



**ROSCOMMON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 77      ENTRY YEAR: 2013**

**Compartment Acreage: 1642**

**County: Roscommon**

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**Revision Date:** 06-29-2011

**Stand Examiner:** Ben Wiese

**Legal Description:** T23N R04W sections 19, and 20

**Management Area:** Houghton Lake Wetlands

**Management Goals:** Provide for sustainable ecosystem based management. Maintain healthy and diverse forested stands for wildlife, recreation and the production of forest products. Set up a lowland hardwood timber harvest to help balance age classes and to determine the feasibility of harvesting on lowland muck sites.

**Soil and Topography:** Soils consist of poorly drained post glacial muck, including Wakeley and Deford muck. The topography is relatively flat outwash plain with very little elevation change.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is on the west edge of Roscommon County and is bordered by state owned land except for a few private parcels to the east.

**Unique, Natural Features:** Historical Black Tern located in N1//2 of section 19. Historical Osprey nests along Reedsburg flooding. Great Blue Heron Rookery in the NW ¼ of section 21.

**Archeological, Historical, and Cultural Features:** Archeological sites noted in section 19.

**Special Management Designations or Considerations:** None noted

**Watershed and Fisheries Considerations:** Reedsburg Flooding located in west side of compartment.

**Wildlife Habitat Considerations:** Deer, grouse, turkey, bear, birds.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and peat/muck. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. Most of the nearby gravel pits are associated with upland areas. The closest gravel pit is located one mile to the south and potential is thought to be limited. Enterprise Field lies to the north and west. The field has produced over 4.7 million BO primarily from the Devonian Richfield

Formation, and is in secondary recovery operations currently. Most of the State land was recently leased for oil and gas development.

**Vehicle Access:** There is limited access throughout the compartment.

**Survey Needs:** None at this time

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

**Fire Protection:** Majority of compartment is lowland with poor access.

**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 77  
 T23N, R04W, Sec. 19-21  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2013  
 Acres: 1,634 GIS Calculated  
 Stand Examiner: Ben Wiese  
 Map Revised: 8/15/2011  
 Map Phase: Pre-Review

**Legend**

- Highway
- Paved Roads
- Poor Dirt Roads
- Culverts
- Intermittent Stream/Drain
- Stream
- Snowmobile Trails
- Snowmobile Trail
- State Forest Land

**Treatments**

- Planting (tree species)
- Clearcut (w/Reserves, Patch/Strip)

