



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 168 ENTRY YEAR: 2013

Compartment Acreage: 1279

County: Roscommon

Revision Date: 07-21-2011

Stand Examiner: Jason Lewicki

Legal Description: T23N R03W sections 35 and 36

Management Area: Upper Muskegon

Management Goals: Provide for sustainable ecosystem based management. Maintain healthy and diverse forested stands for wildlife, recreation and the production of forest products.

Soil and Topography: Topography is made up of a series of rolling hills. Soils are generally Greycalm and klacking sands on the uplands and Tawas mucks on the lowlands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment and the surrounding area is made up of primarily state owned lands.

Unique, Natural Features: None known

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: None known.

Watershed and Fisheries Considerations: None Known

Wildlife Habitat Considerations: Deer, grouse, Woodcock, turkey.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 35 and 36, T21N-R3W, Roscommon County

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay elsewhere in the State. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located in Section 36 and potential is thought to be good. Headquarters Field is located to the west. The field has produced over 11.3 million BO and 4.2 Bcf gas primarily from the Devonian Richfield Formation and is in secondary recovery operations currently. All of the State land is currently leased for oil and gas development.

Vehicle Access: Vehicle access is very good due to M-18 and a large amount of poor dirt roads (two tracks).

Survey Needs: None at this time

Recreational Facilities and Opportunities: Opportunities include hunting and snowmobiling.

Fire Protection: This compartment is dominated by hardwood cover types (mostly oak) that in combination with a good network of roads create a low wildfire concern.

Additional Compartment Information:

➤ **The following 5 reports from the Inventory System:**

- ◆ **Cover Type by Age Class**
- ◆ **Cover Type by Management Objective**
- ◆ **Compartment Volume Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**

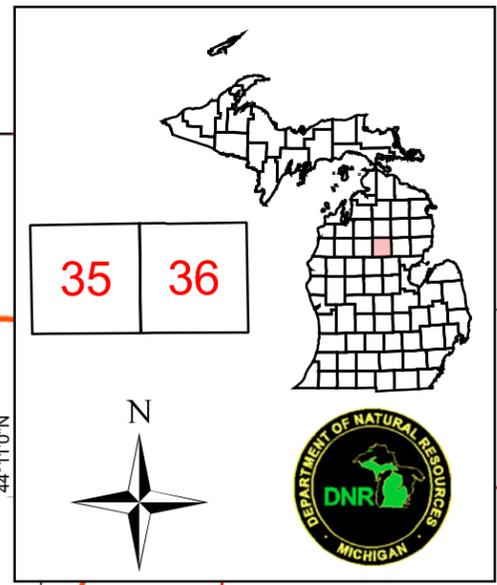
➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

- ◆ **Base feature information, stand numbers, cover types**
- ◆ **Proposed treatments**
- ◆ **Proposed road access system**
- ◆ **Suggested potential old growth**

Cover Type & Treatment Map

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

Compartment 168
 T21N, R03W, Sec. 35, 36
 County: Roscommon
 Unit: Roscommon
 YOE: 2013
 Acres: 1,277 GIS Calculated
 Stand Examiner: Jason Lewicki
 Map Revised: 8/15/2011
 Map Phase: Pre-Review



Legend

- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Pipe
- Power
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- ORV Trails
- Snowmobile Trails
- ORV Trail
- Snowmobile Trail
- State Forest Land

