

ROSCOMMON FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 111 ENTRY YEAR: 2013

Compartment Acreage: 1640 County: Roscommon

Revision Date: 06-29-2011

Stand Examiner: Ben Wiese

Legal Description: T22N R04W sections 19, 20, 21, 27, 29, and 30

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. Timber harvests to thin overstocked stands to increase growth of residual trees, and also to regenerate aspen, sugar maple, red oak, and ash.

Soil and Topography: Surface soils include glacial outwash sand and gravel and postglacial alluvium peat and muck. Soils include Tawas-Leafriver mucks, Tawas-Lupton mucks, Deford Muck, Dawson-Loxley peat, Rubicon sand, Graycalm sand, Morganlake sand, and Croswell sand. Topography ranges from rolling upland hills to flat wetlands and bogs.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is broken into several areas; adjacent ownership is a mix of private and state. Many small private parcels surround Barney Lake which lies within the central part of the compartment.

Unique, Natural Features: Historical bald eagle nest.

Archeological, Historical, and Cultural Features: None noted.

Special Management Designations or Considerations: None noted

Watershed and Fisheries Considerations: None noted.

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 and muck. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are Jurassic Ionia Formation and Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay elsewhere in the State. Gravel pits are located in Sections 29 and 30 and potential is thought to be good in Sections 29 and 30. Nellsville Field is

located one-half mile to the north. The field has produced over 75,000 BO from the Devonian Dundee and Richfield Formations. Most of the State land is currently leased for oil and gas development.

Vehicle Access: There is good access in the southwest of the compartment. Access is limited for the rest due to lowland and private ownership.