**Forest Stands**

Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

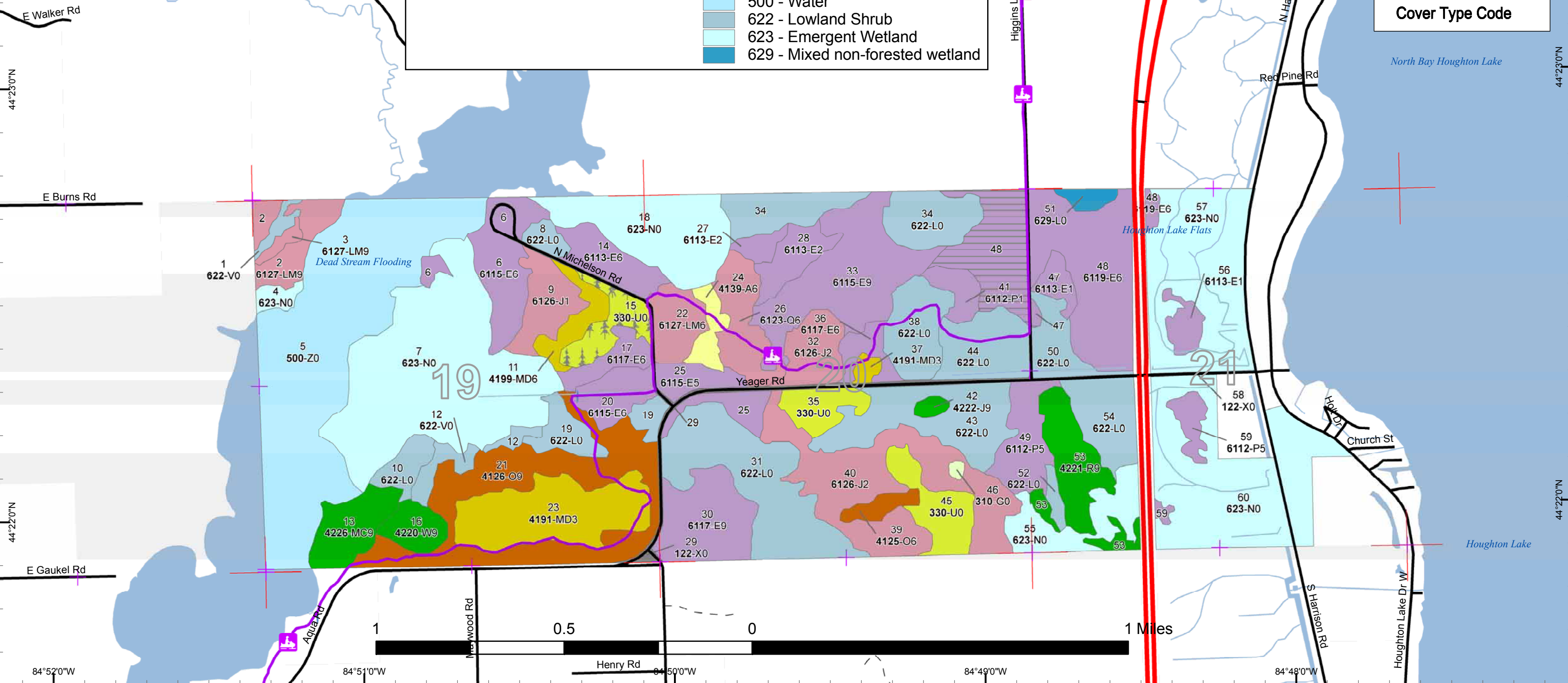
**Non-Forest Stands**

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

19 20 21

