

Compartment Review Presentation

Baraga Forest Management Unit

Compartment 54
Entry Year 2016
Acreage: 869

County Houghton

Management Area: Central Houghton

Revision Date: 04/09/2014

Stand Examiner: John Turunen

Legal Description:

HOUGHTON COUNTY, ELM RIVER TOWNSHIP T52N, R36W, Sections 32, 33

T51N, R36W, Section 5

Identified Planning Goals:

The Central Houghton management area is on dissected moraines in Central Houghton County. The state forest covers 46,908 acres and is in scattered blocks. The management area is dominated by the northern hardwoods, aspen and lowland conifer cover types. Other attributes that played a role in the definition of this management area include:

- Dominated by the mesic northern forest natural community;
- · High-range in site quality;
- · Provides multiple benefits including forest products and dispersed recreational activities; and
- Provides a variety of fish and wildlife habitats.
- This management area contains one of the western Upper Peninsula Grouse Enhanced Management Systems areas. This area plan will emphasize balanced age classes of aspen for timber production which will have habitat benefits for ruffed grouse. The boundaries of Grouse Enhanced Management Systems areas will be delineated and an operational plan will be developed during this planning period by the local biologist in collaboration with the Forest Resources Division unit manager and integrated into the plan through the revision process.

The management priority for this area is the production of high-quality timber products, particularly hardwood sawlogs and veneer while maintaining habitat qualities for wildlife species dependent on the northern hardwood communities in this area.

Soil and topography:

Graveraet (loam), Misery (fine sandy loam), Kalkaska (sand), Munising (loamy fine sand), Skanee (fine sandy loam), Gay (mucky sandy loam), AuGres (sand), Roscommon (sand), Tawas (muck), Cathro (muck). The terrain is level to slightly rolling.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Most of the state land is in one block. Much of the adjacent land is owned by industry, the rest is owned by small private owners. Land use is primarily for forestry.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

No water resources are within the current compartment boundaries.

Wildlife Habitat Considerations:

Stimulation of hard- and soft-mast-producing species is desirable when commercial treatments are scheduled. This compartment has good bear habitat.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 54: Sections 31 - 33, T52N-R36W, Houghton Co

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone and the Portage Lake Volcanics subcrop below the glacial drift. The Jacobsville was previously used as a building stone and the Portage Lake was mined for copper in Section 30. The nearest gravel pit is located just to the north and potential appears to be

good. Abandoned copper mines and crushed basalt piles are located just to the north. Part of this Compartment was previously leased for metallic development. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is good in the compartment, some is winter road.

Survey Needs:

Survey work is in progress.

Recreational Facilities and Opportunities:

Access is good to most of the compartment. There is some hunting. Use of the State owned railroad grade is high. The Nicholls snowmobile trail and the Alston to Winona snowmobile trail are in the compartment area.

Fire Protection:

Wildfire occurance here is rare.

Additional Compartment Information:

A special use permit was issued in 1987 to Michigan Tech for an acid rain study. This is not intended to be a long term use of the state forests.

A land exchange consolidated ownership. Two forties were transferred in the exchange.

The following reports from the Inventory are attached:

Total Acres by Cover Type and Age Class

Cover Type by Harvest Method

Proposed Treatments - No Limiting Factors

Proposed Treatments – With Limiting Factors

Stand Details (Forested and Nonforested)

