



Roscommon Forest Management Unit
Compartment Review Presentation
Compartment # 161 Entry Year: 2014
Compartment Acreage: 1301 County: Roscommon

Revision Date: 8/7/2012

Stand Examiner: Jason Lewicki

Legal Description: T21N R03W Section 19 and 30.

Identified Planning Goals: Upper Muskegon Eco-Regional Management Area

Management Goals: Maintain current age and species diversity in a range of early and late succession ecosystems.

Soil and Topography: Terrain is mostly flat to gently rolling throughout the compartment. Soils on uplands are a mix of Croswell, Grayling and Greycalm sands. Lowland areas consist Tawas-Lupton mucks.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The entire compartment and much of the surrounding township are under state ownership. Land use is heavy within this compartment from hunting, ORV and snowmobile use. The area also has heavy oil and gas usage with multiple active wells and above ground pipelines. Some of which contain “sour gas”.

Unique, Natural Features: There is a Northern Wet Meadow identified in the south west area of the compartment.

Archeological, Historical, and Cultural Features: None noted. No sites found during field work.

Special Management Designations or Considerations: None noted.

Watershed and Fisheries Considerations: Townline creek flows through the compartment.

Wildlife Habitat Considerations: Townline creek and adjacent riparian areas are used heavily by waterfowl and beavers.

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 Jurassic Ionia Formation and the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for brick making clay elsewhere in the State. There are no nearby gravel pits, the nearest gravel pit is located three miles to the west and potential appears to be limited. Headquarters Field is located in the compartment. The field has produced over 11.3 million BO and 4.2 Bcf gas primarily from the Devonian Richfield Formation. It is in secondary recovery operations currently. All of the State land in the compartment is currently leased.

Vehicle Access: There is good vehicle access to the compartment. There are multiple gravel county and forest roads. Some forest roads are well maintained for oil and gas well maintenance.

Survey Needs: No survey work currently needed.

Recreational Facilities and Opportunities: A snowmobile trail(trail 6) and and ORV trail(Denton Creek trail.) that run through the compartment. Hunting and trapping opportunities are excellent with a mix of upland and lowland cover types along with Townline creek.

Fire Protection: There is a potential for large wildfires within this compartment and general area. Heavy pine cover types and heavy recreational use warrant concern. This is within the Houghton Lake DNR response area.

Additional Compartment Information: None

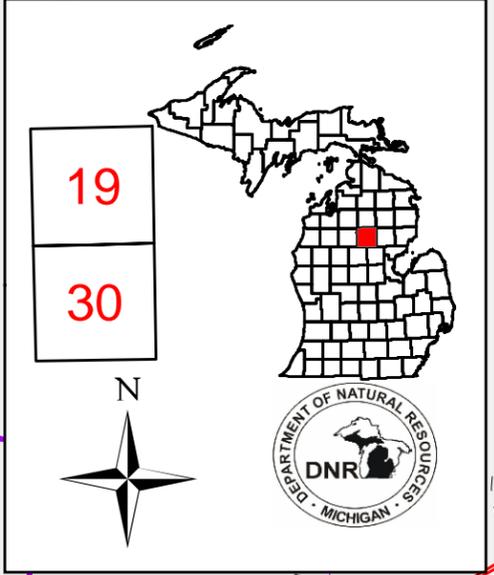
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **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: 161
 T21N R03W Sec. 19, 30
 County: Roscommon
 Unit: Roscommon
 YOE: 2014
 Acres: 1,302 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 08/10/2012
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- County Gravel Roads
- Poor Dirt Roads
- ORV Trails
- Snowmobile Trails
- ORV Trail
- <all other values>
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)

