

Baraga Forest Management Unit Compartment Review Presentation

Compartment #50 Entry Year: 2012 Compartment Acreage: 1,180 County: Houghton

Revision Date: 7/14/2010

Stand Examiner: Fred Hansen

Legal Description: Houghton County, Elm River and Laird Townships

T51N R36W Sections 17, 18, and 19.

RMU (if applicable):

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

Soil and Topography: The land is rolling to hilly in this compartment. The lowland soils are Cathro, Gay, Tawas, and Roscommon mucks; and Dawson peat. Upland soils are combinations of Kalkaska, Liminga, Halfaday, AuGres, Yalmer, and Roscommon sands; Alcona and Munising loamy fine sands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Adjacent lands are a combination of State Forest and private industrial forest lands managed primarily for timber.

Unique, Natural Features: None identified.

Archeological, Historical, and Cultural Features: None identified

Special Management Designations or Considerations: None identified

Watershed and Fisheries Considerations: Senecal Creek and some tributaries to the Firesteel River flow westerly from the compartment. Tributaries to the West Branch of the Otter River flow easterly from the compartment.

Wildlife Habitat Considerations: Favor retention of oak, and mesic conifer in hardwood stands.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till and lacustrine (lake) clay and silt, with an ancient shoreline in this area. There is insufficient data to determine the Glacial Drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. There is not a current economic use for the Jacobsville, but it was used as a building stone in the past. The nearest gravel pit is located four miles to the north. The abandoned Winona copper mine is located six miles to the north. This area has been leased for metallic mineral exploration in the past. There is no economic oil and gas production in the UP.

Vehicle Access: Access is from the: Otter Siding Road, Simar Grade, Motley Road, and Clear Lake Road.

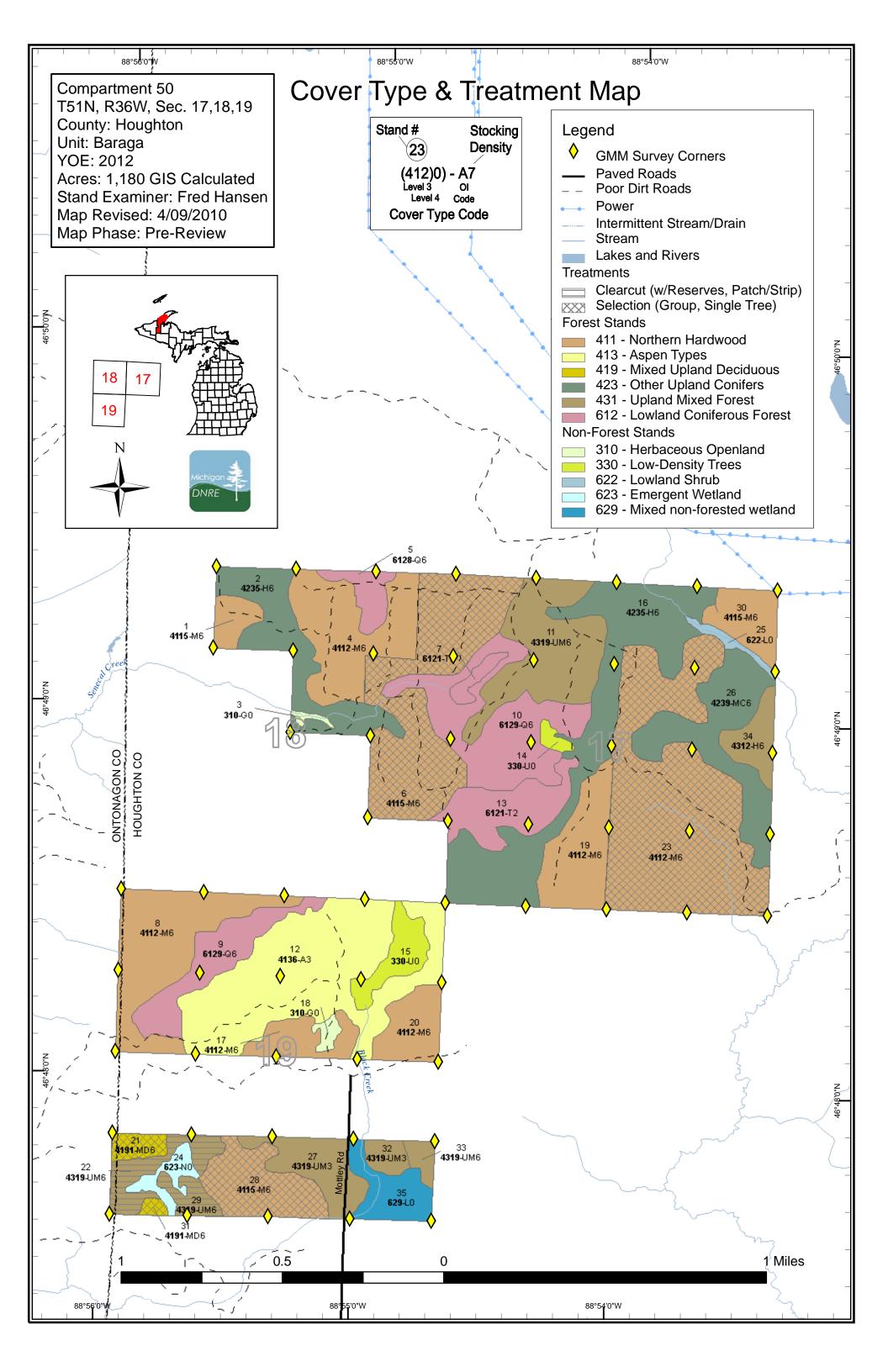
Survey Needs: Some survey work will need to be done for timber harvest activities.

