target residual of 40 SF of oak (20 BO/20 WO) and leaving all WP, protect WP under-story as much
Specs: as possible, no retention due to stand size, leave off all or part of north arm if too wet to meet BMP's

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

Acceptable any type/amount of regeneration is acceptable
Regen:

Other maintaining as semi-open is an option for passerines and other edge wildlife species, preserve cavity trees for wood ducks on the east edge next
Comment: to the "L" stand

Proposed Start Date: 10/01/2018

46	71112046-Cut	8.4	4133 - Aspen, Mixed Pine	Poletimber Well	40	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription mark scattered oak for mast and pine for diversity, no other retention due to small size and placement on the landscape next to the swamp, dip
Specs: into 71149 Stand 50 where feasible to increase the size of the cut, may need a survey

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

Acceptable Any combination of aspen and other species to a fully stocked stand
Regen:

Other use drumming log spec.

Comment:

Proposed Start Date: 10/01/2018

47	71112047-Cut	7.9	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	79	51-80	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription remove hardwoods but mark up to 10SF of oak (esp WO) to leave for mast and diversity, no other retention due to long/narrow configuration of
Specs: the stand, may need a survey

Next Step
Treatments:

Acceptable
Regen:

Other use drumming log spec, use brush pile spec. along swamp edge to the north

Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
49	71112049-Cut	4.7	4133 - Aspen, Mixed Pine	Poletimber Well	50	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription final harvest for aspen management, mark oak/pine to leave in clumps where possible for diversity, mast, and visual, use brush pile and
Specs: drumming log specs along swamp edges, no retention due to stand size, configuration, and proximity to the swamp

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

Acceptable Regen: any combination of aspen and other species to a fully stocked stand

Other Comment: add SMT protection specs

Proposed Start Date: 10/01/2018

51	71112051-Cut	11.7	4133 - Aspen, Mixed Pine	Poletimber Well	50	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest for aspen management, mark oak and pine in clumps to leave for mast, visual, and diversity, use brush pile and drumming log
Specs: specs, leave part or all of narrow strip west of forest road and SMT for retention?

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

Acceptable Regen: any combination of aspen and other species to a fully stocked stand

Other Comment: Add SMT protection specs.

Proposed Start Date: 10/01/2018

55	71112055-NF	11.9	4199 - Other Mixed Upland Deciduous	Sapling Poor	7	Immature	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain new Wildlife Opening.
Specs: Retain areas of good forest regeneration, and reshape stand to reflect open areas that will be maintained.

Next Step NonForestMgt, Mowing
Treatments:

Acceptable Regen:

Other Comment: New Wildlife Opening

Proposed Start Date: 10/01/2018

65	71112065-Cut	7.4	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	75	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest and regenerate naturally, no retention due to stand size and shape, manage for a mixed stand of pine/oak
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other Comment: trench/plant red pine as alternate if natural regeneration fails

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 133.8

Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment: 112

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2B	5B	2G	2H	3G	5E	
200	176	24	0	Aspen	24						
32	32	0	0	Bog							
127	0	0	127	Cedar			127				
15	15	0	0	Low-Density Trees							
157	4	0	153	Lowland Conifers			153				
12	0	0	12	Lowland Deciduous			0	1	11		
314	15	0	299	Lowland Shrub			299				
64	0	0	64	Lowland Spruce/Fir			64				
68	68	0	0	Marsh							
89	56	30	3	Mixed Upland Deciduous		30	0				3
50	50	0	0	Natural Mixed Pines			0				
6	6	0	0	Oak							
15	0	0	15	Tamarack			15				
37	37	0	0	Treed Bog							
23	23	0	0	Upland Mixed Forest							
31	31	0	0	Water							
56	53	0	3	White Pine				3			
1,294	565	54	676	Total Forested Acres	24	30	658	4	11		3
	44%	4%	52%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	119	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdor : Examiner

Compartment: 112

Year of Entry: 2019

2	Available	2B: Unknown if access through adjacent landowner(s) is possible	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention left during 2010 cut							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention left during 2010 cut							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 112

Dale Ekdorn : Examiner

Year of Entry: 2019

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3G: Other Influence zones - See comments	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdor : Examiner

