

ROSCOMMON FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 36

ENTRY YEAR: 2012

Compartment Acreage: 1124

County: Roscommon

Revision Date: 1/26/10

Stand Examiner: D. Ekdom

Legal Description: T24N R02W Sections 20 & 21

Management Area: Au Sable Outwash

Management Goals: Maintain current age and species diversity in a range of early and late successional ecosystems.

Soil and Topography: Terrain is flat to gently rolling throughout the compartment except for the NE corner of Section 21 which rises to the east with a few very steep areas. Soils are well drained Rubicon and Grayling sands in the drier upland portions and poorly drained rifle peat in the Robinson Creek drainages.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Mostly state ownership interspersed with private ownership both within and adjacent to the compartment. Compartment has one small subdivision in Section 20 with permanent residences and seasonal cabins. Other private parcels in and adjacent to compartment include vacant land and permanent residences and seasonal cabins on forested acreages. Bambi Lake Baptist Camp is adjacent to the east edge of the compartment in the north part of Section 22.

Unique, Natural Features: Documented occurrences of Osprey and rough fescue within the compartment as well as high potential for other occurrences of T & E species especially in and adjacent to Robinson Creek and Robinson Creek Flooding.

Archeological, Historical, and Cultural Features: One historical site found during fieldwork and high potential for other sites especially along and adjacent to the creek and the flooding.

Special Management Designations or Considerations: Compartment is within the boundaries of the Forest Fire Experiment Station (FFES) which is designated as a Special Conservation Area. Stands adjacent to Robinson Creek are High Conservation Value Area's (HCVA) because it is a tributary to the S. Branch of the Au Sable River which has Natural River designation. Several stands along Robinson Creek are also part of the draft Old Growth Plan.

Watershed and Fisheries Considerations: Robinson Creek and Robinson Creek Flooding.

Wildlife Habitat Considerations: Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species.

Mineral Resource and Development Concerns and/or Restrictions: 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 are the Mississippian Michigan Formation and Marshall Sandstone. The

Michigan is quarried for gypsum in the State and the Marshall has been used as a building stone. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located one mile to the northwest. Gravel potential in the NE corner is thought to be good. St. Helen Field lies three 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. None of the State land is currently leased in the compartment.

Vehicle Access: Access to the compartment edges and interior is very good via county seasonal roads and forest two-tracks except for the center of the compartment. One forest road is gated by the FFES to protect FFES activities.

