



Roscommon Forest Management Unit Compartment Review Presentation

Compartment #59

Entry Year: 2012

Compartment Acreage: 1779

County: Roscommon

Revision Date: 7/12/2010

Stand Examiner: J. Hartman

Legal Description: T23N R2W sections 3, 10, and 15

Management Area: Au Sable Outwash

Management Goals: Regenerate a portion of the aspen resource in order to stagger age classes in this cover type. Thin overstocked hardwood stands.

Soil and Topography: There is a large pitted outwash ridge on the north and southeast part of the compartment that consists of Roselawn and Rubicon sands. The central and southwest portions are dominated by part of the Long Crossway Swamp which connects into several other compartments.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There are two areas of private land. There is one lone parcel in the swamp that has one corner of it on an upland island. The other area has approximately 5 parcels that are contiguous. One of these parcels is approximately 95 ac.

Unique, Natural Features: There are known locations of bald eagle, osprey, secretive locust, and great blue heron in the vicinity. There are also historical records of rough fescue, Hill's thistle and Ram's head lady's slipper. Potential exists for red-shouldered hawk, spotted turtle, rare wetland birds, and massasauga.

Archeological, Historical, and Cultural Features: None identified.

Special Management Designations or Considerations: There are three island stands that were part of the former "old growth" plan and are remaining as Special Conservation Areas (SCA's) using the "unique site" identifier. These stands are also within the proposed Biodiversity Stewardship Area (BSA) for Long Crossway Swamp.

Watershed and Fisheries Considerations: There are no lakes or streams present. A majority of the groundwater flows from Long Crossway Swamp to Robinson Creek and eventually into the Au Sable River.

Wildlife Habitat Considerations: This compartment has a large amount of acreage in pole sized aspen resulting from Deer Range Improvement (DRIP) harvests in the 1970's. Regenerating portions of these stands early should have positive impacts on deer and grouse. Retaining and promoting oak vigor will also have positive effects through current and future mast production.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel 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 in the State. Most of the nearby gravel pits are associated with upland areas. The

nearest gravel pit is Nine Mile Pit, located two miles to the west. Gravel potential is thought to be good in the upland areas. St. Helen Field lies two miles to the northeast. The field has produced over 8.7 million BO and 14.7 Bcf gas from the Devonian Richfield Formation and is in secondary recovery operations currently. None of the State land is currently leased in the compartment.

Vehicle Access: The country roads that are the primary access routes are Marl Lake Road, Geels Road, and Third Lake Road. There are scattered state forest two-tracks diverging from the county road system.

Survey Needs: None necessary.

Recreational Facilities and Opportunities: Hunting and mushroom picking opportunities are good in parts of the compartment. There is also an extensive network of ORV trails throughout the area.

Fire Protection: The most problematic wildfire issues could be in the large swamp complex of black spruce and leatherleaf. Access would be difficult and a late summer fire could burn for a long time.

➤ **The following reports from the Inventory are attached:**

- ◆ **Total Acres by Cover Type and Age Class**
- ◆ **Proposed Treatment Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Details (Forested and Nonforested)**
- ◆ **Dedicated and Proposed Special Conservation Areas**

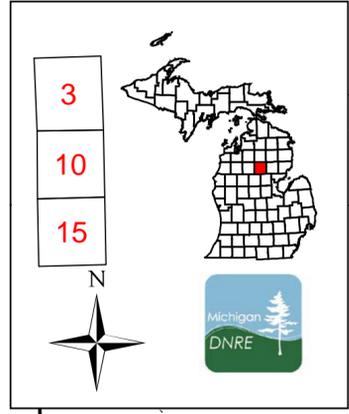
➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

