



**ROSCOMMON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 19      ENTRY YEAR: 2013**

**Compartment Acreage: 827**

**County: Roscommon**

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**Revision Date:** 07-21-2011

**Stand Examiner:** Jason Lewicki

**Legal Description:** T24N R04W sections 9 and 10

**Management Area:** Upper Muskegeon

**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 generally flat with large wetland areas both forested and non forested. Soils range from Greycalm and Klacking sands on the uplands to Dawson-loxley peats on the lowlands.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is made up of primarily large blocks of state owned land especially west of US-127. There is a fair amount of private property (American legion) east of US-127 along the shores of Higgins Lake.

**Unique, Natural Features:** Heideman swamp lies almost entirely within compartment.

**Archeological, Historical, and Cultural Features:** None known

**Special Management Designations or Considerations:** Some SCA's associated with Heideman swamp.

**Watershed and Fisheries Considerations:** Higgins Lake lies on this compartments east boundry.

**Wildlife Habitat Considerations:** Deer, grouse, Woodcock, turkey, bear

**Mineral Resource and Development Concerns and/or Restrictions:**

Sections 9 and 10, T24N-R4W, Roscommon County

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 nearby gravel pits are associated with upland areas. The nearest gravel pit is located two miles to the southeast. Gravel potential in the compartment is thought to be good on the upland areas. East Norwich Field lies one mile to the west. The field has produced over 15.9 million BO and 15.7 Bcf gas primarily from the Devonian

Richfield Formation. It is in secondary recovery operations currently. Most of the State land is currently leased for oil and gas development

**Vehicle Access:** Vehicle access is good on the uplands east of US-127 and very poor due to wetlands west of US-127.

**Survey Needs:** None at this time

**Recreational Facilities and Opportunities:** Opportunities include hunting and fishing.

**Fire Protection:** Hardwood and lowland cover types dominate this compartment. Good vehicle access on the east side creates low wildfire concerns.

**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

Compartment 19  
 T24N, R04W, Sec. 9, 10  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2013  
 Acres: 772 GIS Calculated  
 Stand Examiner: Jason Lewicki  
 Map Revised: 8/15/2011  
 Map Phase: Pre-Review

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

9 10



**Legend**

- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Pipe
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- MCCCT Trails
- ORV Trails
- Snowmobile Trails
- MCCCT Trail
- 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
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