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

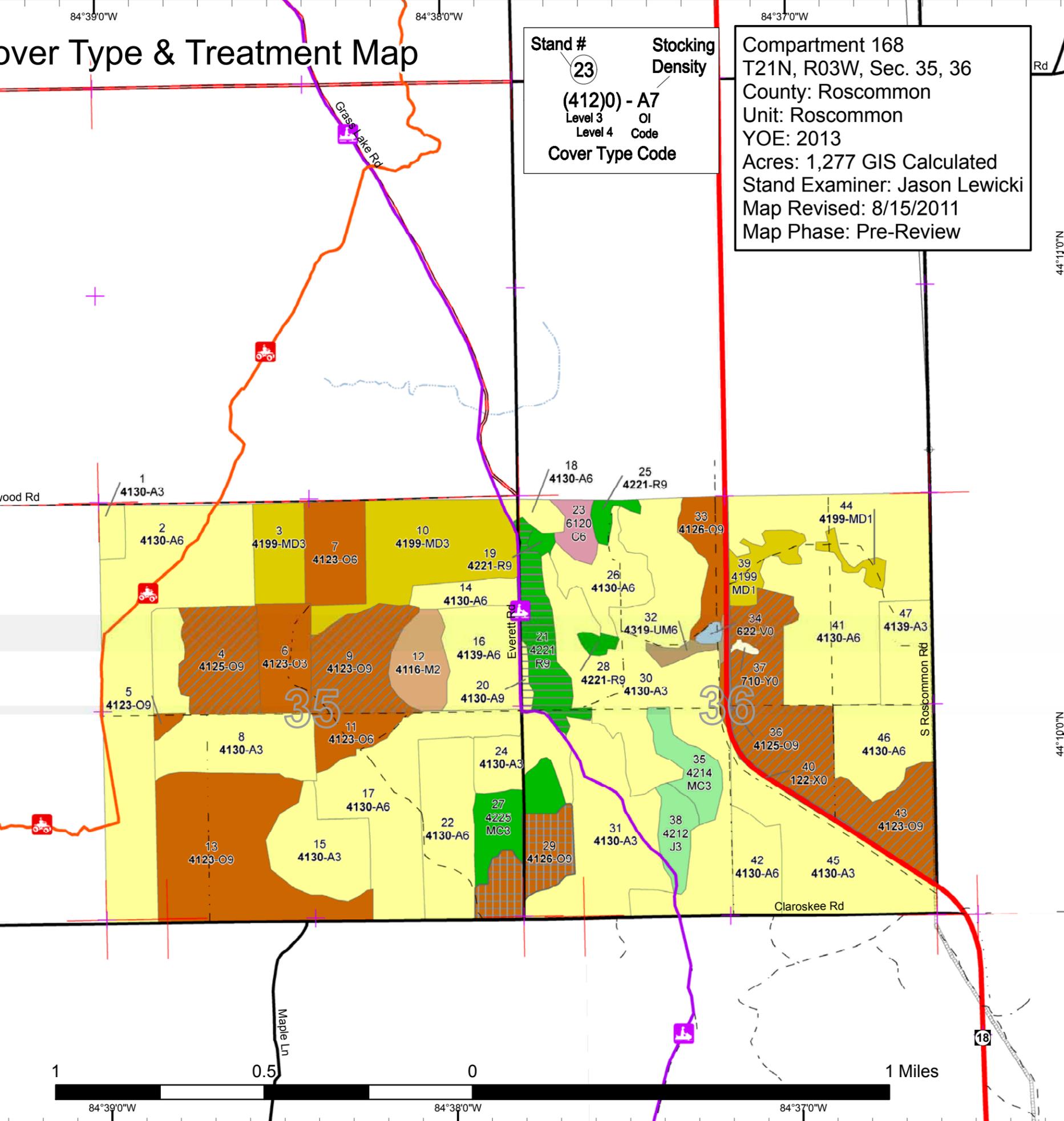
Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- 710 - Sand, Soil

Treatments

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



84°41'0"W 84°40'0"W 84°39'0"W 84°38'0"W 84°37'0"W

44°11'0"N 44°10'0"N

1 0.5 0 1 Miles

Stand Boundary Map

Stand # **23**
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35 36

Legend

- Miris Corners
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Pipe
- Power
- Intermittent Stream/Drain
- Stream
- ORV Trails
- Snowmobile Trails
- ORV Trail
- Snowmobile Trail
- Stand Boundaries

