



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 131

Entry Year 2016

Acreage: 1,279

County Roscommon

Management Area: Ogemaw Hills

Revision Date: 06/20/2014

Stand Examiner: Ben Wiese

Legal Description:

T22N R01W, Sec. 25 & 26

Identified Planning Goals:

This compartment is part of the Ogemaw Hills management area. Vegetation management in the Ogemaw Hills 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 will focus on balancing aspen age classes.

Soil and topography:

The soils in this compartment are a combination of Grayling and Graycalm sands. The topography is low to steep ice contact ridges and mostly dry kettle lakes.

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

The east side of the compartment is bordered by privately owned land. The rest of the compartment is bordered by state-owned land. The land is primarily used for ATV/Orv operators and hunters.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None noted.

Watershed and Fisheries Considerations:

None noted.

Wildlife Habitat Considerations:

None noted.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash sand and gravel. The glacial drift thickness varies 400 and 800 feet. Beneath the glacial drift are the Mississippian Bayport Limestone and Michigan Formation. The Michigan is quarried for gypsum elsewhere in the state. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is located in section 24 and potential appears to be good. The abandoned Denton Creek Field is located six miles to the west. The field produced nearly 60,000 BO from three Devonian formations. The compartment is currently leased for oil and gas development.

Vehicle Access:

Vehicle access is good, there are many poor quality forest roads throughout the compartment.

Survey Needs:

No surveys are needed at this time

Recreational Facilities and Opportunities:

This compartment contains portions of the St. Helen ORV route and 50" St. Helen ORV trail which are heavily used in the riding seasons. Hunting of (deer, small game, upland birds) dispersed camping and snowmobiling is also very common in this compartment. The ORV route recently passed will designated Dunham Lake Road as part of the system. Assure signs are placed on the trail warning users of logging activity. Focus any retention pockets or clusters along or

near trail. All sign posts shall be protected. Ensure logging activity does not obliterate the 50" ATV trail. Protected and maintained non-merchantable understory adjacent to trail to promote narrow use. All stumps within 20 feet of the trails shall be Flush-Cut to ensure stumps do not result in unsafe conditions. For confidence markers attached to trees cut high to retain presence of signs.

Fire Protection:

Compartment is mostly aspen and oak. Fire protection concerns are minimal.

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 & Treatment Map

Compartment: 131
 T22N R01W
 Sections: 25, 26
 County: Roscommon
 Unit: Roscommon
 Management Area: Ogemaw Hills
 YOE: 2016
 Acres: 1,279 GIS Calculated
 Examiner: Ben Wiese
 Map Revised: 08/08/2014
 Map Phase: Web Post

26 25

N

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

Legend

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- MCCCT Trails
- ORV Trails
- ORV Routes
- Hiking Trail
- ORV Trail
- ORV Route
- MCCCT Trail

Regen Legend

- Natural
- Planted

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Treatments w/ Site Condition