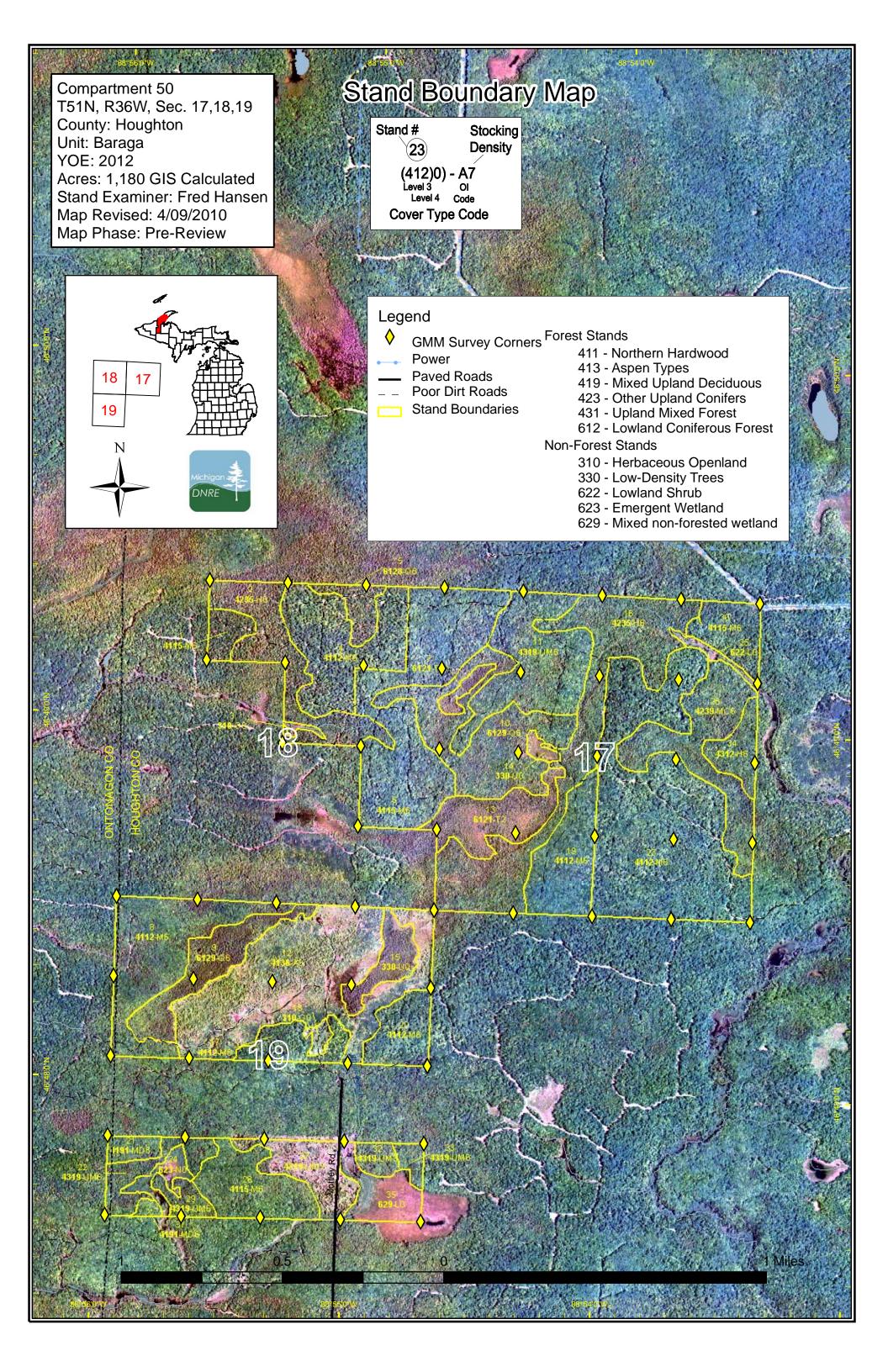
Recreational Facilities and Opportunities: This area provides hunting and fishing oppurtunities.