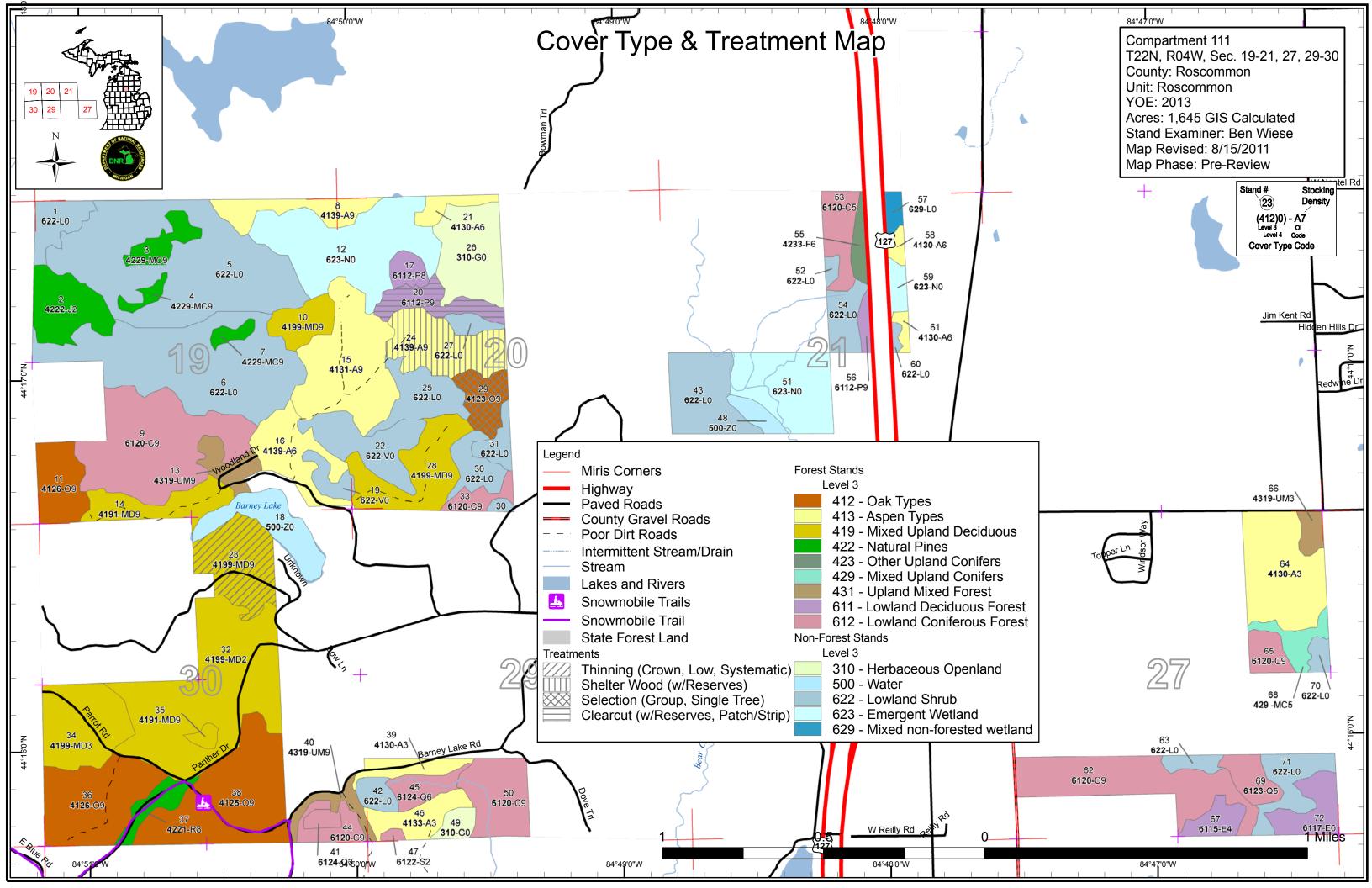
Survey Needs: None at this time

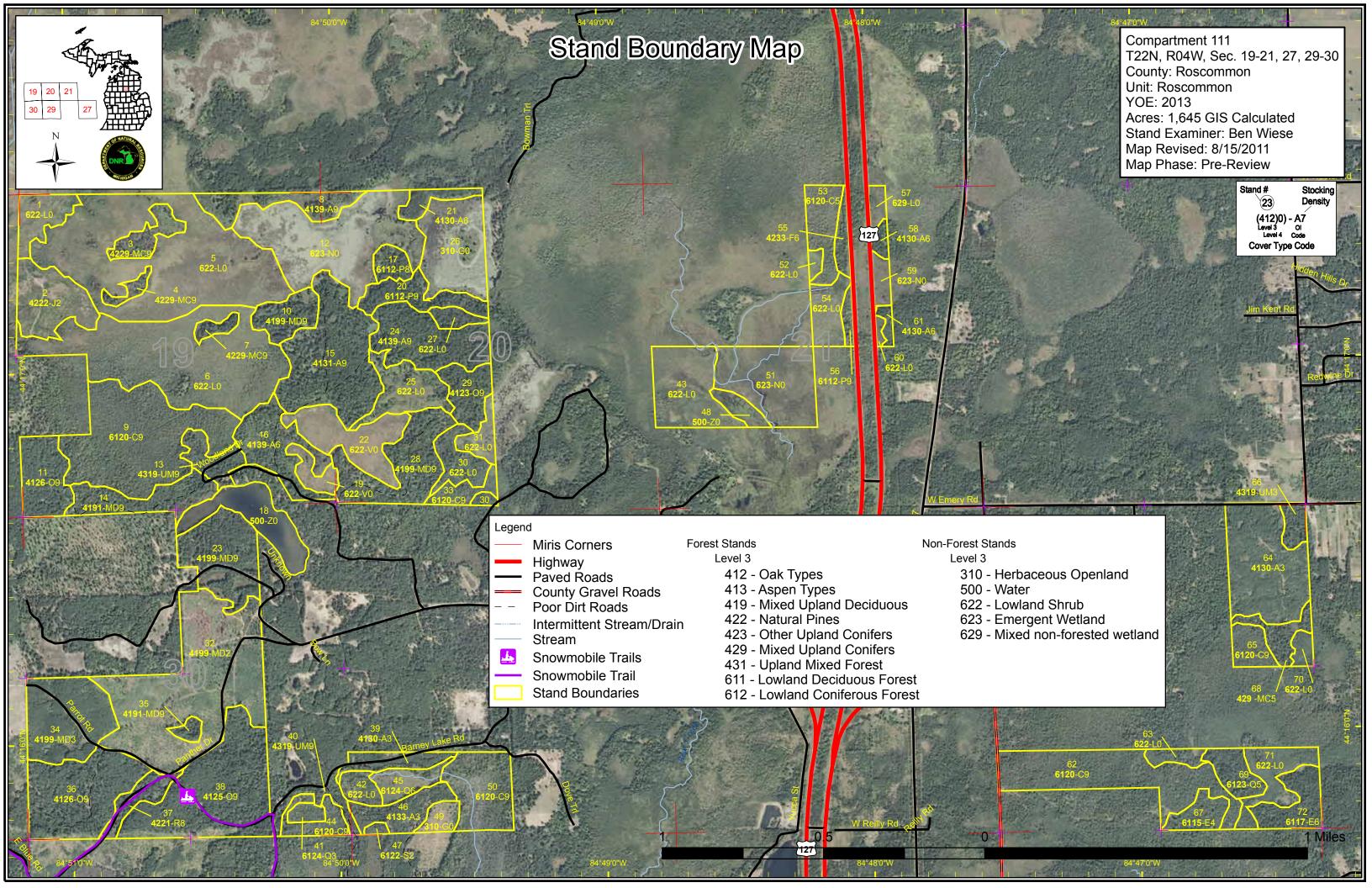
Recreational Facilities and Opportunities: Opportunities include hunting.