Forest Stands

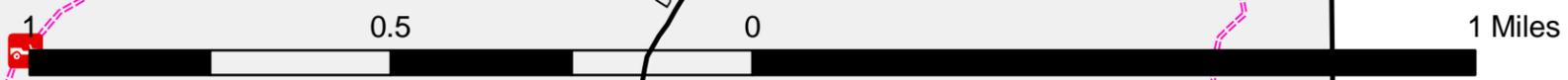
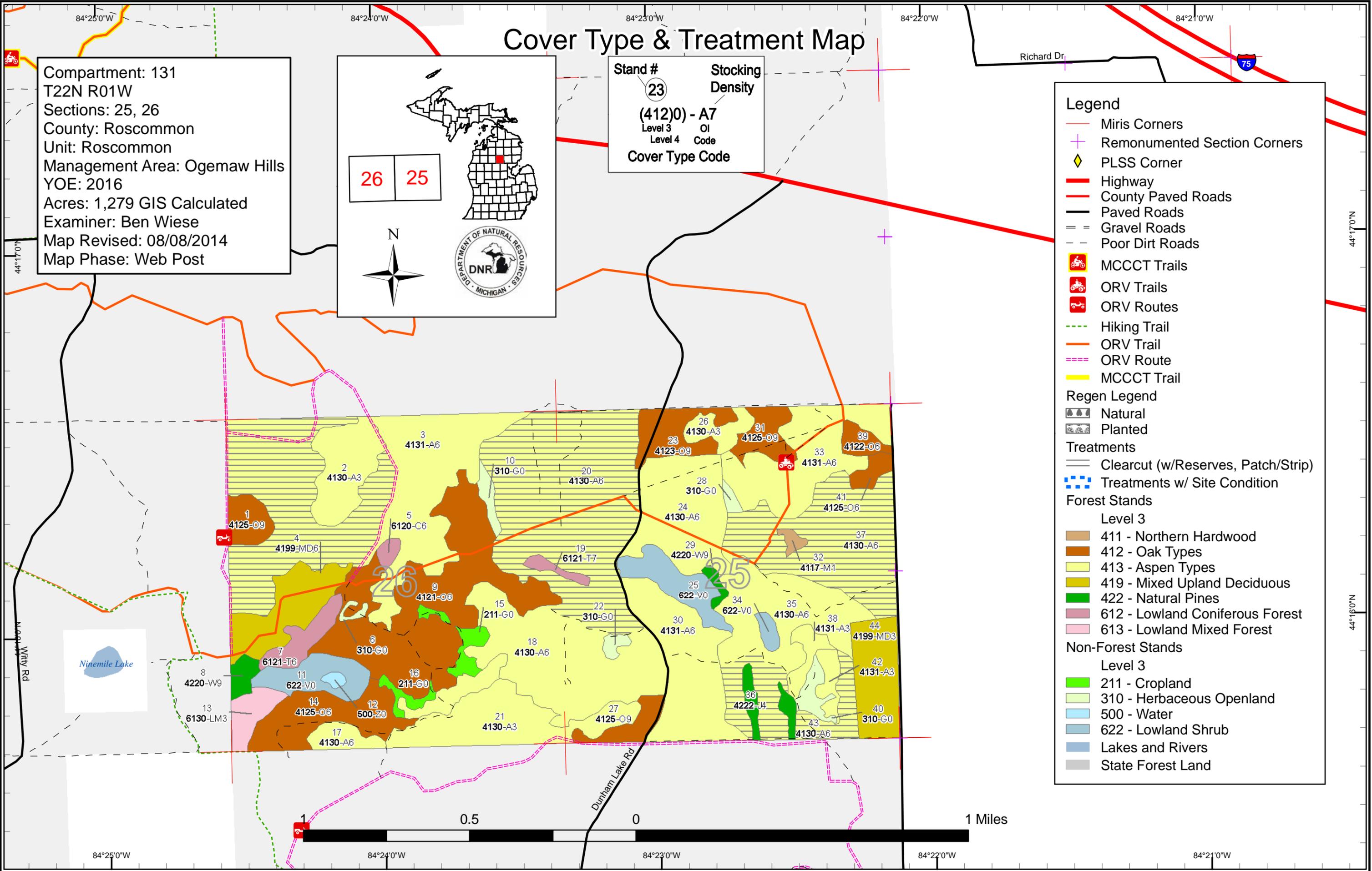
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 211 - Cropland
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes and Rivers
- State Forest Land



