

Baraga Forest Management Unit Compartment Review Presentation

Compartment #10 Entry Year: 2012 Compartment Acreage: 1,677 County: Baraga

Revision Date: 7/14/2010

Stand Examiner: Brad S. Carlson

Legal Description: T49N, R34W; Sec 3, 9, 10 and 11.

RMU (if applicable):

Management Goals: To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

Soil and Topography: The majority of this compartment is level land that transitions to some rolling hills on its northern edge. Soils consist primarily of Grayling sand to the south and Rubicon sand to the north. There are also small areas of Yalmer loamy sand and Keweenaw-Kalkaska complex within the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This is a solid block of state owned land. There are private lands to the east and south of the compartment.

Unique, Natural Features: Kirtland's warbler has been known to nest in the area.

Archeological, Historical, and Cultural Features: None

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: None.

Wildlife Habitat Considerations: Favor mesic conifers; White Pine and Hemlock, as well Northern Red Oak and Black cherry. The Baraga Unit also has a wildlife reserve which is contained within this compartment. This reserve consists of goose fields which are row cropped.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. The Michigamme does not have a current economic use. The nearest gravel pit is located six miles to the south, but there should be potential on the uplands. The closest iron mines are located four miles to the east and are abandoned. An area one mile to the northwest was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: The Menge Creek road is a county road that is the western border to this compartment, it is an improved gravel road that is seasonal and can be traveled by car during the summer months. The Prison Camp road is a county road that is the southern border to this compartment; this road is paved and kept open year-round. There are several forest roads in the compartment that are fairly well traveled by recreationalists. These roads range in condition from well traveled to almost impassable (usually due to "sugar sand" blowouts).

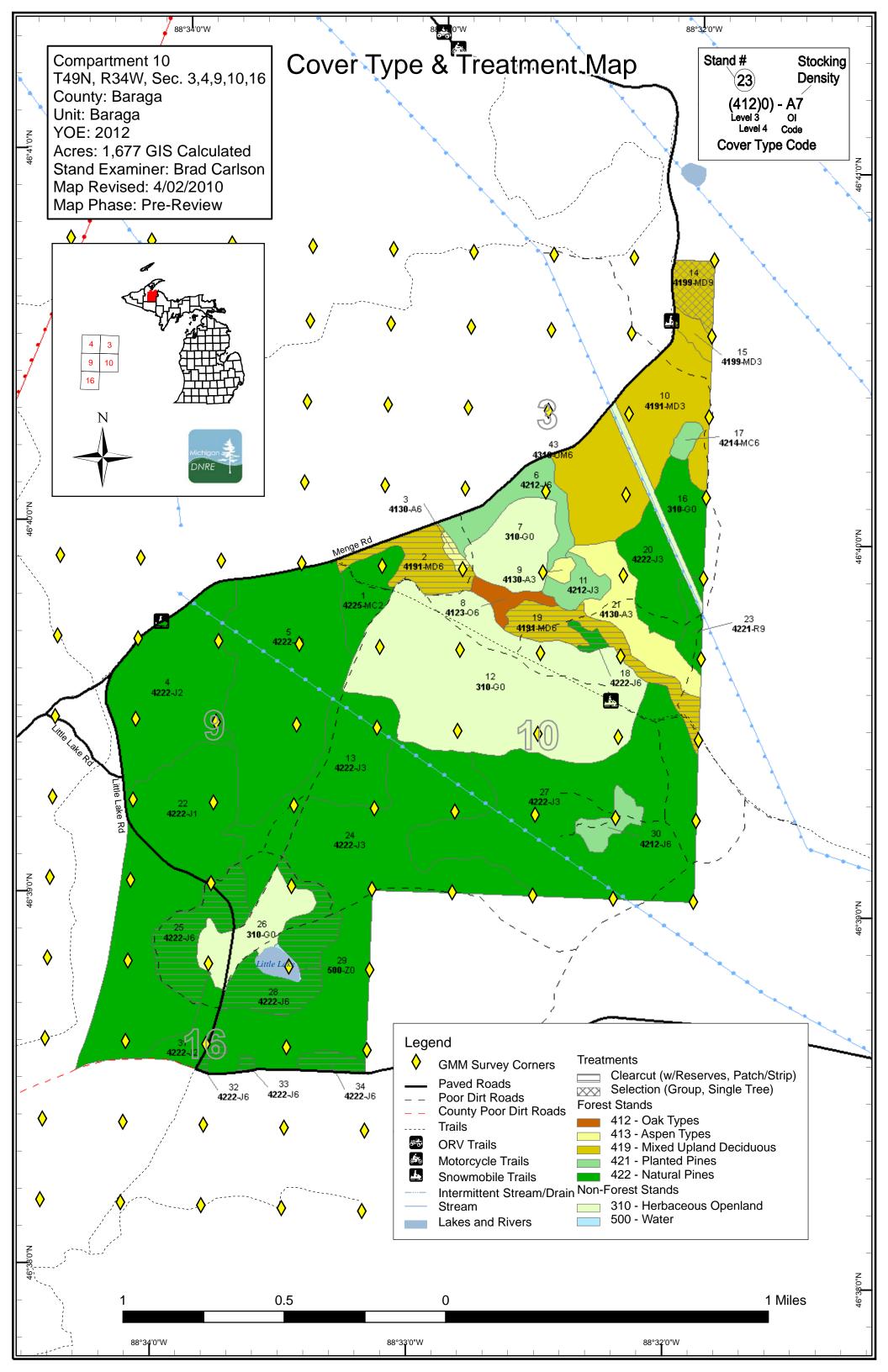
Survey Needs: None, sufficient survey corners exist to carry out timber harvest activities.