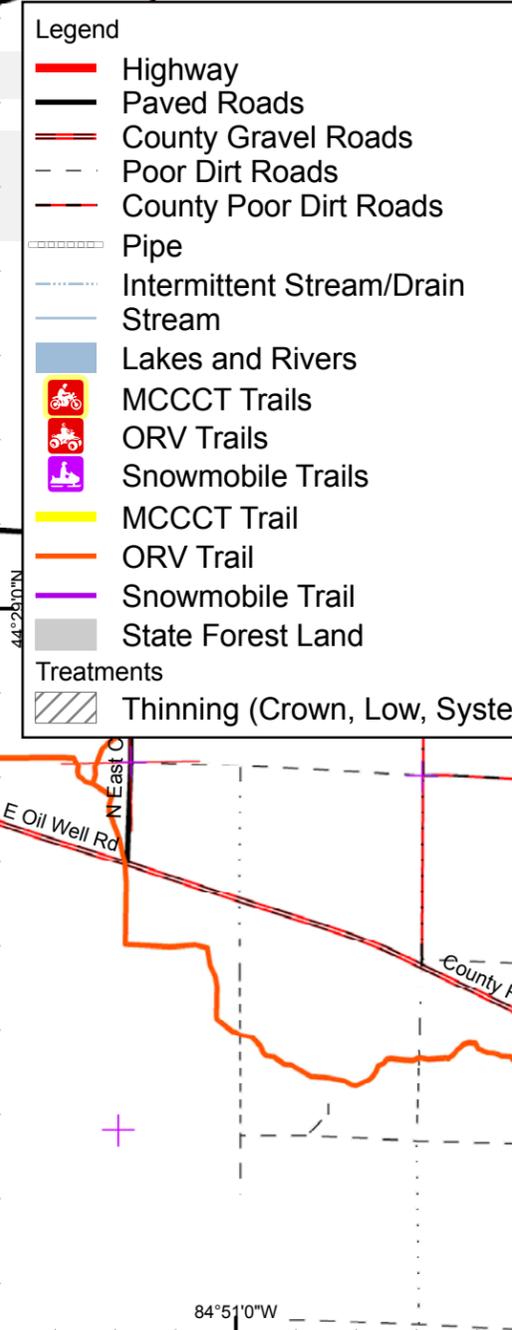
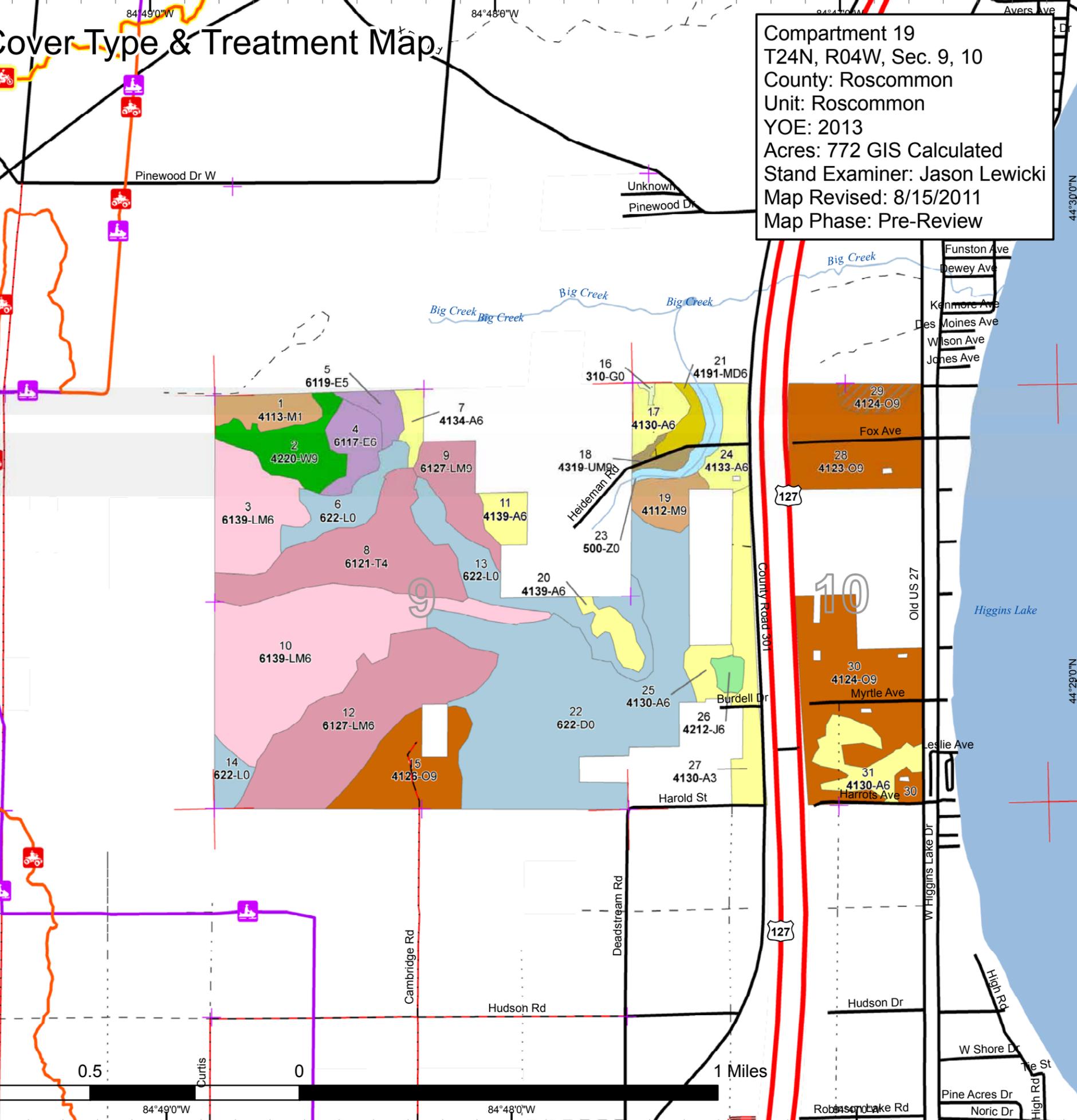
**Non-Forest Stands**

Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

**Treatments**

- Thinning (Crown, Low, Systematic)



# Stand Boundary Map

Compartment 19  
 T24N, R04W, Sec. 9, 10  
 County: Roscommon  
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 Stand Examiner: Jason Lewicki  
 Map Revised: 8/15/2011  
 Map Phase: Pre-Review

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

9 10

**Legend**

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

**Forest Stands**

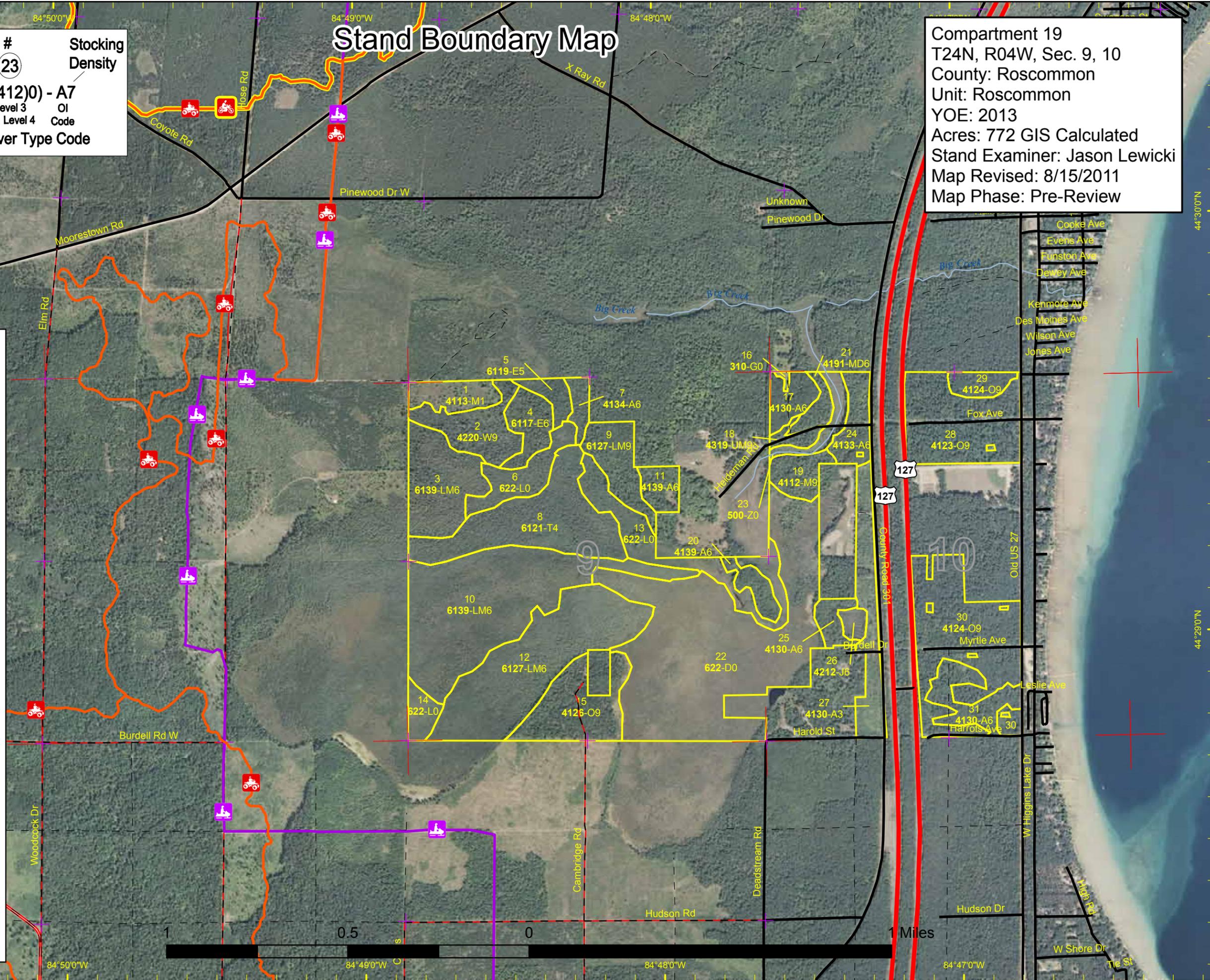
Level 3

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

**Non-Forest Stands**

Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



44°30'0"N

44°29'0"N

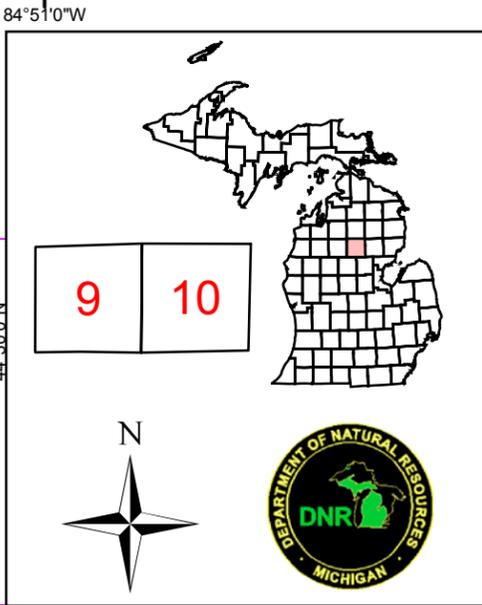
84°51'0"W

84°50'0"W

84°49'0"W

84°48'0"W

84°47'0"W

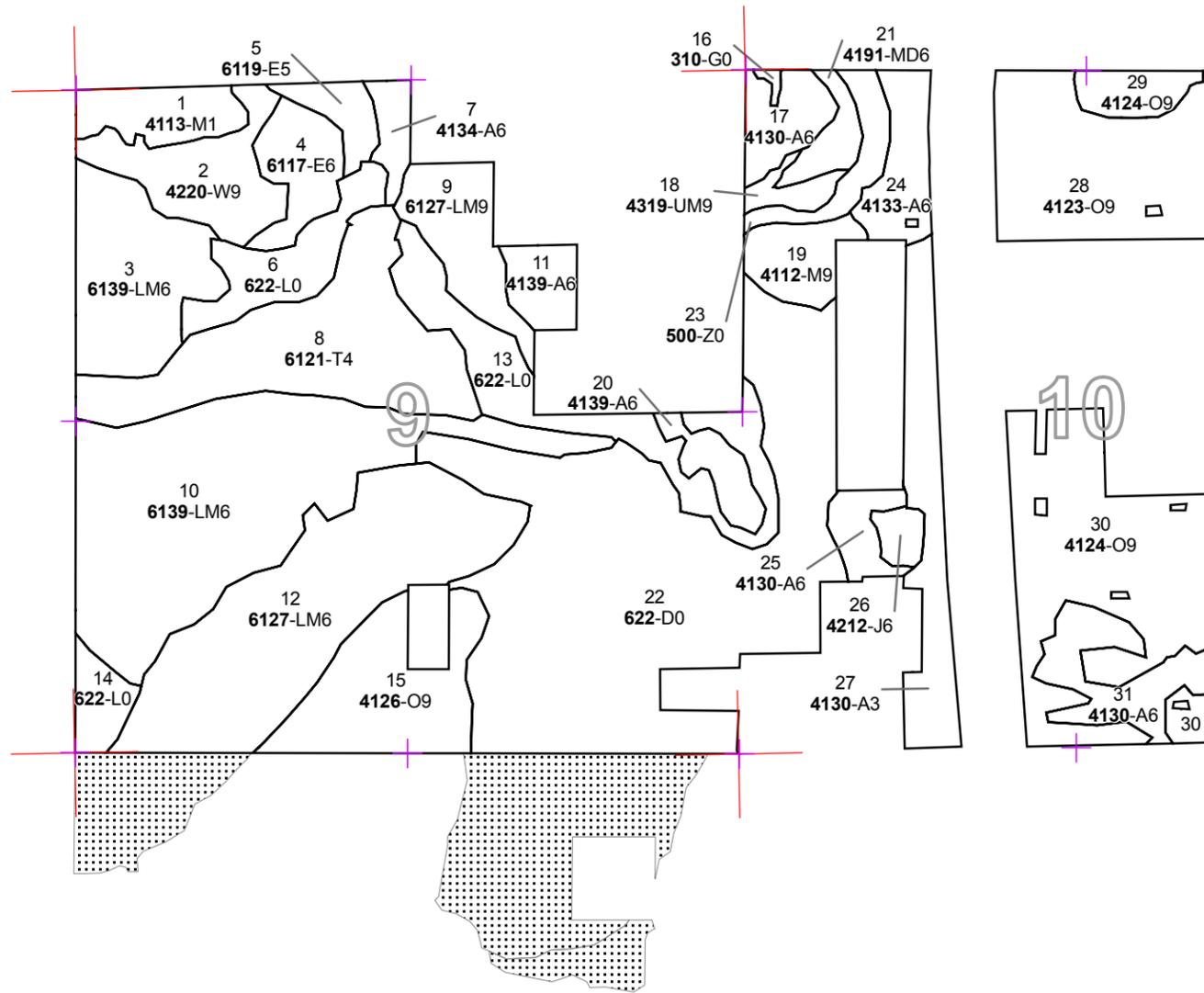


Stand # **23** Stocking Density  
**(412)0 - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

# Dedicated & Proposed Special Conservation Area Map

Compartment 19  
 T24N, R04W, Sec. 9, 10  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2013  
 Acres: 772 GIS Calculated  
 Stand Examiner: Jason Lewicki  
 Map Revised: 8/15/2011  
 Map Phase: Pre-Review

- Legend**
- Miris Corners
