



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 103

Entry Year 2015

Acreage: 1,082

County Roscommon

Management Area: Upper Muskegon

Revision Date: 05/22/2013

Stand Examiner: Dale Ekdom

Legal Description:

T22N R02W Sections 9 & 16

Identified Planning Goals:

Compartment is in the Upper Muskegon Management Area. Broad management goals are to maintain current age and species diversity in a range of early and late succession ecosystems.

Soil and topography:

Topography is flat in the lower, wetter areas of the compartment and slightly rolling in the more upland portions of the compartment. Saugatuck, Rubicon, and Grayling sands are found on the upland areas and Rifle peat in the lowland areas.

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

This compartment is a solid block of state land except for a large private parcel along M-55 which has several seasonal and permanent residences and a 60 acre undeveloped parcel. There is also a 40 acre private parcel in the SW corner of Section 16 with a hunting cabin and a 45 acre private parcel in the SE ¼ of Section 9 which contains Backus Township Park. The compartment is mostly surrounded by state land except to the north- east of the compartment which is a large hunt club.

Unique Natural Features:

Records of Ram's Head lady slippers and Bald Eagle nesting sites within the compartment.

Archeological, Historical, and Cultural Features:

None noted or detected during fieldwork.

Special Management Designations or Considerations:

Backus Lake Flooding and Backus State Game Area (Section 9).

Watershed and Fisheries Considerations:

Backus Lake Flooding and the North Branch of Denton Creek.

Wildlife Habitat Considerations:

Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, turkeys, as well as other non-game species.

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 Pennsylvanian Saginaw and Grand River Formations. The Saginaw is quarried for brick making clay elsewhere in the State. Most of the good gravel pits are associated with upland areas. There are no uplands close by and potential appears to be limited. 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. The entire Compartment is leased for oil and gas development.

Vehicle Access:

Vehicle access to the drier parts of the compartment is excellent via M-55 and state forest two-tracks. Access to a maintained wildlife opening in Section 9 is controlled with a gate in order to protect the opening.

Survey Needs:

None necessary at this time.

Recreational Facilities and Opportunities:

No state recreational infrastructure is within the compartment but Backus Township Park is within the compartment boundaries. The compartment is heavily used for deer, bear, grouse, and turkey hunting.

Fire Protection:

There are no fire prone cover types within this compartment and there are lots of natural and man-made barriers to fire spread.

Additional Compartment Information:

No treatments have been proposed in this compartment for this year-of-entry due to the relatively young ages of the stands which are operable for commercial timber sales.

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**

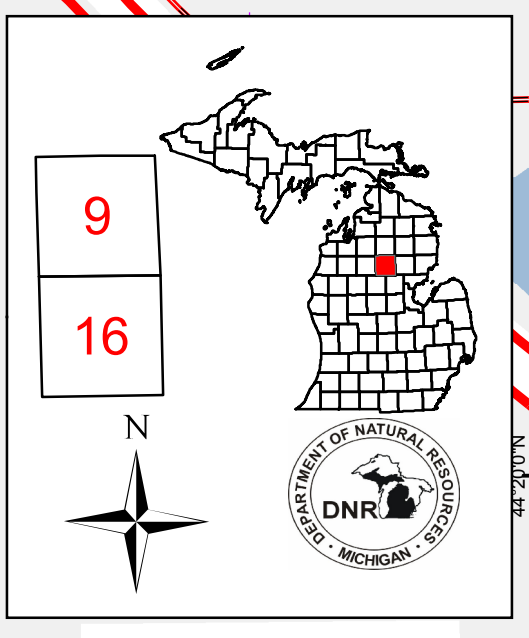
The following information is displayed, where pertinent, on the attached compartment maps:

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

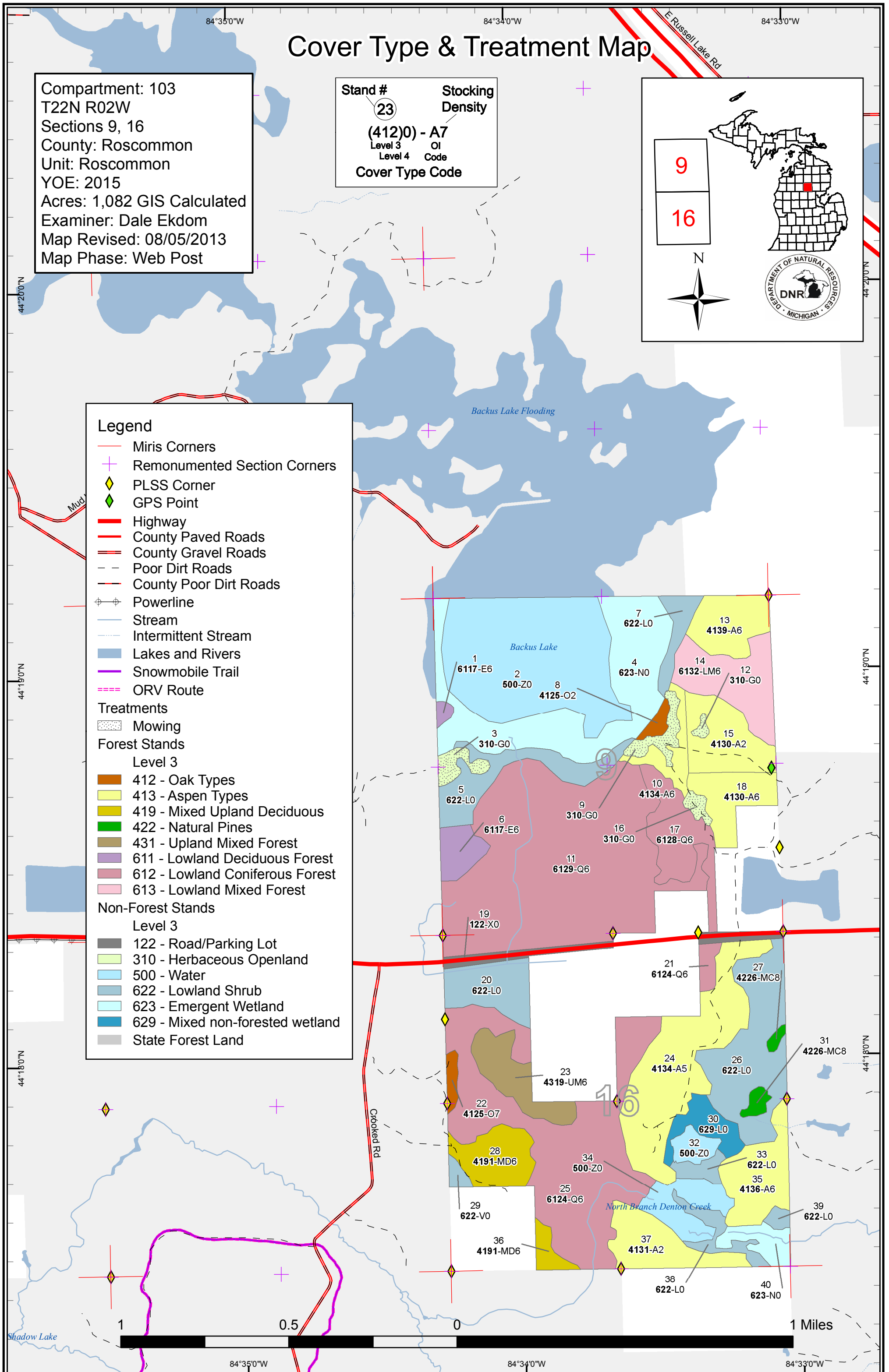
Cover Type & Treatment Map

Compartment: 103
 T22N R02W
 Sections 9, 16
 County: Roscommon
 Unit: Roscommon
 YOE: 2015
 Acres: 1,082 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 08/05/2013
 Map Phase: Web Post