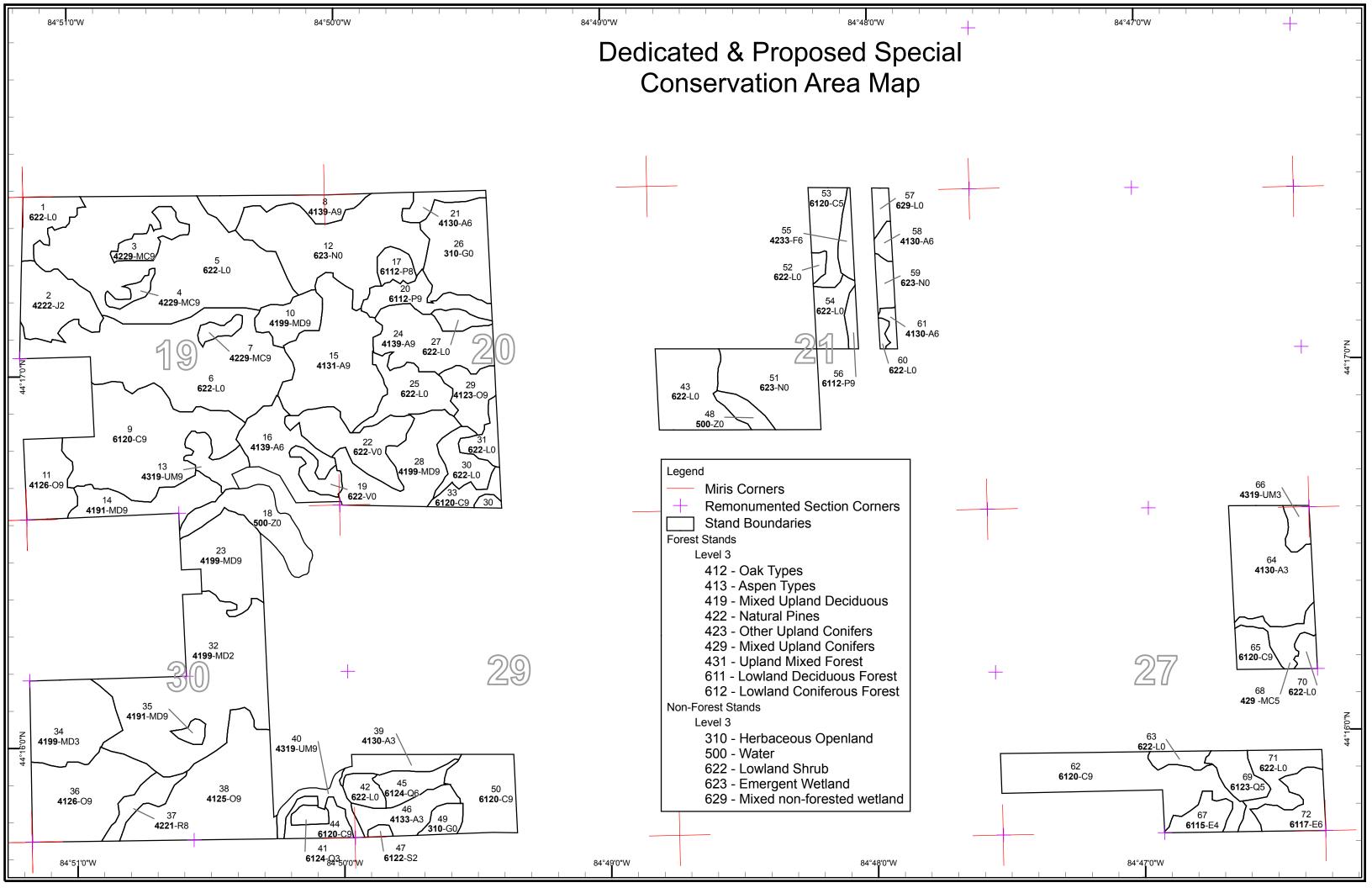
Fire Protection: Cover types include wetlands, lowland hardwood, and cedar, upland oak and aspen.