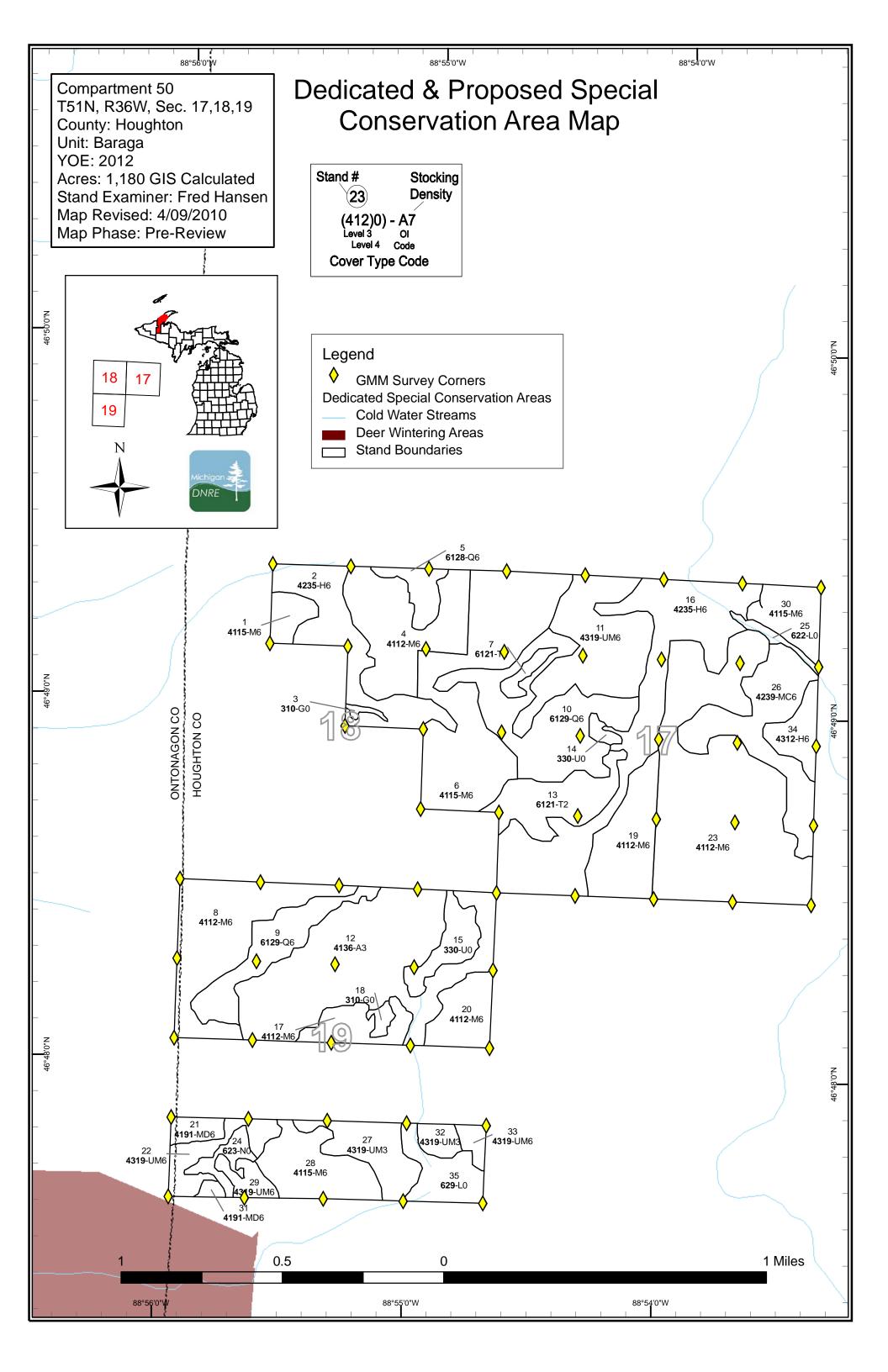
Fire Protection: This is not a fire prone area.