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



- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - ◆ PLSS Corner
 - ◆ GPS Point
 - Highway
 - County Paved Roads
 - County Gravel Roads
 - - - Poor Dirt Roads
 - County Poor Dirt Roads
 - ⊕ Powerline
 - Stream
 - - - Intermittent Stream
 - Lakes and Rivers
 - Snowmobile Trail
 - ORV Route
- Treatments**
- ▨ Mowing
- Forest Stands**
- Level 3
- 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 629 - Mixed non-forested wetland
 - State Forest Land

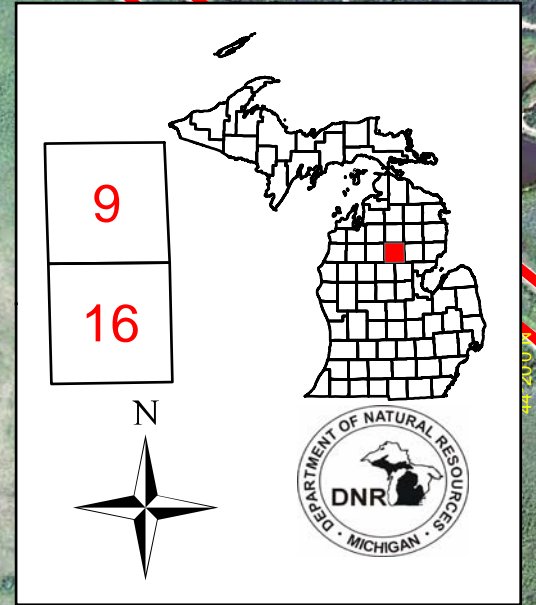


0 0.5 1 Miles

Stand Boundary Map

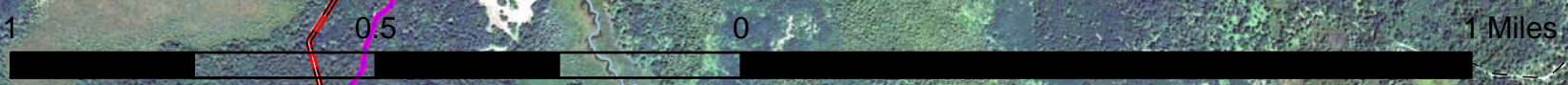
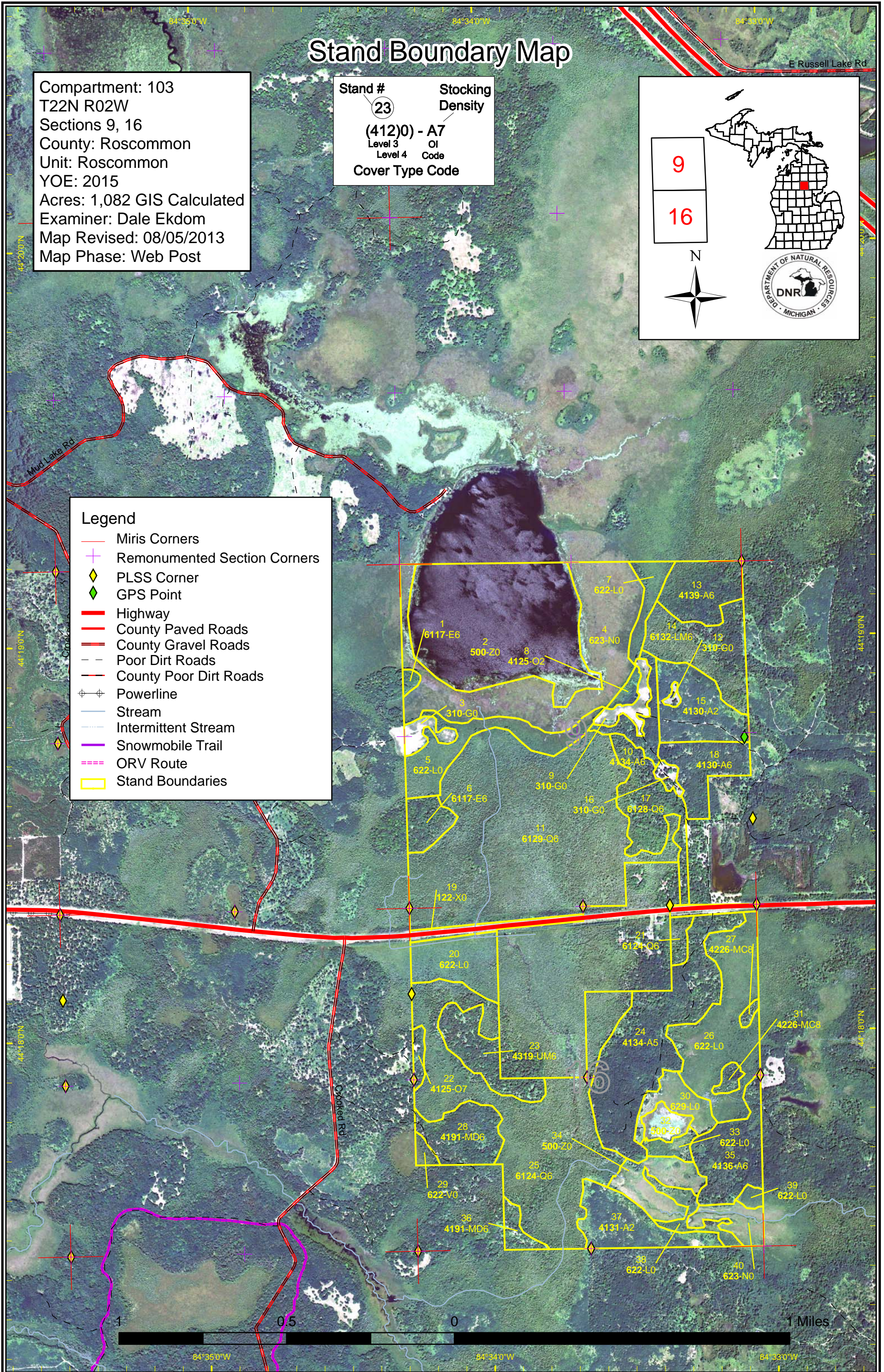
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Legend