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





# Stand Boundary Map

Compartment 77  
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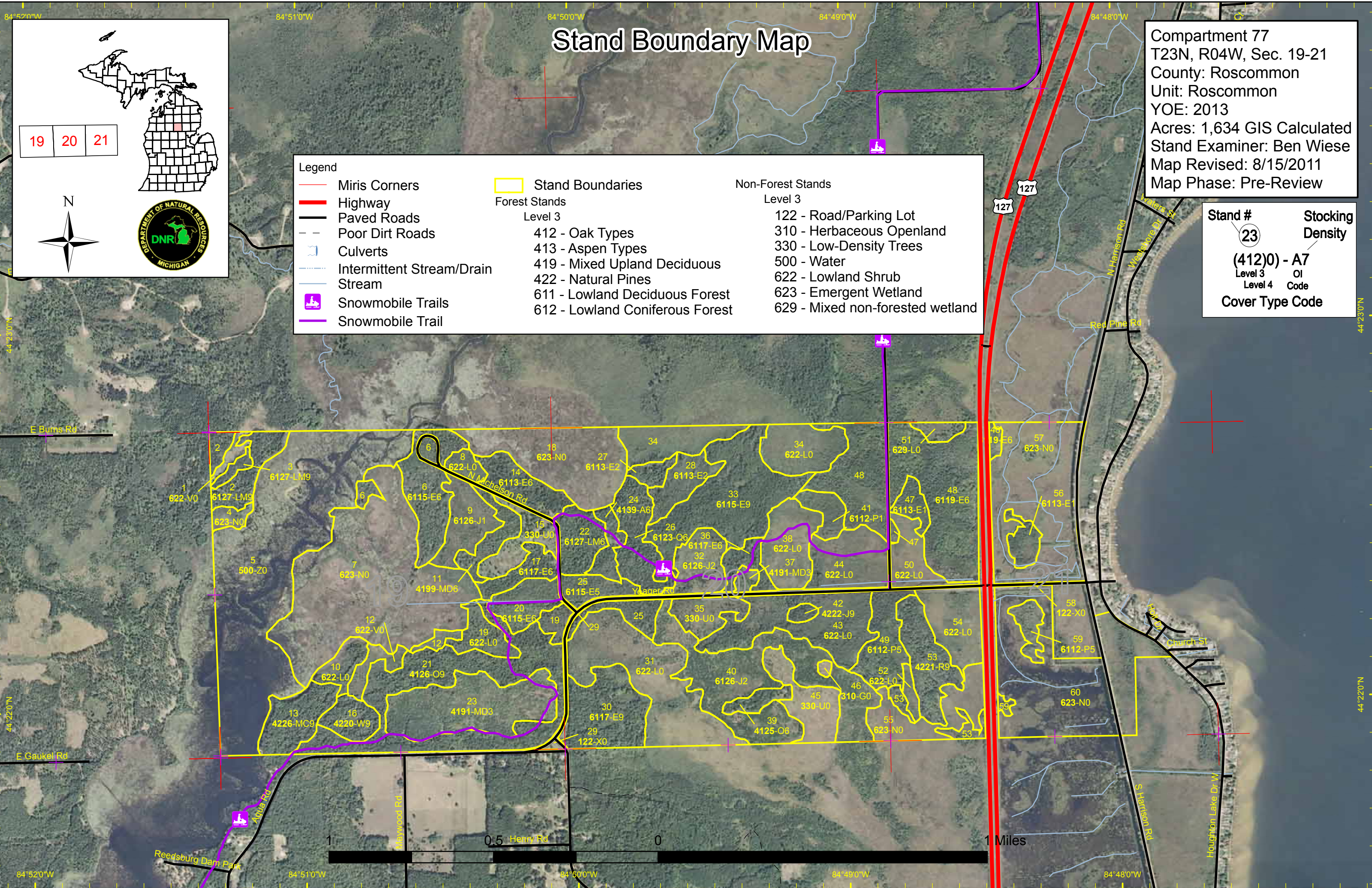
19 20 21