Additional Compartment Information:

- ➤ 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 050 Year of Entry 2012



Age Class																	
	No.	Douge de la company de la comp	87/	70,73	St. St.	, S. J.	D. P.	\$5.05 /	80.00	A. A.	\$ \ &	86.00	, 100 V	70,70	SO SO	KS	, \$ ²
Aspen Types	0	0	142	0	0	0	0	0	0	0	0	0	0	0	0	142	
Emergent Wetland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Low-Density Trees	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	
Lowland Coniferous Forest	0	0	0	0	0	0	0	38	0	0	0	0	43	0	88	169]
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Mixed non-forested wetland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	105	0	0	0	487	592	
Other Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	228	228	
Upland Mixed Forest	0	38	0	0	0	0	0	0	0	0	0	10	0	0	112	159	
Total	67	38	142	0	0	0	0	38	0	0	105	10	43	0	925	1368	



Table 2 – Proposed Treatment Summaries

Baraga Mgt. Unit Compartment 050
Year of Entry 2012 Total Compartment Acres: 1368

Acres by Treatment Type

Commercial Harvest - 372 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

	Cover Type by Harvest metrica								
		/	**************************************	10 S	N. D. S.	Normoo /	out of the second		Se de la companya de
Mixed Upland De	ciduous	0	11	0	0	0	0	11	
Northern Hardwo	od	0	331	0	0	0	0	331	
Upland Mixed Fo	rest	30	0	0	0	0	0	30	•
	Total	30	342	0	0	0	0	372	

Compartment: 050 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 Method Name CoverType Density Age Type Objective d 6 11050006-Cut 112.7 4115 - Y.Birch, High Density Pole 99 Harvest Single Tree Selection Y.Birch, Hemlock NH Hemlock NH Prescription Thin hardwood to 85 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more Specs: of Hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Complete Other_ Comments: underplant after harvest completion with Hemlock or/and Pine. <u>Next</u> Steps: 11050021-Cut 21 8.3 4191 - Mixed High Density Pole 99 Harvest Single Tree Selection Mixed Upland **Upland Deciduous** Deciduous with with Conifer Conifer Prescription Thin hardwood to 85 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or Specs: more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Complete Marker. Other | Comments: Next Steps: 100 11050022-Cut 20.2 4319 - Mixed High Density Pole Harvest Clearcut with Mixed Upland Forest 22 **Upland Forest** Reserves Prescription Reserve Pine Hemlock and Cedar Specs: Other _ Comments: Next Steps: 11050023-Cut 178.2 4112 - Maple, High Density Pole 23 99 Harvest Single Tree Selection Maple, Beech, Beech, Cherry Cherry Association Association

Prescription Thin hardwood to 85 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Specs: Complete Marker.

Other Comments:

underplant after harvest completion with Hemlock or/and Pine. Next

Steps:

28 11050028-Cut 40 4 4115 - Y.Birch, High Density Pole 99 Harvest Single Tree Selection Y.Birch, Hemlock NH Hemlock NH

Prescription Thin hardwood to 85 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Specs:

Complete Marker.

Other Comments:

Next Steps:

Baraga Mgt. Unit Table 3 -- Treatments Prescribed Compartment: 050 Year of Entry 2012 with No Limiting Factor s t а Stage1 Size Stand Treatment **Treatment Cover Type Treatment** Acres n Page 2 of 2 Density Method CoverType Type Objective Name Age d 29 11050029-Cut 9.7 4319 - Mixed High Density Pole 100 Harvest Clearcut with Mixed Upland Forest **Upland Forest** Reserves Prescription Reserve Pine Hemlock and Cedar Specs: <u>Other</u> Comments: <u>Next</u> Steps: 31 11050031-Cut 2.5 4191 - Mixed High Density Pole 99 Harvest Mixed Upland Single Tree Selection **Upland Deciduous** Deciduous with with Conifer Conifer

<u>Prescription</u> Thin hardwood to 85 BA. Favor white pine and hemlock. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all <u>Specs:</u> snags that do not pose a safety hazard. For further assistance refer to The Complete Marker.