Forest Stands

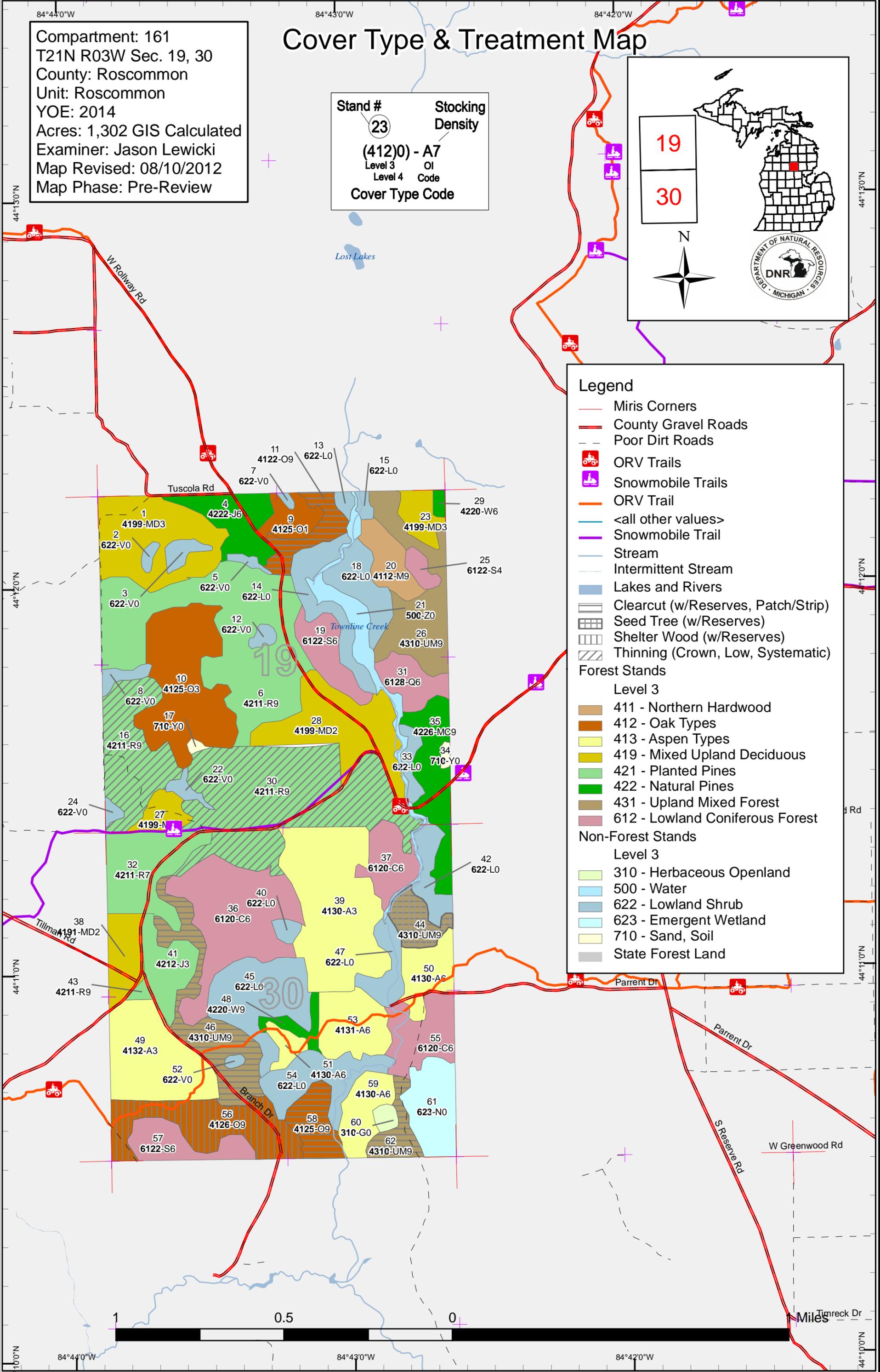
Level 3

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

Non-Forest Stands

Level 3

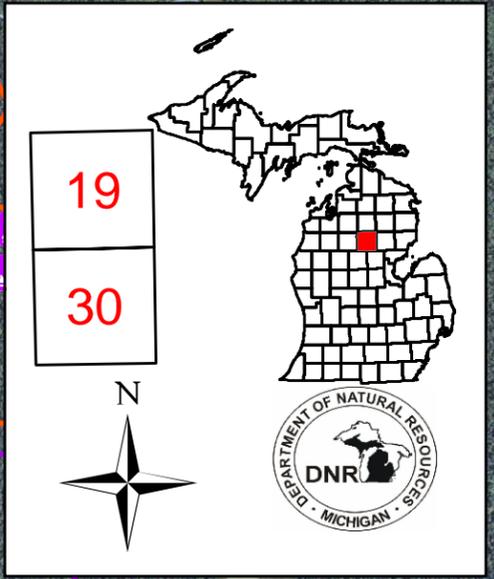
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil
- State Forest Land



Stand Boundary Map

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 T21N R03W Sec. 19, 30
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 YOE: 2014
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Stocking Density
 (412)0 - A7
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- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