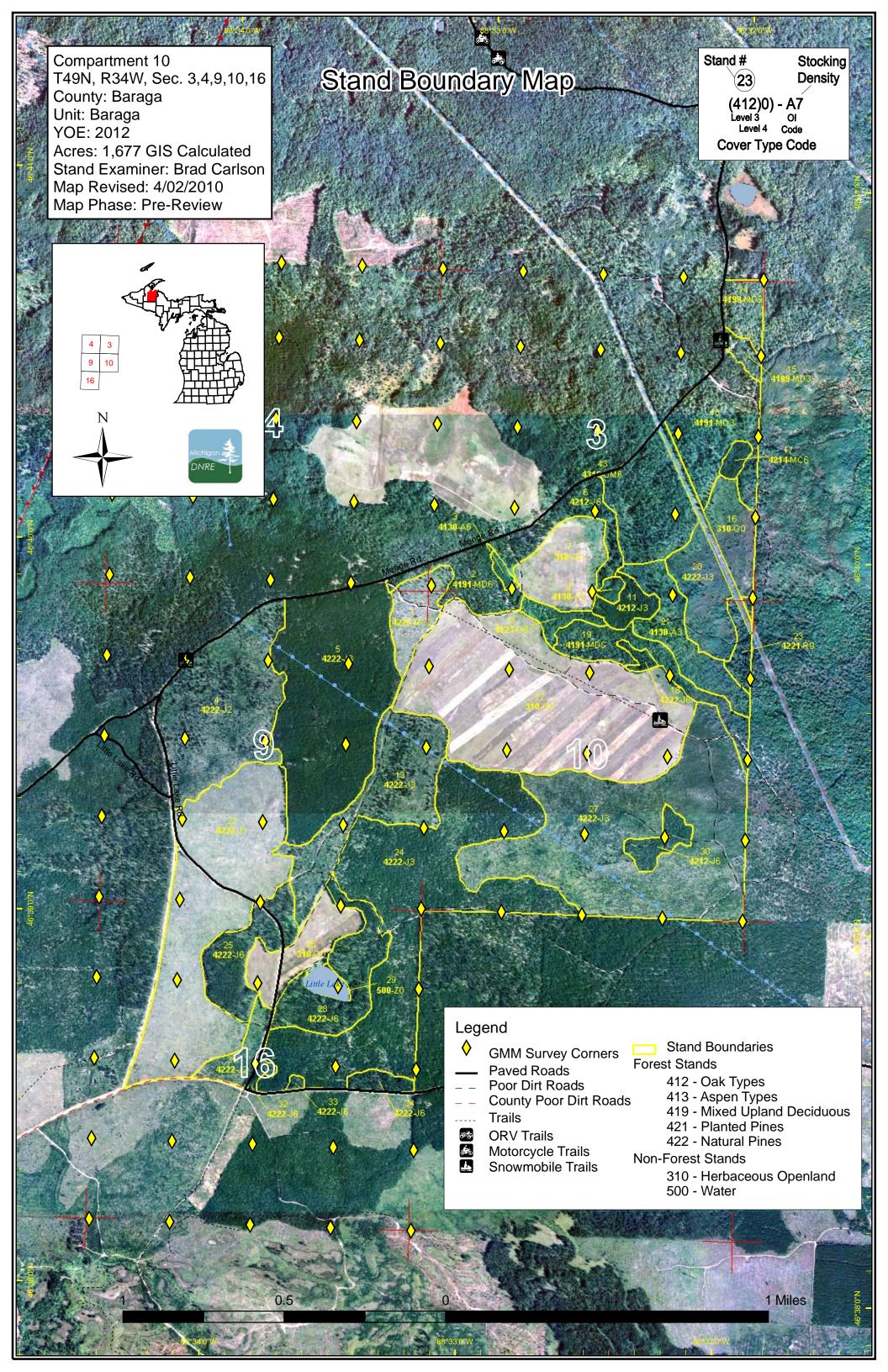
Recreational Facilities and Opportunities: A large part of this compartment includes the Baraga Plains Wildlife Refuge. Snowmobile trails border the compartment to the west and cross though in the north. A portion of the Baraga Plains ORV trail passes through the West side of this compartment.