### Legend

- |  |                           |                                 |                  |                                  |  |
|--|---------------------------|---------------------------------|------------------|----------------------------------|--|
|  | Miris Corners             |                                 | Stand Boundaries | <b>Non-Forest Stands</b>         |  |
|  | Highway                   | <b>Forest Stands</b>            |                  | <b>Level 3</b>                   |  |
|  | Paved Roads               | <b>Level 3</b>                  |                  | 122 - Road/Parking Lot           |  |
|  | Poor Dirt Roads           | 412 - Oak Types                 |                  | 310 - Herbaceous Openland        |  |
|  | Culverts                  | 413 - Aspen Types               |                  | 330 - Low-Density Trees          |  |
|  | Intermittent Stream/Drain | 419 - Mixed Upland Deciduous    |                  | 500 - Water                      |  |
|  | Stream                    | 422 - Natural Pines             |                  | 622 - Lowland Shrub              |  |
|  | Snowmobile Trails         | 611 - Lowland Deciduous Forest  |                  | 623 - Emergent Wetland           |  |
|  | Snowmobile Trail          | 612 - Lowland Coniferous Forest |                  | 629 - Mixed non-forested wetland |  |

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



E Burns Rd

E Gaukel Rd

84°52'0"W

Reedsburg Dam Park

84°51'0"W

Claywood Rd

0.5 Henry Rd

84°50'0"W

0

84°49'0"W

1 Miles

84°48'0"W

S Harrison Rd

Houghton Lake Dr W

Church St

Red Pine Rd

N Harrison Rd

Westshore Dr

127

127

44°23'0"N

44°22'0"N

44°23'0"N

44°22'0"N

84°52'0"W

84°51'0"W

84°50'0"W

84°49'0"W

84°48'0"W

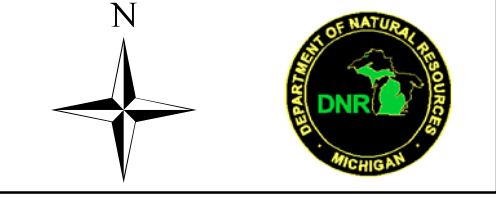
84°47'0"W



# Dedicated & Proposed Special Conservation Area Map

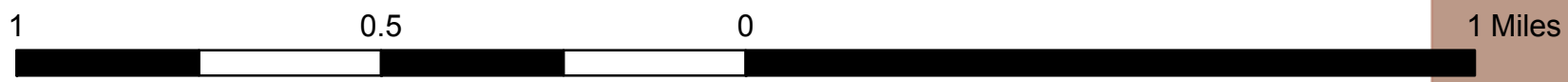
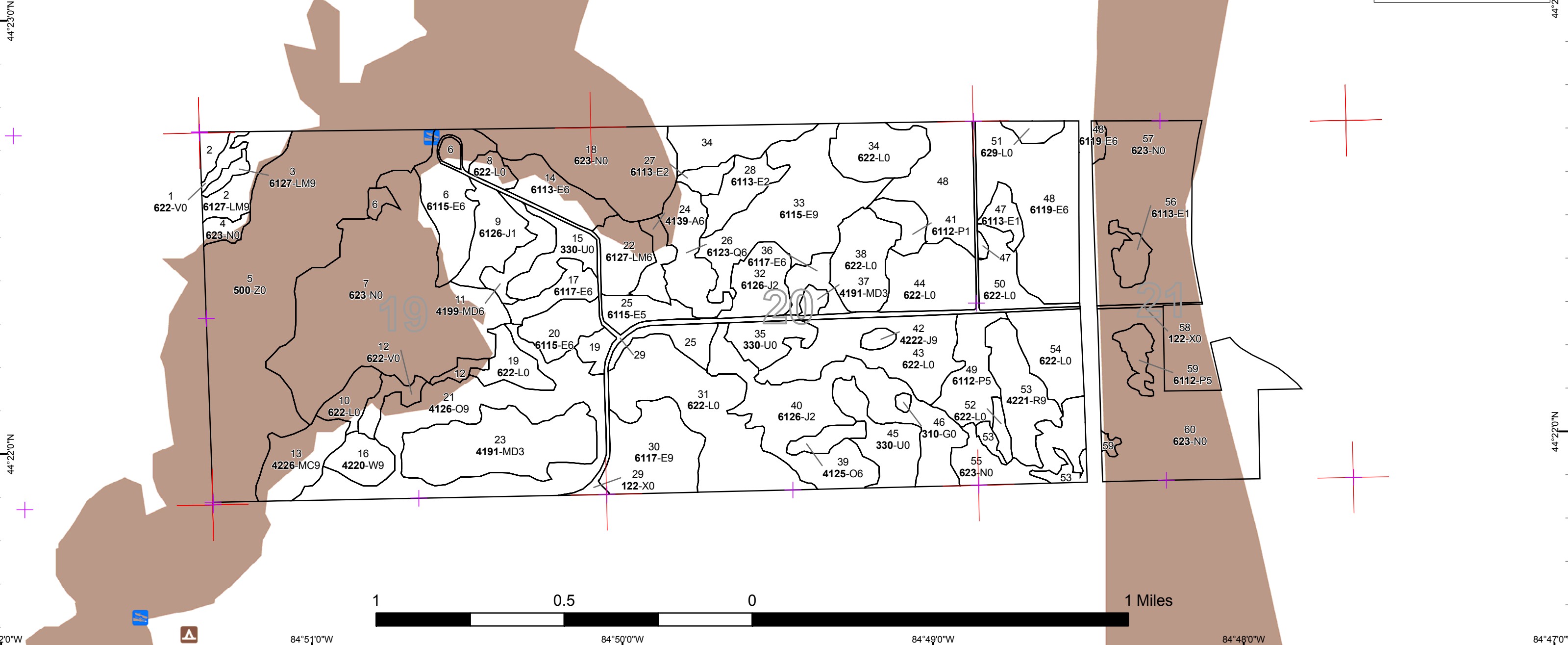
Compartment 77  
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 Map Revised: 8/15/2011  
 Map Phase: Pre-Review

19 20 21



Legend		Forest Stands	Non-Forest Stands
—	Miris Corners	Level 3	Level 3
+	Remonumented Section Corners	412 - Oak Types	122 - Road/Parking Lot
⚓	Boat Access Sites	413 - Aspen Types	310 - Herbaceous Openland
⚓	Campgrounds	419 - Mixed Upland Deciduous	330 - Low-Density Trees
■	Wildlife Management Areas	422 - Natural Pines	500 - Water
□	Stand Boundaries	611 - Lowland Deciduous Forest	622 - Lowland Shrub
		612 - Lowland Coniferous Forest	623 - Emergent Wetland
			629 - Mixed non-forested wetland

