



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71045

Entry Year 2017

Acreage: 820

County Roscommon

Management Area: AuSable Outwash

Revision Date: 2015-07-16

Stand Examiner: Jason Lewicki

Legal Description:

T24N, R01W Sections 29 and 32

Identified Planning Goals:

Maintain current age and species diversity in a range of early and late successional ecosystems as determined by the AuSable Outwash Management Area plan.

Soil and topography:

Upland soils consist mainly of AuGres, Perecheney and Croswell sands. Lowlands are primarily AuSable and Deford Mucks. Topography is very flat to gently rolling.

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

This compartment is made up of a large block of state ownership with scattered private ownership. There is heavy oil and gas use within section 29.

Unique Natural Features:

The South Branch of the AuSable River runs through this compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The south Branch of the AuSable river is under the Natural Rivers act.

Watershed and Fisheries Considerations:

The South Branch of the AuSable River runs through this compartment.

Wildlife Habitat Considerations:

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 Marshall Sandstone and Coldwater Shale. The Marshall has been used as a building stone in the past. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is located many miles away and potential appears to be limited. Section 29 is in St. Helen Field. 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. Much of Section 29 is currently leased, and the leases are held by production.

Vehicle Access:

Vehicle access is very good within section 29. Section 32 has limited access due to large amounts of wetland types.

Survey Needs:

Recreational Facilities and Opportunities:

Dispersed recreational hunting within the compartment occurs throughout the parcel for canoeing, berry / mushroom picking, large and small game hunting. Fishing, canoeing and waterfowl hunting are recreational pursuits likely to occur on the South Branch Au Sable River, a high quality trout stream.

ORV and Snowmobile 69 Trail occur on Pine Road (north boundary) of this compartment. As well as the northern east and

west corners off of Pine Road. Focus any retention pockets or clusters along or near trail. Ensure logging activity does not obliterate the designated trails by limiting the number of crossings. All stumps within 20 feet of the trail shall be Flush-Cut to ensure stumps do not result in unsafe conditions. Assure 'logging ahead' warning signs are placed on the designated trails and main access roads during logging activity. Ensure designated trails signs, post and directional markers are protected. If harvest activities occur during the snowmobile season of December 1 thru March 31 a snow bed must be preserved on a portion of Pine Road. Remove logging activity warning signs when completed.

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:

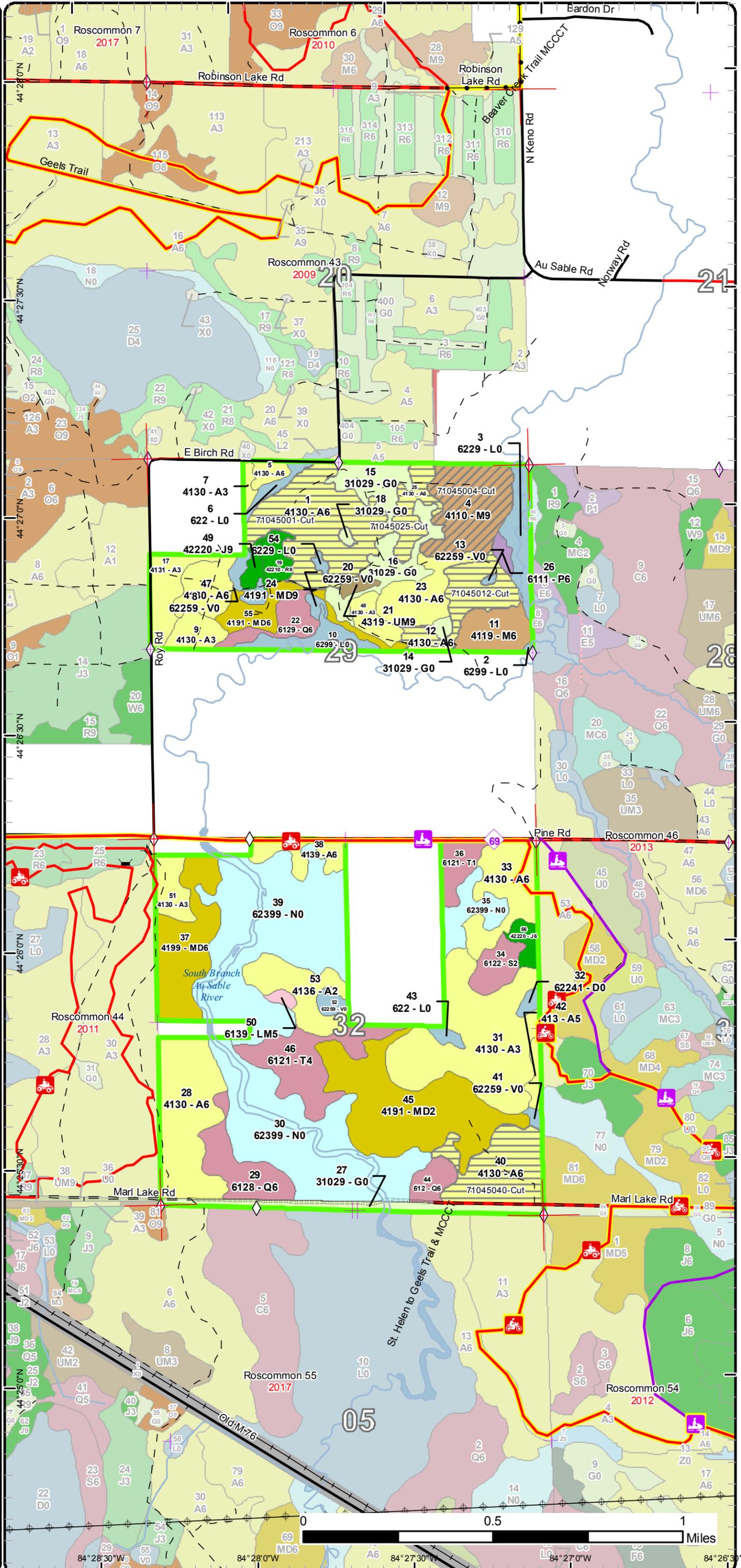
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 45
 T24N R01W 29,32
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: AuSable Outwash
 YOE: 2017
 Acres: 820 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 7/23/2015
 Map Phase: Pre-Review

