



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71065

Entry Year 2018

Acreage: 1,066

County Roscommon

Management Area: Houghton Lake Wetlands

Revision Date: 2016-06-07

Stand Examiner: Jason Lewicki

Legal Description:

T23N, R03W Sections 10, 11 and 12

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:

Upland soils consist of Saugatuck, Rubicon and Newton Loamy sands. Lowlands are dominated by Rifle peats. There is a long ridge that runs through the compartment known as "Birch Hill".

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

Ownership is broken with multiple private ownerships.

Unique Natural Features:

The cut river flows through the compartment.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None at this time

Watershed and Fisheries Considerations:

The cut river flows through this compartment.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Sections 10-12, T23N R3W, Roscommon County

Surface sediments consist of sand and gravel from ice-contact drift, glacial outwash, and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the state. Most of the good gravel pits are associated with upland areas. Sand and gravel pits are located in sections 3 and 10, and there should be potential on the uplands in the NE¼ of Section 11. Active oil and gas production is greater than six miles away. However, all state minerals in the compartment are currently leased for oil and gas exploration and development.

Vehicle Access:

Vehicle access is good with Lansing rd . bisecting the compartment. There are also multiple forest two tracks within the compartment.

Survey Needs:

Possible survey needed for the timber harvest in stand 21.

Recreational Facilities and Opportunities:

Dispersed recreational use within the compartment occurs throughout the parcel for hiking, bird watching, berry / mushroom picking, deer hunting and small game hunting. The Cut river is used by hunters, anglers and water enthusiasts. Undesignated ORV trails are likely within the compartment from surrounding private land owners. Utilize forest management practices to curtail damage by off road vehicle use. The corridor along Lansing Rd. is traveled heavily during the color season

Fire Protection:**Additional Compartment Information:**

The following reports from the Inventory are attached:

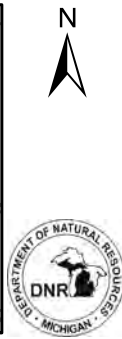
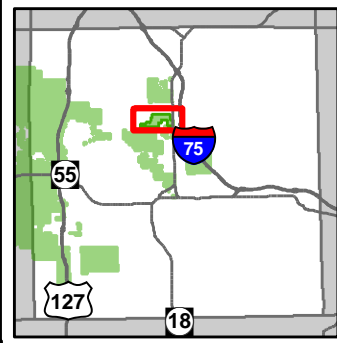
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

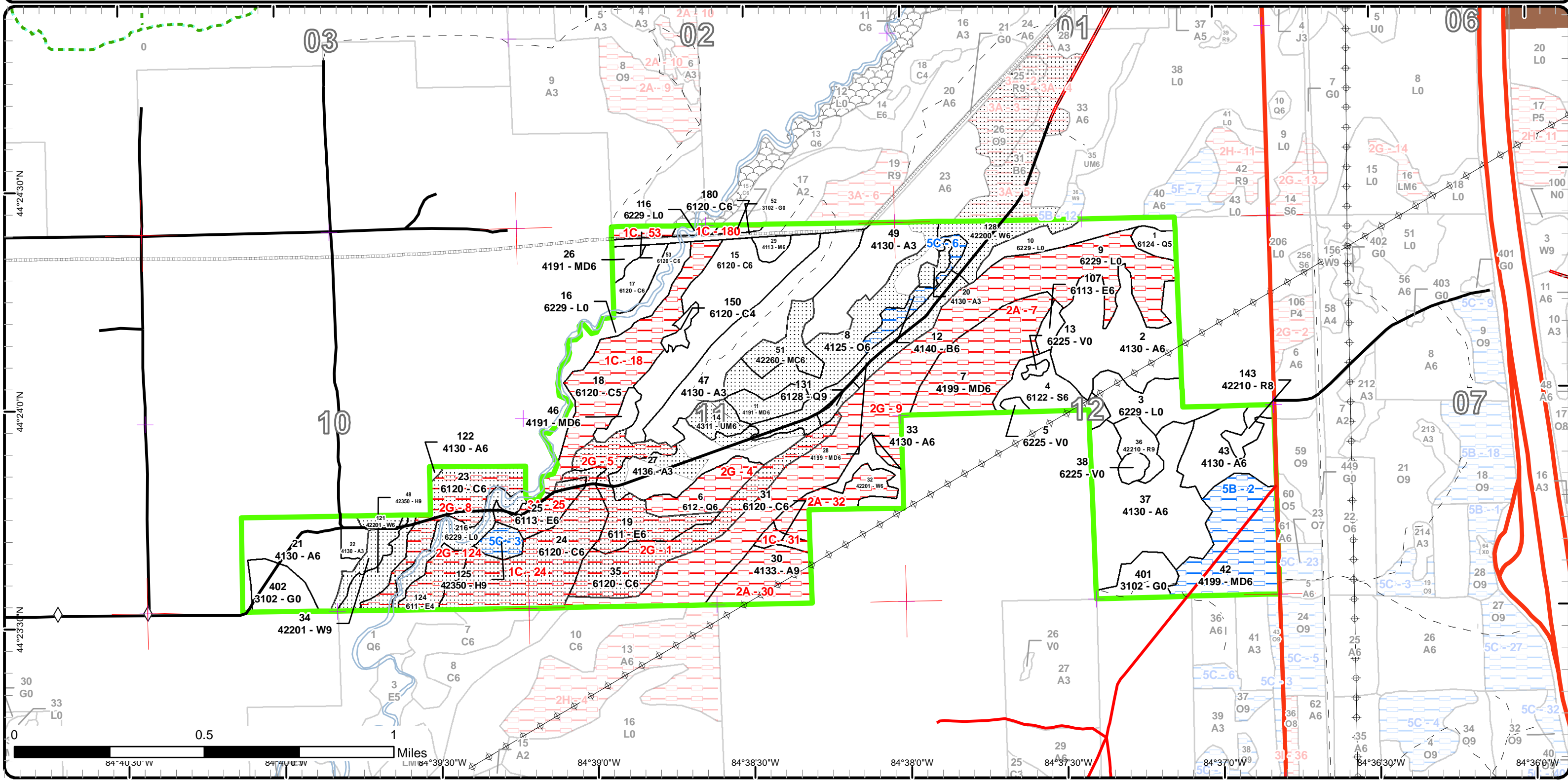
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Special Conservation Areas & Site Conditions Map