84°25'0"W 84°24'0"W 84°23'0"W 84°22'0"W 84°21'0"W

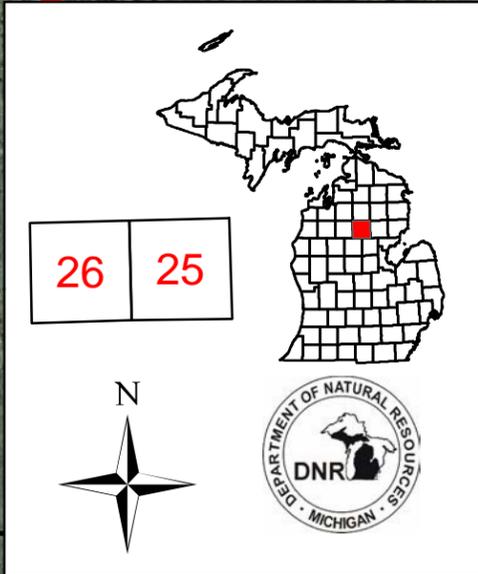
44°17'0"N

44°17'0"N

44°16'0"N

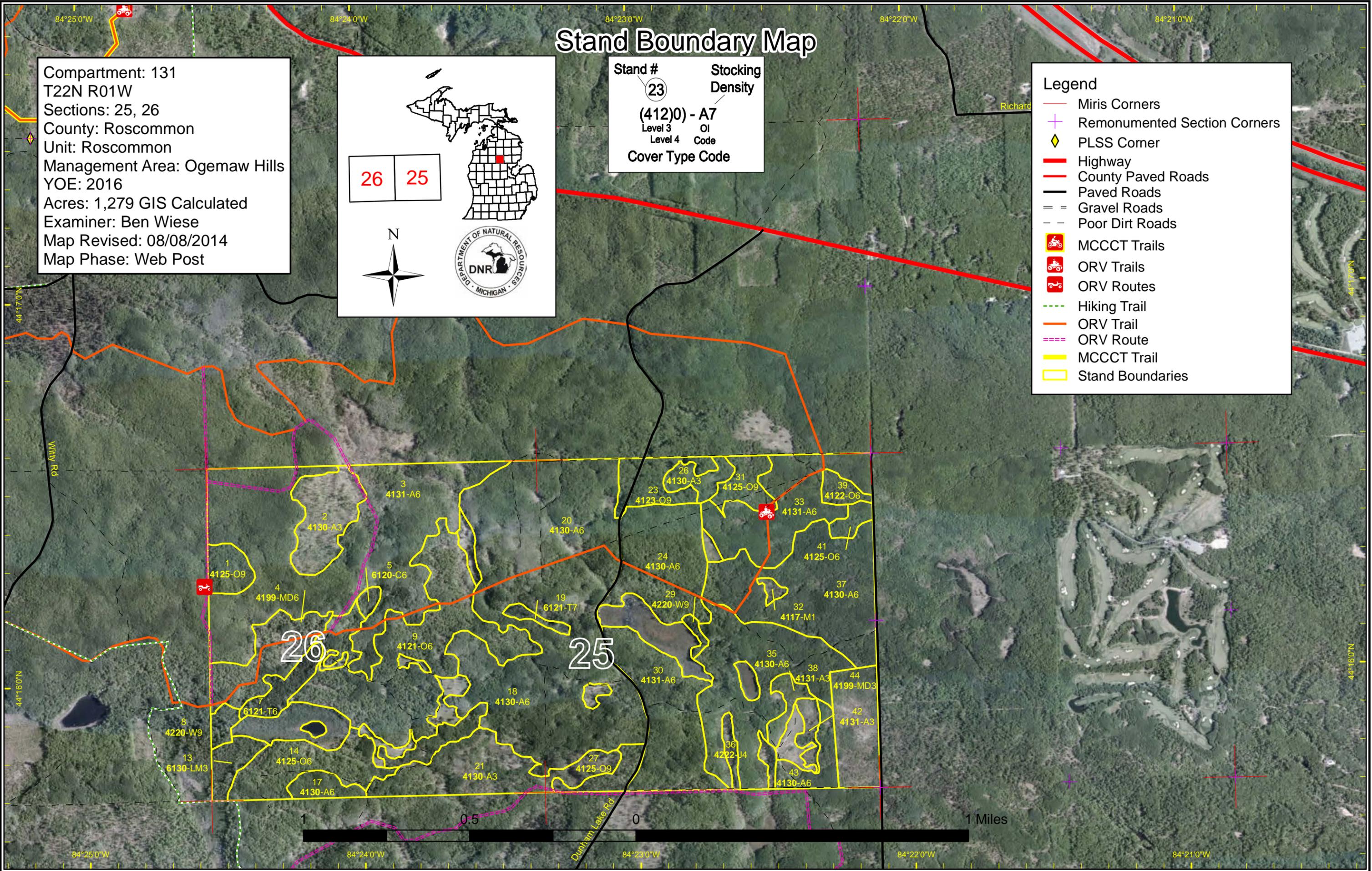
Stand Boundary Map

Compartment: 131
 T22N R01W
 Sections: 25, 26
 County: Roscommon
 Unit: Roscommon
 Management Area: Ogemaw Hills
 YOE: 2016
 Acres: 1,279 GIS Calculated
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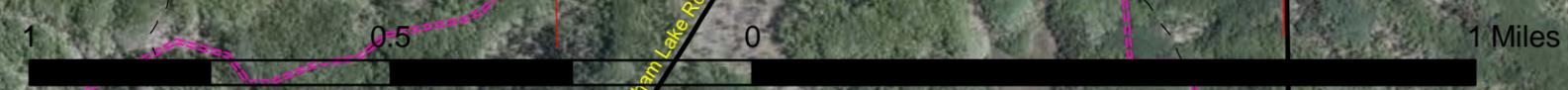
Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - ◆ PLSS Corner
 - Highway
 - County Paved Roads
 - Paved Roads
 - = Gravel Roads
 - - Poor Dirt Roads
 - 🚲 MCCCT Trails
 - 🚲 ORV Trails
 - 🚲 ORV Routes
 - - - Hiking Trail
 - ORV Trail
 - - - ORV Route
 - MCCCT Trail
 - Stand Boundaries