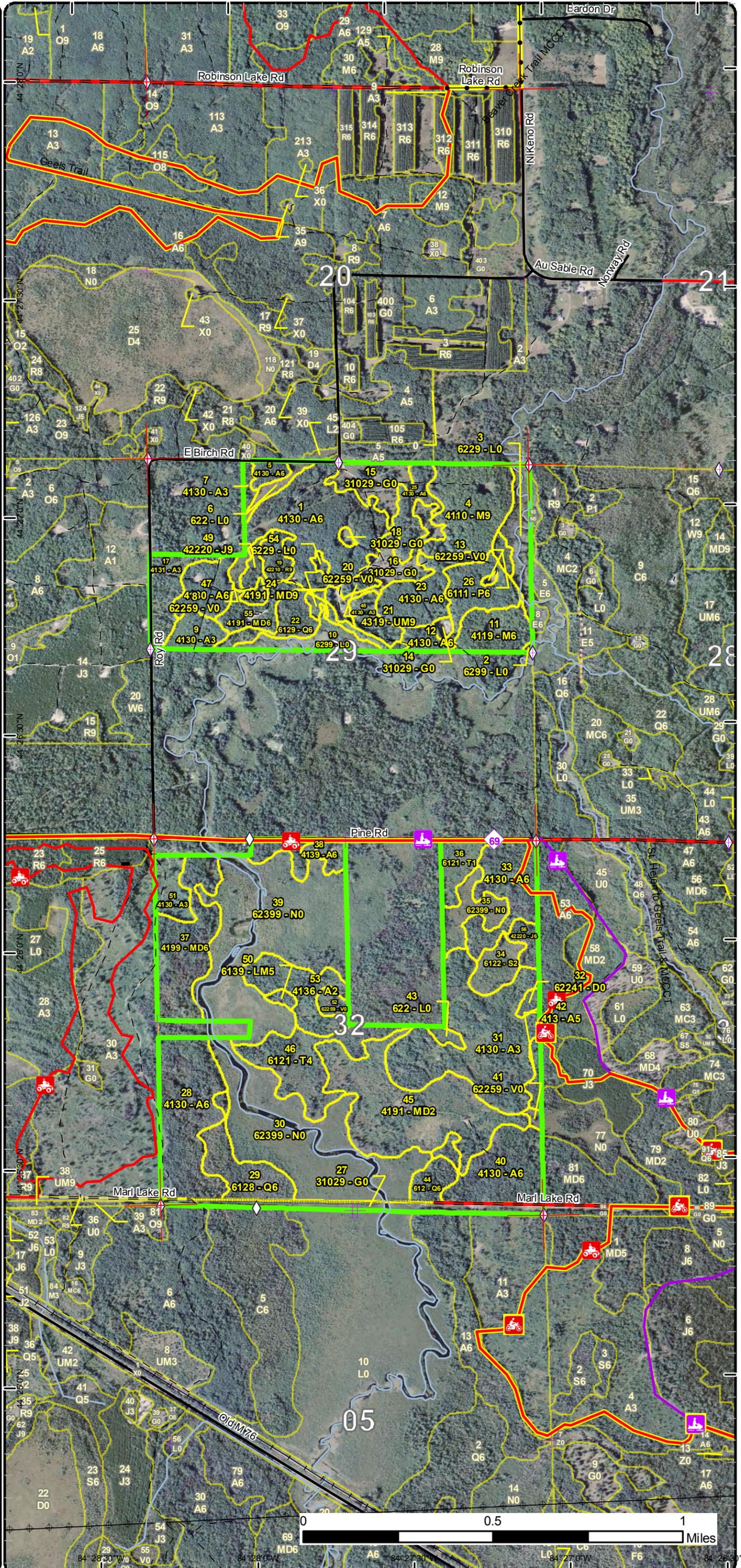
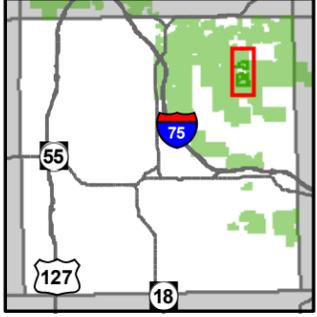