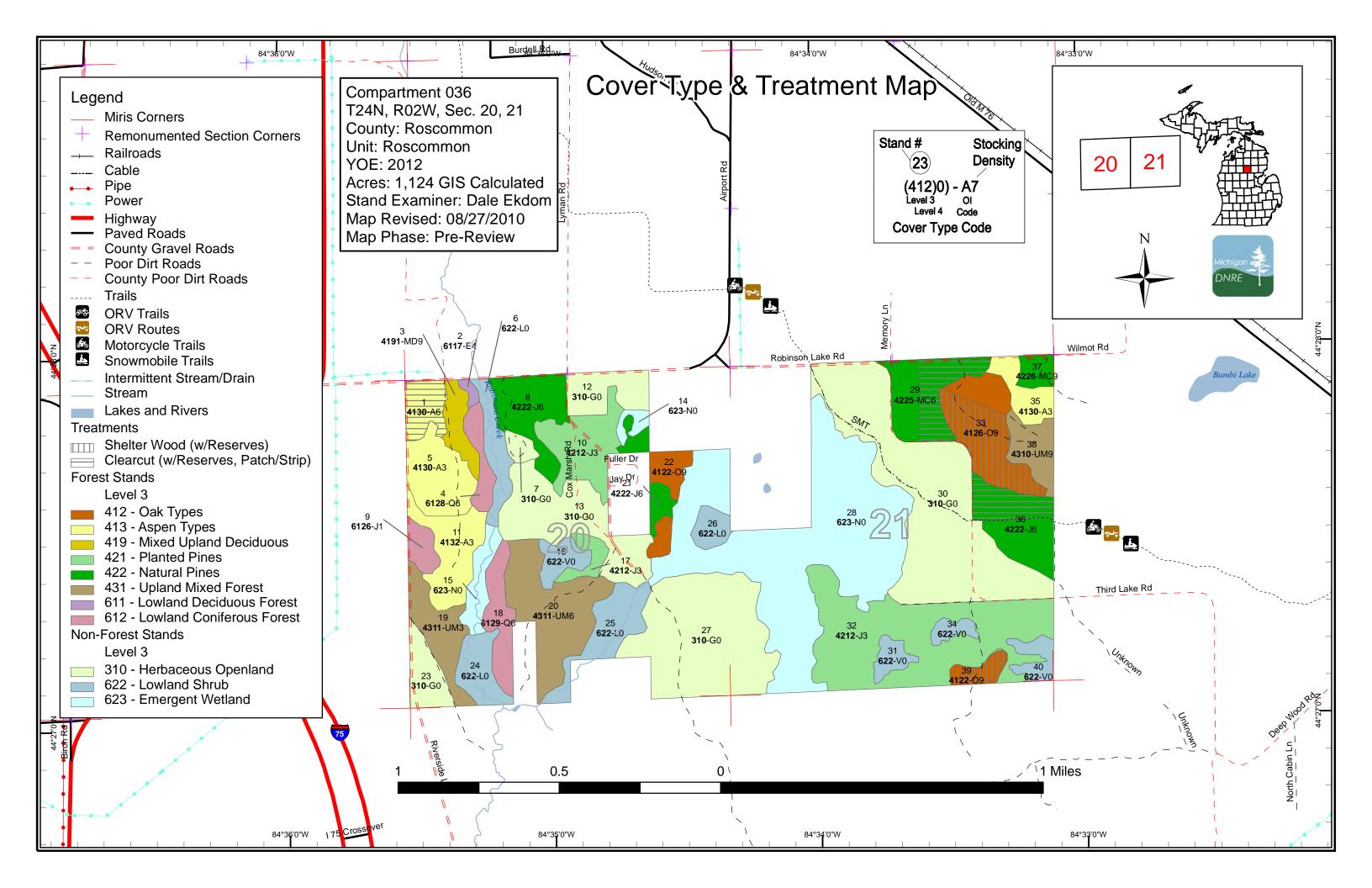
Survey Needs: None necessary at this time.