Compartment: 65
 T23N, R03W, Sec. 10-12
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2018
 Acres: 1066 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 2/9/2017
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- - - Designated Hiking Trails
- - - Designated Ski Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- - - Poor Dirt Roads
- Rivers
- - - Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- - - Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Potential old growth / biodiversity
- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment 65 Year of Entry 2018



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	37	69	102	0	9	30	25	0	21	0	0	0	0	0	0	0	0	293
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	0	16	49	34	112	0	0	0	0	211
Hemlock	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	5	0	14
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	5	0	0	15	0	2	0	0	0	0	0	0	0	21
Lowland Deciduous	0	0	0	0	0	0	4	0	11	0	37	0	0	0	0	0	0	0	52
Lowland Shrub	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192
Lowland Spruce/Fir	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	0	0	0	0	0	0	4	0	70	0	3	0	41	0	0	0	0	0	118
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Northern Hardwood	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32
Paper Birch	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	8
Red Pine	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	0	17	7	0	0	0	0	0	0	0	0	14	38
Total	230	37	69	102	0	14	61	45	124	30	58	49	75	112	0	0	5	58	1067



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2018

Acres of Harvest

Compartment 65
Total Compartment Acres: 1,066

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	0	0	11	11
Next Step	0	0	0	0	0	0	0	0	11	11
Total	0	0	0	0	0	0	0	0	22	22



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
401	71065401-NF	11.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		Draft Field Boundary

Habitat Cut: No**Site Condition:**

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

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 11.0**

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 65
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	1C	2A	2G	3A	
292	271	0	21	Aspen				21			
6	6	0	0	Bog							
211	57	0	154	Cedar			95		59		
14	9	5	0	Hemlock		5					
32	32	0	0	Herbaceous Openland							
22	7	0	14	Lowland Conifers					14		
51	4	0	47	Lowland Deciduous					37	11	
192	67	0	125	Lowland Shrub					125		
16	16	0	0	Lowland Spruce/Fir							
119	38	41	40	Mixed Upland Deciduous	41			40			
12	12	0	0	Natural Mixed Pines							
3	3	0	0	Northern Hardwood							
32	32	0	0	Oak							
8	0	8	0	Paper Birch		8					
12	12	0	0	Red Pine							
7	7	0	0	Upland Mixed Forest							
37	23	0	14	White Pine				14			
1,066	595	55	416	Total Forested Acres	41	14	95	75	235	11	
	56%	5%	39%	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)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 65
Year of Entry: 2018