- ✦ Remonumented Section Corner
- ◇ Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Bridges
- 🚲 MCCCT Trails
- 🚲 ORV Trails
- 🚲 Snowmobile Trails
- Designated Motorcycle Trails**
- License_Type**
- ORV License
- Designated ATV Trails
- Designated Snowmobile Trails**
- Designated Snowmobile Trails
- Designated MCCCT Trails
- Railroads
- Rivers
- Lakes
- Pipeline
- Powerline
- Treatments**
- ▨ Clearcut (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- Forest Covertype**
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 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

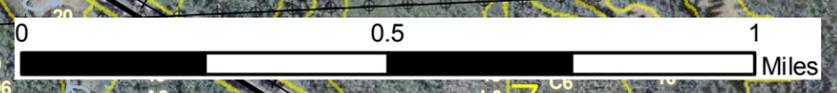


Stand Boundary Map

Compartment: 45
 T24N R01W 29,32
 County: Roscommon
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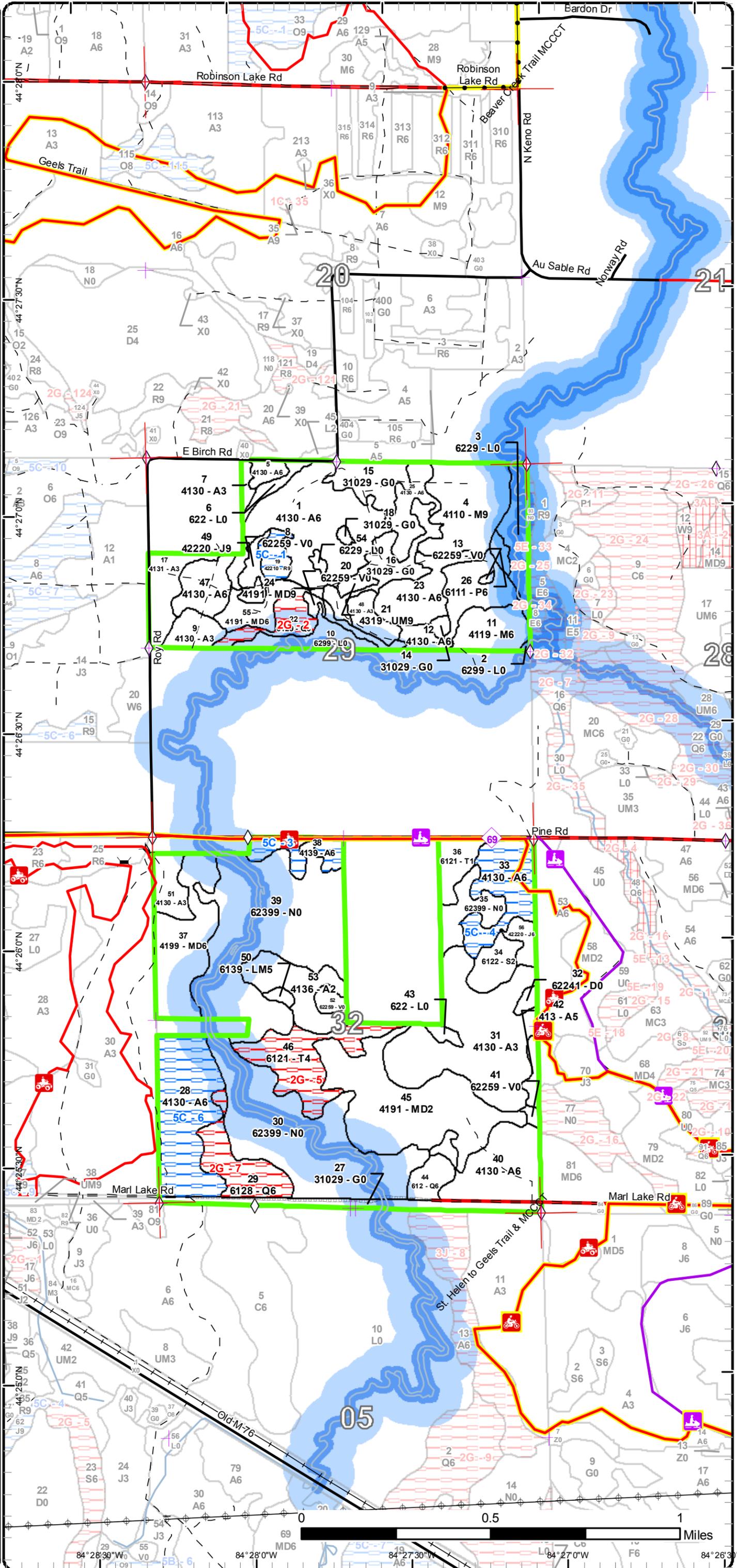
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84° 28' 0" W 84° 27' 30" W 84° 27' 0" W 84° 26' 30" W

Special Conservation Areas & Site Conditions Map

Compartment: 45
 T24N R01W 29,32
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- Designated Snowmobile Trails**
- Designated Snowmobile Trails
- Designated MCCCT Trails
- Railroads
- Rivers
- Pipeline
- Powerline
- Stand Boundaries
- Site Condition**
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints**
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 2G: Too wet (sensitive soils, does not include access issues)