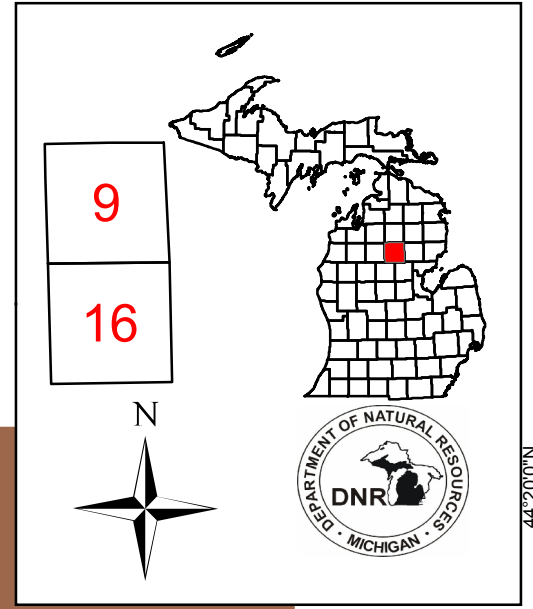
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- ⊕ Powerline
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- Intermittent Stream
- Snowmobile Trail
- ORV Route
- Stand Boundaries



Special Conservation Areas & Site Conditions Map

Compartment: 103
 T22N R02W
 Sections 9, 16
 County: Roscommon
 Unit: Roscommon
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Stand #
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Stocking Density
 (412)0 - A7
 Level 3 OI
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44°20'0"N