26

25



84°25'0"W 84°24'0"W 84°23'0"W 84°22'0"W 84°21'0"W

44°17'0"N 44°16'0"N

Witty Rd

Dunham Lake Rd

Richard

41175N

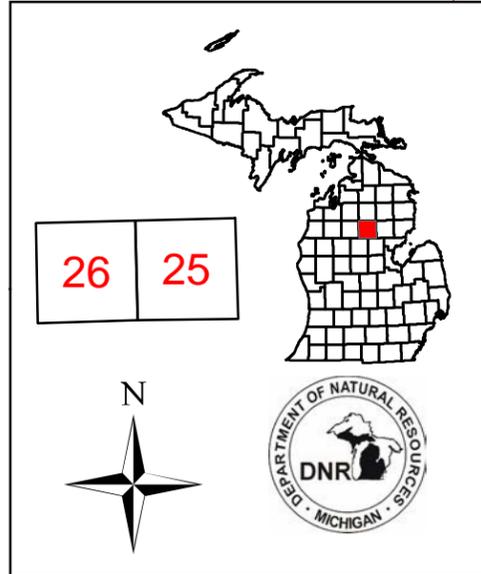
41175W

41175E

41175S

Special Conservation Areas & Site Conditions Map

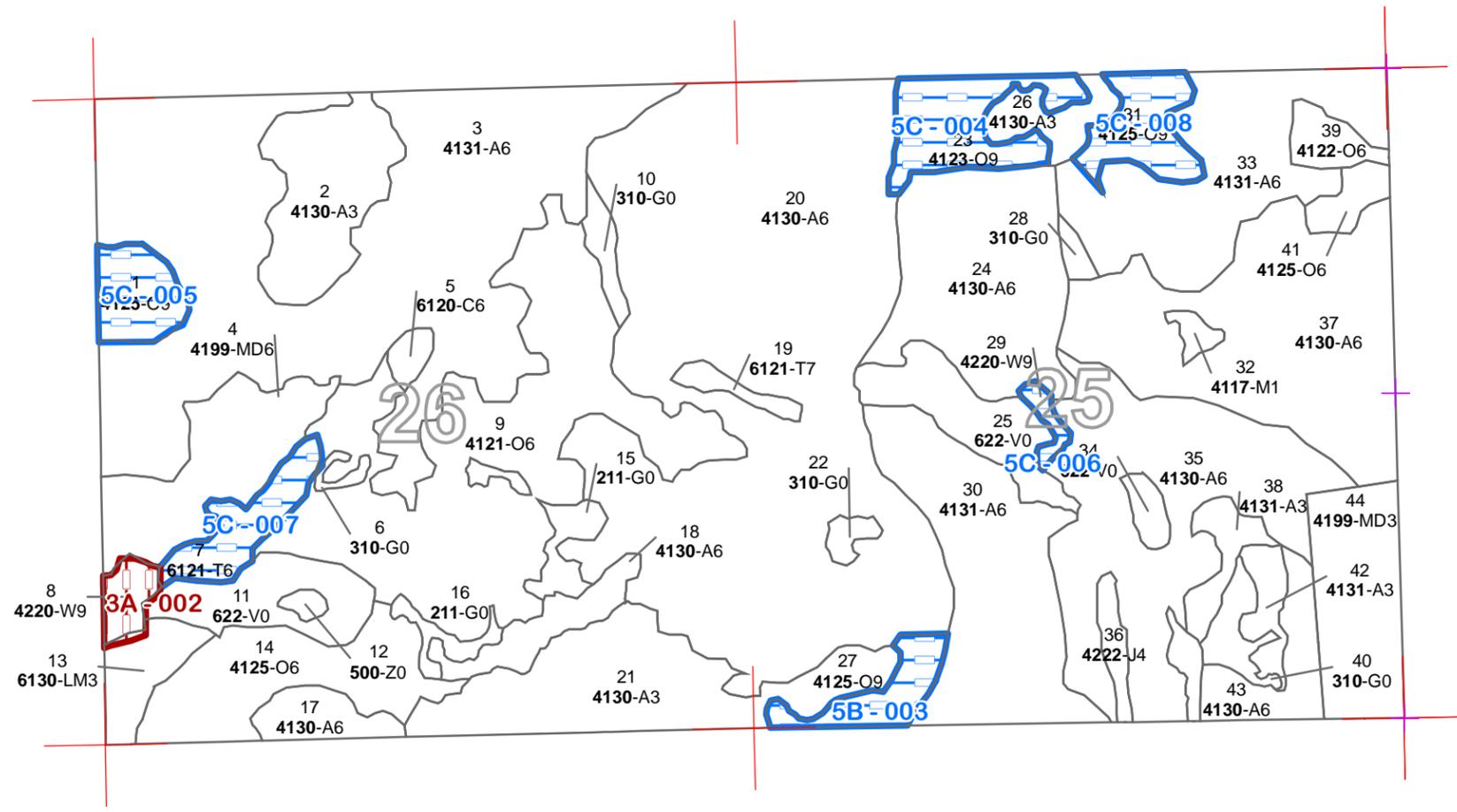
Compartment: 131
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Miris Corners
- + Remonumented Section Corners
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Stand Boundaries



44°17'0"N

44°16'0"N

44°17'0"N

44°16'0"N

84°25'0"W

84°24'0"W

84°23'0"W

84°22'0"W

84°21'0"W

84°25'0"W

84°24'0"W

84°23'0"W

84°22'0"W

84°21'0"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	80	7	17	238	545	0	0	0	0	0	0	0	0	0	888
Bog	42	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Cedar	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Cropland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Jack Pine	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	30	0	32	0	0	0	0	0	0	0	0	0	62
Northern Hardwood	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Oak	0	0	0	0	156	0	0	0	13	41	0	0	0	0	209
Tamarack	0	0	0	0	0	12	0	4	0	0	0	0	0	0	16
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	2	0	0	0	0	5	0	0	8
Total	152	7	50	238	751	0	12	2	20	41	0	0	5	0	1279



Report 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2016

Compartment 131
Total Compartment Acres: 1,279

Acres by Treatment Type

Commercial Harvest - 375 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	375	0	0	0	0	0	0	375
Total	375	0	0	0	0	0	0	375



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	71131003-Cut	103.7	4131 - Aspen, Oak	High Density Pole	41	111-140	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal

Prescription Clearcut to regenerate aspen and to balance age classes. Leave one large slash pile per two acres and two drumming logs per one acre.
Specs:

Other Leave retention in islands or pockets that are representative of the pre-harvest stand conditions. The retention should account for 3-5% of the acres
Comments: being harvested. The drumming logs should be at least eight inches in diameter.

Next
Steps:

Proposed
Start Date: 10/01/2015

20	71131020-Cut	151.4	4130 - Aspen	High Density Pole	39	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
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Prescription Clearcut to regenerate aspen and to balance age classes. Leave one large slash pile per two acres and two drumming logs per one acre.
Specs:

Other Leave retention in islands or pockets that are representative of the pre-harvest stand conditions. The retention should account for 3-5% of the acres
Comments: being harvested. The drumming logs should be at least eight inches in diameter.