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







Roscommon Mgt. Unit Benjamin Wiese : Examiner



Age Class

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Aspen	0	0	78	0	60	7	6	47	0	35	0	0	0	0	0	233	
Bog	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	ĺ
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	105	101	0	206	ĺ
Herbaceous Openland	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	ĺ
Jack Pine	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	27	ĺ
Lowland Aspen/Balsam Poplar	0	0	0	0	0	7	4	0	0	17	0	0	0	0	0	27	ĺ
Lowland Conifers	0	0	0	0	4	23	0	0	0	0	0	0	0	0	0	26	ĺ
Lowland Deciduous	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	27	1
Lowland Shrub	380	0	0	0	0	0	0	0	0	0	0	0	0	0	0	380	1
Lowland Spruce/Fir	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	1
Marsh	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	ĺ
Mixed Upland Deciduous	0	106	40	0	0	0	0	0	37	39	15	23	0	0	0	260	ĺ
Natural Mixed Pines	0	0	0	0	0	0	0	4	0	0	11	4	0	0	0	19	ĺ
Oak	0	0	0	0	0	0	0	0	0	0	85	22	0	48	0	155	ĺ
Red Pine	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10	ĺ
Upland Conifers	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10	1
Upland Mixed Forest	0	0	6	0	0	21	0	0	0	0	0	0	0	0	0	27	1
Upland Spruce/Fir	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6	1
Water	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	
Total	608	106	124	27	64	86	16	61	48	91	111	49	105	149	0	1645	1



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit

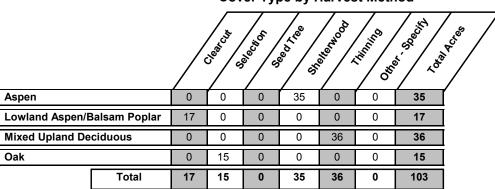
Compartment 111 Year of Entry 2013 **Total Compartment Acres: 1645**

Acres by Treatment Type

Commercial Harvest - 103 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Pesticide - 0 Opening Maintenance - 0 Tree Seeding - 0

Cover Type by Harvest Method



Roscommon Mgt. Unit

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 111
Year of Entry 2013

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(a)	DNR	0
1	MICHIGAN	1
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a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	71111020-Cut	16.9	6112 - Lowland Aspen	High Density Log	80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

<u>Prescription</u> Clearcut with reserves. Leave sugar maple, red oak and some ash and red maple for future seed source. Leave good red maple poles to grow <u>Specs:</u> into logs.

Other Access will be through private. Stand may be seasonally wet, consider winter harvest. Road will need to built into stand.

Comments:

Next Steps:

s

23 71111023-Cut 35.8 4199 - Other Mixed High Density Log 84 Harvest Low Thinning 4199 - Other Mixed Cmpt. Review Upland Deciduous Proposal

<u>Prescription</u> Heavy low thinning. Residual BA should be 70-80. Leave best formed healthy trees. Remove most aspen except a few for future snags and <u>Specs:</u> CWD. Leave most single stem red maple. Manage for a future condition of mixed upland.

Other Stand composition changes south of Snowbowl Road, some areas may be sparse.

Comments:

Next Steps:

24 71111024-Cut 35.2 4139 - Aspen, High Density Log 80 Harvest Shelter Wood with 4139 - Aspen, Mixed Cmpt. Review Reserves Deciduous Proposal

<u>Prescription</u> Harvest using a shelterwood with reserves leaving 30-50 ba of dominant well formed red oak, sugar maple and other hardwoods for a seed <u>Specs:</u> source. Eagle nest along border with stand 25, implement appropriate guidelines.