44°20'0"N

44°19'0"N

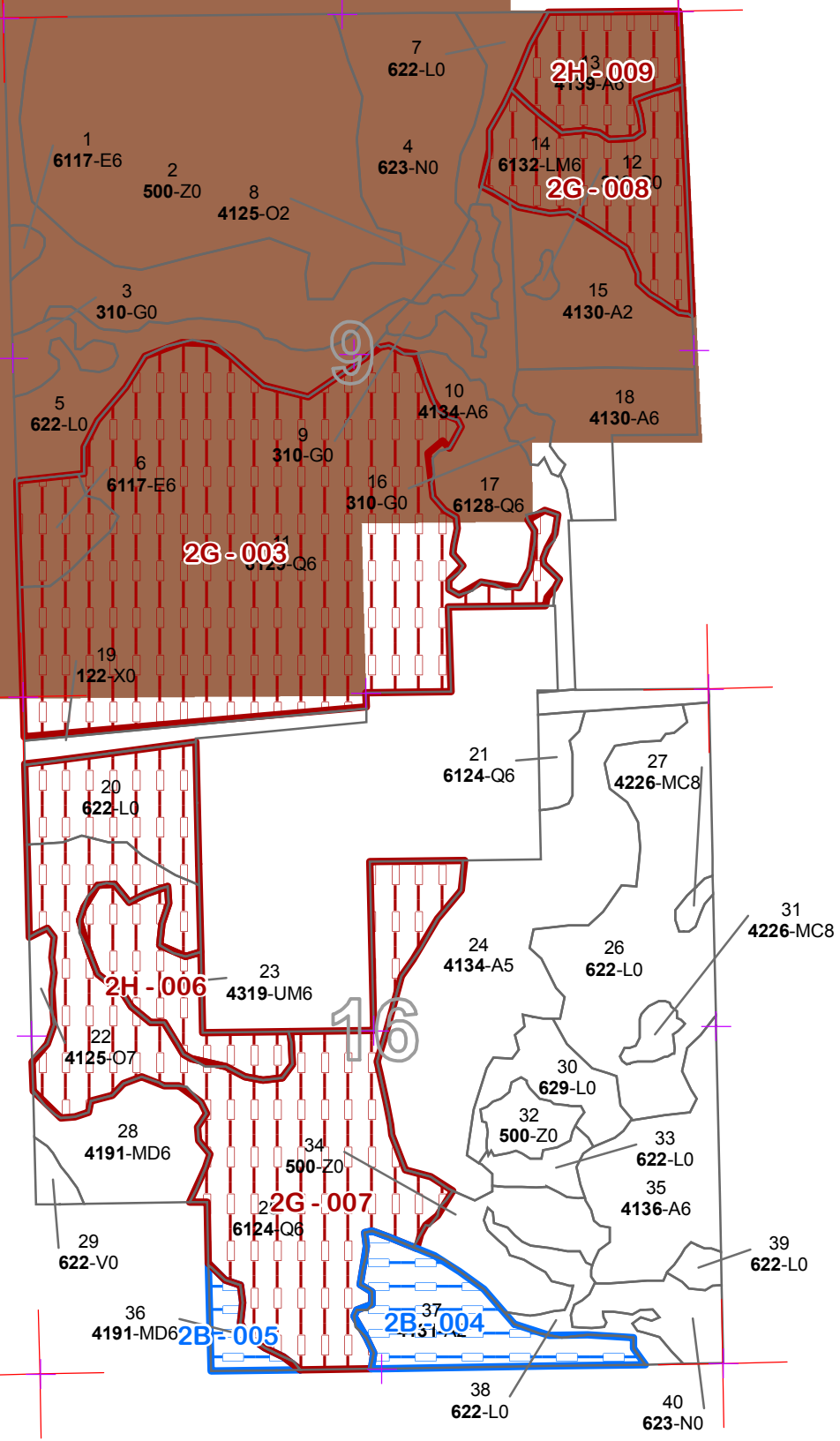
44°19'0"N

44°18'0"N

44°18'0"N

Legend

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Dedicated Special Conservation Areas
- Wildlife Management Areas



84°35'0"W

84°34'0"W

84°33'0"W

Report 1 – Total Acres by Cover Type and Age Class



	Age Class													Total	
	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 +		Uneven Age
Aspen	0	55	33	125	0	0	0	0	0	0	0	0	0	0	213
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Conifers	0	0	0	0	0	0	0	0	0	191	0	0	0	160	351
Lowland Deciduous	0	0	0	0	0	0	0	0	0	13	0	0	0	0	13
Lowland Mixed Forest	0	0	0	0	0	0	0	0	34	0	0	0	0	0	34
Lowland Shrub	146	0	0	0	0	0	0	0	0	0	0	0	0	0	146
Marsh	92	0	0	0	0	0	0	0	0	0	0	0	0	0	92
Mixed Upland Deciduous	0	0	0	0	22	0	0	0	6	0	0	0	0	0	28
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Oak	0	0	3	0	0	0	0	0	4	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	139	0	0	0	0	0	0	0	0	0	0	0	0	0	139
Total	409	55	36	125	44	0	0	0	44	204	0	0	0	165	1082