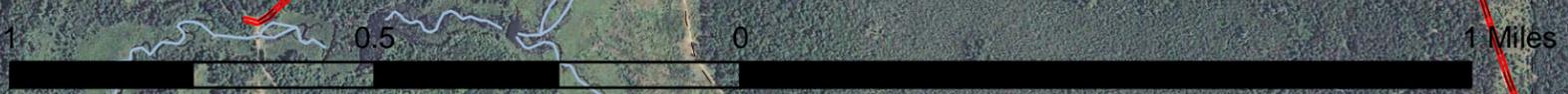
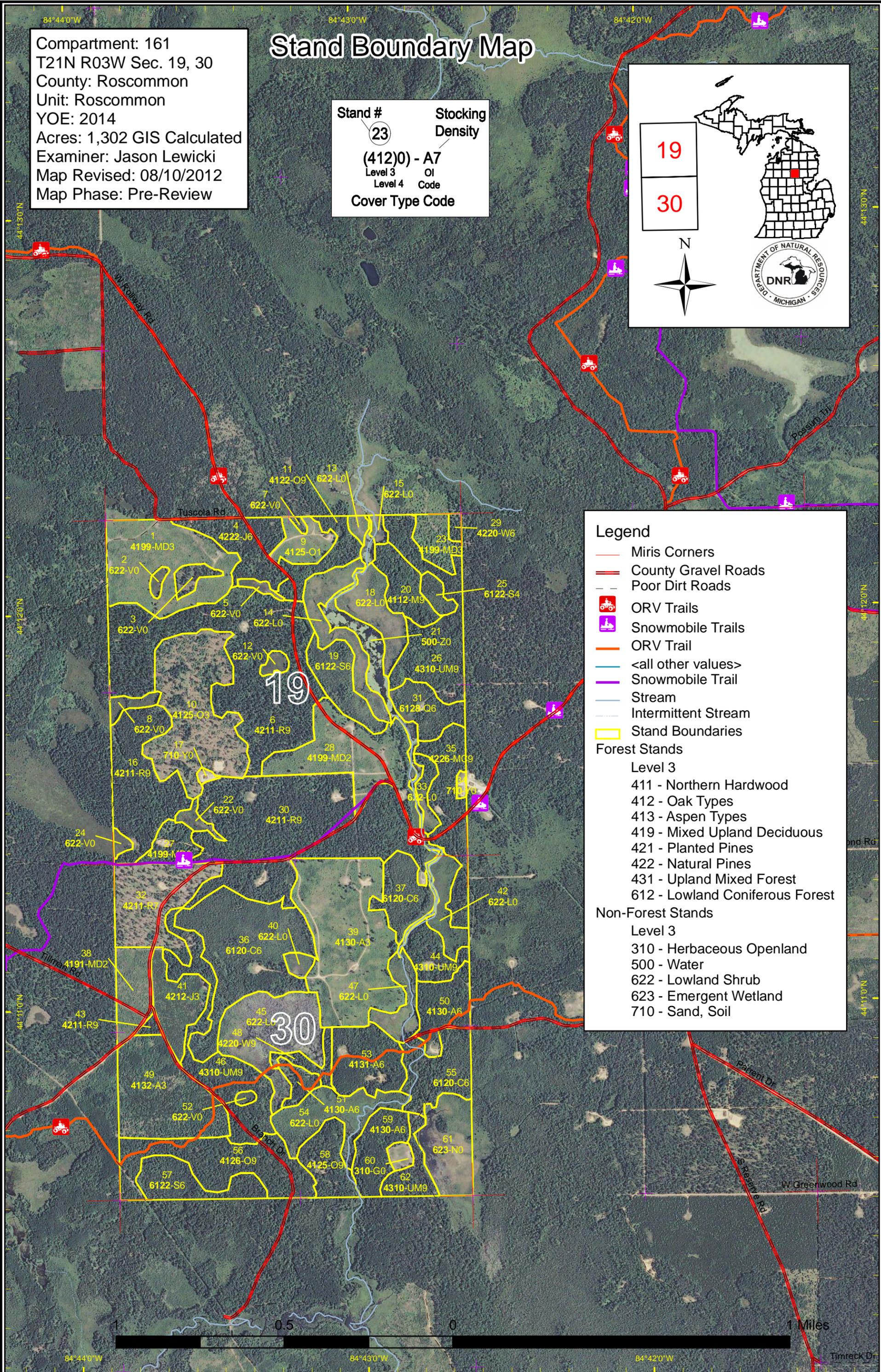
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Non-Forest Stands

