



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 35

Entry Year 2016

Acreage: 1,723

County Roscommon

Management Area: AuSable Outwash

Revision Date: 07/01/2014

Stand Examiner: Jason Lewicki

Legal Description:

T24N, R02W section 19, 29 and 30

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:

The topography is generally flat to gently rolling.

Soils on the uplands consist of Greycalm, Croswell and Klacking sands. The lowlands are dominated by Tawas-Lupton, Deford, and AuSable Mucks.

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

Ownership within the compartment is a mix of private ownership and state ownership. The surrounding township is made up of large blocks of state land with mixed private inholdings.

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 known at this time.

Watershed and Fisheries Considerations:

Robinson creek flooding is found within section 29. Robinson Creek flows north through the compartment into the South Branch of the AuSable River.

Wildlife Habitat Considerations:

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 200 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is in Section 18 and potential is good on the upland areas. St. Helen Field lies four miles to the east. 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 in the compartment is currently leased.

Vehicle Access:

Vehicle access is excellent through this compartment due to good county roads and forest two tracks.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

No Designated Trails are present within the compartment. However dispersed recreation is popular throughout the compartment from the access to water resources and varying cover types offering hunting and gathering (Mushrooms/Berries) opportunities. Consider visual impact for I-75 corridor users.

Fire Protection:

Compartment is mostly oak, aspen and lowland types with some small stands of jackpine. Access to high ground is good with many roads. Low fire protection concerns in this compartment.

Additional Compartment Information:

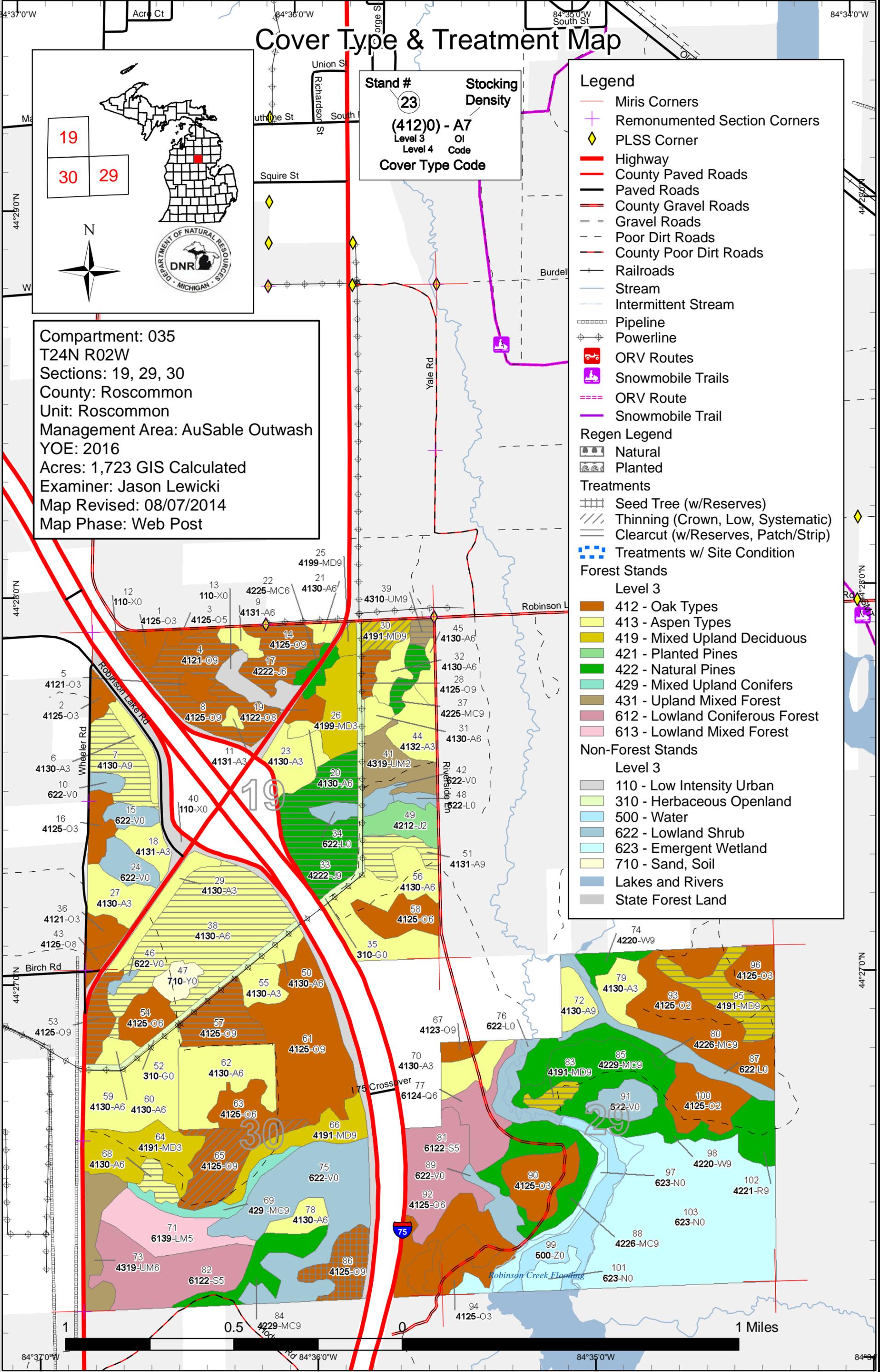
The following reports from the Inventory are attached:

- 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: 035
 T24N R02W
 Sections: 19, 29, 30
 County: Roscommon
 Unit: Roscommon
 Management Area: AuSable Outwash
 YOE: 2016
 Acres: 1,723 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 08/07/2014
 Map Phase: Web Post

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Railroads
- Stream
- Intermittent Stream
- Pipeline
- Powerline
- ORV Routes
- Snowmobile Trails
- ORV Route
- Snowmobile Trail

Regen Legend

- Natural
- Planted

Treatments

- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves, Patch/Strip)
- Treatments w/ Site Condition

Forest Stands

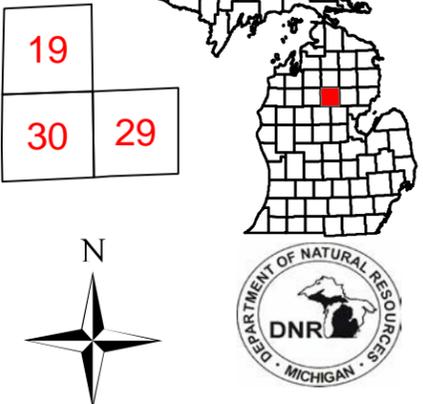
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

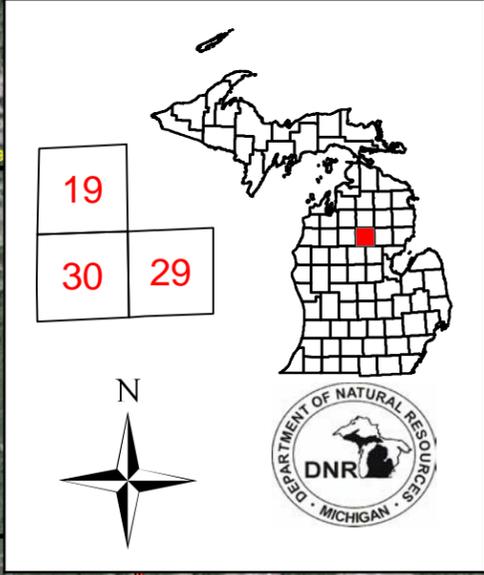
Level 3

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil
- Lakes and Rivers
- State Forest Land



Map coordinates: 84°37'0"W, 84°36'0"W, 84°35'0"W, 84°34'0"W, 44°29'0"N, 44°28'0"N, 44°27'0"N, 44°26'0"N