Compartment: 112

Year of Entry: 2019

28	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

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

S t a n d	Roscommon Mgt. Unit		Report 7 – Forested Stands			Compartment: 112	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2019	
3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	9.6	87			OPIC - FMD: PARTIALLY FLOODED, CONVERTING TO Q- TYPE
4	4131 - Aspen, Oak	Poletimber Medium	23.8	40			ASPEN WITH SCATTERED OAK, NO ACCESS EXCEPT ACROSS PRIVATE, scattered wet areas WITH LOWLAND SHRUB
6	6120 - Lowland Cedar	Sawtimber Well	35.9	210	Unspecified		wet swamp, lots of stand dead cedar and blowdowns, age of cedar from Stand #50 in 71111
7	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	19.9	110	111-140		SEASONALLY WET, LARGE OLD GROWTH WHITE PINE WITH "Q" AND "E" U.S., larger white pine slowly senescing and the other lowland conifers/hardwoods are taking over.
8	4310 - Pine, Oak Mix	Poletimber Well	3.6	45	81-110		Mostly white pine with aspen and oak mixed in, also scattered RP SL's, most of the stand is on a steep slope from upland aspen to the west and lowland pine to the east, allow to convert fully to white pine
10	4133 - Aspen, Mixed Pine	Sapling Well	22.6	27	Immature		GOOD A3 REGENERATION WITH SCATTERED O/J SAPS AND W.P. POLES
12	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	13.8	40	81-110		very variable stand with mostly oak SL's and WP poles/SL's but has scattered super-canopy oak/RP/WP, northern part is a narrow neck between swamps with oak/aspen and W2 under- story, rest is either heavy to WP poles/SL's with scattered oak or heavy to oak SL's with scattered pine, W2 under-story persistent thru-out stand with several spots being W3, rolling terrain with several potholes, small A6 inclusion in the NE corner of the main part of the stand and the far north edge of the main part is a treed bog with W6, possibly thin but parts heavy to W3 would take some damage from timber operations
13	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.1	90	Unspecified		wet, spongy ground. white birch declining, northwest part, west edge along road, and east edge have most of the cedar, rest of the stand is tamarack and black spruce, cedar age is from Stand #44 in 71111
15	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	1.2	70	51-80		HARDWOOD ISLAND IN MIDDLE OF MARSH WHICH IS CONVERTING TO Q-TYPE, SCA =
16	6121 - Tamarack	Poletimber Well	11.8	90	Unspecified		wet tamarack stand with other swamp conifers also
17	6120 - Lowland Cedar	Poletimber Well	29.4	70			cedar stand with other swamp conifers
18	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	7.7	80	81-110		large XL and SL WP with cedar/RM/BF/WB poles, somewhat low and wet but has some higher ground also, water table close to the surface, fairly open understory except for scattered WP/BF saplings
19	6120 - Lowland Cedar	Poletimber Well	12.7	80	Unspecified		wet spongy ground, heavy BF saplings in a lot of spots, rest of under-story is tag alder