Forest Stands

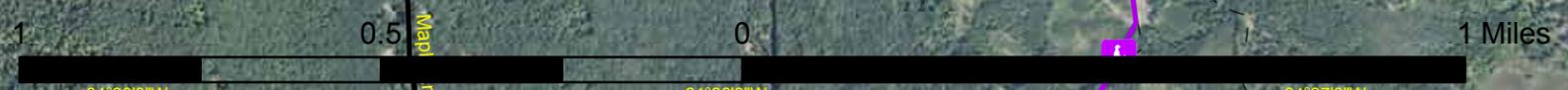
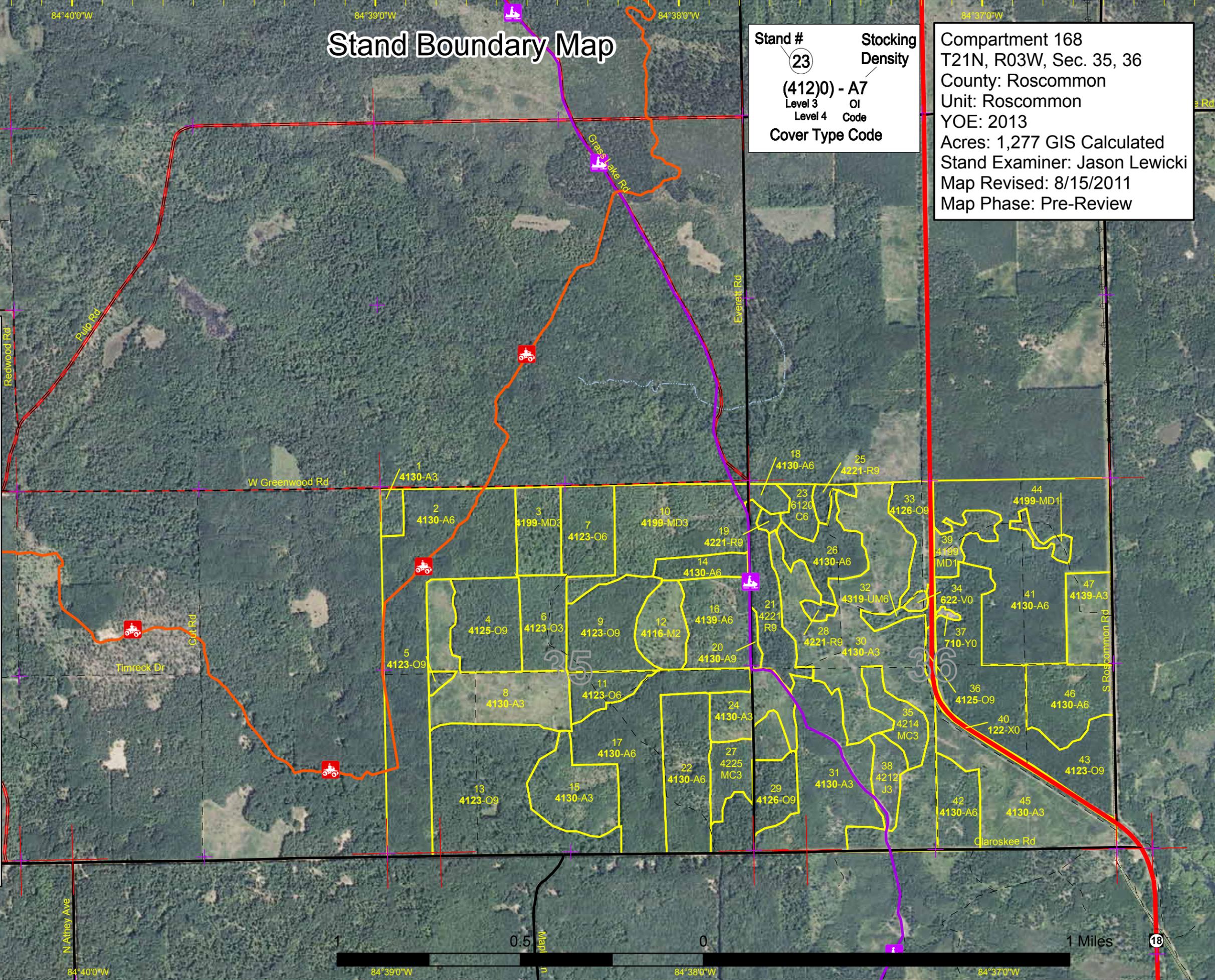
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Non-Forest Stands

Level 3

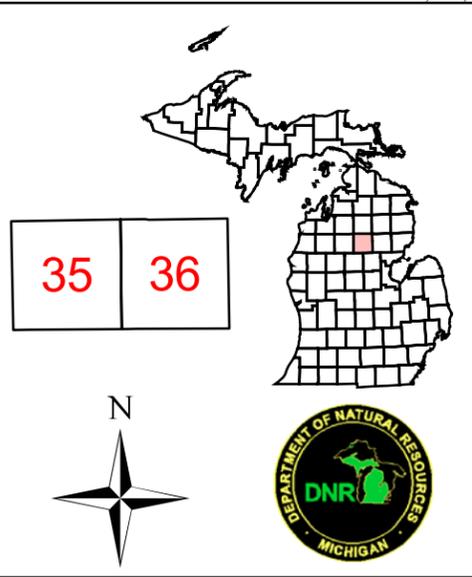
- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- 710 - Sand, Soil