2	Available	5B: Maintain for regeneration purposes	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2A: Adjacent landowner denied access	40	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 65
Year of Entry: 2018

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	125	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	1C: Other dept or div proc/practices	41	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments:							
24	Unavailable	1C: Other dept or div proc/practices	46	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments:							
25	Unavailable	3A: Potential old growth / biodiversity	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2A: Adjacent landowner denied access	21	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2I: Survey needed	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
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Compartment: 65
Year of Entry: 2018

31	Unavailable	1C: Other dept or div proc/practices	3	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments:							
32	Unavailable	2A: Adjacent landowner denied access	14	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
53	Unavailable	1C: Other dept or div proc/practices	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
124	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
180	Unavailable	1C: Other dept or div proc/practices	2	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments:							



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
	Visual Management Area	Recreational/Scenic Value Area	Proposed SCA	308
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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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6124 - Lowland Spruce- Fir	Poletimber Medium	5.0	46	51-80	
2	4130 - Aspen	Poletimber Well	46.8	24	1-50	
4	6122 - Black Spruce	Poletimber Well	15.7	53	81-110	
6	612 - Lowland Coniferous Forest	Poletimber Well	14.5	76	51-80	
7	4199 - Other Mixed Upland Deciduous	Poletimber Well	39.5	73	81-110	
8	4125 - Black, N. Pin Oak	Poletimber Well	31.9	76	51-80	Variable stand of oak, pine and birch. Scattered oak sawtimber size trees with areas of pole timber oak. Low BA on top of the hill. Pockets or clones of over mature bigtooth aspen.
11	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.7	72	81-110	
12	4140 - Other Upland Deciduous	Poletimber Well	8.5	72	81-110	Birch stand mixed with some oak and maple. Areas of thick balsam fir understory.
14	4311 - Pine, Aspen Mix	Poletimber Well	7.0	51	81-110	
15	6120 - Lowland Cedar	Poletimber Well	45.8	126	171-200	
17	6120 - Lowland Cedar	Poletimber Well	8.4	90	81-110	
18	6120 - Lowland Cedar	Poletimber Medium	40.7	126	51-80	
19	611 - Lowland Deciduous Forest	Poletimber Well	26.6	91	81-110	OPIC - FMD: Transition stand. Becomes more dominated by hemlock and cedar at southern edge is a solid balsam fir stand along two-track and white pine dominates in eastern arm. Multiple age cohorts. Has supercanopy white pine scattered throughout and some aspen that are scattered and past the point of regeneration. Part of SCA.
20	4130 - Aspen	Sapling Well	3.2	8	Immature	
21	4130 - Aspen	Poletimber Well	29.7	51	81-110	Primarily a quaking aspen stand with a few areas of bigtooth. Some white pine mixed in on the south end. A few wet holes on the south end as well. Areas north of Lansing rd are mixed with oak and red maple. Some oak in the understory as well. Aspen is beginning to decline with some top die back and areas of black rot.