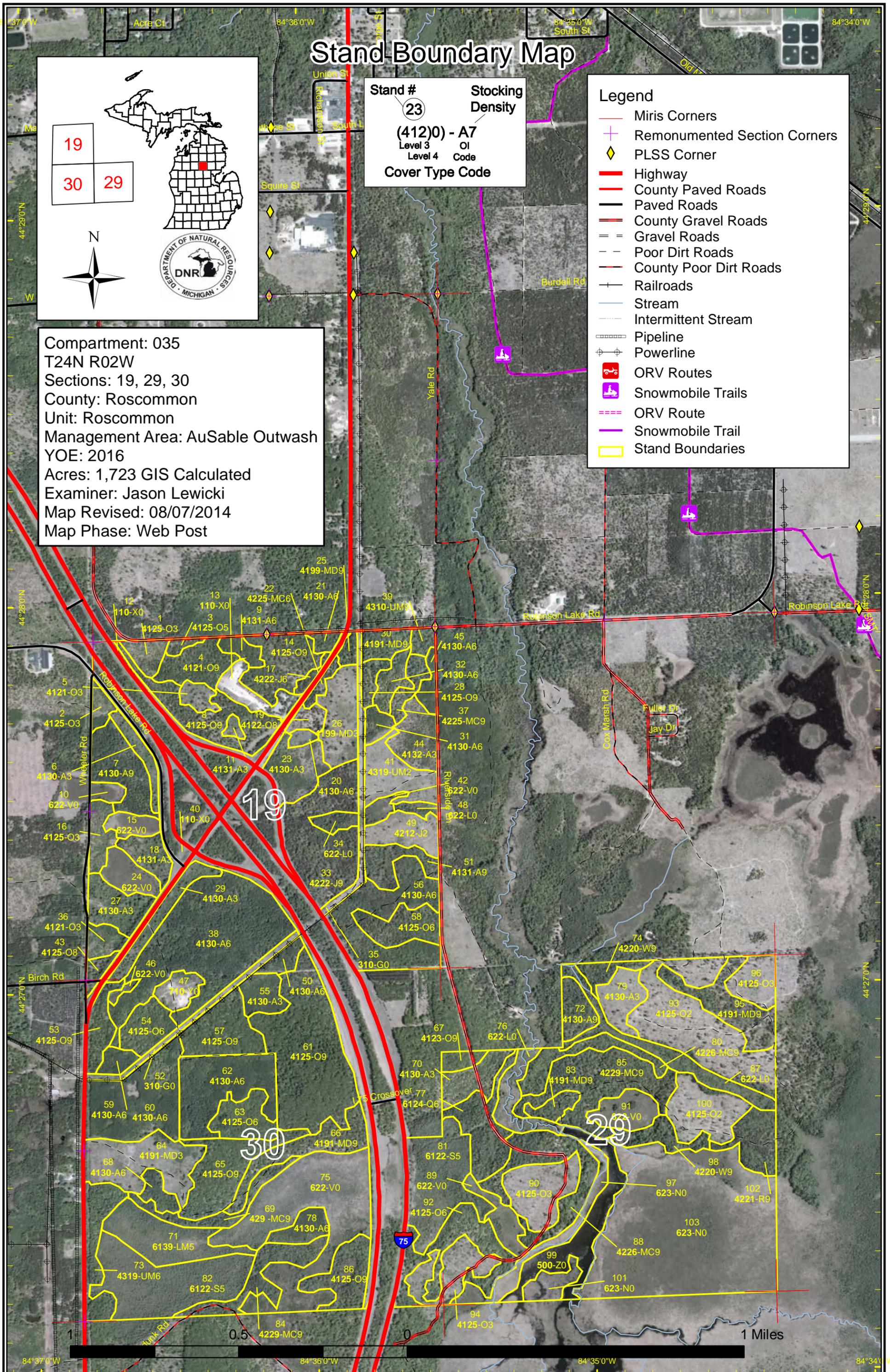
Stand Boundary Map



Stand # **23**
(4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

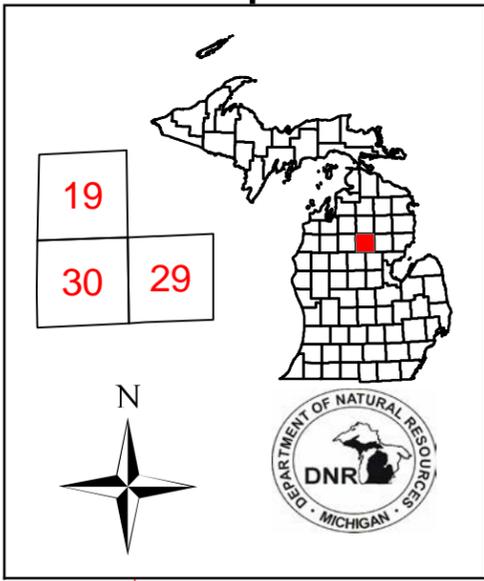
- Legend**
- Miris Corners
 - Remonumented Section Corners
 - PLSS Corner
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
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 - Stand Boundaries