Other Access will be through private. Will need to build road for access, may need to "freeze in." This site has the potential to grow quality hardwoods. Comments: After harvest consider scarification.

Next Steps:

29 71111029-Cut 15.1 4125 - Black, N. Pin High Density Log 92 Harvest Single Tree Selection 4125 - Black, N. Pin Cmpt. Review Oak Proposal

<u>Prescription</u> Thin to a residual BA of 70-80. Leave the best formed and quality oak. Leave birch, cut aspen except for a few for snag and CWD creation. Try Specs: not to cut quality single stem red maple. Open up around the oak to encourage regeneration.

Other Access will be through private. Road will need to be built, may need to "freeze in." If not enough oak stump sprouts scarification may necessary.

Next Steps:

Total Treatment

Acreage Proposed: 103.0

S t a		Roscomi	mon Mgt. Unit	Table 4 -		ents Prescrib ng Factor	ed with	Compartment: 111 Year of Entry 2013	DNR DIRECTION OF NATURAL PROPERTY OF NATURAL P
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Preso Spec	cription s:								
Other Comr									
Next Steps	<u>:</u>								
	ng Factor and N ment Reason	<u>lo</u>							

Total Treatment
Acreage Proposed: 0

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Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2013

Pine, Mixed

Deciduous

Proposal

									MICHIGAN S
Treatme Name	nt	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
71048_Ou OE_1-C		2.2				Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Prescription Specs:		o 120 SF b e possible	y concentrating on i	mproving the qu	ality of the	stand, no reten	ntion other than residual	RP, save areas heavy to	o oak understory
Other Comments:	cut w	iht stand to	the west in 71046						
Next Steps:	mana	age for utilit	ty poles next YOE						
71048_Ou OE-Cu		4.0			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Prescription Specs:	trees	, address g	reen-up concerns o	n the east side of	f this stand	d if still a proble	/W pine SL for diversity, em, dormant season cut ench and plant RP if rege	to promote vigorous spr	
Other Comments:	cut w	ith stand to	the west in 71046						
Next Steps:									
71118_Ou OE-Cu		6.6			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Prescription Specs:	areas reger	in the nor	th part of the stand	for BMP reasons	. leave out	areas with hea	uals. buffer low marshy gay R/W pine component ration alternative is to pla	for diversity/retention/v	isuals. Any
Other Comments:	treat	with stand	to the west in 71117	, add proper pro	tection spe	ecs to ensure tr	ail staus open to snowm	obiles during hauling	
Next Steps:									
71165_Ou	tOfY	5.1				Harvest	Low Thinning	42260 - Natural	Cmpt. Review

<u>Prescription</u> thin to 90-120 SF/Acre so as to enhance old growth/bio-diversity characteristics

Specs:

OE-Cut

Other stand has a dense A/RM understory which will need to be addressed with appropriate sale specs, save W3 understory where possible, treat

Comments: stand to the west in 71163when this stand is treated (same stand)

<u>Next</u> Steps:

Total Treatment

Acreage Proposed: 17.9

s t	Roscommon Mgt. Unit			5 – Fo	orested Sta	nds Compartment: 111 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density	27.3	20		
3	42290 - Natural Mixed Pine	High Density Log	11.2	91		
4	42290 - Natural Mixed Pine	High Density Log	4.0	61		
7	42290 - Natural Mixed Pine	High Density Log	4.1	101		
8	4139 - Aspen, Mixed Deciduous	High Density Log	18.8	60	81-110	Nice aspen stand stand with red maple. Small part of a large stand mostly located to the north in compartment 110.
9	6120 - Lowland Cedar	High Density Log	78.2	115	111-140	
10	4199 - Other Mixed Upland Deciduous	High Density Log	14.6	92	81-110	Some areas with open understory & large canopy oak and maple.
11	4126 - White, Black, N. Pin Oak	High Density Log	22.1	107	81-110	Nice oak. Lots of white pine stumps with fire scars. White pine regenerating in understory. Trail runs along east edge of stand. Stand is part of a much larger stand to the west in the adjacent compartment.
13	4319 - Mixed Upland Forest	High Density Log	11.7	40	81-110	Oak on hilltops. Red maple sub-canopy dense in east partvery little in west.
14	4191 - Mixed Upland Deciduous with Conifer	High Density Log	23.2	107	51-80	Canopy species and composition is variable.
15	4131 - Aspen, Oak	High Density Log	60.4	30	51-80	Looks like aspen was removed ~30 years ago. could not find cut records.
16	4139 - Aspen, Mixed Deciduous	High Density Pole	27.9	60	51-80	Low basal area aspen and mixed maple/conifer.
17	6112 - Lowland Aspen	Medium Density Log	7.0	48	51-80	
20	6112 - Lowland Aspen	High Density Log	16.9	80	81-110	Aspen with mixed deciduous.
21	4130 - Aspen	High Density Pole	7.3	40	81-110	
23	4199 - Other Mixed Upland Deciduous	High Density Log	35.8	84	81-110	Stand is along south side of Barney Lake and next to a residential area. Trees are healthy, aspen is beginning to senesce. More pine to west and bigtooth aspen to east. Red maple sub-canopy is dense in places.