Level 3

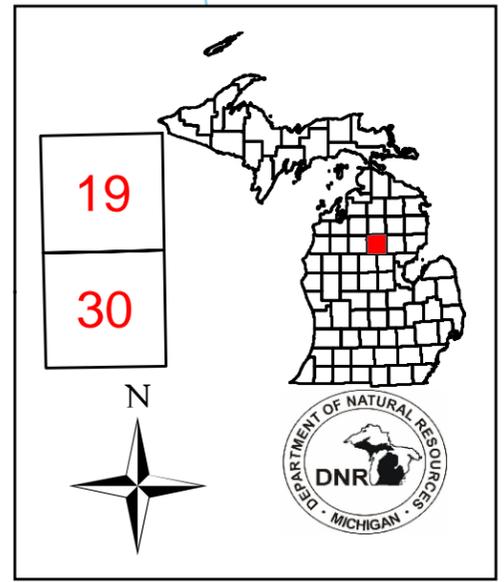
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Dedicated & Proposed Special Conservation Area Map

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



- Legend**
- Miris Corners
 - Stand Boundaries
 - Forest Stands**
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
 - Non-Forest Stands**
 - Level 3
 - 310 - Herbaceous Openland
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 710 - Sand, Soil
 - Dedicated Special Conservation Areas**
 - Cold Water Streams