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

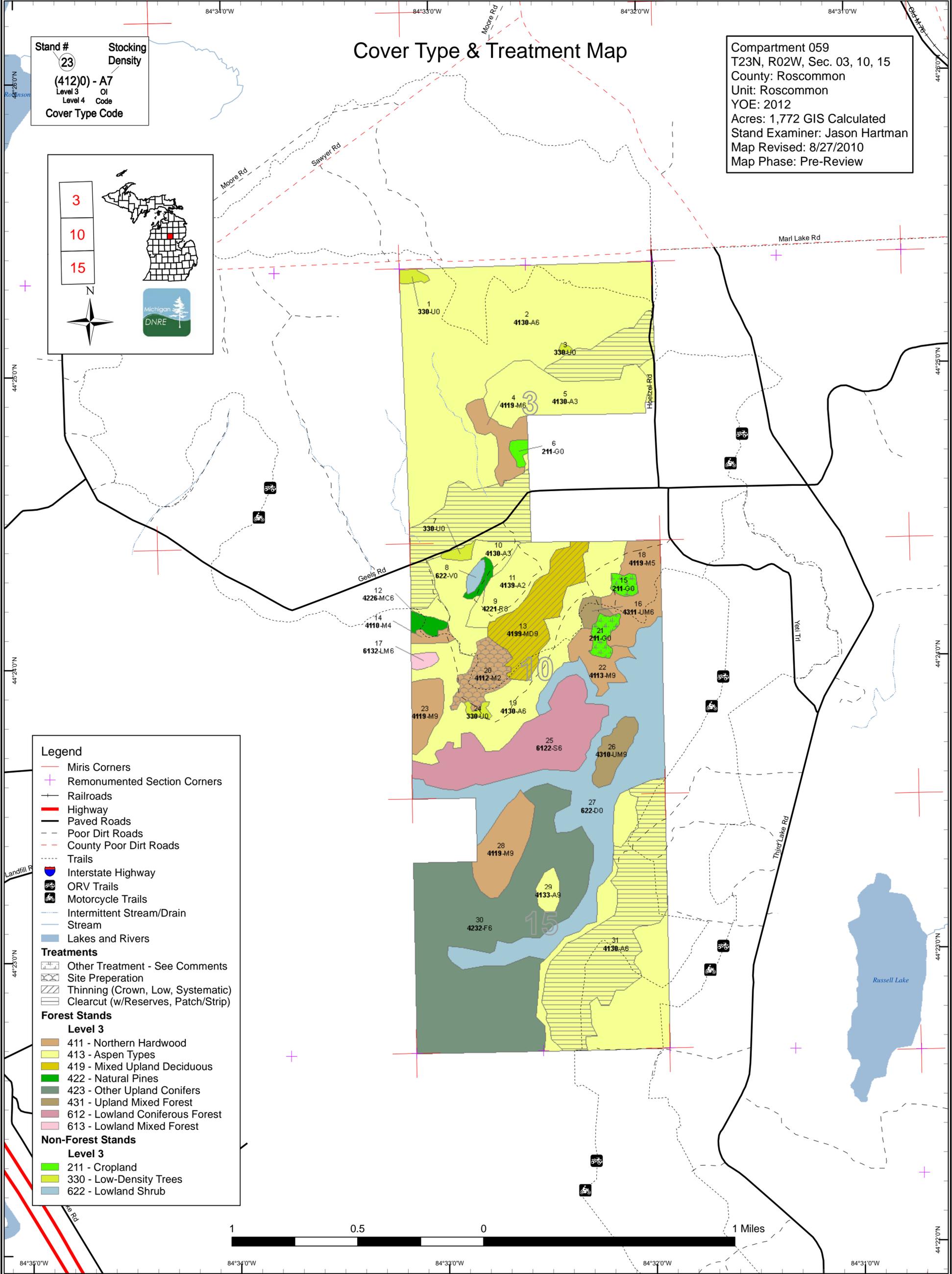
Cover Type & Treatment Map

Compartment 059
 T23N, R02W, Sec. 03, 10, 15
 County: Roscommon
 Unit: Roscommon
 YOY: 2012
 Acres: 1,772 GIS Calculated
 Stand Examiner: Jason Hartman
 Map Revised: 8/27/2010
 Map Phase: Pre-Review