Next
Steps:

Proposed
Start Date: 10/01/2015

35	71131035- Cut_small	22.0	4130 - Aspen	High Density Pole	43	111-140	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
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Prescription Clearcut to regenerate aspen and to balance age classes. Leave one large slash pile per two acres and two drumming logs per one acre.
Specs:

Other Retention should be left in islands or pockets that are representative of the pre-harvest stand conditions. The retention should account for 3-5% of
Comments: the sale acres. The drumming logs should be at least eight inches in diameter.

Next
Steps:

Proposed
Start Date: 10/01/2015

37	71131037-Cut	83.4	4130 - Aspen	High Density Pole	42	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
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Prescription Clearcut to regenerate aspen. Leave retention pockets along the east edge adjacent to the private property. Leave two ruffed grouse drumming
Specs: logs per acre.

Other Leave one large pile of slash per two acres for wildlife. The retention should account for 3-5% of the the stand area and should block the view of the
Comments: clearcut from the adjacent cabins. Use slash from the harvest to block any illegal ATV trails into the stand. The drumming logs should be at least eight inches in diameter.

Next
Steps:

Proposed
Start Date: 10/01/2015

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43 71131043-Cut	14.0	4130 - Aspen	High Density Pole	40	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal

Prescription Clearcut to regenerate aspen and to balance age classes. Leave one large slash pile per two acres and two drumming logs per one acre.
Specs:

Other Retention should be left in islands or pockets that are representative of the pre-harvest stand conditions. The retention should account for 3-5% of
Comments: the sale acres. The drumming logs should be at least eight inches in diameter.

Next
Steps:

Proposed
Start Date: 10/01/2015

Total Treatment
Acreage Proposed: 374.5

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

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

**Total Treatment
Acreage Proposed: 0.0**

Report 5 – Site Conditions

Roscommon Mgt. Unit

Ben Wiese : Examiner

Compartment 131

Year of Entry 2016

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions			
				No	5C	5B	3A
887	887		Aspen	887			
3	3		Cedar	3			
8	8		Jack Pine	8			
11	11	0	Lowland Mixed Forest	11			0
62	62		Mixed Upland Deciduous	62			
2	2		Northern Hardwood	2			
209	209		Oak	155	44	10	
16	16		Tamarack	4	12		
8	2	5	White Pine		2		5
1,206	1,200	6	Total Forested Acres	1,132	58	10	6
	100%	0%	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
002	Not Available	3A: Potential old growth / biodiversity	6				
Comments:							
003	Available	5B: Maintain for regeneration purposes	10				
Comments:							
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19				
Comments:							
This stand was thinned in the previous entry.							

Report 5 – Site Conditions

Roscommon Mgt. Unit

Ben Wiese : Examiner

Compartment 131

Year of Entry 2016

005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11
Comments:			
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3
Comments:			
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13
Comments:			
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13
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
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Comments				
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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
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4125 - Black, N. Pin Oak	High Density Log	11.2	96	111-140	Small, mature black/red oak stand of moderate quality. This stand seems to have had no previous management and is surrounded by pole sized oak and aspen stands. It is an island of mature trees and is good for diversity.
2	4130 - Aspen	High Density Sapling	30.2	7		This stand was regenerated in 2007, the white oak canopy trees were left. It has regenerated fully but has converted to aspen, the previous canopy cover was oak.
3	4131 - Aspen, Oak	High Density Pole	181.8	41	111-140	This is a large aspen stand mixed with oak in pockets and individually.
4	4199 - Other Mixed Upland Deciduous	High Density Pole	32.0	41	51-80	Pole sized oak mixed with cherry and aspen. The density is variable, with cherry scattered unevenly and aspen clones throughout.
5	6120 - Lowland Cedar	High Density Pole	2.9	80		
7	6121 - Tamarack	High Density Pole	12.5	60		
8	42200 - Natural White Pine	High Density Log	5.2	121	51-80	Mature white pine stand with a dense understory. Overstory density is variable.
9	4121 - Oak, Aspen	High Density Pole	108.6	42	51-80	Pole sized upland oak mixed with aspen.
13	6130 - Fir, Aspen, Maple	High Density Sapling	11.0	40	51-80	Lowland stand mostly balsam fir mixed with maple and aspen.
14	4125 - Black, N. Pin Oak	High Density Pole	35.1	42	81-110	Pole sized oak mixed with aspen and red maple.
17	4130 - Aspen	High Density Pole	8.9	41	141-170	Good quality, well stocked, bigtooth aspen stand.
18	4130 - Aspen	High Density Pole	11.2	41	51-80	Pole sized quaking aspen mixed with oak and cherry.
19	6121 - Tamarack	Low Density Log	3.7	85		Small lowland stand of tamarack and alder.
20	4130 - Aspen	High Density Pole	238.2	39	81-110	Pole sized aspen with oak mixed in. There is distribution variability based on the soils.
21	4130 - Aspen	High Density Sapling	49.8	3		Most of the stand was harvested in 2011 as part of the Wildfire Aspen timber sale. It has regenerated well to a mix of aspen, cherry and oak.
23	4123 - Red Oak	High Density Log	19.5	97	81-110	Red oak stand that was thinned in the winter of 2010-2011. The red maple understory is full and is a mixture of stump sprouts and single stem trees.