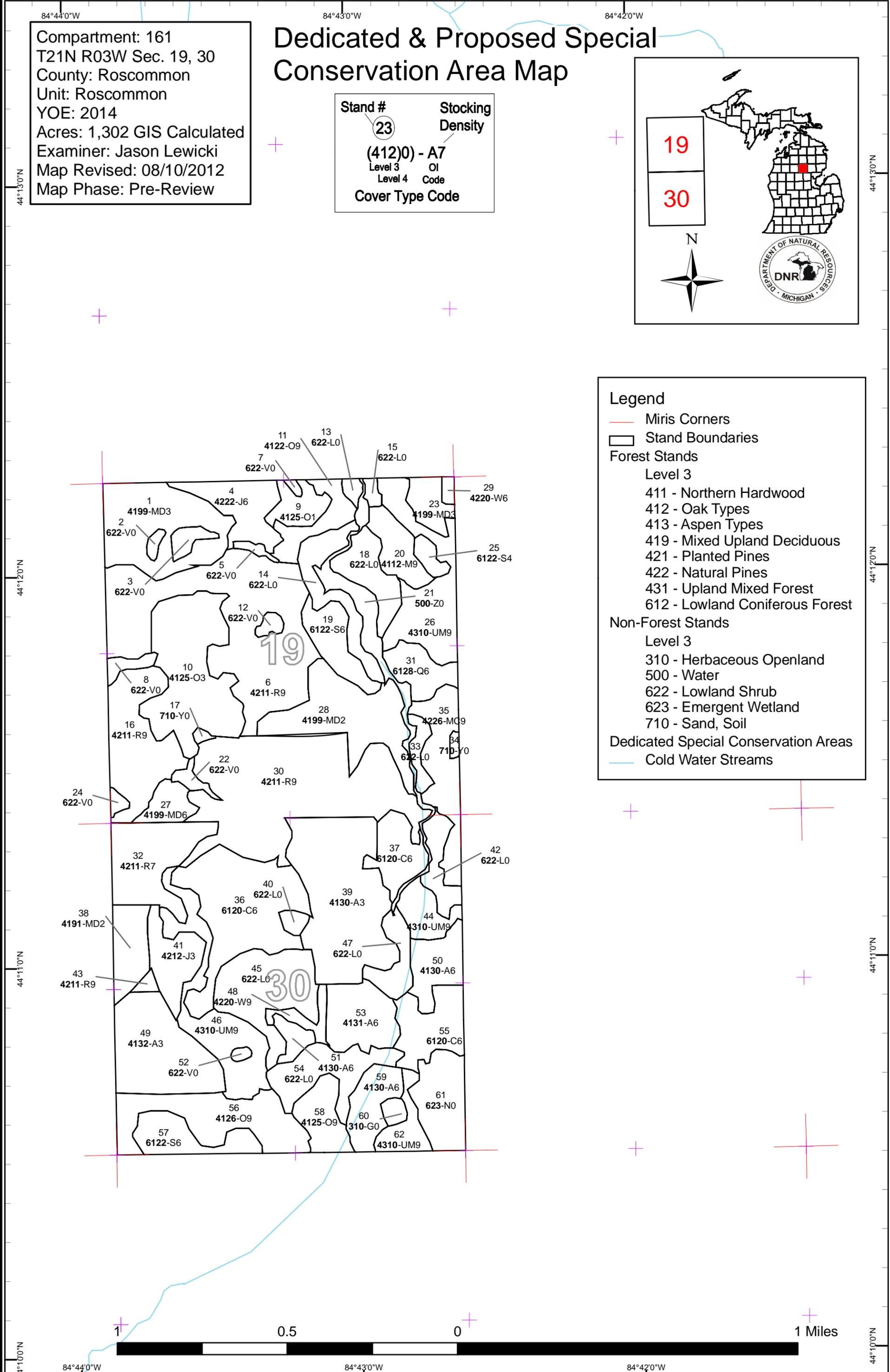
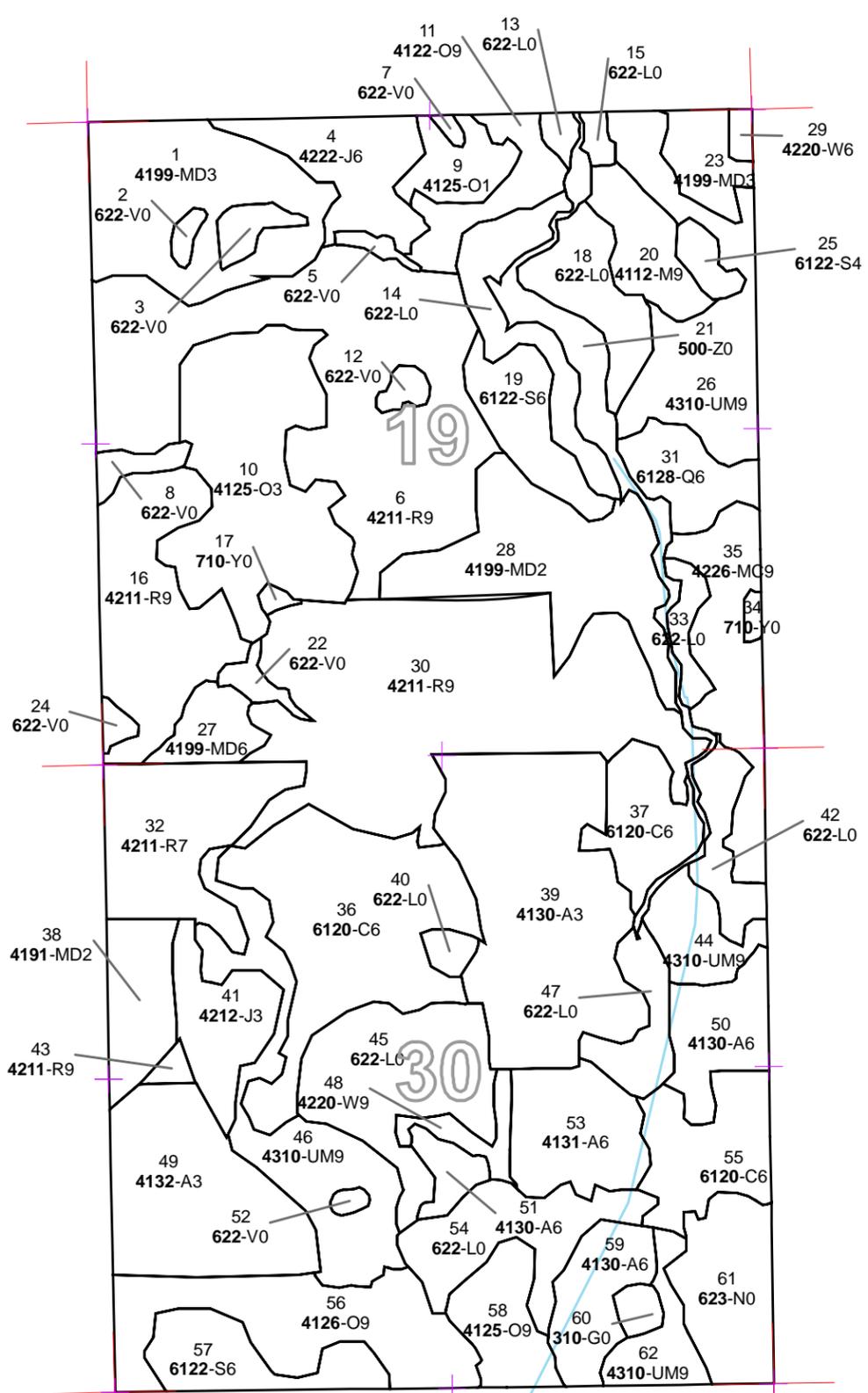


