

ROSCOMMON FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 34 ENTRY YEAR: 2013

Compartment Acreage: 1072 County: Roscommon

Revision Date: 07-21-2011

Stand Examiner: Jason Lewicki

Legal Description: T24N R03W sections 35, and 36

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.

Soil and Topography: Topography is generally flat with large wetland areas both forested and non forested. Soils range from Au Gres, Greycalm and Gerrish sands on the uplands to Tawas-Lupton Mucks 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 mixed with some private property.

Unique, Natural Features: Cut River runs through compartment

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: None known

Watershed and Fisheries Considerations: Cut River runs through compartment

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

Mineral Resource and Development Concerns and/or Restrictions:

Sections 35 and 36, T24N-R3W, Roscommon County

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 is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. The nearby gravel pits are associated with upland areas. The nearest gravel pit is located one mile to the southwest. Gravel potential in the E½ of Section 36 is thought to be good. St. Helen Field lies six miles to the east. The field has produced over 8.7 million BO and 14.7 Bcf gas from the Devonian Richfield Formation and is in secondary recovery operations currently. Most of the State land is currently leased for oil and gas.

Vehicle Access: Vehicle access is good on the uplands north and east of the Cut River. The south side of the river is difficult to access due to private property.

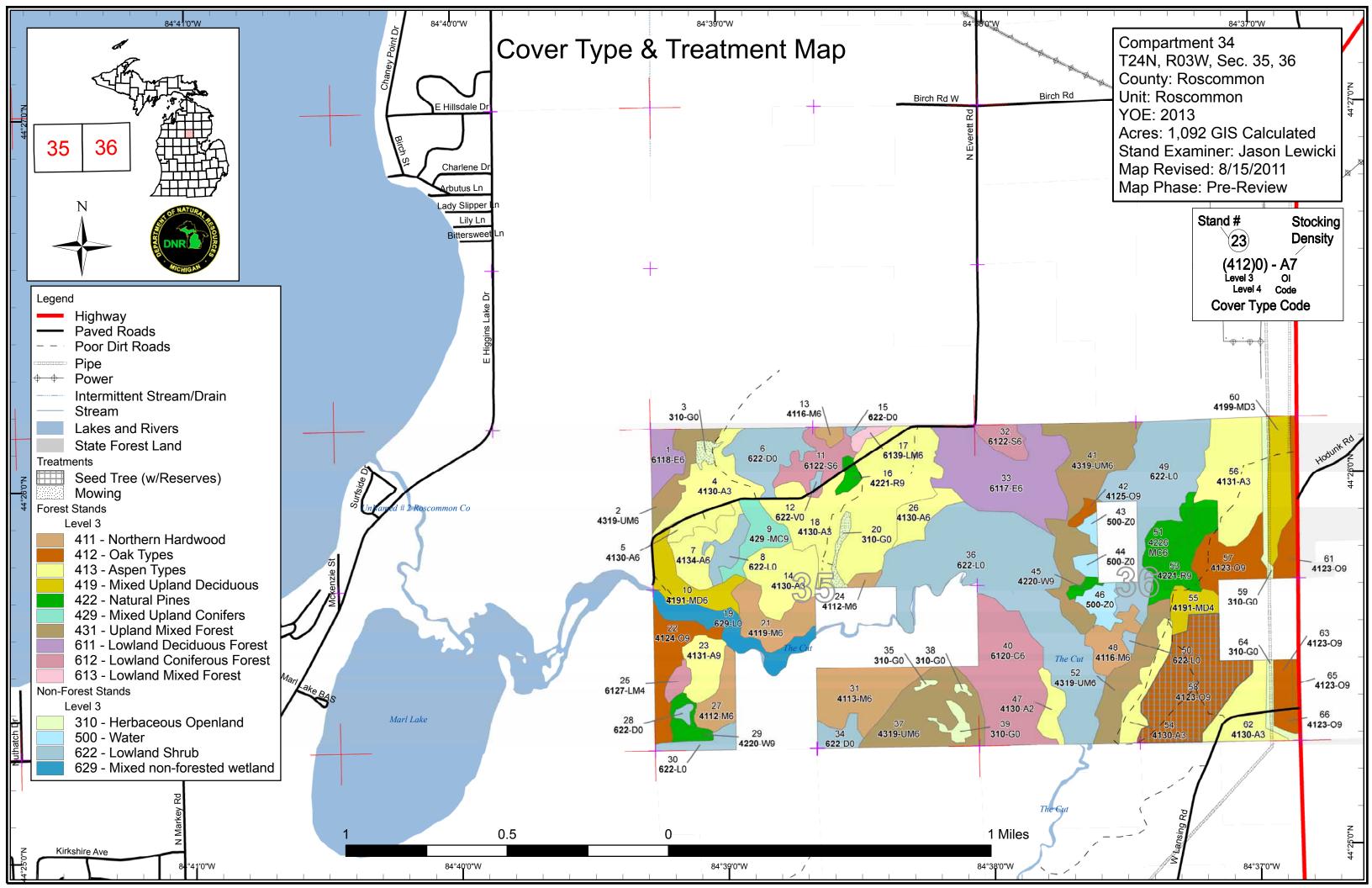
Survey Needs: None at this time

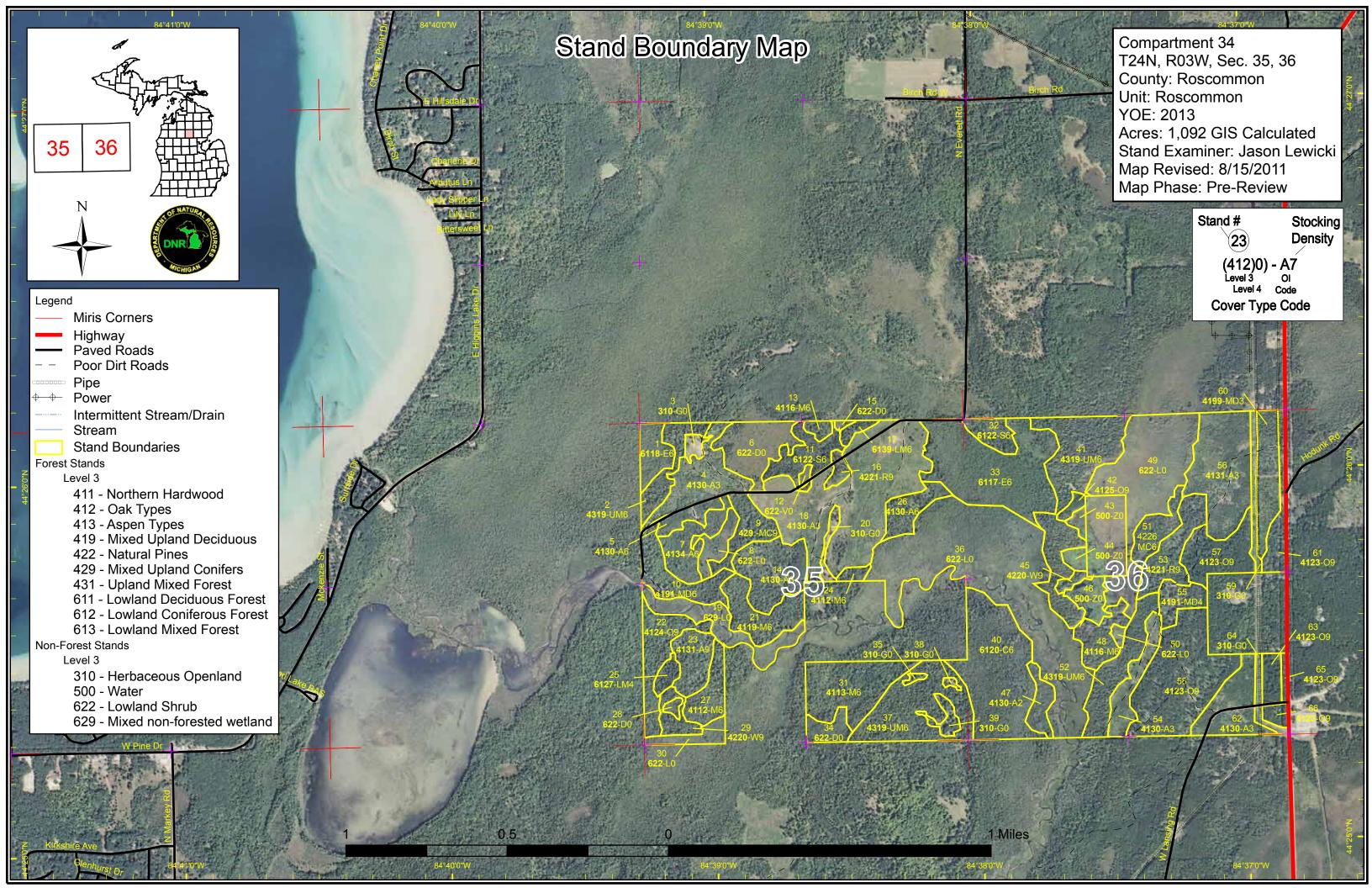
Recreational Facilities and Opportunities: Opportunities include hunting and fishing.