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1 Miles

Special Conservation Areas & Site Conditions Map

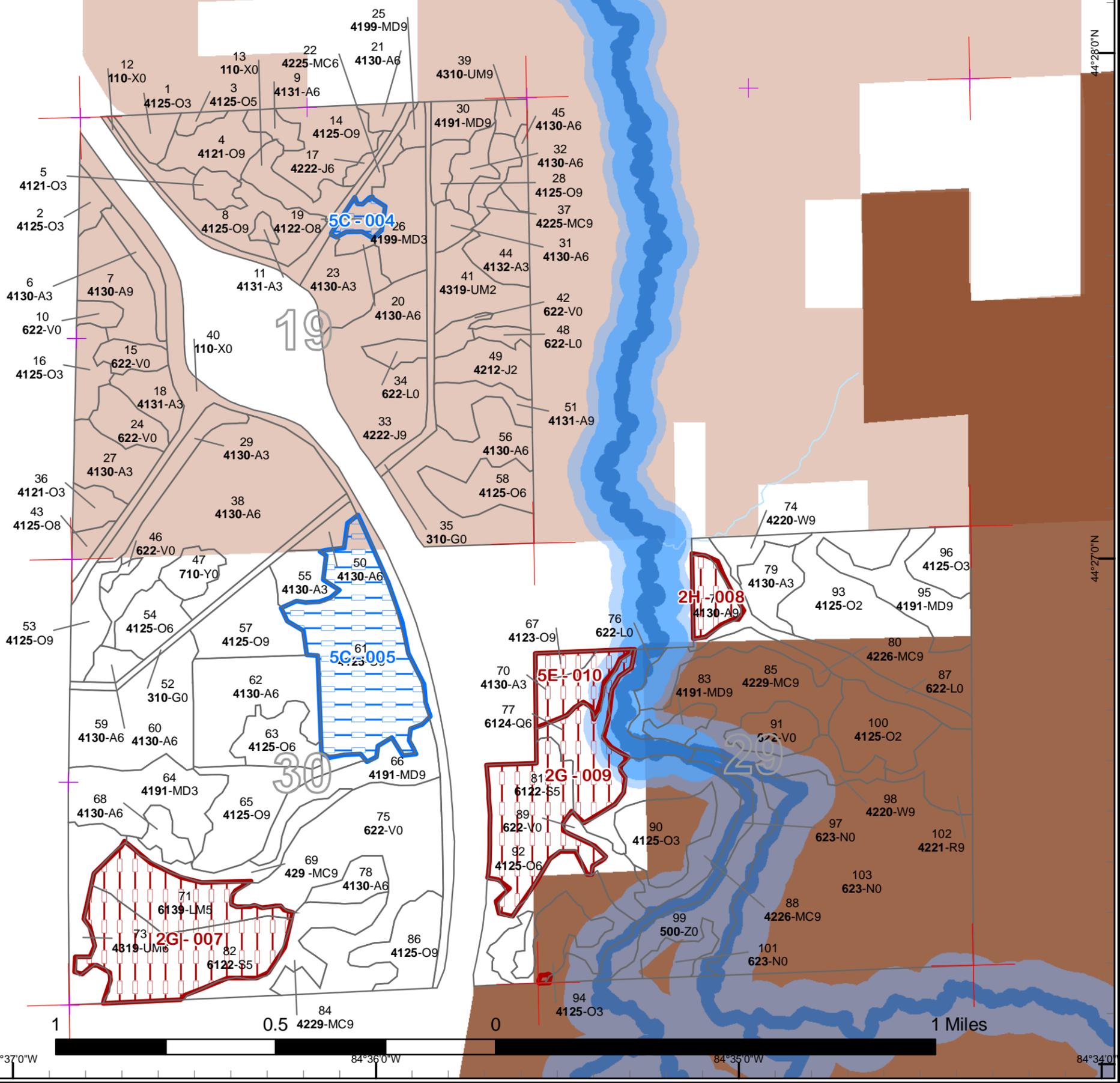


Stand #
23
(412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Stand Boundaries
- Miris Corners
- Remonumented Section Corners
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Special Conservation Areas**
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- Research, Development, and Military Lands

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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	55	51	73	0	157	6	20	0	11	9	0	0	0	0	383
Bog	114	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Jack Pine	13	0	0	0	0	0	2	43	0	0	0	0	0	0	58
Lowland Conifers	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
Lowland Mixed Forest	0	0	0	0	0	0	0	26	0	0	0	0	0	0	26
Lowland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Spruce/Fir	0	0	0	0	0	0	46	36	0	0	0	0	0	0	82
Marsh	160	0	0	0	0	0	0	0	0	0	0	0	0	0	160
Mixed Upland Deciduous	49	0	0	0	0	0	0	0	0	56	0	0	0	0	105
Natural Mixed Pines	0	0	0	0	3	0	81	20	0	0	0	0	0	0	104
Oak	128	25	26	0	42	0	0	0	17	136	59	0	0	0	434
Red Pine	0	0	0	0	0	0	15	0	0	0	0	0	0	0	15
Sand, Soil	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Conifers	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Upland Mixed Forest	18	0	0	0	0	18	0	0	0	3	0	0	0	0	40
Urban	68	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
White Pine	0	0	0	0	0	0	10	6	0	0	0	0	0	0	15
Total	695	77	100	0	203	24	193	141	28	204	59	0	0	0	1723



Report 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2016

Compartment 035
Total Compartment Acres: 1,723

Acres by Treatment Type

Commercial Harvest - 338 Tree Planting - 49 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	114	0	0	0	0	0	114
Mixed Upland Deciduous	26	0	0	0	8	0	34
Natural Pines	49	0	0	0	0	0	49
Oak Types	95	0	17	0	26	0	138
Upland Mixed Forest	3	0	0	0	0	0	3
Total	288	0	17	0	34	0	338