Stand #
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



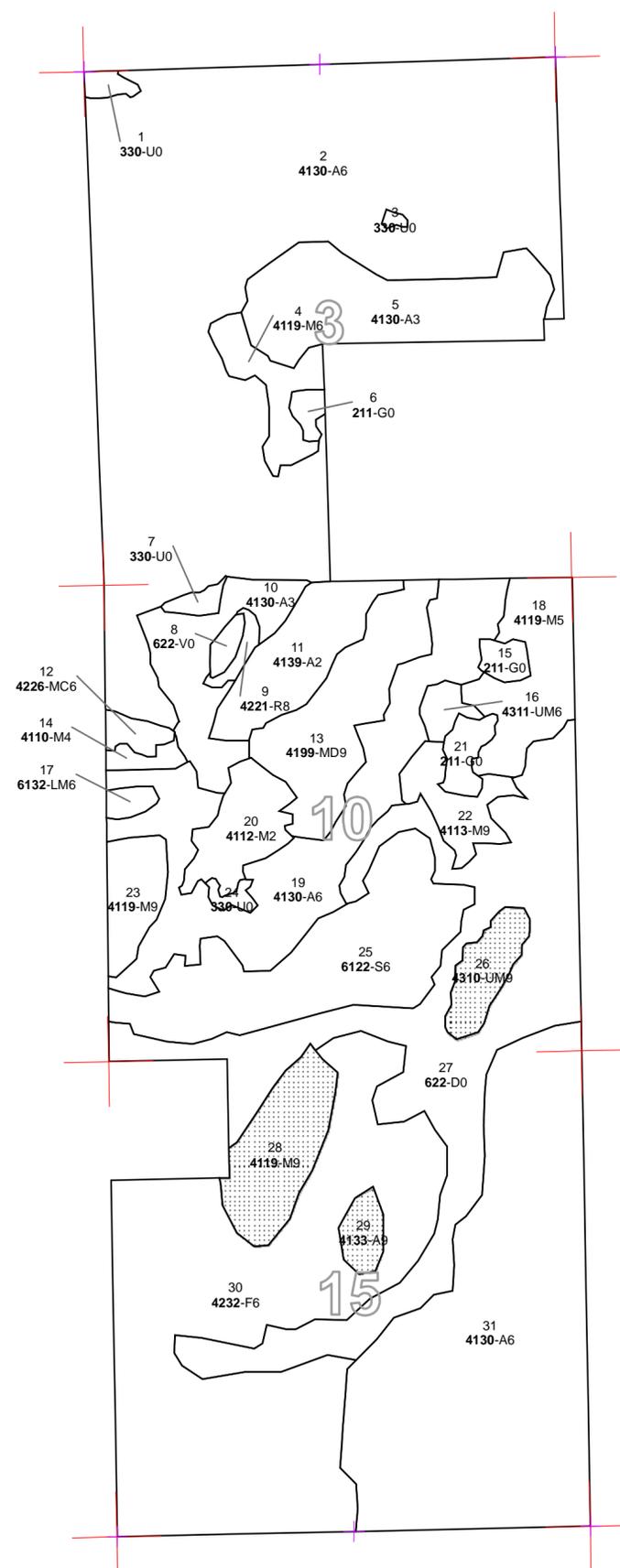
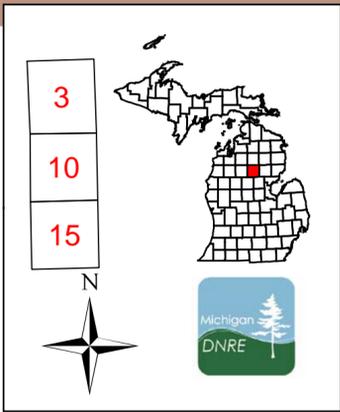
- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Railroads
 - Highway
 - Paved Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trails
 - Interstate Highway
 - ORV Trails
 - Motorcycle Trails
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
- Treatments**
- Other Treatment - See Comments
 - Site Preparation
 - Thinning (Crown, Low, Systematic)
 - Clearcut (w/Reserves, Patch/Strip)
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 211 - Cropland
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

Stand #
 (23)
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Compartment 059
 T23N, R02W, Sec. 03, 10, 15
 County: Roscommon
 Unit: Roscommon
 YOE: 2012
 Acres: 1,772 GIS Calculated
 Stand Examiner: Jason Hartman
 Map Revised: 8/27/2010
 Map Phase: Pre-Review



- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Proposed Special Conservation Areas**
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
 - Wildlife Management Areas**
 - Wildlife Management Areas
 - Natural Rivers Zoning District
 - Natural Rivers Vegetative Buffer
 - Stand Boundaries
 - Forest Stands**
 - Level 3**
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
 - Non-Forest Stands**
 - Level 3**
 - 211 - Cropland
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub



84°34'0"W 84°33'0"W 84°32'0"W 84°31'0"W

44°26'0"N
44°25'0"N
44°24'0"N
44°23'0"N

44°26'0"N
44°25'0"N
44°24'0"N
44°23'0"N

Table 1 – Total Acres by Cover Type and Age Class

Data updated before 10:00 AM



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneven Age
Aspen	0	143	0	0	0	796	0	0	0	8	0	0	0	0	0	947
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cropland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Lowland Spruce/Fir	0	0	0	0	0	0	93	0	0	0	0	0	0	0	0	93
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	54	0	0	0	0	54
Natural Mixed Pines	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	24	0	0	63	0	0	0	18	56	0	0	0	0	161
Red Pine	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Treed Bog	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	188
Upland Mixed Forest	0	0	0	0	0	6	0	0	16	0	0	0	0	0	0	23
Upland Spruce/Fir	0	0	0	0	0	0	262	0	0	0	0	0	0	0	0	262
Total	220	143	24	0	0	870	355	0	16	30	110	0	0	0	4	1772



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Roscommon Mgt. Unit
Year of Entry 2012

Compartment 059
Total Compartment Acres: 1772

Acres by Treatment Type

Commercial Harvest - 307	Site Prep - 24	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 14	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	253	0	0	0	0	0	253
Mixed Upland Deciduous	0	0	0	0	54	0	54
Total	253	0	0	0	54	0	307



Data updated before 10:00 AM

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	71059002-north	37.5	4130 - Aspen	High Density Pole	44	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
<u>Prescription:</u> Harvest a portion of this large stand. Clear-cut w/ reserves. Leave oak, birch, and pine. <u>Specs:</u> <u>Other Comments:</u> Early Aspen 2 71-009-10-01. Complete on the 2010 POW. Sold in May 2010. <u>Next Steps:</u>									
2	71059002-south	76.4	4130 - Aspen	High Density Pole	44	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
<u>Prescription:</u> Harvest a portion of this large stand. Clear-cut w/ reserves. Leave oak, birch, and pine. <u>Specs:</u> <u>Other Comments:</u> Early Aspen 2 71-009-10-01. Complete on the 2010 POW. Sold in May 2010. <u>Next Steps:</u>									
13	71059013-Cut	54.0	4199 - Other Mixed Upland Deciduous	High Density Log	90	Harvest	Crown Thinning	Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription:</u> Traditional northern hardwood thinning to increase overall stem quality and release the few sugar maple that are present. Don't spec cut aspen. <u>Specs:</u> Leave most of it because a large proportion of it is hollow. Favor mast trees. <u>Other Comments:</u> <u>Next Steps:</u>									
31	71059031-Cut	139.4	4130 - Aspen	High Density Pole	44	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
<u>Prescription:</u> Clear-cut with reserves. Leave bigtooth stands along the wetland and all oak, birch, and pine. Also delineate out the quaking aspen from the bigtooth along the ridge. Use recreation trail protection specs. <u>Other Comments:</u> Completed on the 2010 POW and sold with stands in the compartment to the east. <u>Next Steps:</u>									
20	71059020-Prep	24.3	4112 - Maple, Beech, Cherry Association	Medium Density Saplin	15	Site Prep	Other-Specify	Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription:</u> Roller chop and plant red pine. If possible, get the stand harvested commercially instead of roller chop, but leave roller chopping as the primary tool. <u>Specs:</u> <u>Other Comments:</u> Stand is 15 years old. Red oak regen failure. Open grown red maple stump sprouts with sedge understory and some scattered aspen clones. <u>Next Steps:</u>									

**Table 3 -- Treatments Prescribed
 with No Limiting Factor**



S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15 NF_71059015-NonFor	5.2	Non-Forested		0	Non-Forest Management	Other - Specify	Mixed Upland Herbaceous	Cmpt. Review Proposal

Prescription
Specs:

Other
Comments:

Next
Steps:

21 NF_71059021-NonFor	8.3	Non-Forested		0	Non-Forest Management	Other - Specify	Mixed Upland Herbaceous	Cmpt. Review Proposal
-----------------------	-----	--------------	--	---	-----------------------	-----------------	-------------------------	-----------------------

Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
 Acreage Proposed: 345.1**



S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	------------------	--------------	-----------	----------------	------------------	----------------------	-----------------

#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acres Proposed: 0

Data updated before 10:00 AM

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2012



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	------------------	--------------	-----------	----------------	------------------	----------------------	-----------------

Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 059	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012	
2	4130 - Aspen	High Density Pole	453.2	44			Huge stand that grades from bigtooth mixed with red oak and white pine to the north and quaking aspen on the south end.
4	4119 - Mixed Northern Hardwoods	High Density Pole	19.8	44			
5	4130 - Aspen	High Density Sapling	69.2	7			
9	42210 - Natural Red Pine	Medium Density Log	3.7	80	51-80		Thinned with surrounding clear-cut in 2003.
10	4130 - Aspen	High Density Sapling	37.4	7			Has a small red pine stand along the bog included in this acreage. The red pine stand wasn't large enough to be considered it's own stand.
11	4139 - Aspen, Mixed Deciduous	Medium Density	36.6	7			Stand was clear-cut with the aspen to the west. The sale was dominated by red oak on this ridge. A small proportion of the stump sprouts made it. Heavy witch hazel in some areas that is competing in the canopy for now.
12	42260 - Natural Pine, Mixed Deciduous	High Density Pole	5.7	44			
13	4199 - Other Mixed Upland Deciduous	High Density Log	54.0	90	111-140		Very few ash and basswood present. Most aspen are hollow and falling apart adding alot of structure and habitat. Heavy deer sign in the area.
14	4110 - Sugar Maple Association	Low Density Pole	4.7	44			
16	4311 - Pine, Aspen Mix	High Density Pole	6.2	44			
17	6132 - Mixed Lowland Forest with Cedar	High Density Pole	3.9	Uneven Age	1-50		
18	4119 - Mixed Northern Hardwoods	Medium Density Pole	38.4	44			Lots of old white pine stumps with blueberry ground cover. Kotar layer calls this AFO. Was probably White pine/mixed hardwood.
19	4130 - Aspen	High Density Pole	108.4	44			Long stand spread along two track. Road is wet in spots and decent wp/hardwood understory in several areas. A couple of acres at the north end are older and falling apart, but it is a very small piece along a private line.
20	4112 - Maple, Beech, Cherry Association	Medium Density	24.3	15			Mostly red maple stump sprouts with a couple tiny aspen clones. Had a considerable red oak volume in the timber sale.
22	4113 - R.Maple, Conifer	High Density Log	18.1	85	81-110		Has a couple of age classes of red maple. The large aspen cutting to the west probably came into this stand some. There is a jack pine piece on the peninsula all the way to south.



S
t
a
n
d

Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 059

Data updated before 10:00 AM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4119 - Mixed Northern Hardwoods	High Density Log	18.6	90	81-110	Stand was recently thinned with compartment to the west.
25	6122 - Black Spruce	High Density Pole	92.7	50		Low site index black spruce that filled in gradually.
26	4310 - Pine, Oak Mix	High Density Log	16.5	72	81-110	Becoming multi-storied. Not many gaps, but several age classes present. Big monarch red pine with some pole and log-sized regeneration. Heavy red maple understory with white pine coming in various ages classes. Small aspen clone at the north end of the island.
28	4119 - Mixed Northern Hardwoods	High Density Log	37.0	95	141-170	Island of northern hardwoods surrounded by treed bog. Has some hemlock and pine around the perimeter and more birch and black spruce to the north. Very open understory with little structure and knee high beech regen.
29	4133 - Aspen, Mixed Pine	High Density Log	8.1	85	141-170	
30	42320 - Upland Spruce	High Density Pole	261.8	50		Low site index black spruce. Likely inoperable even in the distant future.
31	4130 - Aspen	High Density Pole	233.9	44		Part of large aspen complex from research cutting in the 60's. Has varying quality based on topography. Areas of heavier red oak, beech and red maple poles on the south edge grading into balsam and white pine to the west toward swamp. Lower quality quaking aspen to the northwest. Rim of wp/rp/jp along the perimeter of the bog.



Stand	Cover Type	Acres	Gen Cmts:
1	3301 - Low Density Deciduous Tree	3.4	
3	3301 - Low Density Deciduous Tree	0.9	
6	2113 - Forage Crops	3.8	
7	3301 - Low Density Deciduous Tree	3.5	
8	6225 - Bog	3.7	
15	2113 - Forage Crops	5.2	
21	2113 - Forage Crops	8.3	
24	3301 - Low Density Deciduous Tree	2.7	
27	6224 - Treed Bog	188.5	Black spruce mixed with a little tamarack and white pine scattered through leatherleaf.

**7 – 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.

Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments
26	Unique Site - SCA	71059026	16.5	
28	Unique Site - SCA	71059028	37.0	
29	Unique Site - SCA	71059029	8.1	



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Data updated before 10:00 AM

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

Conservation Area	Type	Description
--------------------------	-------------	--------------------