Report 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2015

Compartment 103
Total Compartment Acres: 1,082

Acres by Treatment Type

Commercial Harvest - 0	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 17	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	#Error	#####	#Error	#####	#Error	#####	
Total	0	0	0	0	0	0	0



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	NF_71103003- NonFor	5.8	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Opening Maintenance as specified by WD										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
9	NF_71103009- NonFor	7.3	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Opening Maintenance as specified by WD										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
12	NF_71103012- NonFor	1.2	310 - Herbaceous Openland				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Opening Maintenance as specified by WD										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
16	NF_71103016- NonFor	3.0	310 - Herbaceous Openland				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Opening Maintenance as specified by WD										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										

**Total Treatment
Acreage Proposed: 17.3**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

**Total Treatment
Acreage Proposed: 0**

Report 5 – Site Conditions

Roscommon Mgt. Unit

Compartment 103

Dale Ekdom : Examiner

Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	2H	2G	2B
	Available	Not Available					
212	212		Aspen	186			27
350	36	314	Lowland Conifers	36		314	
13	2	11	Lowland Deciduous	2		11	
34	34		Lowland Mixed Forest	34			
28	28		Mixed Upland Deciduous	22			6
5	5		Natural Mixed Pines	5			
7	7		Oak	7			
22		22	Upland Mixed Forest		21	0	
671	324	347	Total Forested Acres	292	21	325	32
	48%	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
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	200				
Comments:							
004	Available	2B: Unknown if access through adjacent landowner(s) is possible	27				
Comments:							
005	Available	2B: Unknown if access through adjacent landowner(s) is possible	6				
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit

Compartment 103

Dale Ekdorn : Examiner

Year of Entry 2015

006	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	22	
Comments:				
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	150	
Comments:				
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	35	
Comments:				
009	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	23	2B: Unknown if access through adjacent landowner(s) is possible
Comments:				



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 – 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.

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

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	1.8	92		RM/Aspen with WP and other conifers. marginally higher than adj. stands
6	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	11.1	92		RM/Aspen with WP and other conifers, marginally higher terrain than adj. stands
8	4125 - Black, N. Pin Oak	Medium Density	3.3	23		cut 1989, lots of oak regeneration with scattered oak SL and aspen poles
10	4134 - Aspen, Spruce/Fir	High Density Pole	11.0	23		nice regenerating stand of aspen (mostly BTA), scattered RM and BF
11	6129 - Mixed Coniferous Lowland Forest	High Density Pole	191.1	92		cedar under tamarack with scattered HW's, stand is wet and cut by at least 1 main drainage
13	4139 - Aspen, Mixed Deciduous	High Density Pole	23.1	34		non-commercially cut in 1978 by removing A/RM/WB
14	6132 - Mixed Lowland Forest with Cedar	High Density Pole	34.4	88		stand has variable terrain, upland islands are RM/SL, wetter areas are dead/dying BA mixed with NWC or NWC/BF, patches of ground which were heavy to BA are now "N" with scattered trees, upland areas with TA are not worth cutting - too hard to get between patches and way over-mature such that getting any regeneration would become an issue
15	4130 - Aspen	Medium Density	28.8	11		regenerating aspen stand with mix of BTA/QA and scattered RM, a few oak SL were left thru-out when cut
17	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	29.8	Uneven Age		stand has had HW's (A/RM/WB) removed in 1978 (non- commercially), terrain is variable and parts are operable but has some wetter pockets with Hemlock and Cedar interspersed with drier ground with WP and HW's, lots of wildlife activity evidenced in stand, higher at northern/eastern edge and grades into lower/wetter ground in the south/west edge of the stand, recommend holding 10 years and attempting to treat bulk of stand when HW's are more merchantable - cut with aspen to the east in 10 years?? - and then remove A/RM/BF/BS
18	4130 - Aspen	High Density Pole	21.6	25		nice regenerating stand or BTA/QA with scattered RM/BF
21	6124 - Lowland Spruce- Fir	High Density Pole	4.6	Uneven Age		wet cedar/swamp conifer stand with scattered HW's
22	4125 - Black, N. Pin Oak	Low Density Log	3.5	86	1-50	removed A/RM/WB non-commercially in 1977 and left O/P, fairly open stand with poor quality oak SL over-story, blends into grassy opening in 71105 to the west, lots of wildlife activity evidenced being next to the swamp and a grassy opening, treat with oak stand to the west in 71105 at some future YOE
23	4319 - Mixed Upland Forest	High Density Pole	21.7	42		upland island cut off by lowland and private property, habitat cut in 1970 with lots of stump sprout RM and BF saplings and poles, left oak for mast when cut and now oak is L-X size, some areas are heavy to JP or TA, stand should hold 10 years