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	71035004-Cut	14.3	4121 - Oak, Aspen	High Density Log	100	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut stand with reserves and manage stand for aspen with an oak component. Most areas should regenerate to a fully stocked aspen stand. <u>Specs:</u> The remaining areas should regenerate to a mix of black and white oak. Leave all white and red pine and a few scattered healthy oak. Leave some oak retention on edges near the buildings. protect and promote the oak understory during harvest.										
<u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
7	71035007-Cut	20.3	4130 - Aspen	High Density Log	60	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves and manage for aspen. Save a few red pine and oak. Buffer bog edges per BMP guidelines. Save a couple pockets of mature aspen for retention.										
<u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
8	71035008-Cut	24.6	4125 - Black, N. Pin Oak	High Density Log	100	51-80	Harvest	Clearcut with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves and manage for oak with a aspen component. Leave all red and white pine for visuals and diversity, Protect and promote the oak understory during harvest operations. Leave scattered healthy oak throughout stand and leave retention pockets of oak along buildings and parking lots.										
<u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
14	71035014-Cut	20.4	4125 - Black, N. Pin Oak	High Density Log	100	51-80	Harvest	Clearcut with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves and manage for oak and aspen regeneration. Many areas should convert to aspen while other areas should have no problem with regenerating oak. Protect and promote the oak understory during harvest. Leave scattered healthy oak where applicable and use heavy retention pockets around the buildings.										
<u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	71035028-Cut	4.7	4125 - Black, N. Pin Oak	High Density Log	90	1-50	Harvest	Clearcut with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Clearcut stand and manage for aspen. Protect oak understory during harvest. Leave a few clumps of healthy oak for retention.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
30	71035030-Cut	7.6	4191 - Mixed Upland Deciduous with Conifer	High Density Log	95	81-110	Harvest	Crown Thinning	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Thin stand to increase diversity and health, Remove poor formed and high risk red pine and oak. Remove all aspen. Promote red maple requirement										
<u>Specs:</u> into the canopy. Target 80 BA residual.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
33	71035033-Cut	42.6	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	77	81-110	Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut stand with reserves and plant jack pine. leave 1-3 oak per acre for mast. Buffer lowland stand and leave a few patches of jack pine for										
<u>Specs:</u> retention. Some oak and aspen regeneration is expected.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
37	71035037-Cut	6.4	42250 - Pine, Oak	High Density Log	75	51-80	Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut and plant jack pine. Use some clumps of jack pine as retention.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
38	71035038-Cut	77.3	4130 - Aspen	High Density Pole	42	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves and manage for aspen. Leave 1-3 pine per acre where applicable for diversity, visuals and retention. Leave a pocket of										
<u>Specs:</u> aspen and white pine on the north end near I-75.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	71035039-Cut	3.4	4310 - Pine, Oak Mix	High Density Log	95	51-80	Harvest	Clearcut with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Apply a overstory removal harvest by cutting all jack pine, aspen and high risk oak. Leave healthy oak and white pine. Do not cut or damage										
<u>Specs:</u> understory.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
51	71035051-Cut	10.9	4131 - Aspen, Oak	High Density Log	80	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves using a 2" spec. Manage stand for aspen regeneration. Leave a few healthy oak and some white pine for retention. Expect										
<u>Specs:</u> some oak regeneration especially in areas without aspen competition.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
53	71035053-Cut	10.4	4125 - Black, N. Pin Oak	High Density Log	95	51-80	Harvest	Clearcut with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves ands manage for a mix of maple oak and aspen. Leave a few scattered large crowned oak and all pine for visuals along M-18										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
57	71035057-Cut	20.6	4125 - Black, N. Pin Oak	High Density Log	90	111-140	Harvest	Clearcut with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves in attempt to regenerate some oak. Regeneration will primarily be red maple with areas of aspen. There should be some										
<u>Specs:</u> areas that regenerate to oak as well. Leave 1-3 large crowned oak per acre for mast production. Expand aspen component.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
65	71035065-Cut	25.9	4125 - Black, N. Pin Oak	High Density Log	90	81-110	Harvest	Crown Thinning	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Thin stand by removing poor formed and suppressed oak and maple. Target 80 BA. Attempt to establish a single stem red maple understory while										
<u>Specs:</u> also promoting white pine establishment.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
68	71035068-Cut	5.7	4130 - Aspen	High Density Pole	50	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription Specs:</u> Clearcut with reserves and manage for aspen. Expect good amounts of red maple regeneration also. Consider no aspen retention. A few scattered oak could be left.										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2015										
83	71035083-Cut	5.1	4191 - Mixed Upland Deciduous with Conifer	High Density Log	90	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription Specs:</u> Clearcut with reserves and manage for aspen. Some areas without aspen can have a mix of oak maple or pine for regeneration. Save a few (1-3/acre) healthy oak and pine per acre. Favor white oak where possible. Consider leaving no aspen retention due to age and overall amount so that as much aspen can be regenerated as possible.										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2015										
86	71035086-Cut	16.6	4125 - Black, N. Pin Oak	High Density Log	80	51-80	Harvest	Seed Tree with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prescription Specs:</u> Apply seed tree harvest leaving large crowned oak in areas which have sparse oak regeneration currently. Favor well formed white oak over poor formed black/pin oak. Leave red and white pine for diversity, retention and visuals along I-75. Shortwood to protect existing regeneration. Harvest with adjacent compartment 38 in Y.O.E. 2014.										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 07/01/2014										
95	71035095-Cut	21.2	4191 - Mixed Upland Deciduous with Conifer	High Density Log	95		Harvest	Clearcut with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prescription Specs:</u> Clearcut stand using 4" spec to protect oak regeneration. Expand aspen where possible. Manage stand for oak, maple and aspen regeneration.										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2015										
Total Treatment Acreage Proposed:		338.0								