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 131
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4130 - Aspen	High Density Pole	53.9	41	111-140	polesized bigtooth aspen stand mixed with quaking aspen, oak and red maple.
26	4130 - Aspen	High Density Sapling	9.6	28	81-110	Aspen stand that was regenerated in 1985-1986. Full red maple understory.
27	4125 - Black, N. Pin Oak	High Density Log	9.9	95	51-80	Mature oak and jack pine stand. A fire burned the understory in 1998. The stand is naturally regenerating to oak. The understory density is variable and is browsed in places.
29	42200 - Natural White Pine	High Density Log	2.5	75	111-140	Small, natural white pine stand bordering a bog.
30	4131 - Aspen, Oak	High Density Pole	57.5	40	81-110	
31	4125 - Black, N. Pin Oak	High Density Log	13.1	84	81-110	Mature oak stand mixed with some bigtooth aspen. There is a moderate understory with dense red maple in places.
32	4117 - Mixed N. Hardwood - Pine	Low Density Sapling	2.3	25	1-50	This stand is a small depression that holds cold air.
33	4131 - Aspen, Oak	High Density Pole	56.3	40		The sight quality is slightly better in this stand. It is mostly bigtooth aspen with a mix of oak and red maple.
35	4130 - Aspen	High Density Pole	78.5	43	111-140	Aspen stand with pockets of oak and a red maple understory.
36	42220 - Natural Jack Pine	Low Density Pole	7.5	44	1-50	Small valley with natural jack pine.
37	4130 - Aspen	High Density Pole	83.4	42	81-110	Pole sized quaking aspen with a mix of oak, red maple and cherry. Hypoxylon is present.
38	4131 - Aspen, Oak	High Density Sapling	7.5	26		Sapling size aspen and oak.
39	4122 - Oak, Pine	High Density Pole	6.4	41	51-80	Small oak and white pine stand, much of the white pine is open grown. Dispersed camp sight.
41	4125 - Black, N. Pin Oak	High Density Pole	5.5	42	111-140	Oak mixed with aspen and maple, pole sized overall. The oak is currently dominating the red maple.
42	4131 - Aspen, Oak	High Density Sapling	6.7	12		Sapling aspen and oak stand. The aspen is in pockets.
43	4130 - Aspen	High Density Pole	14.0	40	81-110	Pole size aspen stand.
44	4199 - Other Mixed Upland Deciduous	High Density Sapling	30.3	20		Mixed upland, sapling, stand with oak and aspen. Oak from stump sprouts and single stem.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	3102 - Grass	1.5	Yes	Unspecified	
10	3102 - Grass	4.4	No	Unspecified	
11	6225 - Bog	18.9	No	Unspecified	
12	50 - Water	1.6	No	Unspecified	
15	2113 - Forage Crops	7.4	Yes	Low	
16	2113 - Forage Crops	3.9	Yes	Low	
22	3102 - Grass	2.6	No	Unspecified	
25	6225 - Bog	19.7	No	Unspecified	
28	3102 - Grass	2.1	No	Unspecified	
34	6225 - Bog	3.5	No	Unspecified	
40	3102 - Grass	6.5	No	Unspecified	