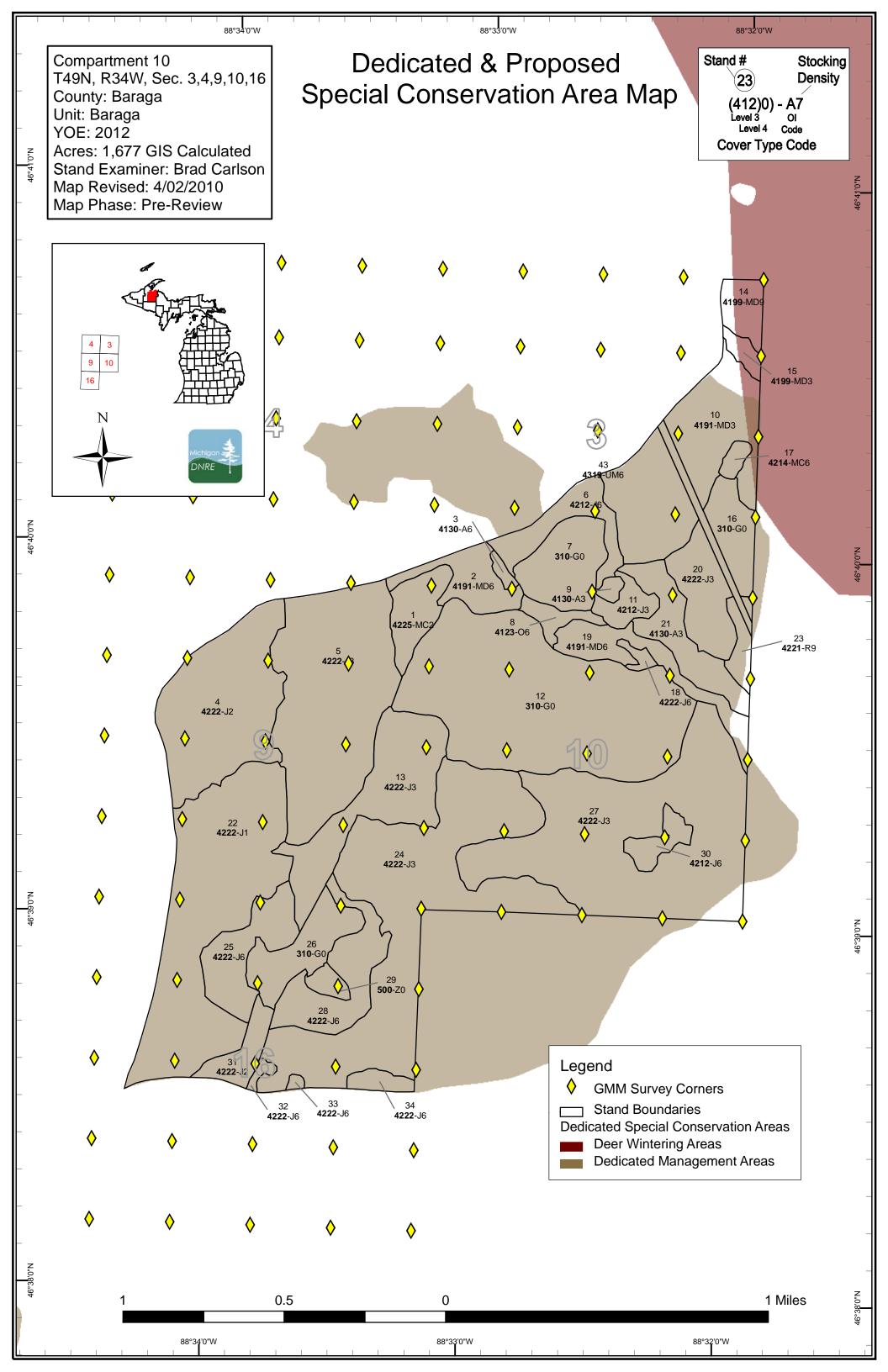
Fire Protection: This is a jack pine area, and fire is a concern. The ROTC Fire burned in this compartment in 2007 along with a small fire to the north east of the compartment and one near Little Lake. A 307 acre wild fire which escaped from a 120 acre prescribed burn occurred in May of 1978. The summer cottages and permanent residences around Big Lake (compartment to the South) are a potential fire source.