S
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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
Jason Lewicki : Examiner

Compartment 035
Year of Entry 2016

Availability for Management

Availability for Management			Dominant Site Conditions					
Total Acres	Acres Available	Acres Not Available		No	5E	5C	2H	2G
383	362	21	Aspen	362	11	0	9	1
58	58		Jack Pine	58				
20	0	20	Lowland Conifers	0				20
26	0	25	Lowland Mixed Forest	0				25
81	0	81	Lowland Spruce/Fir	0				81
104	104		Mixed Upland Deciduous	104				
104	104		Natural Mixed Pines	104				
433	429	5	Oak	362	4	66		0
15	15		Red Pine	15				
11	11	0	Upland Conifers	11				0
39	39	0	Upland Mixed Forest	39				0
15	15		White Pine	15				
1,288	1,137	151	Total Forested Acres	1,070	16	67	9	127
	88%	12%	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
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5				
Comments:							
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	63				
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment 035
Year of Entry 2016

007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	71
Comments:			
008	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9
Comments:			
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	57
Comments:			
010	Not Available	5E: Long Term Retention	16
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



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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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	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.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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	Roscommon Mgt. Unit		Report 8 – Forested Stands			Compartment: 035 Year of Entry: 2016	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4125 - Black, N. Pin Oak	High Density Sapling	6.6	17			
2	4125 - Black, N. Pin Oak	High Density Sapling	4.3	17			
3	4125 - Black, N. Pin Oak	Medium Density Pole	2.3	45	1-50		
4	4121 - Oak, Aspen	High Density Log	14.3	100	81-110	Stand of old low quality black oak mixed with aspen pole timber. Aspen is of a younger age class. Oak is in decline and is experiencing mortality. There are areas with good advanced oak understory.	
5	4121 - Oak, Aspen	High Density Sapling	4.8	7		West 1/2 of stand is primarily aspen.	
6	4130 - Aspen	High Density Sapling	6.7	7			
7	4130 - Aspen	High Density Log	20.3	60	81-110	Overmature stand of quaking aspen mixed with jack pine. Most of the jack pine is along bog edges. Cherry and oak understory. A few scattered red and white pine.	
8	4125 - Black, N. Pin Oak	High Density Log	24.6	100	51-80	Stand of old, low quality black oak with some aspen and pine mixed in. There are areas with excellent advanced oak regeneration. Oak is showing signs of decline and mortality.	
9	4131 - Aspen, Oak	High Density Pole	4.7	45	81-110		
11	4131 - Aspen, Oak	High Density Sapling	1.8	7			
14	4125 - Black, N. Pin Oak	High Density Log	20.4	100	51-80	Stand of old, low quality black oak mixed with some aspen. Aspen is found scattered and in groups. Some areas are solid black oak. Oak is showing heavy decline and mortality. There are multiple pockets of oak mortality. There are areas where there is excellent advanced white oak regeneration.	
16	4125 - Black, N. Pin Oak	High Density Sapling	8.2	17			
17	42220 - Natural Jack Pine	High Density Pole	2.2	60	1-50		
18	4131 - Aspen, Oak	High Density Sapling	9.1	7			
19	4122 - Oak, Pine	Medium Density Log	4.5	90	1-50		
20	4130 - Aspen	High Density Pole	2.2	27	1-50		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4130 - Aspen	High Density Pole	3.1	27	1-50	