s t	Roscommor		5 – Fo	orested Sta	nds Compartment: 111 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4139 - Aspen, Mixed Deciduous	High Density Log	35.2	80	81-110	Nice stand, sugar maple, quality red oak, nice hardwoods. Low ridges and some wet areas.
28	4199 - Other Mixed Upland Deciduous	High Density Log	37.4	74	81-110	Jack pine in southeast corner. Red maple sub-canopy dense in areas.
29	4123 - Red Oak	High Density Log	15.1	92	81-110	Nice red maple and red oak. More birch to the north and central part of stand. Scattered basswood sugar maple, black cherry and white ash.
32	4199 - Other Mixed Upland Deciduous	Medium Density	105.8	7		
33	6120 - Lowland Cedar	High Density Log	7.6	115		
34	4199 - Other Mixed Upland Deciduous	High Density Sapling	40.2	17	81-110	
35	4191 - Mixed Upland Deciduous with Conifer	High Density Log	3.2	88		
36	4126 - White, Black, N. Pin Oak	High Density Log	48.5	129	51-80	Scattered pockets of aspen saplings. Removed aspen, red maple and jack pine in 1994. Stand is healthy.
37	42210 - Natural Red Pine	Medium Density Log	10.4	69	51-80	Looks like there was a fire in the understory.
38	4125 - Black, N. Pin Oak	High Density Log	69.7	97	81-110	Nice mature mixed upland stand. Areas of dense white pine understory. Stand is healthy.
39	4130 - Aspen	High Density Sapling	11.1	17		
40	4319 - Mixed Upland Forest	High Density Log	9.0	40	81-110	
41	6124 - Lowland Spruce- Fir	High Density Sapling	3.9	35		
44	6120 - Lowland Cedar	High Density Log	9.9	114	111-140	Oak and aspen near road and higher elevation areas.
45	6124 - Lowland Spruce- Fir	High Density Pole	10.9	40		
46	4133 - Aspen, Mixed Pine	High Density Sapling	16.0	17		Stand was harvested in 1994.
47	6122 - Black Spruce	Medium Density	1.5	40		

S t	Roscommo	n Mgt. Unit		5 – Fo	orested Stan	ds Compartment: 111 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	6120 - Lowland Cedar	High Density Log	28.7	204	81-110	Lots of standing dead cedar.
53	6120 - Lowland Cedar	Medium Density Pole	16.4	125	51-80	Trace paper birch and elm.
55	42330 - Upland Fir	High Density Pole	6.0	50		
56	6112 - Lowland Aspen	High Density Log	3.6	50		
58	4130 - Aspen	High Density Pole	3.2	50		
61	4130 - Aspen	High Density Pole	2.8	50		
62	6120 - Lowland Cedar	High Density Log	55.6	129	81-110	Scattered super canopy white pine. Some areas of stand are only 50 -75% canopy closure.
64	4130 - Aspen	High Density Sapling	50.4	17		
65	6120 - Lowland Cedar	High Density Log	9.5	117	200+	Nice stand, healthy trees. Scattered super canopy white pine. Balsam fir saplings in open areas.
66	4319 - Mixed Upland Forest	High Density Sapling	6.3	17	1-50	Shelterwood harvest in 1994, stand is now two-aged.
67	6115 - Lowland Ash	Low Density Pole	10.0	40		
68	429 - Mixed Upland Conifers	Medium Density Pole	10.3	70	51-80	Trace black cherry in canopy. Lots of blowdown.
69	6123 - Lowland Fir	Medium Density Pole	11.7	40	51-80	Scattered super canopy white pine. Alder dense in places.
72	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	17.3	49	51-80	