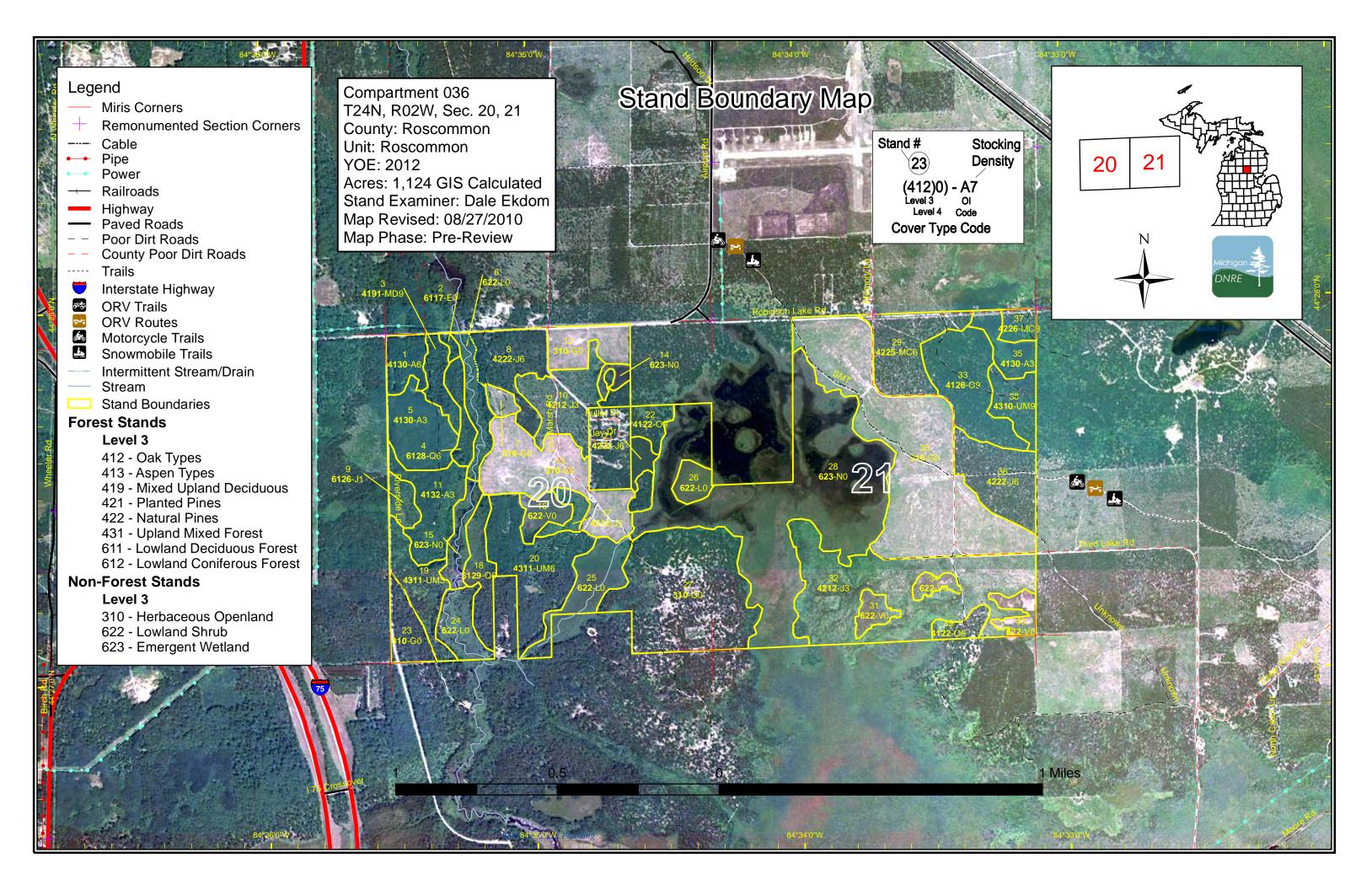
Recreational Facilities and Opportunities: Compartment contains portions of the Roscommon to Geels ORV route and Roscommon to St. Helen snowmobile trail. There is moderate dispersed recreation especially waterfowl and deer hunting.

Fire Protection: Access is excellent and close to fire suppression forces. Several recent fires have been suppressed in this compartment. There are potential wildland-urban interface problems in this compartment and several areas are heavy to jack pine cover types.

Additional Compartment Information: MIMS plots within compartment in NE quarter of Section 21. Proposed treatments include 47 acres of final harvests in jack pine cover types and 37 acres of seed tree & shelter-wood cuts in oak cover types.

- > The following 5 reports from the Inventory are attached:
 - 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