Table 1 – Total Acres by Cover Type and Age Class



	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	74	0	46	48	0	0	0	0	0	0	0	0	0	17	184
Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Cedar	0	0	0	0	0	0	0	84	17	0	0	0	0	0	101
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	19	0	22	0	0	0	0	0	0	0	0	0	0	41
Lowland Conifers	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14
Lowland Shrub	138	0	0	0	0	0	0	0	0	0	0	0	0	0	138
Lowland Spruce/Fir	0	0	0	0	0	0	5	35	0	0	0	0	0	0	40
Marsh	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	92	27	0	9	0	0	0	0	0	0	0	0	0	0	128
Natural Mixed Pines	0	0	0	0	0	0	0	0	28	0	0	0	0	0	28
Northern Hardwood	0	0	0	0	0	0	0	15	0	0	0	0	0	0	15
Oak	70	0	0	0	0	0	0	0	71	0	0	0	0	0	142
Red Pine	0	0	0	0	0	0	0	0	291	0	0	0	0	0	291
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	0	37	61	0	0	0	0	0	98
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21
White Pine	0	0	0	0	0	0	2	6	0	0	0	0	0	0	8
Total	448	45	46	79	0	0	7	191	468	0	0	0	0	17	1302



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2014

Compartment 161
Total Compartment Acres: 1302

Acres by Treatment Type

Commercial Harvest - 282	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Oak	30	0	0	41	0	0	71
Red Pine	0	0	0	0	150	0	150
Upland Mixed Forest	48	0	12	0	0	0	60
Total	78	0	12	41	150	0	282



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11	71161011-Cut	14.0	4122 - Oak, Pine	High Density Log	85	81-110	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<u>Prescription</u> Manage stand for white pine and single stem red maple. Remove old poor quality oak and aspen. Save some scattered oak for mast production/retention. Protect understory during harvesting operations. Sell sale by itself due to small acreage. <u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
16	71161016-Cut	40.7	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	81	111-140	Harvest	Crown Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Remove jack pine and high risk black/pin oak. Thin red pine from below by targeting suppressed and poor formed trees. There are areas where red pine is already at or below desired stocking levels. Thin down to around 80 BA. Manage stand for red pine. Protect oak and pine understory during harvest. <u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
30	71161030-Cut	109.6	42110 - Planted Red Pine	High Density Log	80	111-140	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin red pine from below down to around 80 BA. Remove all jack pine. Target all high risk and poor quality oak for removal also. Protect and encourage white pine during harvest. <u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
44	71161044-Cut	12.5	4310 - Pine, Oak Mix	High Density Log	85	81-110	Harvest	Seed Tree with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription</u> Seed tree harvest stand leaving a few red pine and oak per acre. Favor leaving more red pine than oak. Manage stand for white pine understory as well as maple and oak stump sprouts. Protect white pine during harvest. <u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
46	71161046-Cut	37.0	4310 - Pine, Oak Mix	High Density Log	75	81-110	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest and manage for oak/aspen/pine. Protect and promote oak and pine understory during harvest. Leave some scattered oak and pine for retention, mast/seed source and verticle structure. Possibly leave part of north "arm" for retention. ORV trail runs through stand. Protect with appropriate cutting specs. <u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	71161056-Cut	41.4	4126 - White, Black, N. Pin Oak	High Density Log	80	81-110	Harvest	Shelter Wood with Reserves	4129 - Mixed Oak	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood/seed tree harvest stand by removing most oak and all red maple and aspen. Mark large crowned oak and pine to leave favoring <u>Specs:</u> white oak. Protect pine and oak understory during harvest. ORV trail runs through stand. Protect with appropriate specs.										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
58	71161058-Cut	16.0	4125 - Black, N. Pin Oak	High Density Log	85	111-140	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Final harvest stand with reserves. Save a few large crowned oak/acre and all the white pine. MAnage stand for white pine oak and aspen. <u>Specs:</u> Areas on north end should sprout and expand aspen areas. Other areas a mix of oak and maple will be acceptable regeneration.										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
62	71161062-Cut	10.7	4310 - Pine, Oak Mix	High Density Log	88	81-110	Harvest	Clearcut with Reserves	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
<u>Prescription</u> Final harvest with reserves by cutting oak and jack pine. Leave all good formed red and white pine. Manage for a mixed oak and pine stand. <u>Specs:</u> Protect oak and pine understory when harvesting. Possibly join and sell negotiated with adjacent sale to the south.										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
Total Treatment Acreage Proposed: 281.8										