6 - Nonforested Stands

Compartment: 111 Year of Entry: 2013



Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6220 - Alder/willow	13.9	No	Unspecified	
6220 - Alder/willow	124.1	No	Low (NonForested)	3/4 acre pocket of phragmites in central part of stand.
6220 - Alder/willow	102.7	No	Unspecified	
6230 - Cattail	71.1	N\A	Unspecified	Leatherleaf, sweetfern, cattail, alder.
50 - Water	25.8	N\A	Unspecified	
6225 - Bog	7.4	No	Unspecified	
6225 - Bog	28.7	No	Unspecified	
6220 - Alder/willow	21.4	No	Unspecified	
3102 - Grass	36.6	N\A	Unspecified	Patches of open water and alder.
6220 - Alder/willow	5.3	No	Unspecified	
6220 - Alder/willow	14.7	No	Unspecified	
6220 - Alder/willow	7.7	No	Unspecified	
6220 - Alder/willow	7.0	No	Unspecified	
6220 - Alder/willow	33.2	No	Unspecified	
50 - Water	6.4	No	Unspecified	
3102 - Grass	6.1	No	Unspecified	Scattered pin oak stump sprouts and white pine seedlings.
6230 - Cattail	40.7	No	Unspecified	
6220 - Alder/willow	2.2	No	Unspecified	
	6220 - Alder/willow 6220 - Alder/willow 6220 - Alder/willow 6230 - Cattail 50 - Water 6225 - Bog 6225 - Bog 6220 - Alder/willow 3102 - Grass 6220 - Alder/willow	6220 - Alder/willow 124.1 6220 - Alder/willow 102.7 6230 - Cattail 71.1 50 - Water 25.8 6225 - Bog 7.4 6225 - Bog 28.7 6220 - Alder/willow 21.4 3102 - Grass 36.6 6220 - Alder/willow 5.3 6220 - Alder/willow 7.7 6220 - Alder/willow 7.7 6220 - Alder/willow 7.0	Cover type Acres Site 6220 - Alder/willow 13.9 No 6220 - Alder/willow 124.1 No 6220 - Alder/willow 102.7 No 62230 - Cattail 71.1 NNA 50 - Water 25.8 NNA 6225 - Bog 7.4 No 6225 - Bog 28.7 No 6220 - Alder/willow 21.4 No 3102 - Grass 36.6 NNA 6220 - Alder/willow 5.3 No 6220 - Alder/willow 7.7 No 6220 - Alder/willow 7.7 No 6220 - Alder/willow 7.0 No 6220 - Alder/willow 33.2 No 50 - Water 6.4 No 3102 - Grass 6.1 No 6230 - Cattail 40.7 No	Acres Site

6 - Nonforested Stands

Compartment: 111
Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
54	6220 - Alder/willow	13.2	No	Unspecified	
57	629 - Mixed non-forested wetland	4.2	N\A	Unspecified	
59	6230 - Cattail	5.4	N\A	Unspecified	
60	6220 - Alder/willow	1.5	No	Unspecified	
63	6220 - Alder/willow	5.6	No	Unspecified	
70	6220 - Alder/willow	4.3	No	Unspecified	
71	6220 - Alder/willow	18.6	No	Unspecified	Scattered balsam fir.

Roscommon Mgt. Unit

Compartment: 111
Year of Entry: 2013



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

Roscommon Mgt. Unit

Compartment: 111
Year of Entry 2013



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.

Conservation Area	n Type	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxyg stocked trout populations and those of other coldwater fi year to year. Coldwater streams in Michigan typically procontributions of groundwater to their stream flows. Such designated as trout resources by Fisheries Order 210.	sh species (e.g., slimy sculpin) to persist from ovide these conditions due to substantial
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedi include the 5,847 acre Forest Fire Experiment Station, the Area, the Beaver Islands Archipelago Wildlife Research High and Hog Islands, all state owned land on Beaver, Swildlife Research Area, the 3,000 acre Hunt Creek Fisher Nursery, and over 144,000 acres of Military Lands.	ne 12,000 acre Houghton Lake Wildlife Research Area (that includes most of Garden Island, all of South Fox and North Fox Islands), the Cusino