22	42250 - Pine, Oak	High Density Pole	3.0	42	51-80	
23	4130 - Aspen	High Density Sapling	16.5	17		
25	4199 - Other Mixed Upland Deciduous	High Density Log	2.9	90	51-80	There is a small pocket of mature bigtooth aspen in the NW corner of the stand. Harvest when quaking aspen component becomes mature.
26	4199 - Other Mixed Upland Deciduous	High Density Sapling	18.6	7		South end of stand is heavy to aspen.
27	4130 - Aspen	High Density Sapling	14.2	7		
28	4125 - Black, N. Pin Oak	High Density Log	4.7	90	1-50	Stand of low quality pin/black oak mixed with some quaking aspen, Oak and maple in the understory.
29	4130 - Aspen	High Density Sapling	11.3	7		
30	4191 - Mixed Upland Deciduous with Conifer	High Density Log	7.6	95	81-110	Fair quality black oak mixed with red pine. Some aspen found scattered and in clumps. Heavy witch hazel in understory.
31	4130 - Aspen	High Density Pole	4.6	27	51-80	
32	4130 - Aspen	High Density Pole	7.3	27	1-50	
33	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	42.6	77	81-110	Stand of 75-80 year old jack pine mixed with black oak. Both oak and jack pine are in decline and experiencing mortality.
36	4121 - Oak, Aspen	High Density Sapling	6.2	17		
37	42250 - Pine, Oak	High Density Log	6.4	75	51-80	Older jack pine stand mixed with low quality black oak. Oak in the understory.
38	4130 - Aspen	High Density Pole	77.3	42	51-80	Stand of primarily quaking aspen with some scattered pine. Heavier white pine component on the north end near I-75. Heavier oak component on the east side of the "pit".
39	4310 - Pine, Oak Mix	High Density Log	3.4	95	51-80	Old stand of black oak and jack pine. Very good, advanced understory of oak and maple. Jack pine is overmature and is experiencing mortality. A few scattered aspen but below 2% canopy.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	4319 - Mixed Upland Forest	Medium Density	18.4	6		
43	4125 - Black, N. Pin Oak	Medium Density Log	3.6	90	1-50	
44	4132 - Aspen, Jack Pine	High Density Sapling	14.2	17		
45	4130 - Aspen	High Density Pole	4.4	27	1-50	
49	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	12.9	6		
50	4130 - Aspen	High Density Pole	4.9	42	81-110	
51	4131 - Aspen, Oak	High Density Log	10.9	80	51-80	Old, low quality black oak stand mixed with quaking aspen. Oak is experiencing heavy decline and mortality.
53	4125 - Black, N. Pin Oak	High Density Log	10.4	95	51-80	95+ year old overmature black oak stand mixed with red maple. A few white oak and pine present. Some scattered aspen throughout.
54	4125 - Black, N. Pin Oak	High Density Pole	12.0	42	51-80	Oak and maple stump sprouts.
55	4130 - Aspen	High Density Sapling	8.9	17		
56	4130 - Aspen	High Density Pole	37.7	43	81-110	Almost solid aspen pole timber stand. Some scattered oak especially on south end. A few scattered red pine and 1 small 1/2 acre pocket.
57	4125 - Black, N. Pin Oak	High Density Log	20.6	90	111-140	90+year old stand of primarily good quality black oak sawtimber. Red maple pole timber is distributed evenly about. Some areas with mature bigtooth aspen present. Red maple understory.
58	4125 - Black, N. Pin Oak	High Density Pole	14.4	43	1-50	Some scattered mature oak.
59	4130 - Aspen	High Density Pole	4.6	27	51-80	
60	4130 - Aspen	High Density Pole	39.2	27	51-80	NE corner contains some oak and maple.
61	4125 - Black, N. Pin Oak	High Density Log	62.1	90	51-80	Stand was thinned and had all red maple and aspen removed 2 entries ago. Heavy red maple in understory.
62	4130 - Aspen	High Density Pole	32.9	42	81-110	