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



**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 +		Uneven Age
Aspen	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Bog	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	90	0	19	0	0	0	3	0	0	0	0	0	0	111
Low-Density Trees	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Aspen/Balsam Poplar	0	0	9	0	0	8	21	0	0	0	0	0	0	0	0	38
Lowland Conifers	0	0	0	0	0	16	23	0	22	0	0	0	0	0	0	60
Lowland Deciduous	0	0	0	9	26	51	8	51	0	153	26	0	0	0	0	323
Lowland Shrub	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	270
Marsh	375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	375
Mixed Upland Deciduous	0	0	50	3	0	0	0	11	0	0	0	0	0	0	0	64
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	21
Oak	0	0	0	0	0	0	0	0	6	0	74	0	0	0	0	80
Red Pine	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157
White Pine	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
<b>Total</b>	<b>886</b>	<b>0</b>	<b>148</b>	<b>12</b>	<b>54</b>	<b>75</b>	<b>82</b>	<b>62</b>	<b>30</b>	<b>185</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1634</b>



## Table 2 – Proposed Treatment Summaries

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

**Compartment 077**  
**Total Compartment Acres: 1634**

### Acres by Treatment Type

Commercial Harvest - 33	Site Prep - 0	Tree Planting - 15	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
Lowland Deciduous	33	0	0	0	0	0	33
Total	33	0	0	0	0	0	33

**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
48 71077048-Cut	33.1	6119 - Mixed Lowland Deciduous Forest	High Density Pole	84	Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Final harvest, clearcut with reserves. Use 4" diameter limit. May want to set up in the winter. Leave some conifer for visual and diversity.  
Specs: Protect snowmobile trail to ensure that it stays open during hauling. If conditions allow place landing in the south part of the stand to minimize hauling.

Other Soil type is poorly drained muck. This harvest is to determine the feasibility of harvesting on this soil type. May need to allow 3 year contract.  
Comments:

Next Steps:

15 NF_71077015-Plant	14.7	Non-Forested		0	Tree Planting	Hand Plant	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Hand plant entire stand using leftover mixed pine.

Specs:

Other Stand was final harvested in 2006. Natural regeneration failed there is some jack pine but stocking is low. 25-50% canopy of oak along northeast edge of stand, underplant this area.  
Comments:

Next Steps:

**Total Treatment  
Acreage Proposed: 47.9**



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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

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**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
<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>							

S t a n d	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 077	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
2	6127 - Lowland Pine	High Density Log	18.5	78	81-110		Lots of blowdown coarse woody debris.
3	6127 - Lowland Pine	High Density Log	3.1	78	51-80		Scattered red maple and white birch.
6	6115 - Lowland Ash	High Density Pole	31.4	60	51-80		Ash borer present. Mortality is high.
9	6126 - Lowland Jack Pine	Low Density Sapling	18.8	33			
11	4199 - Other Mixed Upland Deciduous	High Density Pole	11.5	60			
13	42260 - Natural Pine, Mixed Deciduous	High Density Log	20.8	80	111-140		
14	6113 - Lowland Maple	High Density Pole	17.2	40	111-140		Ash more to the west. Some log sized trees concentrated in east part of stand,
16	42200 - Natural White Pine	High Density Log	11.4	80	81-110		
17	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	10.8	90			
20	6115 - Lowland Ash	High Density Pole	14.8	90	51-80		Trace paper birch and balsam fir.
21	4126 - White, Black, N. Pin Oak	High Density Log	74.3	94	111-140		
22	6127 - Lowland Pine	High Density Pole	15.6	40	51-80		Former bog, little to no weevil. Age is variable. Scattered spruce individual and in pockets. Tamarack more to the north.
23	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	49.6	13			
24	4139 - Aspen, Mixed Deciduous	High Density Pole	8.4	35	1-50		Wet upland. Super canopy red pine.
25	6115 - Lowland Ash	Medium Density Pole	19.4	60			
26	6123 - Lowland Fir	High Density Pole	23.1	56	81-110		
27	6113 - Lowland Maple	Medium Density	5.1	35			converting leatherleaf bog. Trace paper birch.
28	6113 - Lowland Maple	Medium Density	13.8	35			Trace white pine and paper birch in understory. Ash has borer.