Other Comm

Comments:

Next Steps:

Total Treatment

Acreage Proposed: 371.9

Baraga Mgt. Unit

Table 4 -- Treatments Prescribed with a Limiting Factor

Compartment: 050 Year of Entry 2012 Michigan DNRE

n Treatment

Acres Stage1 CoverType Size Density Stand Age Treatment Type

Treatment Method

Cover Type Objective

Page 1 of 1

Prescription

Specs:

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Other Comment:

Next Steps:

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

Total Treatment Acreage Proposed:

0

S t	Baraga	Baraga Mgt. Unit			rested Stands Method: IFMAP	Nichion S
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4115 - Y.Birch, Hemlock NH	High Density Pole	11.4	Uneven Age	81-110	Skeeter Hdwd cut in 2003
2	42350 - Upland Hemlock	High Density Pole	52.9	Uneven Age	81-110	OI 1887
4	4112 - Maple, Beech, Cherry Association	High Density Pole	64.9	99	51-80	Skeeter Hdwd, cut 2003
5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	13.2	Uneven Age		OI 1887
6	4115 - Y.Birch, Hemlock NH	High Density Pole	112.7	Uneven Age	111-140	
7	6121 - Tamarack	Medium Density	5.8	116	1-50	
8	4112 - Maple, Beech, Cherry Association	High Density Pole	72.1	Uneven Age	81-110	Motley Mix, cut 2004-ish
9	6129 - Mixed Coniferous Lowland Forest	High Density Pole	37.8	69	111-140	thick hemlock on south end. Cut in 2020 when Adj (A3) get taller. SI black Spruce 69 years
10	6129 - Mixed Coniferous Lowland Forest	High Density Pole	75.0	Uneven Age	171-200	Ridges w/ heavy hemlock. between ridges are wet lowland, b.spruce, cedar
11	4319 - Mixed Upland Forest	High Density Pole	68.6	Uneven Age	111-140	OI 1924, Pine Martin sale, cut in 2005 Unit 5.
12	4136 - Aspen, Mixed Conifer	High Density Sapling	142.2	12		Cut in 1998, Some dieback from beaver on south side
13	6121 - Tamarack	Medium Density	37.5	116	1-50	
16	42350 - Upland Hemlock	High Density Pole	115.1	Uneven Age	200+	OI 1906
17	4112 - Maple, Beech, Cherry Association	High Density Pole	20.2	Uneven Age	81-110	cut in 1998-ish
19	4112 - Maple, Beech, Cherry Association	High Density Pole	43.7	Uneven Age	81-110	Pine Marten Hdwd, cut in 2006.
20	4112 - Maple, Beech, Cherry Association	High Density Pole	25.1	Uneven Age	81-110	cut in 1999-ish
21	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	8.3	Uneven Age	141-170	
22	4319 - Mixed Upland Forest	High Density Pole	20.2	Uneven Age	1-50	Reserve Pine Hemlock and Cedar

s t	Baraga Mgt. Unit				rested Stands Method: IFMAP	Compartment: 050 Year of Entry: 2012
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4112 - Maple, Beech, Cherry Association	High Density Pole	178.2	Uneven Age	111-140	cut in 1997
26	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	60.0	Uneven Age	171-200	OI 1906
27	4319 - Mixed Upland Forest	High Density Sapling	29.9	5		Cut 2005-ish
28	4115 - Y.Birch, Hemlock NH	High Density Pole	40.4	99	111-140	poor Quality
29	4319 - Mixed Upland Forest	High Density Pole	9.7	100	1-50	Reserve pine hemlock, and cedar
30	4115 - Y.Birch, Hemlock NH	High Density Pole	23.6	Uneven Age	81-110	Cut in Adjacent CMPT in 2001-ish
31	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.5	Uneven Age	141-170	
32	4319 - Mixed Upland Forest	High Density Sapling	8.1	5		Cut 2005-ish
33	4319 - Mixed Upland Forest	High Density Pole	5.9	Uneven Age	81-110	Motley hard fir cut 2005
34	4312 - Hemlock, Mixed Deciduous	High Density Pole	17.0	Uneven Age	111-140	Cut with CMPT 49 next time. Small acreage.

Baraga Mgt. Unit

6 - Nonforested Stands Inventory Method: IFMAP

Compartment: 050 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:
3	3102 - Grass	1.8	Grass with white pine recruiting into stand, drainage
14	3302 - Low Density Conifer Trees	3.5	
15	3302 - Low Density Conifer Trees	19.1	
18	3102 - Grass	3.7	Starting to grow in with balsam, spruce and cherry May want to maintain oppening??
24	6239 - Mixed Emergent Wetland	10.0	
25	6220 - Alder/willow	4.7	
35	629 - Mixed non-forested wetland	23.7	

Baraga Mgt. Unit Compartment: 050

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 Compartmen





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	Туре	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 condistocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildli and Waterfowl Production Areas, deer wintering complexes in low openings and savannas. Habitat areas are distinct from critical harmonisms are distinct from critical harmonisms 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