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 035
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4125 - Black, N. Pin Oak	High Density Pole	13.3	42	51-80	Stump sprout oak and maple.
64	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	30.2	6		
65	4125 - Black, N. Pin Oak	High Density Log	25.9	90	81-110	Stand of 90+ year old black oak and red maple stand. Some balsam fir and white pine saplings especially on on SW end. Scattered bigtooth aspen present.
66	4191 - Mixed Upland Deciduous with Conifer	High Density Log	19.1	90	1-50	Low basal area of old oak with a good understory of maple white pine and oak.
67	4123 - Red Oak	High Density Log	4.1	90	81-110	
68	4130 - Aspen	High Density Pole	5.7	50	51-80	Small stand of mature quaking aspen. South edge of stand has a higher water table and is mixed with heavy red maple. Some scattered old jack pine present.
69	429 - Mixed Upland Conifers	High Density Log	10.8	70	51-80	
70	4130 - Aspen	High Density Sapling	11.8	17		
71	6139 - Mixed Lowland Forest	Medium Density Pole	25.8	70		
72	4130 - Aspen	High Density Log	9.1	90	81-110	Overmature bigtooth aspen stand blocked by private on the west side and a swale on the east side.
73	4319 - Mixed Upland Forest	High Density Pole	17.8	55	51-80	
74	42200 - Natural White Pine	High Density Log	5.8	70	81-110	
77	6124 - Lowland Spruce- Fir	High Density Pole	20.0	65	51-80	Some areas of stand are operable.
78	4130 - Aspen	High Density Pole	7.9	23	1-50	
79	4130 - Aspen	High Density Sapling	11.8	7		
80	42260 - Natural Pine, Mixed Deciduous	High Density Log	13.2	70	81-110	Some lowland pockets and edges dominated by tag alder and lowland conifer species.
81	6122 - Black Spruce	Medium Density Pole	36.2	75		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	6122 - Black Spruce	Medium Density Pole	45.6	60		
83	4191 - Mixed Upland Deciduous with Conifer	High Density Log	5.1	90	81-110	Stand of old oak and aspen with white pine pole timber. Oak and aspen are overmature and are experiencing mortality.
84	42290 - Natural Mixed Pine	High Density Log	17.3	60	81-110	Narrow stand with swamp on both sides.
85	42290 - Natural Mixed Pine	High Density Log	36.8	60	81-110	Natural red and white pine stand mixed with old oak sawtimber. Older age classes of red and white pine present.
86	4125 - Black, N. Pin Oak	High Density Log	16.6	80	51-80	Old black oak with heavy red maple understory. Manage with stand and compartment to the south.
88	42260 - Natural Pine, Mixed Deciduous	High Density Log	27.0	60	111-140	Narrow stand along flooding edge. Pine shows great growth rates. West side has higher white pine BA's with smaller diameters. Balsam fir understory on west side.
90	4125 - Black, N. Pin Oak	High Density Sapling	21.0	7		
92	4125 - Black, N. Pin Oak	High Density Pole	26.3	28	1-50	
93	4125 - Black, N. Pin Oak	Medium Density	52.5	7		
94	4125 - Black, N. Pin Oak	High Density Sapling	17.0	7		
95	4191 - Mixed Upland Deciduous with Conifer	High Density Log	21.2	95		Variable stand of oak, jack pine and white pine. Old oak and jack pine is in heavy decline. There is excellent advanced oak in the understory in many areas. West arm has higher water table and has more red pine canopy and red maple understory.
96	4125 - Black, N. Pin Oak	High Density Sapling	11.2	7		
98	42200 - Natural White Pine	High Density Log	9.7	60	111-140	
100	4125 - Black, N. Pin Oak	Medium Density	21.7	7		
102	42210 - Natural Red Pine	High Density Log	14.5	60	81-110	Natural stand of red pine. Some scattered oak. Small pocket of aspen on the north end.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
10	6225 - Bog	3.5	No	Unspecified	
12	11 - Low Intensity Urban	11.3	No	Unspecified	
13	11 - Low Intensity Urban	10.3	No	Unspecified	
15	6225 - Bog	6.2	No	Unspecified	
24	6225 - Bog	9.9	No	Unspecified	
34	6229 - Mixed lowland shrub	4.2	No	Unspecified	
35	3102 - Grass	10.0	No	Unspecified	
40	11 - Low Intensity Urban	46.5	No	Unspecified	
42	6225 - Bog	3.9	No	Unspecified	
46	6225 - Bog	1.5	No	Unspecified	
47	710 - Sand, Soil	7.4	No	Unspecified	
48	6229 - Mixed lowland shrub	2.8	No	Unspecified	
52	3102 - Grass	7.9	No	Unspecified	
75	6225 - Bog	68.3	No	Unspecified	
76	6229 - Mixed lowland shrub	12.4	No	Unspecified	
87	6229 - Mixed lowland shrub	19.0	No	Unspecified	
89	6225 - Bog	9.3	No	Unspecified	
91	6225 - Bog	11.6	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
97	6239 - Mixed Emergent Wetland	14.4	No	Unspecified	
99	50 - Water	25.7	No	Unspecified	
101	6239 - Mixed Emergent Wetland	7.5	No	Unspecified	
103	6239 - Mixed Emergent Wetland	138.4	No	Unspecified	