84°41'0"W 84°40'0"W 84°39'0"W 84°38'0"W 84°37'0"W

44°11'0"N 44°10'0"N 44°9'0"N

Dedicated & Proposed Special Conservation Area Map



Stand # **23**
(412)0 - A7
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 T21N, R03W, Sec. 35, 36
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- Legend**
- Miris Corners
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - High Conservation Value Areas
 - Dedicated Management Areas
 - Stand Boundaries
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
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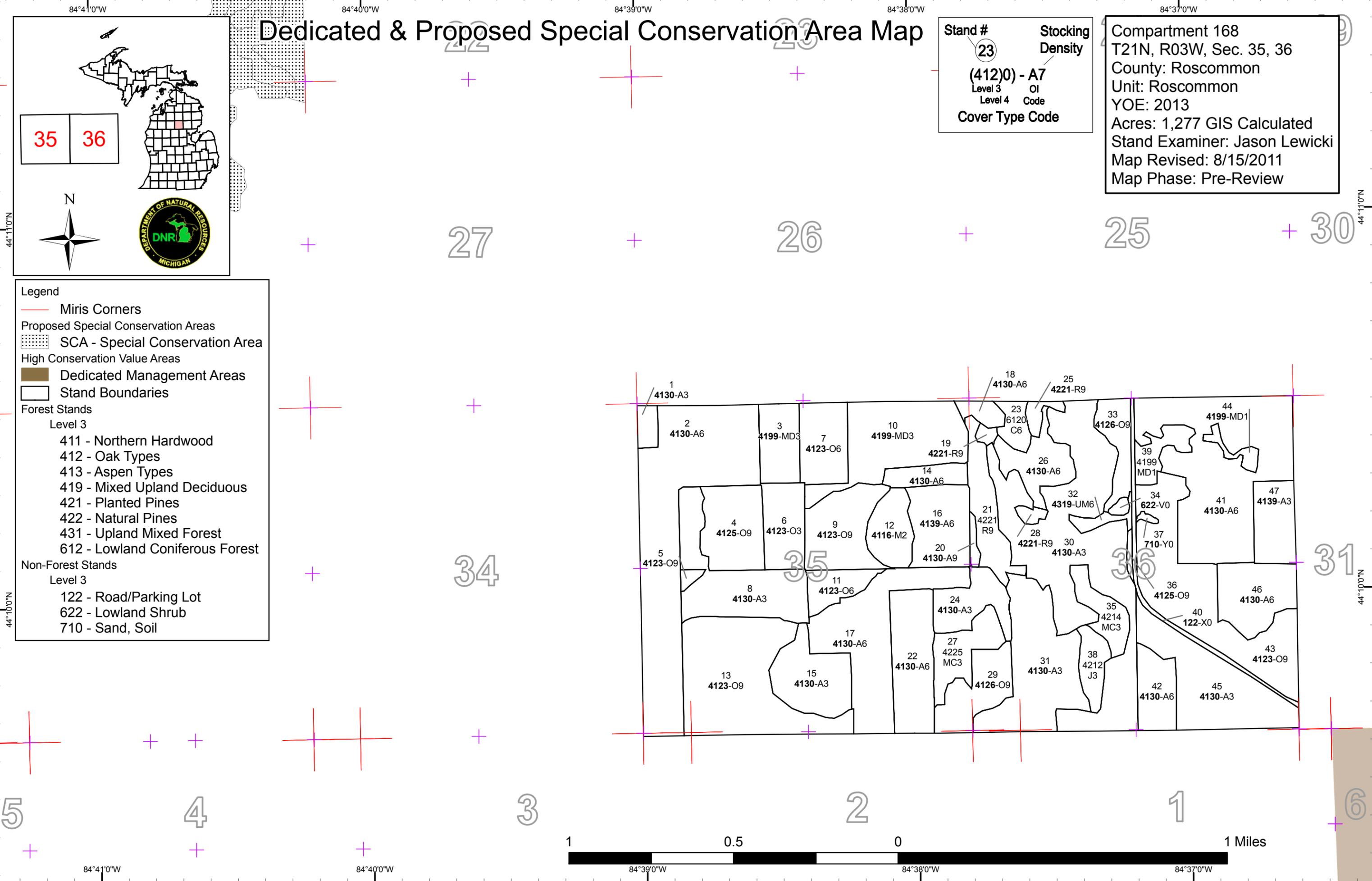
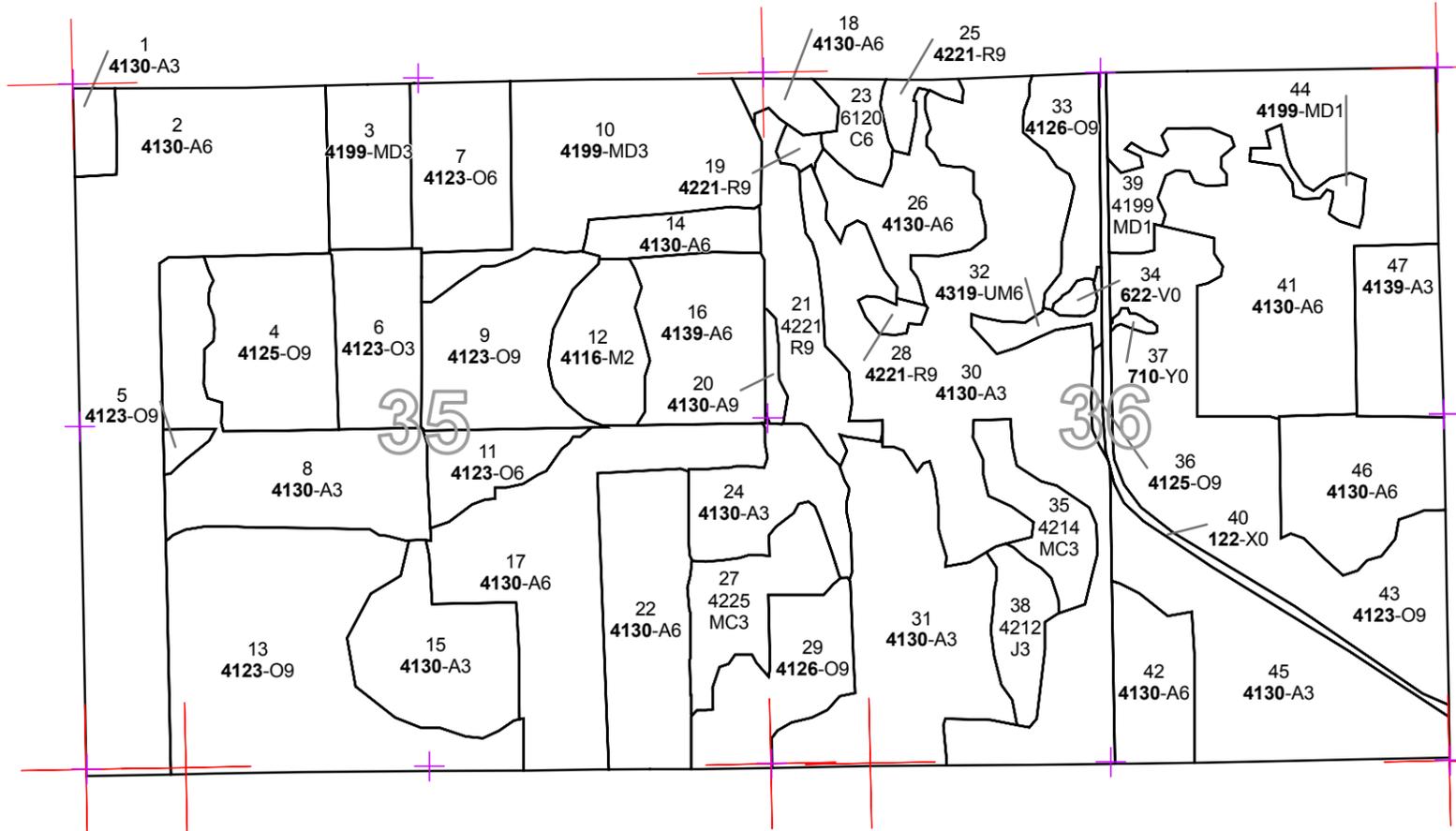