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6121 - Tamarack	Sapling Well	2.3	40	1-50	Old Cedar cut, mix of black spruce, balsam fir, tamarack and a few lowland hardwoods, some cedar finally starting
21	4131 - Aspen, Oak	Sapling Well	48.3	18	Immature	mix of aspen and oak, areas heavy to BTA separated by areas with equal mix of aspen, oak, and other hardwoods, west side has scattered jp and small areas of J3.
22	4131 - Aspen, Oak	Poletimber Well	22.8	40		A3 TRANSITIONING TO A6, growing well, hold until next YOE
24	4133 - Aspen, Mixed Pine	Poletimber Well	9.2	40	Unspecified	A6 WITH AREAS HEAVY TO R/W PINE which was planted in 1933 ALSO CONTAINS SMALL INCLUSION OF E5W7 IN BROAD DRAINAGE, hold until next YOE
25	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	19.8	84	81-110	majority was thinned in March 2003, thinned areas are O8A2O2W2 rest is W5O7W2, WP is persistent in the understory thru-out the whole stand, RO finally starting in a few spots but smaller RM and RO seedlings are heavily browsed, parts are A3 in the understory, heavily thinned parts are mostly oak/RM canopy, lighter thinned parts are R/W pine canopy planted in 1933 with scattered oaks, there are a few legacy size WP XL's within the stand, terrain is rolling with a few steeper slopes and 1 large/wet pothole in the center of the stand, no treatment necessary t this time,
26	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	9.3	7	Immature	final harvested 2010, marked oaks to leave and left all conifers, aspen /RM regenerated well, some oak is started but it is being heavily browsed as its shorter than the A/RM
27	6120 - Lowland Cedar	Poletimber Well	39.8	100	Unspecified	wet spongy ground, parts are pure cedar, other parts are cedar mixed with BS and losland HW's, WP XL's scattered thru-out
28	42200 - Natural White Pine	Sawtimber Well	3.0	110	81-110	somewhat drier island surrounded by swamp, no access, did not visit
30	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	36.1	41	51-80	variable stand, mix of jack pine poles mixed with other pines and hardwoods, scattered R/W pine SL and oak SL, some areas are heavy to W.P. poles, scattered J9 areas, north edge along swamp is heavy to RP SL, jack pine and oak are poor quality, R/W pine are better quality but there is a lot of spots in which the white pine are heavily weeviled, hold until next YOE and then final harvest and plant red pine
32	4311 - Pine, Aspen Mix	Poletimber Well	19.5	50	51-80	mix of RWJ pine with scattered aspen along road to the south, north is aspen/jack pine mix, west end is A/O/JP with W2 u.s and has more open grown aspect, Kotar is PARVHa, soils are Crowell and Rubicon sands, recommend final harvest and trench/plant red pine where aspen and other hardwoods do not regenerate, will probably get some natural JP regeneration also
34	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	1.4	70	111-140	red maple pole/SL's with WP poles and scattered oak SL', too small to bother with treating and its converting to WP on its own, stand has a camping area also.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.8	76	Unspecified	low wet stand, areas of "L"
36	6122 - Black Spruce	Poletimber Medium	31.3	99	Unspecified	low/wet spruce fir stand, tag alder u.s., not operable
37	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	14.5	7	Immature	cut 2000 with heavy oak/wp retention,
38	4130 - Aspen	Sapling Well	26.0	27	Immature	GOOD A3 REGENERATION IN MOST SPOTS, scattered less dense areas of oak/jack pine/pin cherry saps
40	6122 - Black Spruce	Poletimber Medium	32.5	90		spruce - fir swamp, fairly , fairly thick in spots bu sparse with tag alder in others
41	42200 - Natural White Pine	Sawtimber Medium	9.5	79	51-80	mixed stand of pine and oak, middle section is solid WP with scattered balsam fir and black spruce (wetter) and the east/west ends are more upland and open with WP/oak and other species, most WP is open-grown and heavily weeviled, oak is poorer quality and RP is decent quality, Kotar type is PAR/VHa, recommend final harvest and trench/plant RP
43	42200 - Natural White Pine	Sawtimber Well	20.8	42	141-170	WP poles/saw-logs/XL's with scattered XL oak and other pole-size hardwoods, bulk of WP is ounger but there are WP XL's that are of the same cohort as the oak XL's. parts are wetter and have more swamp conifers - edges where it transitions from upland to swamp
44	4126 - White, Black, N. Pin Oak	Sawtimber Medium	6.2	79	51-80	ranges from a mix of oak SL/XL's with WP poles to all oak and W3 under-story, some illegal firewood cutting on-going in this stand, north arm is lower/wetter, recommend a shelter-wood to try to re-start oak or hold and let it convert to WP
45	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	1.9	110	51-80	SEASONALLY WET, LARGE OLD GROWTH WHITE PINE WITH "Q" AND "E" U.S., larger white pine slowly senescing and the other lowland conifers/hardwoods are taking over, creek running thru stand west to east
46	4133 - Aspen, Mixed Pine	Poletimber Well	8.4	40	Unspecified	Aspen poles/saw-logs WITH SCATTERED WP POLES AND OAK SL'S, Transitioned to A6, consider cutting now
47	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	7.9	79	51-80	white pine with hardwoods, narrow stand of upland conifers between upland aspen and e-type/q-type to the north, consider removing hardwoods if aspen to the south is treated, almost 2-aged
48	6124 - Lowland Spruce-Fir	Poletimber Medium	63.6	99		
49	4133 - Aspen, Mixed Pine	Poletimber Well	4.7	50	81-110	aspen with red/white pine, heavy wp saps in spots, cut now to regenerate aspen,