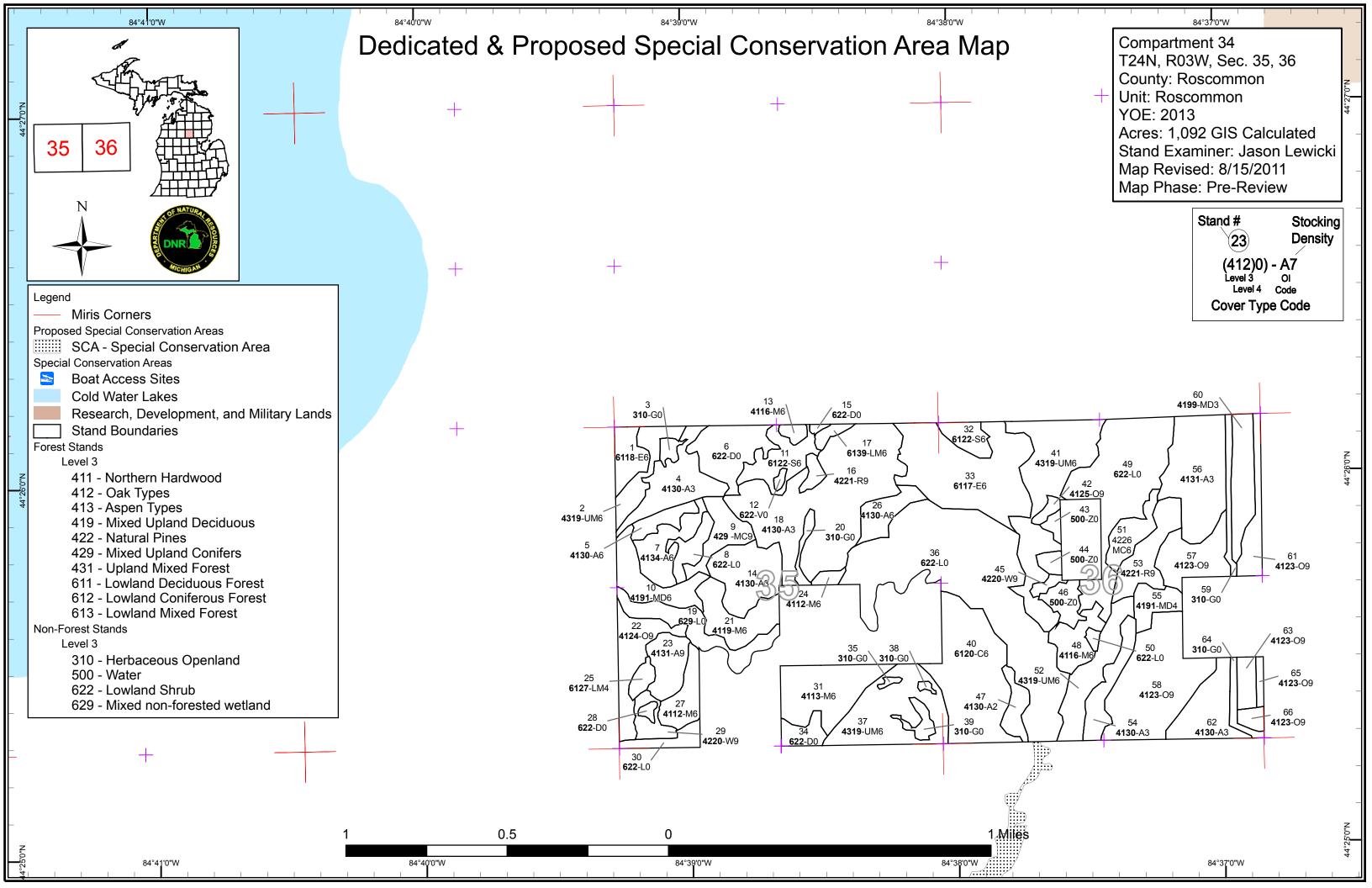
Fire Protection: Hardwood and lowland cover types dominate this compartment. That, along with close proximity to the Roscommoon field office creates low wildfire protection concerns.