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Unrelen Age
Aspen	0	258	92	110	304	0	0	0	2	0	0	0	0	0	0	765
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7
Jack Pine	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	70	0	15	0	0	0	0	0	0	0	0	0	0	85
Natural Mixed Pines	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Oak	0	0	0	44	12	0	0	0	0	0	147	109	0	0	0	312
Planted Mixed Pines	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Red Pine	0	0	0	0	0	0	0	25	0	0	0	0	6	0	0	31
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	11	275	206	154	331	0	0	4	27	0	147	109	13	0	0	1277



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2013

Compartment 168
Total Compartment Acres: 1277

Acres by Treatment Type

Commercial Harvest - 185	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>
Aspen	2	0	0	0	0	0	2
Oak	0	0	24	0	137	0	161
Red Pine	22	0	0	0	0	0	22
Total	25	0	24	0	137	0	185



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	71168004-Cut	29.8	4125 - Black, N. Pin Oak	High Density Log	100	Harvest	Crown Thinning	4124 - Red with White Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Thin stand by removing 20-40% of crown cover. Remove poor formed, high risk and suppressed oak along with all red maple. Promote growth <u>Specs:</u> on stems with quality sawtimber potential. Protect and promote white pine. Manage for both oak and pine.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p>									
9	71168009-Cut	31.7	4123 - Red Oak	High Density Log	90	Harvest	Crown Thinning	4124 - Red with White Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Thin stand by removing 20-40% of crown cover. by removing poor formed and high risk oak. Target black oak and favor red oak with future <u>Specs:</u> sawlog potential. Protect and promote white pine component. Shortwood operation.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p>									
20	71168020-Cut	2.3	4130 - Aspen	High Density Log	70	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest with 2" spec and manage for aspen. Leave some healthy pine and oak for retention, visuals and verticle structure. Snowmobile <u>Specs:</u> trail runs along west edge of stand. Use appropriate specs to protect trail.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p>									
21	71168021-Cut	22.4	42210 - Natural Red Pine	High Density Log	70	Harvest	Clearcut with Reserves	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Manage understory which would be a mix of oak and pine. Mark to leave about 10-20% canopy of red/white pine and healthy oak. Protect and <u>Specs:</u> encourage advanced oak and pine understory. Encourage aspen expansion where possible. Accept a mix of aspen, oak, pine and maple for regeneration. Snowmobile trail runs along west edge of stand. Use appropriate specs to protect trail.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p>									
29	71168029-Cut	24.0	4126 - White, Black, N. Pin Oak	High Density Log	90	Harvest	Seed Tree	42141 - Planted Mixed Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Manage for a mixed stand of oak/aspen/pine. Harvest all jack pine, aspen, red maple and poor formed high risk oak. Favor leaving 10-20% <u>Specs:</u> canopy of healthy oak and pine. Encourage aspen expansion where possible. Protect and encourage white pine and oak understory. Accept a mix of regeneration from oak, maple aspen and pine.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p>									

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

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	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	71168043-Cut	75.1	4123 - Red Oak	High Density Log	90	Harvest	Crown Thinning	4123 - Red Oak	Cmpt. Review Proposal

Prescription. Thin by removing suppressed and poor formed oak, all red maple and aspen. Target 70-80 BA. Promote growth on high quality sawlog red oak.
Specs: Remove most oak within big aspen clones to promote aspen regen. Promote and protect pine component in stand. Shortwood spec needed.

OtherComments:NextSteps:

**Total Treatment
Acreage Proposed: 185.4**

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

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

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

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
71048_OutOfY OE_1-Cut	2.2				Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> thin to 120 SF by concentrating on improving the quality of the stand, no retention other than residual RP, save areas heavy to oak understory <u>Specs:</u> where possible</p> <p><u>Other</u> cut with stand to the west in 71046 <u>Comments:</u></p> <p><u>Next</u> manage for utility poles next YOE <u>Steps:</u></p>								
71048_OutOfY OE-Cut	4.0			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<p><u>Prescription</u> final harvest for aspen mgmt., mark oak SL to leave for wildlife mast, mark R/W pine SL for diversity, no retention other than marked leave <u>Specs:</u> trees, address green-up concerns on the east side of this stand if still a problem, dormant season cut to promote vigorous sprouting of the older aspen in the stand, any regeneration to a fully stocked stand is acceptable, trench and plant RP if regeneration fails</p> <p><u>Other</u> cut with stand to the west in 71046 <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>								
71118_OutOfY OE-Cut	6.6			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<p><u>Prescription</u> final harvest for aspen mgmt. mark or leave all oak for diversity/retention/visuals. buffer low marshy ground on southwest. leave out any wetter <u>Specs:</u> areas in the north part of the stand for BMP reasons. leave out areas with heavy R/W pine component for diversity/retention/visuals. Any regeneration of aspen/oak/pine to a fully stocked stand is acceptable. regeneration alternative is to plant red pine if stand is not fully stocked but this is unlikely.</p> <p><u>Other</u> treat with stand to the west in 71117, add proper protection specs to ensure trail status open to snowmobiles during hauling <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>								
71165_OutOfY OE-Cut	5.1				Harvest	Low Thinning	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> thin to 90-120 SF/Acre so as to enhance old growth/bio-diversity characteristics <u>Specs:</u></p> <p><u>Other</u> stand has a dense A/RM understory which will need to be addressed with appropriate sale specs, save W3 understory where possible, treat <u>Comments:</u> stand to the west in 71163 when this stand is treated (same stand)</p> <p><u>Next</u> <u>Steps:</u></p>								
Total Treatment Acreage Proposed:	17.9							