- Special Conservation Areas**
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment 45 Year of Entry 2017



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	25	0	121	0	23	140	0	0	11	9	0	0	0	0	0	0	0	329
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Herbaceous Openland	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Jack Pine	0	0	0	0	0	5	0	0	4	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	7	0	0	27	0	0	0	0	0	0	34
Lowland Mixed Forest	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Lowland Shrub	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Marsh	162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162
Mixed Upland Deciduous	0	0	57	0	0	0	40	0	0	3	0	0	0	0	0	0	0	0	100
Northern Hardwood	0	0	0	0	0	0	14	0	0	0	0	30	0	0	0	0	0	0	44
Red Pine	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Tamarack	0	0	0	9	0	0	0	0	26	0	0	0	0	0	0	0	0	0	35
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
Total	250	25	57	130	0	28	196	0	48	14	9	65	0	0	0	0	0	0	822



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 45
Total Compartment Acres: 820

Commercial Harvest - 133
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	103	0	0	0	0	0	0	0	0	103
Northern Hardwood	0	0	0	0	30	0	0	0	0	30
Total	103	0	0	0	30	0	0	0	0	133

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	133	0	0	0	0	0	0	0	0	133
Next Step	0	0	0	0	0	103	0	0	0	103
Total	133	0	0	0	0	103	0	0	0	236