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







Roscommon Mgt. Unit

Jason Lewicki : Examiner



																	MICH
							Age	Class									
	No.	Dogge /	 %;	\$7.0	, cr.		kūrka /	\$ P	80.00	No.	\$ 6 S	8.00	0,00	70,73	No Ju	No.	, ro
Aspen	0	119	63	32	22	0	0	0	11	0	0	13	0	0	0	260	[
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	[
Cedar	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	53	[
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	[
Lowland Conifers	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	[
Lowland Deciduous	0	0	0	0	0	0	0	58	10	0	0	0	0	0	0	68	ĺ
Lowland Mixed Forest	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	[
Lowland Shrub	208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208	ĺ
Lowland Spruce/Fir	0	0	0	0	0	0	15	8	0	0	0	0	0	0	0	23	ĺ
Mixed Upland Deciduous	0	17	0	0	0	0	0	17	0	9	0	0	0	0	0	44	ĺ
Natural Mixed Pines	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11	ĺ
Northern Hardwood	0	0	0	0	0	0	42	19	17	0	0	0	0	0	0	77	ĺ
Oak	0	0	0	0	0	0	0	0	0	96	0	19	0	0	0	116	ĺ
Red Pine	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	21	ĺ
Treed Bog	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	Í
Upland Conifers	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	13	ĺ
Upland Mixed Forest	0	0	0	0	0	0	0	81	37	0	0	0	0	0	0	118	Í
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	ĺ
White Pine	0	0	0	0	0	0	0	0	0	0	0	6	0	2	0	9	Ī
Total	274	137	63	32	22	0	60	194	165	106	0	39	0	2	0	1092	



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit

Year of Entry 2013

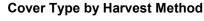
Compartment 034

Total Compartment Acres: 1092

Acres by Treatment Type

Commercial Harvest - 51 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 6 Tree Seeding - 0 Pesticide - 0



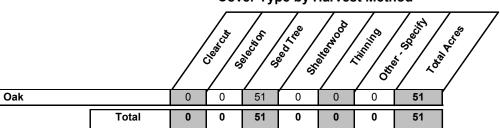


Table 3 -- Treatments Prescribed Compartment: 034 Roscommon Mgt. Unit Year of Entry 2013 with No Limiting Factor s t **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n CoverType Density Name Method Objective Status Age Type d 71034058-Cut 51.3 85 Seed Tree 4123 - Red Oak 58 4123 - Red Oak High Density Log Harvest Cmpt. Review Proposal Prescription Harvest stand using seed tree method then trench and plant red pine. Mark to leave healthy large crowned red oaks for the seed trees at approximately 10 BA. Area Biologist would like to interplant acorns with red pine. Interplant acorns within red pine trenches unless funding or Specs: acorn availibility fall through. Other_ Comments: Trench and plant red pine. <u>Next</u> Steps: 3 NF_71034003-2.7 Non-Forested 0 Non-Forest Mowing 3102 - Grass Cmpt. Review Proposal NonFor Management Prescription Specs: <u>Other</u> Comments: <u>Next</u> Steps: NF_71034020-3.2 Non-Forested 0 Non-Forest Mowing 3102 - Grass Cmpt. Review 20

Management

Prescription

Specs:

Other Comments:

Next Steps:

Total Treatment

NonFor

Acreage Proposed: 57.1

Proposal

Roscommon Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 034 a Limiting Factor s Year of Entry 2013 t Approval Status Stage1 **Treatment** n Treatment **Acres** Size Stand **Treatment Cover Type** Name CoverType Density Method Objective Age Type d #Error **Prescription** Specs: <u>Other</u> Comment: <u>Next</u> Steps: Limiting Factor and No

Total Treatment Acreage Proposed:

Treatment Reason

0

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2013

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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 e possible		improving the qu	ality of the	stand, no reter	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 uti	lity poles next YOE						
71048_Ou OE-Cu		4.0			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Prescription Specs:	trees	, address	green-up concerns of	on the east side o	of this stand	d if still a proble	WW pine SL for diversity, em, dormant season cut ench and plant RP if rege	to promote vigorous spr	
Other Comments:	cut w	rith 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	s in the no	orth part of the stand f aspen/oak/pine to a	for BMP reasons	. leave out	areas with hea	uals. buffer low marshy gavy R/W pine component ration alternative is to pla	for diversity/retention/v	isuals. Any
Other Comments:	treat	with stand	d to the west in 7111	7, add proper pro	tection spe	ecs to ensure tr	rail staus open to snowm	obiles during hauling	
Next Steps:									

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

Specs:

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

Harvest

Low Thinning

42260 - Natural

Pine, Mixed

Deciduous

Cmpt. Review

Proposal

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

Next Steps:

Total Treatment

71165_OutOfY 5.1

OE-Cut

Acreage Proposed: 17.9

S				5 – Fo	orested Sta	Compartment: 034 Year of Entry: 2013
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6118 - Lowland Deciduous with Cedar	High Density Pole	9.8	75	51-80	Small diameter black ash/cedar stand. Tag alder and balsam fir understory. EAB not present but expected soon.
2	4319 - Mixed Upland Forest	High Density Pole	12.1	60	51-80	Mixed stand of maple and fir with some old rotten bigtooth aspen mixed in. Some cedar on west edge along with a few hemlock in serious decline.
4	4130 - Aspen	High Density Sapling	23.1	17		Stand entering pole timber size in some areas. Especially in the bigtooth. One small low wet swale near road.
5	4130 - Aspen	High Density Pole	6.6	31	51-80	
7	4134 - Aspen, Spruce/Fir	High Density Pole	15.4	31	51-80	Stand becomes wetter to the south and mixes with heavy balsam fir.
9	429 - Mixed Upland Conifers	High Density Log	12.7	75	81-110	Stand is mixed white pine, balsam fir and red maple. Some more upland areas with oak and red pine mixed in. Some low wet areas.
10	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	17.5	60	51-80	Red maple, white pine, balsam fir stand with heavy advanced balsam fir understory. Some wet areas. SCA along Cut river.
11	6122 - Black Spruce	High Density Pole	15.1	55	81-110	Mixed stand of black spruce, jack pine and older red pine saw timber. More red pine on south and west side of stand while more spruce to the east. Wet stand with leather leaf and labrador tea ground cover.
13	4116 - Mixed N. Hardwood - Aspen	High Density Pole	2.6	70	51-80	Small little island of red maple mixed with some rotten aspen, a few oak and balsam fir.
14	4130 - Aspen	High Density Sapling	24.2	29	1-50	Aspen stand with some white pine left from harvest.
16	42210 - Natural Red Pine	High Density Log	3.3	70	81-110	Small stand of natural red pine that was thinned last entry. Understory of oak, red maple and some aspen.
17	6139 - Mixed Lowland Forest	High Density Pole	2.7	55	51-80	
18	4130 - Aspen	High Density Sapling	85.9	6		Primarily quaking aspen stand mixed with some bigtooth, red maple and cherry. Hypoxylon already evident on some stems. Cut fall/winter of 2004.
21	4119 - Mixed Northern Hardwoods	High Density Pole	18.7	60	81-110	Simular to pre inventory stand 10 with more bigtooth aspen(older??) component and less fir understory. Higher, drier site.
22	4124 - Red with White Oak	High Density Log	19.2	105	51-80	Red, whit oak stand mixed with white pine. White pine and balsam fir in understory. White pine is working it's way into canopy. No access, landlocked by state park to the south and Cut river to the north.