Dedicated and Proposed Special Conservation Areas

Site Condition Details

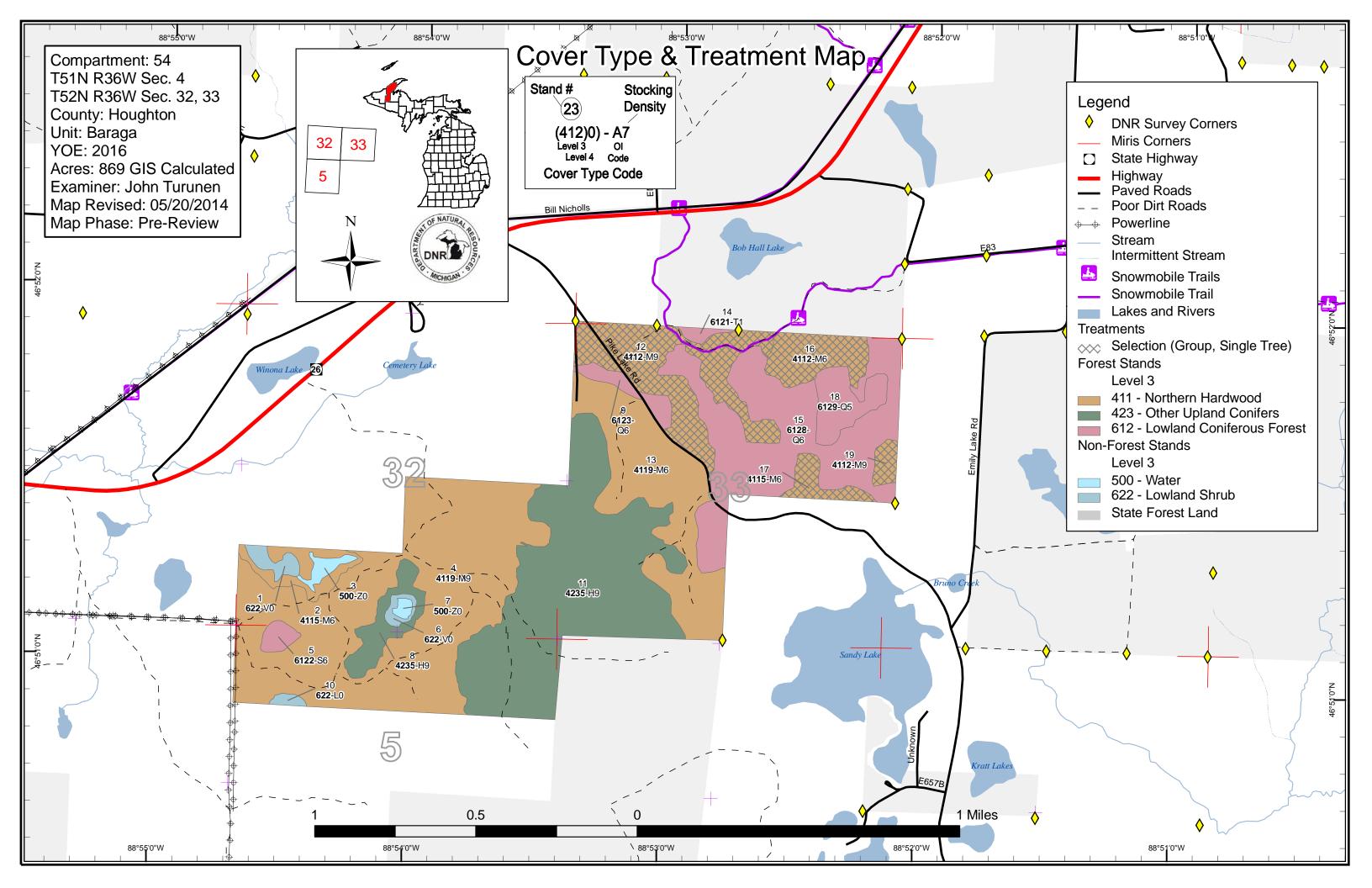
The following information is displayed, where pertinent, on the attached compartment maps:

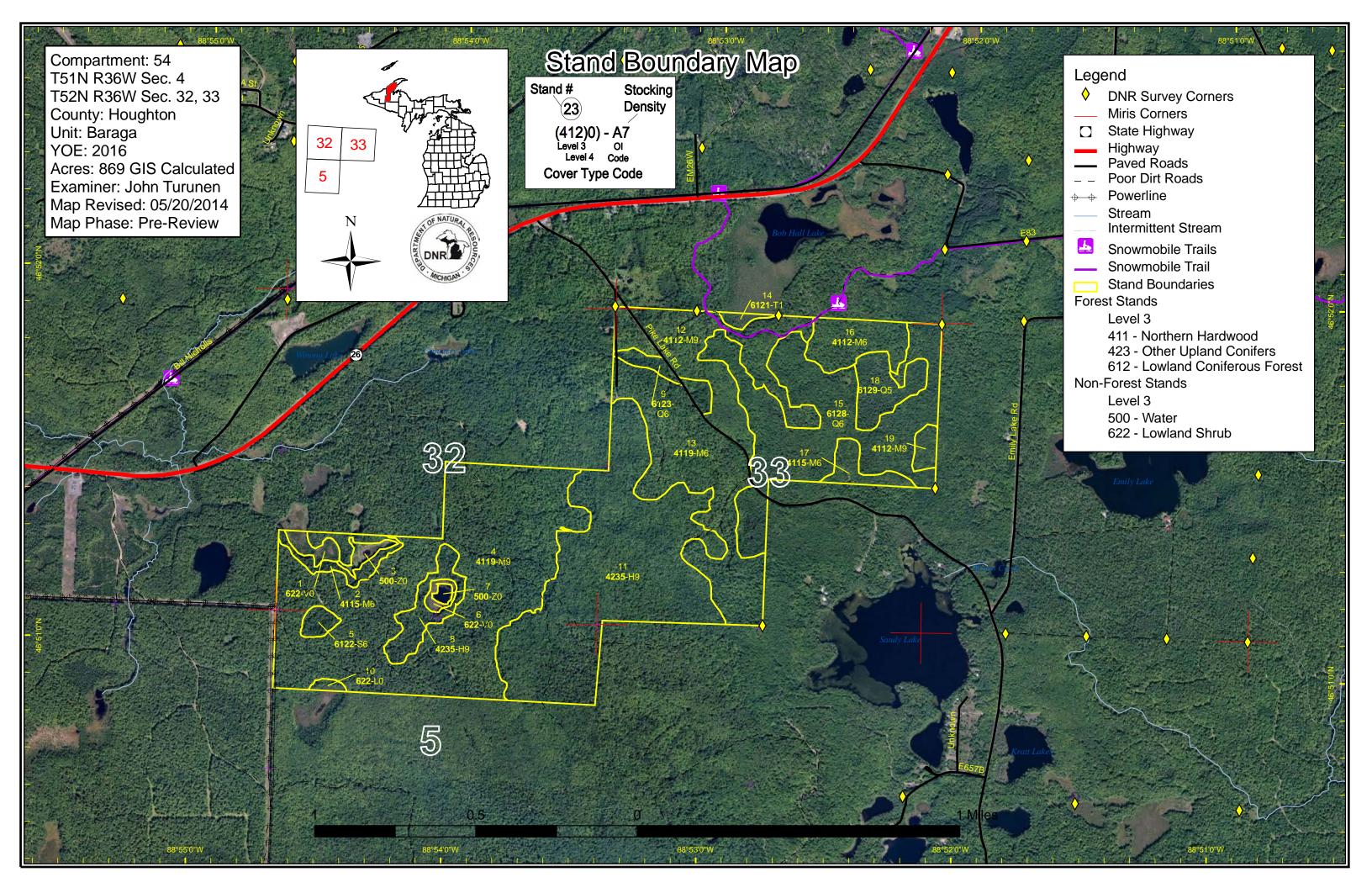
Base feature information, stand boundaries, cover types, and numbers