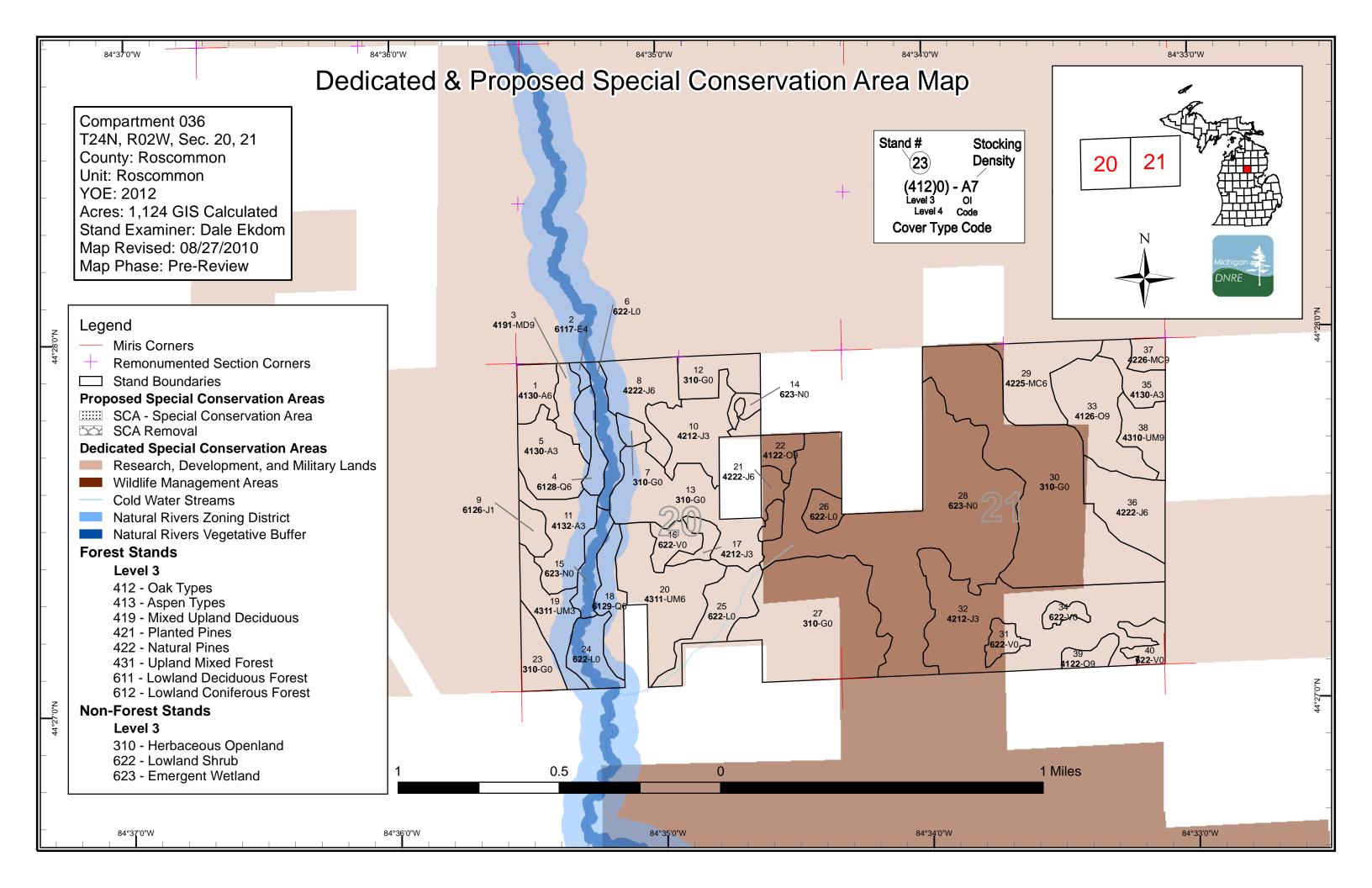


Table 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit

Data updated before 10:00 AM

Compartment 036 Year of Entry 2012



							Age	Class									
	Nor	A See OF	6.z	70,79	6 ² ,0 ²	10.30 1.30	10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	85.05	69.00	12	69.00	66:00	00100	8 ¹⁷ 0 ¹⁷	×00×	400 A	, 0 ²⁰
Aspen	0	0	41	28	0	13	0	0	0	0	0	0	0	0	0	82	
Bog	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	
Herbaceous Openland	312	0	0	0	0	0	0	0	0	0	0	0	0	0	0	312	
Jack Pine	0	0	138	8	5	0	0	33	0	0	0	0	0	0	32	215	
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	28	
Lowland Deciduous	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
Lowland Shrub	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	
Marsh	194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	194	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11	
Natural Mixed Pines	0	0	0	0	0	0	0	0	33	0	7	0	0	0	0	40	
Oak	0	0	0	0	0	0	0	0	0	13	47	0	0	0	0	60	
Upland Mixed Forest	0	0	0	72	0	0	0	0	0	0	0	0	0	0	16	88	
Total	598	0	179	107	5	15	0	33	44	13	54	28	0	0	48	1124	J