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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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#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Error

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

S t a n d	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 161	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
1	4199 - Other Mixed Upland Deciduous	High Density Sapling	47.3	7			Clear cut growing low quality black oak stump sprouts and pin cherry. Some maple and aspen.
4	42220 - Natural Jack Pine	High Density Pole	22.2	36	81-110		Records show that this stand was harvested then rollerchopped in 1976.
6	42110 - Planted Red Pine	High Density Log	103.1	81	51-80		1931 plantation that was species thinned in the past. Understory is "dog hair" advanced oak regeneration. Some white pine regen in spots.
9	4125 - Black, N. Pin Oak	Low Density Sapling	10.7	7			Young Red pine plantation with scattered oak, cherry and aspen. A few jack pine seedlings.
10	4125 - Black, N. Pin Oak	High Density Sapling	59.4	2			Stand was part of RPP and was harvested as a "seed tree". Scattered red pine and islands of red pine left. Advanced oak understory was protected and left and is now coded as the canopy. Little to no red pine is expected to regenerate due to heavy oak. Red pine could possibly regenerate in open areas or heavily used skid trails. Good red pine site, poor oak site...
11	4122 - Oak, Pine	High Density Log	14.0	85	81-110		Stand of white pine and low quality pin/black oak. Some scattered red maple and red pine. One good clone of bigtooth aspen along with some scattered. Heavy white pine understory with some making it into the canopy. White pine understory and poles took a beating from a heavy wet snowstorm on 3/2/12 causing alot of snapped boles.
16	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	40.7	81	111-140		1931 red pine plantation that is mixed with oak, jack pine and white pine. Oak is of low quality and in decline. Jack pine is also in decline and showing mortality. Heavy advanced oak and white pine understory. A small swale within stand that drains to the bog to the west.
19	6122 - Black Spruce	High Density Pole	17.2	75	81-110		
20	4112 - Maple, Beech, Cherry Association	High Density Log	14.8	75	81-110		
23	4199 - Other Mixed Upland Deciduous	High Density Sapling	10.3	17			Oak stump sprout stand with cherry.
25	6122 - Black Spruce	Low Density Pole	4.6	65			
26	4310 - Pine, Oak Mix	High Density Log	37.7	81	51-80		Mixed stand of oak, maple and pine. Heavy balsam fir and white pine understory. Low quality oak in decline. Heavier to red pine on south end.
27	4199 - Other Mixed Upland Deciduous	High Density Pole	9.4	35	1-50		Old records indicate a "habitat cut".
28	4199 - Other Mixed Upland Deciduous	Medium Density	44.8	7			Young red pine palntation with heavy hardwood competition in the form of aspen, oak and cherry.



Stand	Roscommon Mgt. Unit			5 – Forested Stands		Compartment: 161	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
29	42200 - Natural White Pine	High Density Pole	1.9	65	51-80		
30	42110 - Planted Red Pine	High Density Log	109.6	80	111-140	Red pine sawtimber stand mixed with jack pine, white pine and poor quality oak. High mortality in the jack pine.	
31	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	14.5	75	51-80		EAB present
32	42110 - Planted Red Pine	Low Density Log	35.2	81	1-50	Stand was selected for RPP and was shelterwood/seed tree cut. Little to no red pine is expected due to hardwood competition. Some pole timber red maple and aspen were left. Stand now grows stump sprout red ample and poor quality oak instead of high quality red pine....	
35	42260 - Natural Pine, Mixed Deciduous	High Density Log	28.4	80	81-110	Mixed pine and oak stand. Oak is old and of poor quality. Good advanced white pine regen, some making it into the canopy. Scattered mature red and white pine. Harvesting in this stand would cause too much damage from large crowned oaks. Reevaluate next entry.	
36	6120 - Lowland Cedar	High Density Pole	60.2	75			
37	6120 - Lowland Cedar	High Density Pole	17.2	85			
38	4191 - Mixed Upland Deciduous with Conifer	Medium Density	16.6	10		PRESCRIBED BURN STAND IN 1997 FOR SLASH ON 4-26-01 THE AREA WAS HAND PLANTED WITH 2-0 RED PINE.	
39	4130 - Aspen	High Density Sapling	73.6	5		Aspen stand with some stump sprout oak mixed in. Scattered white oak left from harvest. Some areas heavier to oak and cherry.	
41	42120 - Planted Jack Pine	High Density Sapling	18.6	10		PRESCRIBED BURN STAND IN 1997 FOR SLASH. ON 4-26-01	
43	42110 - Planted Red Pine	High Density Log	1.9	81	81-110	Small stand of red pine mixed with jack pine and poor quality oak.	
44	4310 - Pine, Oak Mix	High Density Log	12.5	85	81-110	Mixed stand of old, low quality black oak and red pine. Scattered mature jack pine. Variable height white pine understory.	
46	4310 - Pine, Oak Mix	High Density Log	37.0	75	81-110	Stand of old, low quality oak with scattered red and jack pine. Oak and jack pine are overmature. There is a younger age class of aspen mixed in. Oak and pine in understory.	
48	42200 - Natural White Pine	High Density Log	6.1	70	111-140	Small narrow stand of small diameter sawtimber white pine. Stand is split by small creek. A few large white pine growing along creek. ORV trail runs through stand.	