Stand	Roscommon Mgt. Unit			5 – Forested Stands		Compartment: 168	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	4130 - Aspen	High Density Sapling	5.0	16			
2	4130 - Aspen	High Density Pole	111.8	39			Most areas are growing nice bigtooth. Hold for sawlog growth.
3	4199 - Other Mixed Upland Deciduous	High Density Sapling	18.7	15			Mostly a red maple aspen stand. Some areas of oak and cherry mixed in. Some super canopy red oak log trees left from harvest.
4	4125 - Black, N. Pin Oak	High Density Log	29.8	100	81-110		Mixed stand of red, white and black oak. Rolling terrain. Oak quality and species composition changes with terrain. White pine in understory with more on the north end. Some white pine reaching through to canopy.
5	4123 - Red Oak	High Density Log	1.9	100	81-110		Small stand. Large nice quality red oak that was thinned last entry.
6	4123 - Red Oak	High Density Sapling	21.0	25	1-50		Oak and maple stand from stumpsprouts.
7	4123 - Red Oak	High Density Pole	23.0	25	1-50		Nice red oak and red maple stand from stump sprouts. Good quality oak forming. Some white pine mixed in.
8	4130 - Aspen	High Density Sapling	45.9	6			Aspen/red maple mixed stand with some oak stump sprouts. More oak on both ridge tops.
9	4123 - Red Oak	High Density Log	31.7	90	81-110		Mid quality red oak/black oak stand with white oak and white pine. White pine understory with some reaching into canopy. Wildfire burned a few acres in the NE corner of stand. Fire wasn't intense enough to hurt overstory but top killed maple and hazel. NE corner is also where site is best and has highest quality red oak.
10	4199 - Other Mixed Upland Deciduous	High Density Sapling	51.7	16			Red maple stump sprout stand mixed with oak and aspen clones. Some white pine mixed in which is heavier on the north end.
11	4123 - Red Oak	High Density Pole	12.4	39	51-80		Red oak stand from stump sprout origin.
12	4116 - Mixed N. Hardwood - Aspen	Medium Density	17.3	6			Stand was clearcut in 1995 and then burned in a wildfire in spring 2005. Red maple and aspen were top killed but sprouted back. Stand is mostly red maple stump sprouts but there are some red oak stump sprouts present. West side is more dense and thicker canopied. East side is much more open.
13	4123 - Red Oak	High Density Log	76.8	100	81-110		Decent quality red oak stand that was thinned last entry. Heavy aspen and maple understory. Quality fades out on N. end to a black oak mix. There is some oak in the understory on the north end as well. Some sapling beech present. Hold and reevaluate next entry for possible thinning??



S t a n d	Roscommon Mgt. Unit			5 – Forested Stands		Compartment: 168	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
14	4130 - Aspen	High Density Pole	10.0	39	81-110		
15	4130 - Aspen	High Density Sapling	29.8	16	1-50	Some more open areas growing cherry and oakstump sprouts. A few quaking aspen clones. Mostly a bigtooth aspen/red maple stand.	
16	4139 - Aspen, Mixed Deciduous	High Density Pole	28.5	16		Aspen found clumped and in clones along with oak and red maple. Some scattered red and white pine left from before the harvest.	
17	4130 - Aspen	High Density Pole	57.7	39	81-110	Nice stand of bigtooth aspen mixed with red maple. A few clones of quaking aspen along with some red oak stump sprouts. Allow stand to grow into sawtimber due to higher SI.	
18	4130 - Aspen	High Density Pole	5.5	39	51-80		
19	42210 - Natural Red Pine	High Density Log	1.9	110	111-140		
20	4130 - Aspen	High Density Log	2.3	70	81-110	Stand of old bigtooth aspen mixed with some pine and oak. Snowmobile trail runs along west edge of stand.	
21	42210 - Natural Red Pine	High Density Log	22.4	70	81-110	Mixed stand of red pine, jack pine and black oak. Jack pine is experiencing heavy mortality. Oak is in poor shape also. Some areas have a heavier oak canopy than pine. Good mix of red and white pine in understory as well as alot of advanced oak regeneration. Snowmobile trail runs along south and west side of trail.	
22	4130 - Aspen	High Density Pole	35.3	28	81-110		
23	6120 - Lowland Cedar	High Density Pole	7.4	110	171-200	Nice little cedar swamp with some black spruce and scattered large white pine.	
24	4130 - Aspen	High Density Sapling	20.1	6		Stand was previously oak/aspen and sprouted back to mostly aspen. Some areas did come back to good stump sprout oak. Has old white oak super canopy left from harvest.	
25	42210 - Natural Red Pine	High Density Log	3.9	110	111-140	Small stand between cedar swamp and upland aspen. Large red and white pine with white pine and balsam understory..	
26	4130 - Aspen	High Density Pole	20.1	39	111-140	Aspen pole timber stand that fades to lower wetter areas to the west.	
27	42250 - Pine, Oak	High Density Sapling	19.4	16		Red pine lantation with some natural jack pine seeded in. Stand appears to be planted around aspen clones. Heavy oak component mixed in.	