Table 2 – Proposed Treatment Summaries

Michigan 🚅			roposca ricalment c	Jannanco		
DNRE	Roscommon Mgt. Unit Year of Entry 2012	Da	Compartment Total Compartment Acres:			
			Acres by Treatment Type			
	Commercial Harvest - 82	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 N	lethod		
		58	50 50 50 50 50 50 50 50 50 50 50 50 50 5	a contraction of the second se		
	Aspen	13	0 0 0 0 0	D 13		
	Jack Pin	e 15	0 0 0 0 0	D 15		
	Natural	Mixed Pines 19	0 0 0 0 0	D 19		
	Oak	0	0 0 35 0 0	0 35		
		Total 47	0 0 35 0 0	0 82		

S t		Data		nmon Mgt. Unit ed before 10:00 AM		-	atments Pre _imiting Fac		Compartment: 036 Year of Entry 2012	
a n d		tment ime	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	71036	001-Cut	13.0	4130 - Aspen H	igh Density Pole	44	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
Presc Specs				manage for aspen, no re re for small size of the s						mast, reasons
<u>Other</u> Comn		the FFES	S, small j	t in the center of the star pocket of "L" along Lyma ting this stand to aspen						
<u>Next</u> <u>Steps</u>	<u>):</u>	regenera	tion surv	/ey						
29	71036	029-Cut	18.6	42250 - Pine, Oak H	igh Density Pole	75	Harvest	Clearcut with Reserves	Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs		final har	est and	plant red pine but mana	ge for a mixed st	and of pi	ine and oak, ma	rk well crowned oaks fo	r visual/mast - especiall	y white oak
<u>Other</u> Comn	<u>_</u> nents:									
<u>Next</u> Steps	<u>s:</u>	trench ar	nd plant i	red pine using oak weav	e					
33	71036	033-Cut	29.6	4126 - White, ⊢ Black, N. Pin Oak	ligh Density Log	93	Harvest	Shelter Wood with Reserves	Oak, Pine	Cmpt. Review Proposal
Presc Specs		Mark 40- on 3rd La		cre of large crowned oak ଏ	to leave favoring	g white c	oak and better q	uality pin/black oak, leav	ve all R/W pine for diver	sity and visual
<u>Other</u> <u>Comn</u> <u>Next</u> <u>Steps</u>	nents:	treatmen	t may be	all islands of oak along 3 a smaller than proposed vey to determine areas n	due to adjustmer	nts for te	rrain especially			
36	71036	036-Cut	15.3	42220 - Natural H Jack Pine	igh Density Pole	59	Harvest	Clearcut with Reserves	Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs		final harv	est and	plant jack pine managin	g for a mixed sta	nd of jac	k pine and oak,	mark well crowned oaks	s for mast - especially w	hite oaks
<u>Other</u> Comn	_ <u>nents:</u>		0	private can be left for real als and protection of rec					e toward west end close	to 3rd Lake
<u>Next</u> <u>Steps</u>	<u>:</u>	trench ar	nd plant j	ack pine using oak weav	ve to weave arou	nd areas	s heavy to advar	nced oak regeneration		
39	71036	039-Cut	5.7	4122 - Oak, Pine F	ligh Density Log	89	Harvest	Shelter Wood with Reserves	Oak, Pine	Cmpt. Review Proposal
Presc Specs				d Tree by cutting all jack ntion in this stand except						retention and
<u>Other</u> Comn	nents:	cut wtih \$	Stand 10	to the south in 71037 in	2009 YOE,					
<u>Next</u> <u>Steps</u>	<u>.</u>	Accept	whatever	amount and type of reg	eneration occurs	and ma	nage the open a	areas as oak-pine barrer	IS.	
Ac		Freatmen Propose		32.1						