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 103
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4134 - Aspen, Spruce/Fir	Medium Density Pole	71.8	39		nice stand of aspen (mix of BTA/QA), not ready to cut yet and should hold for 10 years no problem, cut by several drainages which are heavy to tag alder
25	6124 - Lowland Spruce- Fir	High Density Pole	125.7	Uneven Age		wet cedar / swamp conifer stand with scattered HW's
27	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	1.5	Uneven Age		somewhat upland island with pine logs and XL's and HW poles underneath, no access
28	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	22.3	44	111-140	variable stand with A/RM/O poles/SL, parts are heavy to R/W/J pine, parts are heavy to A/RM poles, parts are heavy to o/RM SL, scattered R/W pine XL's also, stand is rolling upland terrain with numerous small wet potholes and lower drainages, aspen is doing OK and most of the u.s. is 2"-4" struff, should hold 10 years no problem, look at treating next OE
31	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	3.2	Uneven Age		somewhat upland island surrounded by wet terrain, pine L and XL's with HW poles coming in underneath
35	4136 - Aspen, Mixed Conifer	High Density Pole	29.6	39		mostly upland but has numerous weer potholes and drainages with tag alder, not ready to cut yet and should hold 10 years no problem, edges are TA/BF and the middle is BTA
36	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	5.8	87		no access except thru private property or swamp, similar to the stand to the north of the private 40 Sec 16 SWSW
37	4131 - Aspen, Oak	Medium Density	26.6	15		stand cut in 1997 with aspen stands to the south in 71119



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	50 - Water	111.9	N/A	Unspecified	Backus Lake Flooding
3	3102 - Grass	5.8	Yes	High (NonForested)	Maintained Wildlife Opening
4	623 - Emergent Wetland	81.2	N/A	Unspecified	
5	622 - Lowland Shrub	28.0	N/A	Unspecified	
7	622 - Lowland Shrub	9.7	N/A	Unspecified	
9	3102 - Grass	7.3	Yes	Medium (NonForested)	Maintained Wildlife Opening
12	310 - Herbaceous Openland	1.2	N/A	Unspecified	
16	310 - Herbaceous Openland	3.0	N/A	Unspecified	
19	122 - Road/Parking Lot	12.6	N/A	Unspecified	
20	622 - Lowland Shrub	23.6	N/A	Unspecified	
26	622 - Lowland Shrub	55.0	N/A	Unspecified	
29	6225 - Bog	2.7	No	Unspecified	
30	629 - Mixed non-forested wetland	13.1	N/A	Unspecified	
32	50 - Water	7.0	N/A	Unspecified	
33	622 - Lowland Shrub	5.4	N/A	Unspecified	
34	50 - Water	19.7	No	Unspecified	
38	622 - Lowland Shrub	8.9	N/A	Unspecified	
39	622 - Lowland Shrub	2.5	N/A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
40	623 - Emergent Wetland	10.9	N/A	Unspecified	