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Roscommon Mgt. Unit

Report 7 – Forested Stands

Compartment: 65
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4130 - Aspen	Sapling Well	4.5	8	Immature	
23	6120 - Lowland Cedar	Poletimber Well	25.2	121	81-110	
24	6120 - Lowland Cedar	Poletimber Well	45.9	106	111-140	
25	6113 - Lowland Maple	Poletimber Well	10.7	76	51-80	
26	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	3.0	90	81-110	
27	4136 - Aspen, Mixed Conifer	Sapling Well	29.2	8	Immature	Aspen stand cut last entry. All oak, birch, and balsam over 4" were left. Great structure and cover.
28	4199 - Other Mixed Upland Deciduous	Poletimber Well	21.7	71	81-110	Nominate as SCA and maintain as one stand on both sides of the road for scenic values. Stand of red maple and paper birch mixed with balsam fir and pockets of multi aged aspen. Very well known scenic travel corridor.
29	4113 - R.Maple, Conifer	Poletimber Well	3.2	61	51-80	
30	4133 - Aspen, Mixed Pine	Sawtimber Well	21.2	80	81-110	Stand of 2 aged aspen with no access. Stand has good amounts of white pine, red maple and balsam fir mixed in. A few small wet pockets dominated by cedar and red maple are found in the sw corner of stand.
31	6120 - Lowland Cedar	Poletimber Well	3.3	101	111-140	Small cedar drainage. Lots of dead black ash.
32	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	14.2	66	81-110	
33	4130 - Aspen	Poletimber Well	8.6	48	Unspecified	
34	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	6.8	71	81-110	Small sawtimber white pine stand with groups of large diameter white pine and a few oak and aspen.
35	6120 - Lowland Cedar	Poletimber Well	34.2	111	81-110	
36	42210 - Natural Red Pine	Sawtimber Well	7.3	71	51-80	Thinned last entry.
37	4130 - Aspen	Poletimber Well	54.9	24	1-50	
42	4199 - Other Mixed Upland Deciduous	Poletimber Well	41.3	111	51-80	Multiple ages and size classes of oak.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4130 - Aspen	Poletimber Well	24.7	65	1-50	Over mature quaking aspen stand. Much of it is sawtimber diameter but is probably pulpwood. Stand is showing signs of heavy decline. Scattered small log size white pine. West side of stand has smaller diameters and has heavy red maple understory.
46	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.3	51	51-80	Appears to be an old habitat cut.
47	4130 - Aspen	Sapling Well	40.5	18	Immature	
48	42350 - Upland Hemlock	Sawtimber Well	8.9	81	141-170	Nice hemlock stand with scattered white pine.
49	4130 - Aspen	Sapling Well	28.2	18	Immature	OPIC - FMD: Birch/ white pine stand that was clear-cut in 1999. No birch regeneration present. Mix of aspen clones and sparse oak regeneration. Good evidence of what not to do with these types of stands. Some birch seed may still be present.
51	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	12.2	76	81-110	Very mixed stand with multiple age classes of oak and white pine. R6 pocket to the southwest and more white pine in other arms.
53	6120 - Lowland Cedar	Poletimber Well	3.3	90	81-110	OPIC - FMD: Transitions to upland oak, aspen, maple mix on west end, but not enough to type out.
107	6113 - Lowland Maple	Poletimber Well	3.7	52	51-80	
121	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	2.4	61	51-80	
122	4130 - Aspen	Poletimber Well	0.6	47	51-80	Aspen removed about 35 years ago. Oak and red maple were left. Aspen 4-6". A bit too much residual was left, but wait 10 years. Recently acquired piece of land. We have an easement in from the north.
124	611 - Lowland Deciduous Forest	Poletimber Poor	10.2	90	1-50	
125	42350 - Upland Hemlock	Sawtimber Well	5.3	166	141-170	Small stand of nice quality hemlock. Cored at around 160 years old. Some large diameter white pine on south west side. Some hemlock regeneration found but only along the outside edge of the stand.
128	42200 - Natural White Pine	Poletimber Well	13.6	61	51-80	
131	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	2.2	96	141-170	
143	42210 - Natural Red Pine	Sawtimber Medium	5.0	76	51-80	Mixed stand of red pine, white pine and oak. Stand was thinned last entry. Red maple stump sprouts in understory.

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Roscommon Mgt. Unit

Report 7 – Forested Stands

Compartment: 65
Year of Entry: 2018



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
150	6120 - Lowland Cedar	Poletimber Poor	2.9	90	1-50	OPIC - FMD: pocket of windthrow- look for cedar regen in here next time. Did not see any this time.
180	6120 - Lowland Cedar	Poletimber Well	1.6	90	51-80	OPIC - FMD: OI Stand Year Origin was 1927



Stand	Cover Type	Acres	Managed Site	General Comments:
3	6229 - Mixed lowland shrub	17.6	No	OPIC - FMD: Alder that had a road frozen in to access the aspen to the north.
5	6225 - Bog	1.4	No	OPIC - FMD: OI Stand Year Origin was
9	6229 - Mixed lowland shrub	124.7	No	Stand was dominated by black ash but all have died from EAB. Some balsam present.
10	6229 - Mixed lowland shrub	14.4	No	
13	6225 - Bog	1.2	No	
16	6229 - Mixed lowland shrub	19.4	No	OPIC - FMD: floodplain along Cut River.
38	6225 - Bog	3.2	No	OPIC - FMD: OI Stand Year Origin was
52	3102 - Grass	9.0	No	
116	6229 - Mixed lowland shrub	1.8	No	OPIC - FMD: floodplain along Cut River.
216	6229 - Mixed lowland shrub	13.6	No	OPIC - FMD: floodplain along Cut River. Part of SCA
401	3102 - Grass	11.0	Yes	Maintained opening w/ pockets of aspen and cherry within the interior. Landowner is plowing forest road to access property.
402	3102 - Grass	12.3	No	mix of G and U-type