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## Roscommon Mgt. Unit

## 5 – Forested Stands

Compartment: 077  
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	33.9	41	81-110	Dense ~2 acre white pine pocket in sw part of stand. Pockets of tag alder. Occasional elm and paper birch. Red pine and jack pine patch ~1.5 acres in northwest part. Difficult stand to age pines are 80+.
32	6126 - Lowland Jack Pine	Medium Density	17.4	15		
33	6115 - Lowland Ash	High Density Log	58.3	86	81-110	Trace birch. Mostly pole size to the south part of stand.
36	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	9.0	20		
37	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	2.8	20		
39	4125 - Black, N. Pin Oak	High Density Pole	6.1	78	51-80	Small ridge, mainly oak, jack pine to east and west along edge.
40	6126 - Lowland Jack Pine	Medium Density	72.6	15		Final harvested in 1995. Aspen clones and birch scattered throughout.
41	6112 - Lowland Aspen	Low Density Sapling	8.5	15		
42	42220 - Natural Jack Pine	High Density Log	2.6	74	51-80	Occasional oak in understory.
47	6113 - Lowland Maple	Low Density Sapling	7.7	54		
48	6119 - Mixed Lowland Deciduous Forest	High Density Pole	94.3	84	51-80	Scattered balsam fir, white pine, jack pine and super canopy red maple. Stand is wetter to the south there is more ash. Stand age is variable. Stand could be broken into smaller stands but felt one large lowland stand is better for management purposes. Snowmobile trail runs down Higgins Lake Rd. through the central part of the stand.
49	6112 - Lowland Aspen	Medium Density Pole	21.0	54		Occasional elm, oak and birch.
53	42210 - Natural Red Pine	High Density Log	30.6	57	81-110	Natural mixed two-aged red pine jack pine. Density is variable.
56	6113 - Lowland Maple	Low Density Sapling	7.5	30		
59	6112 - Lowland Aspen	Medium Density Pole	8.5	47		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6225 - Bog	3.6	No	Unspecified	
4	6239 - Mixed Emergent Wetland	4.5	No	Unspecified	
5	50 - Water	157.2	No	Unspecified	
7	6239 - Mixed Emergent Wetland	131.5	No	Unspecified	
8	6220 - Alder/willow	5.0	No	Unspecified	
10	6220 - Alder/willow	9.4	N/A	Unspecified	
12	6225 - Bog	10.0	No	Unspecified	
15	3302 - Low Density Conifer Trees	14.7	Yes	Natural Mixed Pines	Stand was final harvested in 2006. Natural regeneration failed there is some jack pine but stocking is low. 25-50% canopy of oak along northeast edge of stand. Plant entire stand to a mix of jack, red and white pine.
18	6230 - Cattail	49.4	No	Unspecified	
19	6220 - Alder/willow	16.2	No	Unspecified	
29	122 - Road/Parking Lot	20.2	No	Unspecified	Roads
31	6220 - Alder/willow	60.9	No	Unspecified	Scattered ash red maple and white pine.
34	6220 - Alder/willow	40.7	No	Unspecified	
35	3302 - Low Density Conifer Trees	12.8	No	Unspecified	
38	6220 - Alder/willow	23.4	No	Unspecified	
43	6220 - Alder/willow	43.1	No	Unspecified	Scattered pockets of quaking aspen, ash and jack pine.
44	6220 - Alder/willow	25.5	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
45	3302 - Low Density Conifer Trees	19.7	No	Unspecified	
46	3102 - Grass	1.1	No	Unspecified	Looks like an old landing.
50	6220 - Alder/willow	15.2	No	Unspecified	
51	629 - Mixed non-forested wetland	4.5	N/A	Unspecified	
52	6220 - Alder/willow	3.4	No	Unspecified	
54	6220 - Alder/willow	22.7	No	Unspecified	Sparse quaking aspen in stand and around edges.
55	6230 - Cattail	24.1	No	Unspecified	
57	6230 - Cattail	74.0	No	Unspecified	
58	122 - Road/Parking Lot	1.2	No	Unspecified	Road
60	6230 - Cattail	91.9	No	Unspecified	Alder on east side of Old 27.





**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
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**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	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.
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.