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	71045001-Cut	45.4	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clear cut stand and manage for aspen regeneration. Leave retention in the form of buffers around the low areas and the bog to the north west.											
<u>Specs:</u> Area has heavy oil and gas use. There are multiple above ground product lines that must be identified before harvest. Apply "drumming log"spec to help improve grouse habitat.											
<u>Next Step Treatments:</u>											
<u>Acceptable Regen:</u> aspen to a fully stocked stand											
<u>Other Comment:</u> Old next step comments:											
<u>Proposed Start Date:</u> 10/1 /2016											
4	71045004-Cut	29.7	4110 - Sugar Maple Association	Sawtimber Well	105	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Thin stand to promote growth on hard maple saw timber. Create a few gap openings to promote hard maple regeneration. Thin 80-100 BA.											
<u>Specs:</u>											
<u>Next Step Treatments:</u>											
<u>Acceptable Regen:</u>											
<u>Other Comment:</u> Old next step comments:											
<u>Proposed Start Date:</u> 10/1 /2016											
12	71045012-Cut	19.7	4130 - Aspen	Poletimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clear cut and manage for aspen. Leave retention along the east side of stand. This will act as a buffer or the South Branch and natural rivers corridor. Leave scattered brush piles along that east edge as well for snowshoe habitat. Apply "drumming log"spec to help improve grouse habitat. Add hare spec 5.2.4.7 in addition to the brush piles.											
<u>Specs:</u>											
<u>Next Step Treatments:</u>											
<u>Acceptable Regen:</u> Aspen to a fully stocked stand.											
<u>Other Comment:</u> Old next step comments:											
<u>Proposed Start Date:</u> 10/1 /2016											
25	71045025-Cut	10.6	4130 - Aspen	Poletimber Well	82	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> clear cut stand and manage for aspen regeneration. Leave a few islands of mature aspen for regeneration.											
<u>Specs:</u>											
<u>Next Step Treatments:</u>											
<u>Acceptable Regen:</u> Aspen to a fully stocked stand.											
<u>Other Comment:</u> Old next step comments:											
<u>Proposed Start Date:</u> 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
40	71045040-Cut	27.5	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clear cut stand and manage for aspen. Leave a few healthy oak per acre for mast. Leave retention in the form of solid aspen preferably along the west edge. Place brush piles on western edge near swamp conifers. Apply "drumming log"spec to help improve grouse habitat. Add hare spec 5.2.4.7 in addition to the brush piles.

Next Step
Treatments:

Acceptable Aspen to a fully stocked stand.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 133.0**

Report 5 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 45
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G
		With Condition	Not Available			
328	256	72	0	Aspen	72	
10	10	0	0	Bog		
46	46	0	0	Herbaceous Openland		
8	8	0	0	Jack Pine		
2	2	0	0	Lowland Aspen/Balsam Poplar		
34	7	0	27	Lowland Conifers		27
2	2	0	0	Lowland Mixed Forest		
30	30	0	0	Lowland Shrub		
9	9	0	0	Lowland Spruce/Fir		
162	162	0	0	Marsh		
101	101	0	0	Mixed Upland Deciduous		
44	44	0	0	Northern Hardwood		
6	0	6	0	Red Pine	6	
35	9	0	26	Tamarack		26
2	2	0	0	Treed Bog		
2	2	0	0	Upland Mixed Forest		
820	689	78	53	Total Forested Acres	78	53
	84%	10%	6%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 45
Year of Entry: 2017