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	1.7	97	51-80	wet swale with cedar and other swamp conifers and lowland hardwoods
51	4133 - Aspen, Mixed Pine	Poletimber Well	11.7	50	Unspecified	nice aspen stand with parts heavy to r/w pine, scattered oak SL's, cut now to regenerate aspen
52	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	24.7	110	141-170	large WP XL's- some almost legacy size, lots of NWC and hardwood poles, spongy, wet ground, leave to become Type 1 or 2 Old Growth in 30-40 years
53	4133 - Aspen, Mixed Pine	Sapling Well	6.6	18	Immature	GOOD A3 REGENERATION EXCEPT FOR WEST EDGE ALONG SWAMP which is more sparse (heavy deer browse?) aspen but heavy to conifer regeneration
54	6120 - Lowland Cedar	Poletimber Well	9.0	80	81-110	low/wet spongy ground, mostly pole-size cedar but with scattered HW's and BF poles, also scattered WP XL's, canopy gaps have lots of BF saplings
55	4199 - Other Mixed Upland Deciduous	Sapling Poor	11.9	7	Immature	north part harvested in 2000, south part harvested in 2010, mixed success with both cuts, good aspen clones separated by more open areas of oak and cherry saplings, white pine saps/poles and oak SL's scattered thru-out stand
57	6121 - Tamarack	Sapling Well	0.7	47		OLD CEDAR CUT WHICH IS NOW A MIX OF BLACK SPRUCE, BALSAM FIR, AND TAMARACK, ALSO SCATTERED HARDWOODS, SLOW GROWING, some cedar finally starting.
58	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	11.3	105	51-80	cut north part in summer 2010 - left R/W pine and green marked oak trees, south part of the stand was left out of the treatment, stand has rolling terrain with some steeper slopes on the south end where it goes into the swamp, north part which was treated is slowly filling in with hardwood regeneration although numerous spots are still fairly sparse, south end is O/A/RM poles and SL's mixed with R/W pine poles and SL's but there is a fairly heavy u.s. of W3 or O3 or both in most spots, extreme south end of the stand is a ridge that runs into the swamp. lots of wildlife sign in this stand, recommend holding this stand until next YOE to see what the regeneration in the treated portion does.
59	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.2	46	81-110	west edge is on a slope to the east, east edge is level terrain which is spongy yet probably operable given the right conditions (dry or frozen), WP understory thru-out, no treatment necessary at this time, will probably convert to WP if left alone
60	4131 - Aspen, Oak	Sapling Well	15.5	18	Immature	nice A3 in the west 2/3rds of the stand with small A3 clones and scattered less dense areas of oak, jack pine, and pin cherry I'm the east 1/3rd, north edge along marsh has heavy beaver activity, scattered conifer poles/saps also
64	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	10.7	79	81-110	narrow E-type between swamp and upland, doubtful if this stand is operable ground even given favorable conditions, soils are Tawas and Leaf River mucks and Kotar Type is Unclassified Lowland, mature but hardwoods are still fairly small, cut or hold as desired, if cut - leave retention islands around larger white pines to keep them wind-firm, may need a survey



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.4	75	111-140	fairly equal mix of JP,RP,WP, and Black Oak, north edge grades into bog/swamp to the north, oak is poor quality but the pine is decent quality although most of the largest WP has been weeviled at some point in the past, stand is over-mature and should be regenerated, Kotar type is PArVHa and soils are Crosswell sand
66	42290 - Natural Mixed Pine	Poletimber Well	6.7	40	51-80	mix of RP/WP/BTA, mostly poles but there are a few R/W pine SL's and oak SL's, all species growing well, and WP is thinning itself out naturally spots are heavy to aspen and other spots are mostly pine, fairly open under-story, there is one small, wet pothole along the road in the north-central part of the stand, recommend holding now and treating at some point in the next few YOE's
67	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	13.4	41	51-80	variable stand, mix of oak/jack pine poles, scattered aspen poles also especially on the west end scattered R/W PINE and oak S.L. also, some areas are heavy to W.P. poles, scattered J9 areas, north edge along swamp is heavy to RP SL, jp and oak is poor quality, r/w pine are better quality, final harvest all or part and plant red pine?



Stand	Cover Type	Acres	Managed Site	General Comments:
1	622 - Lowland Shrub	300.1	No	NORTH PART OF BEAR CREEK FLOODING
2	500 - Water	31.2	No	OPIC - FMD: BEAR CREEK AND BEAR CREEK FLOODING, SCA = IDENTIFIED AS POG IN INITIAL OG/BS PLAN
5	6225 - Bog	1.5	No	
9	330 - Low-Density Trees	14.6	No	Cut summer 2000, now scattered hardwood and white pine saplings mostly on the edges, middle of stand is fairly open, white pine regeneration is very bushy and oak is bushy stump sprouts, cut extends into Stand 49 in 71111 to the north, regeneration failure?, possibly plant to jack pine? may need roller-chopping? May be good spot to create a new wildlife opening but would need some site-prep work first before tilling/seeding - extend any treatment into stand to the north
11	6224 - Treed Bog	12.3	No	lots of encroaching conifers
14	623 - Emergent Wetland	67.9	No	LARGE MARSH IN BEAR CREEK FLOODING COMPLEX
23	6225 - Bog	7.8	No	
29	6225 - Bog	16.0	No	
31	6225 - Bog	4.9	No	
33	6224 - Treed Bog	3.9	No	
39	622 - Lowland Shrub	6.8	No	OPIC - FMD: SCA = IDENTIFIED AS POG IN INITIAL OG/BS PLAN
42	6224 - Treed Bog	18.3	No	lots of encroaching conifers
56	6225 - Bog	1.5	No	
61	622 - Lowland Shrub	2.6	No	
62	622 - Lowland Shrub	4.6	No	OPIC - FMD: SCA = IDENTIFIED AS POG IN INITIAL OG/BS PLANS
63	6224 - Treed Bog	2.3	No	BOG WITH SCATTERED CONIFERS ENCROACHING