  - Proposed Special Conservation Areas
  - ▨ SCA - Special Conservation Area
  - Special Conservation Areas
  - ⚓ Boat Access Sites
  - Cold Water Streams
  - Cold Water Lakes
  - ▭ Stand Boundaries
  - Forest Stands
  - Level 3
  - 411 - Northern Hardwood
  - 412 - Oak Types
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
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  - Non-Forest Stands
  - Level 3
  - 310 - Herbaceous Openland
  - 500 - Water
  - 622 - Lowland Shrub



1 0.5 0 1 Miles

84°51'0"W 84°50'0"W 84°49'0"W 84°48'0"W 84°47'0"W

44°30'0"N

44°29'0"N

44°30'0"N

44°29'0"N

**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 +		Unretn Age
Aspen	0	25	0	31	0	22	0	13	0	0	0	0	0	0	0	91
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	71	0	0	18	0	0	0	88
Lowland Deciduous	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	120
Lowland Shrub	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Mixed Upland Deciduous	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	12	0	0	0	0	0	0	0	11	0	0	0	0	0	22
Oak	0	0	0	0	0	0	0	0	0	113	0	30	0	0	0	143
Tamarack	0	0	0	0	0	0	0	0	0	0	0	52	0	0	0	52
Treed Bog	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	21
<b>Total</b>	<b>202</b>	<b>37</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>32</b>	<b>0</b>	<b>32</b>	<b>71</b>	<b>123</b>	<b>0</b>	<b>240</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>772</b>



## Table 2 – Proposed Treatment Summaries

**Roscommon Mgt. Unit**  
**Year of Entry 2013**

**Compartment 019**  
**Total Compartment Acres: 772.0**

### Acres by Treatment Type

Commercial Harvest - 7	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

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Oak</b>		0	0	0	0	7	0	7
	<b>Total</b>	0	0	0	0	7	0	7

**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
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Prescription  
Specs:

Other  
Comments:

Next  
Steps:

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**Total Treatment  
Acreage Proposed: 0**

Table 4 -- Treatments Prescribed with  
a Limiting FactorS  
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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29 71019029-Cut	7.0	4124 - Red with White Oak	High Density Log	85	Harvest	Crown Thinning	4124 - Red with White Oak	Cmpt. Review Proposal

Prescription Thin stand whenever stand to the north is treated. Too small for it's own sale with no practicle landing areas.