Additional Compartment Information: None

- ➤ The following 5 reports from the Operations Inventory System (OIPC) 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







Baraga Mgt. Unit

(Level 3 Cover Type)

Compartment 010 Year of Entry 2012



	Age Class																
	₽of	Dogged /	 3;	\$7.00	82.50		M. M	\$5'05' /	800	N. O. S.	80 / 60 / 60 / 60 / 60 / 60 / 60 / 60 /	8 /	80,00	, 70, 73	NO SU	AS /	, p ^(x)
Aspen Types	0	0	38	0	0	0	0	3	0	0	0	0	0	0	0	41	[
Herbaceous Openland	294	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294	
Mixed Upland Deciduous	0	0	110	0	0	0	0	0	0	25	0	32	0	0	15	182	
Natural Pines	0	182	454	202	147	0	0	0	105	0	0	0	0	0	0	1090	
Oak Types	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9	
Planted Pines	0	0	0	28	0	28	0	0	0	0	0	0	0	0	0	56	
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1
Total	300	182	602	239	147	28	0	3	105	25	0	32	0	0	15	1678	



Table 2 – Proposed Treatment Summaries

Baraga Mgt. Unit

Compartment 010

Year of Entry 2012

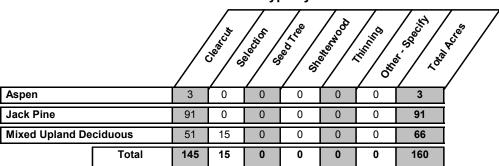
Total Compartment Acres: 1678

Acres by Treatment Type

Commercial Harvest - 160 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



Compartment: 010 Baraga Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2012 s t а **Treatment** Stage1 Size Stand **Treatment Treatment** Cover Type Acres n Page 1 of 2 Objective Method Name CoverType Density Age Type d 2 11010002-Cut 19.4 4191 - Mixed High Density Pole 82 Harvest Clearcut with Mixed Upland Upland Deciduous Reserves Deciduous with with Conifer Conifer Prescription Cut all species except oak (also white pine and red pine if present), leave tree mark oak leaving 5 to 10 per acre where present. Leave a 33' buffer uncut along the Menge Creek Road. Specs: Other Comments: Next Steps: 3 11010003-Cut 29 4130 - Aspen High Density Pole 64 Harvest Clearcut Aspen Prescription Clearcut. If present, any white pine, oak or hemlock should be reserved. No retention. Specs: Other_ Comments: <u>Next</u> Steps: 11010014-Cut 14.8 4199 - Other Mixed Single Tree Selection Other Mixed Upland 14 High Density Log 88 Harvest **Upland Deciduous** Deciduous Prescription Mark to 70-90 sq ba. where it is predominantly maple, areas that are predominantly oak should be marked down to 50 sqft to encourage more oak regeneration. Favor oak, white pine, and hemlock where present. Refer to the "Complete Marker" for further marking guidelines. Specs: Other_ Comments: <u>Next</u> Steps: 11010018-Cut 3.3 42220 - Natural High Density Pole 79 Harvest Clearcut Natural Jack Pine Jack Pine Prescription Clear cut. If present reserve White Pine, Red Pine and Red Oak. no retention. Specs: Other Comments: <u>Next</u> Scarify, check for adequate