S	Roscommon Mgt. Unit S			5 – Fo	orested Sta	nds Compartment: 034 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4131 - Aspen, Oak	High Density Log	13.2	100	51-80	Large old bigtooth stand mixed with some oak and White pine. Land locked by state park and Cut river.
24	4112 - Maple, Beech, Cherry Association	High Density Pole	2.4	70	51-80	red maple stand mixed with some old rotten aspen. A few balsam fir making it into canopy.
25	6127 - Lowland Pine	Low Density Pole	3.9	75	1-50	Wet bog growing scattered white pine and some red maple. Leather leaf understory.
26	4130 - Aspen	High Density Pole	10.9	70	51-80	Small stand of mixed aspen that was privately owened last entry and was not harvested with the stand to the north. Stand gets wetter to the south. Far southern edge along swamp may not be operable.
27	4112 - Maple, Beech, Cherry Association	High Density Pole	11.6	75	51-80	Mainly red maple stand mixed with some old rotten aspen, birch and some white pine. Heavy balsam fir understory, thickier as you move east(wetter).
29	42200 - Natural White Pine	High Density Log	6.5	100	81-110	
31	4113 - R.Maple, Conifer	High Density Pole	29.9	55	81-110	Red maple/white pine stand on high water table. Some low wet swales growing some cedar. Heavy balsam fir understory.
32	6122 - Black Spruce	High Density Pole	7.7	60	51-80	Black spruce stand mixed with some red maple and balsam fir. Balsam dir understory.
33	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	57.8	60	1-50	Black ash sapling/pole stand mixed with balsam fir and tag alder. Black ash getting hit by borer and experiencing heavy mortality. Stand is "E4-E6" but will son be dominated by tag alder and some balsam.
37	4319 - Mixed Upland Forest	High Density Pole	36.9	75	51-80	White pine mixed with red maple and balsam fir. Old maintained opening snakes through stand.
40	6120 - Lowland Cedar	High Density Pole	53.1	75	111-140	Cedar stand that becomes mixed with thick balsam. Fir becomes heavier the further east you go.
41	4319 - Mixed Upland Forest	High Density Pole	48.0	60	81-110	Thick stand of red maple and balsam fir. Some low wet ares.
42	4125 - Black, N. Pin Oak	High Density Log	2.4	85	81-110	Small oak knog or ridge with heavy balsam and white pine in understory.
45	42200 - Natural White Pine	High Density Log	2.3	120	111-140	
47	4130 - Aspen	Medium Density	7.4	27		Stand was habitat cut some time from 1982-1985.

Level 4 Cover Type 4116 - Mixed N. Hardwood - Aspen 2260 - Natural Pine, Mixed Deciduous 319 - Mixed Upland Forest 2210 - Natural Red Pine	Size Density High Density Pole High Density Pole High Density Pole High Density	12.3 10.9 20.9	Stand Age 55 60	81-110 81-110	General Comments: Red maple stand mixed with some aspen. Heavy balsam fir and white pine component in understory and canopy. Some areas of wet ground with standing water. Mixed white pine red maple stand. A few oak and rotten aspen mixed in.
Hardwood - Aspen 2260 - Natural Pine, Mixed Deciduous 319 - Mixed Upland Forest 2210 - Natural Red	Pole High Density Pole High Density Pole	10.9	60		and white pine component in understory and canopy. Some areas of wet ground with standing water. Mixed white pine red maple stand. A few oak and rotten aspen
Mixed Deciduous 319 - Mixed Upland Forest 2210 - Natural Red	Pole High Density Pole			81-110	
Forest 2210 - Natural Red	Pole	20.9	60		
	High Density			81-110	A mixed stand of white pine, red maple, aspen and balsam fir. A few black spruce cedar and birch mixed in. A few large white pine scattered about.
	Log	17.8	70	81-110	Mixed red and white pine stand that was thinned last entry. contains part of old "Larry Mead" property that was thinned around the same time. Some aspen in understory. MOstly scattered white pine regen. Excellent growth rates on the red pine probably due to a somewhat higher water table.
4130 - Aspen	High Density Sapling	13.1	7		Aspen stand with some oak, white pine and balsam fir. A few areas didn't fill in good with aspen.
191 - Mixed Upland eciduous with Conifer	Low Density Pole	9.2	85	1-50	Scattered oak, cherry and white pine of various sizes. Open stand. Possible old homestead site. There are mounds of dirt in the center of stand possibly indicating old foundations.
4131 - Aspen, Oak	High Density Sapling	39.5	17		Stand of aspen, oak and jack pine. A few white pine scattered about.
4123 - Red Oak	High Density Log	19.4	85	51-80	Red oak stand that was thinned in past. Understory is now red maple and aspen. Some white pine in understory especially to the west.
4123 - Red Oak	High Density Log	51.3	85	81-110	Red oak stand along ridge top that was thinned and understory burned twice. Thick dufff layer remains. Red maple has stump sprouted and been top killed by fire twiceNew living sprouts are now over 10' high. No oak regeneration is found anywhere in stand. Understory burning has caused mortality and scars(cat faced) on butt logs of oaks. High mortality has caused heavy illegal firewood cutting. 11 BA plots taken and 70BA being average.
1199 - Other Mixed Upland Deciduous	High Density Sapling	17.4	6		Oak stand that was harvested last entry along m-18. 4" spec on sale so oak understory is now the canopy. A fair amount of red maple and some clones of both bigtooth and quaking aspen. Most bigtooth is to the south on higher/better ground. Old oaks along road and powerline were left due to safety concerns. A few jack pine present.
4123 - Red Oak	High Density Log	11.5	85	81-110	Small stand between M-18 and powerline.
4130 - Aspen	High Density Sapling	20.3	6		Young quaking aspen stand with some oak stump sprouts mixed in. Some pole timber white pine scattered about left from harvest.
	191 - Mixed Upland ciduous with Conifer 1131 - Aspen, Oak 4123 - Red Oak 199 - Other Mixed Upland Deciduous	Sapling 191 - Mixed Upland ciduous with Conifer 131 - Aspen, Oak High Density Sapling 4123 - Red Oak High Density Log 199 - Other Mixed Upland Deciduous High Density Log 4123 - Red Oak High Density Log 4123 - Red Oak High Density Sapling 4123 - Red Oak High Density Sapling 4123 - Red Oak High Density Log 4130 - Aspen High Density	Sapling 191 - Mixed Upland ciduous with Conifer	Sapling 191 - Mixed Upland ciduous with Conifer Pole 131 - Aspen, Oak High Density Sapling 4123 - Red Oak High Density Log 199 - Other Mixed Jpland Deciduous High Density Sapling 199 - Other Mixed High Density Sapling 17.4 6 4123 - Red Oak High Density Sapling 17.4 6 4123 - Red Oak High Density Sapling 4123 - Red Oak High Density Sapling 17.4 6	191 - Mixed Upland ciduous with Conifer