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	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
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Poletimber Well	45.4	50	81-110	Mature quaking aspen stand with a balsam fir component. Some scattered pine. A few wet pockets found within stand. Heavy oil and gas use with multiple oil lines present.
4	4110 - Sugar Maple Association	Sawtimber Well	29.7	105	111-140	Nice stand of Hard Maple and Basswood. Stand was thinned in 1989. There is multiple pipelines found throughout stand. EAB has eliminated the ash component.
5	4130 - Aspen	Poletimber Well	3.5	50	81-110	Mixed aspen stand with a few scattered red pine. Can hold for another 10-20 years.
7	4130 - Aspen	Sapling Well	2.1	5	Immature	Small stand of quaking aspen saps with mature oak and pine. Possible timber trespass.
9	4130 - Aspen	Sapling Well	7.8	5	Immature	
11	4119 - Mixed Northern Hardwoods	Poletimber Well	13.8	50	51-80	Red maple pole timber stand mixed with some oak, birch aspen and a few scattered pine. High water table. There is a small bog found within stand. Small pocket of red pine found in SE corner of the stand.
12	4130 - Aspen	Poletimber Well	19.7	50	111-140	Mature stand of quaking aspen that is showing signs of decline and heart rot. Some balsam fir on the south end.
17	4131 - Aspen, Oak	Sapling Well	12.6	26	Immature	Low quality aspen/oak stand. More oak and cherry on the west side.
19	42210 - Natural Red Pine	Sawtimber Well	5.8	105	111-140	
21	4319 - Mixed Upland Forest	Sawtimber Well	2.3	105	111-140	
22	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	9.8	105	Unspecified	
23	4130 - Aspen	Poletimber Well	16.2	26	51-80	
24	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.4	82	81-110	
25	4130 - Aspen	Poletimber Well	10.6	82	81-110	Over mature stand of quaking aspen. Stand has evidence of extensive heart rot and decline.
26	6111 - Lowland Balsam Poplar	Poletimber Well	2.4	55	51-80	"P" type within natural rivers corridor.
28	4130 - Aspen	Poletimber Well	39.4	50	51-80	Quaking aspen stand mixed with balsam fir and red maple. Some small patches of cedar. Stand slopes down to the river. Approximately 1/4-1/3 of stand may be inoperable.

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 45
Year of Entry: 2017

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.6	105	81-110	
4130 - Aspen	Sapling Well	60.7	26	Immature	
4130 - Aspen	Poletimber Well	22.9	49	51-80	Harvest with adjacent compartment to the east. Hold for at least 10 years.
6122 - Black Spruce	Sapling Medium	8.9	75	Unspecified	
6121 - Tamarack	Sapling Poor	8.5	26	Immature	
4199 - Other Mixed Upland Deciduous	Poletimber Well	30.5	51	51-80	Aspen mixed with red maple. Many areas are wet with understory dominated by tag alder.
4139 - Aspen, Mixed Deciduous	Poletimber Well	9.4	92	51-80	
4130 - Aspen	Poletimber Well	27.5	50	81-110	Low quality quaking aspen stand mixed with black oak. Aspen is starting to show signs of decline.
413 - Aspen	Poletimber Medium	3.6	50	Unspecified	
612 - Lowland Coniferous Forest	Poletimber Well	6.8	75	Unspecified	
4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	57.4	15	Immature	Cut in 9/2000. Scattered oak mast trees
6121 - Tamarack	Poletimber Poor	26.0	75	Unspecified	
4130 - Aspen	Poletimber Well	12.1	26	1-50	Quaking aspen stand just entering pole timber class.
4130 - Aspen	Sapling Well	6.7	5	Immature	
42220 - Natural Jack Pine	Sawtimber Well	3.7	75	Unspecified	
6139 - Mixed Lowland Forest	Poletimber Medium	1.6	75	Unspecified	
4130 - Aspen	Sapling Well	8.8	5	Immature	Some natural jack pine seeding in on the north end.
4136 - Aspen, Mixed Conifer	Sapling Medium	18.7	24	Immature	

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 45
Year of Entry: 2017



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.3	55	81-110	Small aspen stand that wraps around an oil well. Multiple above ground oil lines present.
56	42220 - Natural Jack Pine	Poletimber Well	4.8	49	81-110	Harvest with adjacent aspen stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6299 - Lowland Shrub (OI)	0.4	No	
3	6229 - Mixed lowland shrub	12.6	No	
6	622 - Lowland Shrub	3.5	No	
8	62259 - Bog (OI)	3.9	No	
10	6299 - Lowland Shrub (OI)	10.4	No	
13	62259 - Bog (OI)	0.5	No	
14	31029 - Grass (OI)	1.5	No	
15	31029 - Grass (OI)	12.7	No	
16	31029 - Grass (OI)	15.2	No	
18	31029 - Grass (OI)	1.0	No	
20	62259 - Bog (OI)	1.5	No	
27	31029 - Grass (OI)	15.4	No	
30	62399 - Marsh (OI)	68.4	No	
32	62241 - Treed Bog (OI)	1.9	No	
35	62399 - Marsh (OI)	11.2	No	
39	62399 - Marsh (OI)	82.4	No	
41	62259 - Bog (OI)	1.2	No	
43	622 - Lowland Shrub	2.0	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
52	62259 - Bog (O)	3.0	No	
54	6229 - Mixed lowland shrub	1.1	No	