regeneration within 4 yrs of scarifying. Steps: 11010019-Cut 31.5 4191 - Mixed High Density Pole 101 Harvest Clearcut with Mixed Upland 19 Upland Deciduous Reserves Deciduous with with Conifer Conifer Prescription Cut all species except oak (also white pine and red pine if present), leave tree mark oak leaving 5 to 10 per acre where present. Specs: Other | Comments: <u>Next</u> Steps: 11010025-Cut 37.3 42220 - Natural High Density Pole 79 Harvest Clearcut Natural Jack Pine Jack Pine Prescription Clear cut. If present reserve White Pine, Red Pine and Red Oak. no retention. Specs:

Scarify, then check for adequate regeneration within 4 yrs of scarifying.

Other Comments: Next

Steps:

Compartment: 010 Baraga Mgt. Unit Table 3 -- Treatments Prescribed Year of Entry 2012 with No Limiting Factor s t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type** n Page 2 of 2 CoverType Density Method Objective Name Age Type d 11010028-Cut 28 39.5 42220 - Natural High Density Pole 79 Harvest Clearcut Natural Jack Pine Jack Pine Prescription Clear cut. If present reserve White Pine, Red Pine and Red Oak. no retention. Leave 100' buffer of trees around the lake for WLD. Specs: <u>Other</u> Comments: Scarify, then check for adequate regeneration within 4 yrs of scarifying. <u>Next</u> Steps: 11010032-Cut 2.5 42220 - Natural High Density Pole Harvest Clearcut Natural Jack Pine 32 79 Jack Pine Prescription Clear cut. If present reserve White Pine, Red Pine and Red Oak. no retention. Specs: Other_ Comments: Scarify, then check for adequate regenation within 4 yrs of scarifying. <u>Next</u> Steps: 33 11010033-Cut 1.3 42220 - Natural High Density Pole 79 Harvest Clearcut Natural Jack Pine

Prescription Clear cut. If present reserve White Pine, Red Pine and Red Oak. no retention.

Jack Pine

Specs:

Other Comments:

Next Scarify, then check for adequate regeration within 4 yrs of scarifying.

Steps:

34 11010034-Cut 7.3 42220 - Natural High Density Pole 79 Harvest Clearcut Natural Jack Pine

Jack Pine

<u>Prescription</u> Clear cut. If present reserve White Pine, Red Pine and Red Oak. no retention.

Specs:

Other Comments:

Scarify, then check for adequate regeneration within 4 yrs of scarifying.

Next Steps:

Total Treatment

Acreage Proposed: 159.8

Baraga Mgt. Unit

Stage1

CoverType

Table 4 -- Treatments Prescribed with a Limiting Factor

Treatment

Type

Stand

Age

Size

Density

Compartment: 010 Year of Entry 2012

Cover Type

Objective

Treatment

Method

DNRE Page 1 of 1

Prescription

Specs:

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n

Other Comment:

Next Steps:

<u>Limiting Factor and No</u> <u>Treatment Reason</u>

Treatment

Name

Acres

Total Treatment Acreage Proposed:

0

s t	Baraga	Baraga Mgt. Unit			rested Stand	Year of Entry: 2012
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42250 - Pine, Oak	Medium Density	22.5	4		Scarified. FTP 11-196, FTPC 6/2003
2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	25.1	82	81-110	
3	4130 - Aspen	High Density Pole	2.9	64	81-110	
4	42220 - Natural Jack Pine	Medium Density	102.8	17		Cut with 11-012-89-01. some larger Jack Pine scattered throughout.
5	42220 - Natural Jack Pine	High Density Sapling	146.5	30		Fire origin Jack Pine "Rice's Burn" 1979. It is very thick!
6	42120 - Planted Jack Pine	High Density Pole	27.5	44		Look at for next rotation (2019).
8	4123 - Red Oak	High Density Pole	9.1	29		
9	4130 - Aspen	High Density Sapling	3.0	16		
10	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	104.4	16		cut with 11-014-92-01, appears to be "Choppers Choice", Very uneven ages and sizes.
11	42120 - Planted Jack Pine	High Density Sapling	12.0	29		
13	42220 - Natural Jack Pine	High Density Sapling	72.9	16		cut with 11-013-92-01.
14	4199 - Other Mixed Upland Deciduous	High Density Log	14.8	Uneven Age	111-140	cut with 11-014-92-01, it ready again.
15	4199 - Other Mixed Upland Deciduous	High Density Sapling	6.0	16		cut with 11-014-92-01.
17	42140 - Planted Mixed Pine	High Density Pole	4.6	23	111-140	Was a study area for MTU. It is planted White Pine with a Jack Pine overstory.
18	42220 - Natural Jack Pine	High Density Pole	3.3	79		
19	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	31.5	101	51-80	was factor limited as screening for the goose pasture as surrounding stands were harvested in previous inventory cycles. Those stands are now regenerated and there is no apparent reason to keep this stand as factor limited.
20	42220 - Natural Jack Pine	High Density Sapling	56.7	16		cut with 11-014-92-01

S t	Barag	a Mgt. Unit		_	orested Star ry Method: IFM	Michigan 3
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4130 - Aspen	High Density Sapling	35.2	17		cut with 11-014-92-01
22	42220 - Natural Jack Pine	Low Density Sapling	159.8	4		"Life Jacket Jack Pine" 11-003-02-01, Stand was scarified (FTP 11-197 and 11-198; FTPC 6/2003) but had significant die off due to a Diplodia outbreak. Stand was trenched in the summer of 2009 and is to be replanted.
23	42210 - Natural Red Pine	High Density Log	9.7	71		Stand had most of the Jack Pine removed about 15 yrs ago. Need to find a cutting record!
24	42220 - Natural Jack Pine	High Density Sapling	201.9	26		25' to 30' tall.
25	42220 - Natural Jack Pine	High Density Pole	37.3	79		Cut!! no retention.
27	42220 - Natural Jack Pine	High Density Sapling	205.4	16		"Section 10 Pine" 11-013-89-01
28	42220 - Natural Jack Pine	High Density Pole	43.6	79		
30	42120 - Planted Jack Pine	High Density Pole	11.8	26		
31	42220 - Natural Jack Pine	Medium Density	15.9	14		North 1/2 was cut with sale 11-013-92-01.
32	42220 - Natural Jack Pine	High Density Pole	2.5	79	1-50	Cut!! Overmature. No retention.
33	42220 - Natural Jack Pine	High Density Pole	1.3	79	1-50	Cut!! Overmature. No retention.
34	42220 - Natural Jack Pine	High Density Pole	7.3	79		Cut!! Overmature. No retention.

Baraga Mgt. Unit

6 - Nonforested Stands Inventory Method: IFMAP

Compartment: 010 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:	
7	3102 - Grass	37.8	"Little Burn" Wildlife Field"	
12	3102 - Grass	213.4	"Big Burn" Wildlife Feild.	
16	3102 - Grass	9.8		
26	3102 - Grass	33.1	"Little Lake" wildlife field.	
29	50 - Water	6.0	Little Lake	

Baraga Mgt. Unit Compartment: 010

Year of Entry: 2012

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.

Inventory Method: IFMAP

Stand	SCA Type	SCA Name	Acres	Comments

Baraga Mgt. Unit Compartme

Compartment: 010 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.

Conservatio Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific mana rules, as governed by Part 5, Department of Natural Resources, 324.504). Section 38 of the Administrative Procedures Act (MCL the promulgation of rules. This is an active program, with one pro DNR.	of the NREPA (MCL 324.502(2) and 24.238) provides for public requests for
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildle and Waterfowl Production Areas, deer wintering complexes in loopenings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperation.	wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more endangered species, and are not