S t	Data		non Mgt. Unit before 10:00 AM	Table 4		ents Prescrib ng Factor	ed with	Compartment: 036 Year of Entry 2012	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Prescr Specs									
<u>Other</u> <u>Comm</u>	ent:								
<u>Next</u> <u>Steps:</u>									
	g Factor and No nent Reason	<u>)</u>							
	Total Treatmer reage Propose		0						

Out of YOE -- Treatments Year of Entry: 2012 **Prescribed with No Limiting Factor** Data updated before 10:00 AM Treatment Treatment Treatment Cover Type Acres Stage1 Size Stand Approval CoverType Method Objective Status Name Density Age Туре

Prescription Specs:

<u>Other</u>

Comments:

<u>Next</u>

<u>Steps:</u>

Total Treatment Acreage Proposed:

0

S t	Roscommon Mgt. Unit			5 – For Data update	ested Sta		Compartment: 036 Year of Entry: 2012		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	<u> </u>	
1	4130 - Aspen	High Density Pole	13.0	45			d L & XL pine and oak, TA has hype cut now to regenerate aspen	ох	
2	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	2.0	45			hardwoods with mixed conifers new Robinson Creek	xt to	
3	4191 - Mixed Upland Deciduous with Conifer	High Density Log	11.3	70	81-110	O/A/WP?JP poles, scatte A to northwest has rege	oducts but mostly oak SL/XL over ered R/W/J pine XL, hold 10 years enerated then thin and manange for d stand of oak/pine		
4	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	10.0	109		black spruce/cec	dar swamp with fairly open u.s.		
5	4130 - Aspen	High Density Sapling	27.7	17		nice A3 stand, growing w	rell and healthy, scattered conifer s also	aps	
8	42220 - Natural Jack Pine	High Density Pole	32.0	Uneven Age		JP 1940 YOO, stand is within rooting depth of th which are almost pole-s	ed/multi-aged jack pine with the old dry upland but has a high water tat he jack pine, numerous pockets of size, stand should hold 10 years wi lue to the multiple ages of jack pine	ble J3 ith	
9	6126 - Lowland Jack Pine	Low Density Sapling	7.7	26		bog jack pine	mixed with a few hardwoods		
10	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	29.7	13		cut 1994, seeded 1995,	, parts filled in with bare root stock 1997	in	
11	4132 - Aspen, Jack Pine	High Density Sapling	27.6	27		aspen and na	tural jack pine regeneration		
17	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	6.7	15		small stand of planted j	jack pine adjacent to a bog/treed b	og	
18	6129 - Mixed Coniferous Lowland Forest	High Density Pole	18.1	109		cedar/	black spruce swamp		
19	4311 - Pine, Aspen Mix	High Density Sapling	22.6	26		which will eventually be s grades into a lower terrai north, contains inclusion east edge is heavy to bl	ching pole size, scattered larger tre super-canopy trees, upland stand b in adjacent to creek and bog JP to of W9 in a wetter run along the cre lack spruce/white pine/tamarck alon Robinson Creek	outs the eek,	
20	4311 - Pine, Aspen Mix	High Density Pole	49.2	27			e/jack pine regeneration with residu approx 10 SF of R/W poles and SL when cut		
21	42220 - Natural Jack Pine	High Density Pole	5.5	39			tand - probably fire origin, lok at in le harvest with adjacent stand	10	