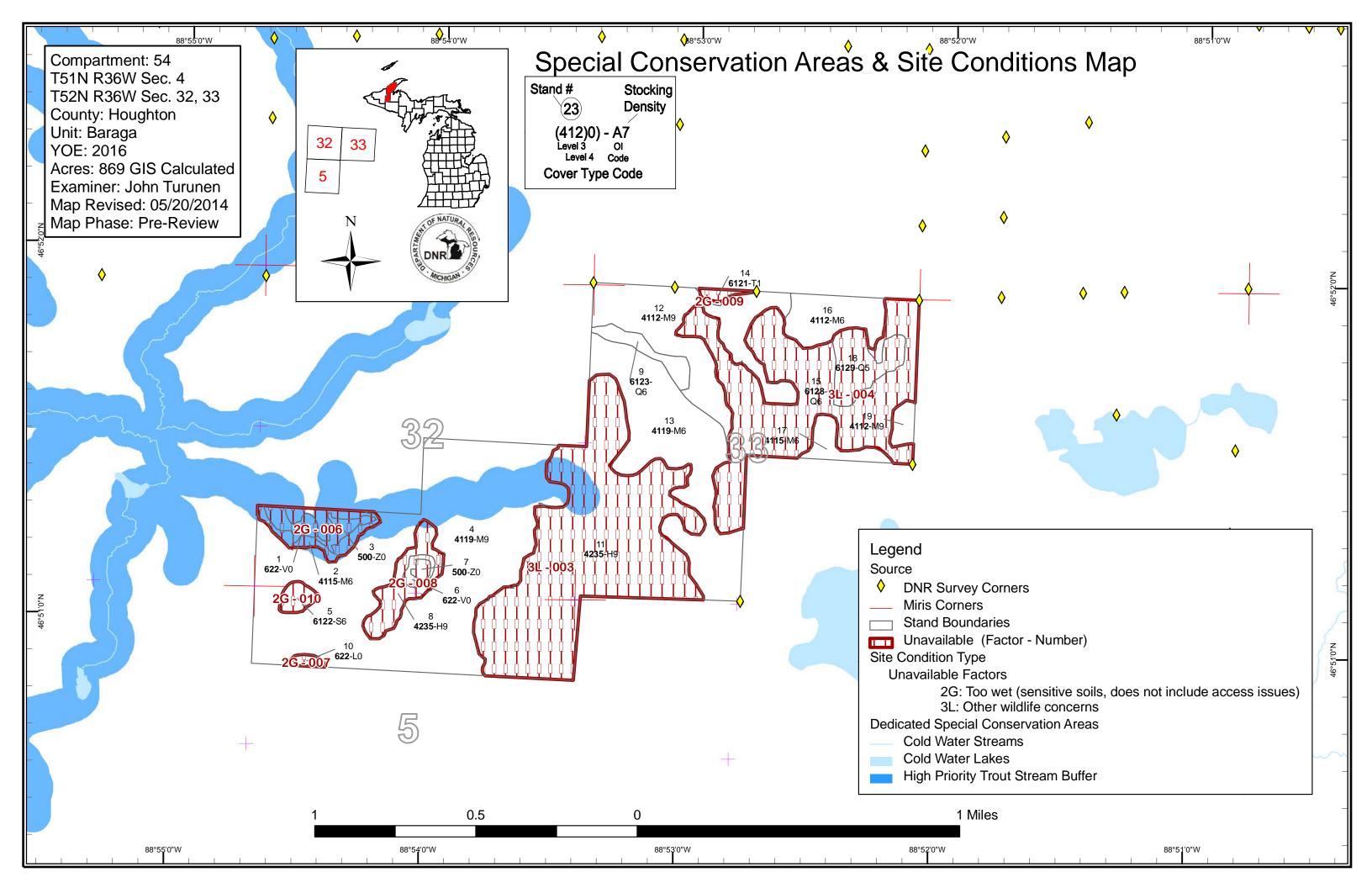
Proposed treatments

Site condition boundaries

Details on the road access system

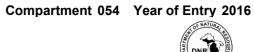






John Turunen : Examiner

Baraga Mgt. Unit



Age Class																
		8.0	0,70	\$10.50 /	& V	AD AS	\$. \$.	, 00°, 00°, 00°, 00°, 00°, 00°, 00°, 00	120	80° 6	85.00	Sa. Va.	70,70	No X	No. No.	, so l
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	211	211	
Lowland Conifers	0	0	0	0	0	10	0	0	0	21	0	0	0	128	159	
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	473	473	
Tamarack	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Total	17	0	0	0	3	10	0	0	5	21	0	0	0	813	869]