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	42210 - Natural Red Pine	High Density Log	2.4	72	81-110	Small red pine sawtimber stand with some jack pine and oak . Most of the jack pine has already died. Oak understory.
29	4126 - White, Black, N. Pin Oak	High Density Log	24.0	90	81-110	Mixed stand of oak and pines. Black and white oak present but white is better formed. Black oak are poor formed and are in decline. Advanced oak and white pine regen in understory. Bigtooth aspen is found scattered and in clones. Some patches of jack pine present.
30	4130 - Aspen	High Density Sapling	119.6	6		Thicker areas have sub canopy of oak and cherry developing.
31	4130 - Aspen	High Density Sapling	56.9	23		Some areas developing pole timber. A few areas heavier to oak and even a little jack pine.
32	4319 - Mixed Upland Forest	High Density Pole	4.2	60	81-110	
33	4126 - White, Black, N. Pin Oak	High Density Log	14.4	90	81-110	Mixed oak stand with areas dominated by white oak. Heavy amounts of white pine regen with some making it into the canopy. Far north end rises up a ridge and becomes dominated by good quality red oak.
35	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Sapling	13.7	16		Areas planted to red pine with some natural jack pine(FTP indicated planted to jack but seems to be red). Some aspen, oak, maple mixed in.
36	4125 - Black, N. Pin Oak	High Density Log	1.4	90	81-110	Small thin strip of oak between powerline and M-18
38	42120 - Planted Jack Pine	High Density Sapling	11.1	16		Jack pine plantation with some red pine planted in some areas.
39	4199 - Other Mixed Upland Deciduous	Low Density Sapling	10.7	39	1-50	"U" type with some small grass openings.
41	4130 - Aspen	High Density Pole	98.6	39	81-110	Large stand primarily dominated by bigtooth aspen. Some nice red oak stems scattered about. Hold due to good aspen site. Allow to grow into sawtimber.
42	4130 - Aspen	High Density Pole	17.7	27		
43	4123 - Red Oak	High Density Log	75.1	90	111-140	Oak stand dominated by red oak mixed with bigtooth aspen and red maple. Some white oak mixed in with a higher percentage on north end of stand. Bigtooth aspen is found scattered and in a few large clones. Red oak and aspen are in good form on good site. Red maple and areas of white pine in understory. 15 plots taken BA ranges from 60-180 with an average of 121BA.
44	4199 - Other Mixed Upland Deciduous	Low Density Sapling	4.2	39	1-50	"U" type

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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 168
Year of Entry: 2013



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4130 - Aspen	High Density Sapling	52.2	6		Oak/aspen stand that was harvested last entry that regenerated to mostly aspen.
46	4130 - Aspen	High Density Pole	28.3	18	51-80	
47	4139 - Aspen, Mixed Deciduous	High Density Sapling	20.0	7		Failed oak regeneration cut. Stand was an O9 and clearcut last entry with a MO of oak. Now has very little oak regeneration. Where aspen didn't sprout and fill in, red maple stump sprouts dominate.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
34	6225 - Bog	1.6	N/A	Unspecified	
37	710 - Sand, Soil	0.9	N/A	Unspecified	
40	122 - Road/Parking Lot	8.9	N/A	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
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.