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4132 - Aspen, Jack Pine	High Density Sapling	45.8	24	1-50	Aspen, oak and jack pine stand. Some trees entering pole timber size
50	4130 - Aspen	High Density Pole	17.4	38	111-140	bigtooth aspen stand with some older oak and red pine scattered about.
51	4130 - Aspen	High Density Pole	5.9	37	81-110	Small stand of mixed aspen. ORV trail runs through stand. Unaccessible for harvesting purposes. Beaver damage in some areas.
53	4131 - Aspen, Oak	High Density Pole	24.3	38	111-140	Bigtooth aspen pole timber stand with scattered oak and pine supercanopy. Hold till aspen grows into sawtimber.
55	6120 - Lowland Cedar	High Density Pole	23.5	70	81-110	Variable stand. Contains some more upland areas smaller than mapping standards. Townline creek flows through west side.
56	4126 - White, Black, N. Pin Oak	High Density Log	41.4	80	81-110	Stand of black and white oak mixed with white pine. Some scattered aspen. Good understory of oak and white pine. White oak has much better form and quality than black oak. Black oak is off poor quality and in decline.
57	6122 - Black Spruce	High Density Pole	18.3	75	111-140	Areas of very nice quality black spruce.
58	4125 - Black, N. Pin Oak	High Density Log	16.0	85	111-140	Stand of old black oak mixed with some white pine and red maple. Area of almost solid aspen on north end. Variable height understory of white pine, some making it to canopy.
59	4130 - Aspen	High Density Pole	17.2	Uneven Age	81-110	Bigtooth aspen stand with some oak and red pine supercanopy. Oak is found scattered and in small groups. Hold for 10 years or more until the aspen grows into sawtimber class.
62	4310 - Pine, Oak Mix	High Density Log	10.7	88	81-110	Stand of old, low quality black oak mixed with pine. Oak and jack pine are overmature and in decline. Heavy advanced oak understory. Some white pine in understory as well.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6225 - Bog	1.9	No	Unspecified	
3	6225 - Bog	4.7	No	Unspecified	
5	6225 - Bog	2.0	No	Unspecified	
7	6225 - Bog	0.9	No	Unspecified	
8	6225 - Bog	4.0	No	Unspecified	
12	6225 - Bog	2.6	No	Unspecified	
13	6229 - Mixed lowland shrub	2.3	No	Unspecified	
14	6229 - Mixed lowland shrub	19.6	No	Unspecified	
15	6229 - Mixed lowland shrub	2.2	No	Unspecified	
17	710 - Sand, Soil	1.1	No	Unspecified	
18	6229 - Mixed lowland shrub	17.8	No	Unspecified	
21	50 - Water	21.2	No	Unspecified	
22	6225 - Bog	3.4	No	Unspecified	
24	6225 - Bog	1.9	No	Unspecified	
33	6229 - Mixed lowland shrub	5.7	No	Unspecified	
34	710 - Sand, Soil	1.3	No	Unspecified	
40	6229 - Mixed lowland shrub	3.0	No	Unspecified	
42	6229 - Mixed lowland shrub	11.5	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
45	6229 - Mixed lowland shrub	38.5	No	Unspecified	Old beaver flooding
47	6229 - Mixed lowland shrub	11.9	No	Unspecified	
52	6225 - Bog	1.2	No	Unspecified	
54	6229 - Mixed lowland shrub	25.4	No	Unspecified	
60	3102 - Grass	3.1	No	Unspecified	
61	6239 - Mixed Emergent Wetland	24.5	No	Unspecified	



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.

Stand	SCA Type	SCA Name	Acres	Comments



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.

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.