S t	Roscommon Mgt. Unit			5 – For Data update	rested Sta	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4122 - Oak, Pine	High Density Log	12.9	83		oak stand with pockets heavy to euther JP or Oak SL, oak and jack pine poor quality, north part has O/J u.s. due to a wildfire in 1996, south part is heavy to RP SL and poles with O/JP SL mixed in, cut or hold 10 years as desired
29	42250 - Pine, Oak	High Density Pole	33.0	76		mature jack pine and oak which needs to be regenerated
32	42120 - Planted Jack Pine	High Density Sapling	101.3	17		jack pine plantation with scattered oak saps
33	4126 - White, Black, N. Pin Oak	High Density Log	39.9	94	81-110	mostly WO SL intermixed with MO and BTA poles and SL, scattered R/W/J pine of various sizes, north end has marginally better oak
35	4130 - Aspen	High Density Sapling	13.3	17		nice A3 stand with scattered WP saps
36	42220 - Natural Jack Pine	High Density Pole	32.7	60		2 aged/multi-aged JP stand with scattered oak/RP, some oak where stand is open to west, pockets of J3 scattered thru-out stand and some parts are more open-grown, good amount of oak regeneration in spots
37	42260 - Natural Pine, Mixed Deciduous	High Density Log	6.9	94	81-110	2 aged stand of oak and pine going towards all aged, WO/MO SL with WP poles and saplings in the u.s., should hold stand 10- 20 years until WP u.s. is fully merch. and then thin to avoid damaging the u.s. now if o.s. is removed
38	4310 - Pine, Oak Mix	High Density Log	15.8	Uneven Age	81-110	large wolfy WO/NPO with smaller WP/RM/Aspen/Oak, WP saplings in the understory, developing into an all-aged stand, recommend holding 10-20 years and letting u.s. WP develop more before treating, parts of stand may even have had A/RM removed 15-20 years ago, stand is converting from oak to pine
39	4122 - Oak, Pine	High Density Log	7.2	90	111-140	MO/WO over-story with smaller and slightly younger jack pine in the u.s., scattered R/W pine poles and SL

Roscommon Mgt. Unit

6 – Nonforested Stands

Data updated before 10:00 AM

Compartment: 036 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:
6	622 - Lowland Shrub	15.1	
7	310 - Herbaceous Openland	4.5	
12	310 - Herbaceous Openland	19.2	
13	310 - Herbaceous Openland	51.7	
14	623 - Emergent Wetland	3.9	
15	623 - Emergent Wetland	12.2	
16	6225 - Bog	9.8	
23	310 - Herbaceous Openland	14.6	
24	6229 - Mixed lowland shrub	16.0	"L" with encroaching conifers
25	622 - Lowland Shrub	23.7	
26	622 - Lowland Shrub	7.9	
26 27	622 - Lowland Shrub 310 - Herbaceous Openland	7.9 91.1	
27	310 - Herbaceous Openland	91.1	
27 28	310 - Herbaceous Openland 623 - Emergent Wetland	91.1 177.9	
27 28 30	 310 - Herbaceous Openland 623 - Emergent Wetland 310 - Herbaceous Openland 	91.1 177.9 130.6	
27 28 30 31	 310 - Herbaceous Openland 623 - Emergent Wetland 310 - Herbaceous Openland 6225 - Bog 	91.1 177.9 130.6 6.9	



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.

Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments

Compartment: 036 Year of Entry 2012



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	Data updated before 10:00 AM Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen con stocked trout populations and those of other coldwater fish spe year to year. Coldwater streams in Michigan typically provide th contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	cies (e.g., slimy sculpin) to persist from nese conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of will and Waterfowl Production Areas, deer wintering complexes in I openings and savannas. Habitat areas are distinct from critical endangered or threatened species (such as Kirtland's warbler of general in nature, are not primarily associated with threatened covered by species recovery plans that are developed in coope	lowland conifer communities, grassland habitat designated for recovery of or piping plover areas) in that they are more or endangered species, and are not
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from s approved distance from the river centerlines. The Natural Rive most Natural Rivers. The Vegetative Buffer ranges from 25 to and Vegetative Buffers for each Natural River see the table loc folder.	rs Zoning District is a 400 foot buffer for 100 feet. To view specific Zoning Districts
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated to include the 5,847 acre Forest Fire Experiment Station, the 12,0 Area, the Beaver Islands Archipelago Wildlife Research Area (the High and Hog Islands, all state owned land on Beaver, South F Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries R Nursery, and over 144,000 acres of Military Lands.	000 acre Houghton Lake Wildlife Research that includes most of Garden Island, all of ox and North Fox Islands), the Cusino