Specs:

Other

Comment:

Next

Steps:

Limiting Factor and No 4D: Low volume (small acreage)  
Treatment Reason

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**Total Treatment  
Acreage Proposed: 7.0**

**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
<b>71048_OutOfY OE_1-Cut</b>	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>								
<b>71048_OutOfY OE-Cut</b>	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>								
<b>71118_OutOfY OE-Cut</b>	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>								
<b>71165_OutOfY OE-Cut</b>	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>								
<b>Total Treatment Acreage Proposed:</b>	<b>17.9</b>							

Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 019	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	4113 - R.Maple, Conifer	Low Density Sapling	11.9	6			Jack pine final harvest with some small pine/balsam and maple left from harvest. Some natural jack pine present. Stand was trenched and planted but survival seems very low.
2	42201 - Natural White Pine, Mixed Deciduous	High Density Log	21.3	100			On old growth plan
3	6139 - Mixed Lowland Forest	High Density Pole	32.0	100			part of old growth plan.
4	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	12.7	65	51-80		
5	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	6.4	65	1-50		
7	4134 - Aspen, Spruce/Fir	High Density Pole	5.3	65			part of old growth plan
8	6121 - Tamarack	Low Density Pole	51.6	100			part of old growth plan
9	6127 - Lowland Pine	High Density Log	17.6	100			part of old growth plan. Old inventory indicates "W9" stand....
10	6139 - Mixed Lowland Forest	High Density Pole	87.8	100			
11	4139 - Aspen, Mixed Deciduous	High Density Pole	8.0	65			part of old growth plan,
12	6127 - Lowland Pine	High Density Pole	70.6	75	51-80		Very wet boggy stand of white pine and black spruce. Part of Heideman swamp. Labrador tea ground cover.
15	4126 - White, Black, N. Pin Oak	High Density Log	30.2	105	81-110		Stand of oak and pine. Some jack pine mixed in along west edge. Some very nice large canopy white oak. Large 20+" red and white pine found especially on west side of stand.
17	4130 - Aspen	High Density Pole	9.9	46	81-110		Bigtooth aspen pole timber stand with some scattered supercanopy red and white oak. Good site, hold for another 10-20 yrs.
18	4319 - Mixed Upland Forest	High Density Log	4.1	110	81-110		Part of old growth plan
19	4112 - Maple, Beech, Cherry Association	High Density Log	10.6	86	81-110		Red maple stand mixed with some white pine. A small area of large 20+" red and white pine found on north end of stand. Some low wetter areas but overall upland. An old ditch is on south end of stand running east and west.
20	4139 - Aspen, Mixed Deciduous	High Density Pole	7.4	27			



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## Roscommon Mgt. Unit

## 5 – Forested Stands

Compartment: 019

Year of Entry: 2013



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	5.8	46	81-110	Primarily a red maple and white pine stand.
24	4133 - Aspen, Mixed Pine	High Density Pole	12.5	40	51-80	Red maple and aspen regen mixed with some white pine.
25	4130 - Aspen	High Density Pole	6.6	28		
26	42120 - Planted Jack Pine	High Density Pole	3.6	49	51-80	
27	4130 - Aspen	High Density Sapling	24.9	7		
28	4123 - Red Oak	High Density Log	43.9	85	51-80	Red oak stand that was thinned in 1996. Heavy red maple understory with some good white oak saplings. Some areas of bigtooth aspen from harvest. Some very large good quality red oak.
29	4124 - Red with White Oak	High Density Log	7.0	85	111-140	Red and white oak stand that appears to have never been treated. Red and white oak are large with good form. Some red maple and large bigtooth aspen mixed in. Good amounts of white oak in understory.
30	4124 - Red with White Oak	High Density Log	61.8	85	81-110	Good red and white oak site. Stand was thinned in 1984. Some areas of scattered white pine.
31	4130 - Aspen	High Density Pole	16.5	27	51-80	Bigtooth aspen stand with som scattered super canopy oak and pine. Stand boundary may not be completely accurate.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	6229 - Mixed lowland shrub	16.1	No	Unspecified	
13	6220 - Alder/willow	29.7	No	Unspecified	
14	6229 - Mixed lowland shrub	6.8	No	Unspecified	
16	3102 - Grass	0.7	Yes	High (NonForested)	
22	6224 - Treed Bog	140.6	No	Unspecified	
23	50 - Water	8.4	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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.