S t	Roscomm		5 – Fo	orested Sta	nds Compartment: 034 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4123 - Red Oak	High Density Log	6.1	85		Red oak stand that was thinned and now has an understory of aspen and red maple. Open areas have aspen and maple in canopy.
65	4123 - Red Oak	High Density Log	2.3	85	81-110	Small strip between m-18 and the pipeline
66	4123 - Red Oak	High Density Log	3.3	85	111-140	Small stand of red oak with some pole timber red maple.

Compartment: 034 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	MICHIGAN
3	3102 - Grass	2.7	Yes	High (NonForested)		
6	6224 - Treed Bog	21.3	N\A	Unspecified		
8	6229 - Mixed lowland shrub	7.8	No	Unspecified		
12	6225 - Bog	1.1	No	Unspecified		
15	6224 - Treed Bog	0.8	No	Unspecified		
19	629 - Mixed non-forested wetland	19.0	No	Unspecified		
20	3102 - Grass	3.2	Yes	High (NonForested)		
28	6224 - Treed Bog	1.4	No	Unspecified		
30	6229 - Mixed lowland shrub	6.5	No	Unspecified		
34	6224 - Treed Bog	6.6	No	Unspecified		
35	3102 - Grass	0.9	No	Unspecified		
36	6229 - Mixed lowland shrub	118.1	No	Unspecified		
38	3102 - Grass	0.8	No	Unspecified		
39	3102 - Grass	4.1	No	Unspecified		
43	50 - Water	2.3	No	Unspecified		
44	50 - Water	3.0	No	Unspecified		
46	50 - Water	7.7	No	Unspecified		
49	6229 - Mixed lowland shrub	55.5	No	Unspecified		
			<u> </u>			

6 - Nonforested Stands

Compartment: 034 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
50	6229 - Mixed lowland shrub	1.4	N\A	Unspecified	
59	3102 - Grass	5.8	No	Unspecified	
64	3102 - Grass	4.2	No	Unspecified	

Roscommon Mgt. Unit

Compartment: 034 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: 034 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 Type Description
Area

ERA = Ecological Reference Area

HCVA = High Conservation Value Area

SCA = Special Conservation Area