Report 2 – Proposed Treatment Summaries

Baraga Mgt. Unit Year of Entry 2016 **Total Compartment Acres: 869**

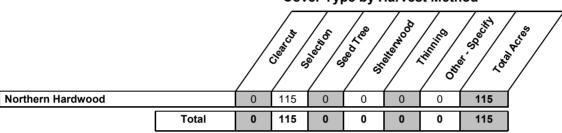
Acres by Treatment Type

Other - 0

Tree Planting - 0 Commercial Harvest - 115

Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method



Compartment 054

Baraga Mgt. Unit S

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 054 Year of Entry 2016

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	11054012-Cut	72.9	4112 - Maple, Beech, Cherry Association	High Density Log	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, black cherry, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set Specs:

forth in "The Complete Marker".

Other Leave 4" base of snow on snowmobile trail if logged during the snowmobile season.

Comments:

Next Steps:

Proposed

Start Date: 10/01/2015

11054016-Cut 25.7 4112 - Maple, High 99 81-110 Harvest Single Tree 411 - Northern Cmpt. Review 16 Beech, Cherry Selection Density Hardwood Proposal Association Pole

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, black cherry, white pine and cedar where present. Oak should be released Specs: on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

<u>Other</u> Leave 4" base of snow on snowmobile trail if logged during the snowmobile season.

Comments:

<u>Next</u> Steps:

Proposed

10/01/2017 Start Date:

10.9 4115 - Y.Birch. High 99 81-110 Single Tree 411 - Northern Cmpt. Review 17 11054017-Cut Harvest Hemlock NH Density Selection Hardwood Proposal Pole

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, black cherry, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set Specs: forth in "The Complete Marker".

Other Leave 4" base of snow on snowmobile trail if logged during the snowmobile season.

Comments:

Next Steps:

<u>Proposed</u>

Start Date: 10/01/2015

19 11054019-Cut 5.8 4112 - Maple, High 111-140 Harvest Single Tree 411 - Northern Cmpt. Review 99 Beech, Cherry Density Log Proposal Selection Hardwood Association

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, black cherry, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set Specs:

forth in "The Complete Marker".

Leave 4" base of snow on snowmobile trail if logged during the snowmobile season. <u>Other</u>

Comments:

<u>Next</u> Steps:

Proposed

10/01/2015 Start Date:

Total Treatment

Acreage Proposed: 115.3

Baraga Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 054 a Site Condition s Year of Entry 2016 t а **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Method Objective Status Name Range Density Age Type #Type! #Type! **Prescription** Specs: Other Comment: <u>Next</u> Steps: **Proposed** #Type! Start Date:

Total Treatment

Limiting Factor

Acreage Proposed: 0.0

Report 5 – Site Conditions

Baraga Mgt. Unit

John Turunen: Examiner

Compartment 054 Year of Entry 2016



Availability for Management

Total	Acres	Acres	ι	Dominaı	nt Site	Cond	litions
Acres	Available	Not Available		No	3L	2G	
210		210	Hemlock		192	18	
158	10	148	Lowland Conifers	10	148		
5		5	Lowland Spruce/Fir			5	
471	456	14	Northern Hardwood	456		14	
3	0	2	Tamarack	0		2	
847	467	381	Total Forested Acres	467	340	40	
	55%	45%	Relative Percent				

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

		•			,	-	• •
	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	Not Available	3L: Other wildlife concerns	193				
	omments: /LD does not allow	harvest of this forest type.					
04	Not Available	3L: Other wildlife concerns	149				
	omments: /LD does allow ha	rvesting of this forest type.					
006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	25	3L: Other wildlife concerns			
С	omments:						

Report 5 – Site Conditions

Baraga Mgt. Unit
John Turunen : Examiner

Compartment 054 Year of Entry 2016



007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2	
С	omments:			
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	23	3K: Rare or unique landforms
С	omments:			
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3	
С	omments:			
010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	5	
С	omments:			

Baraga Mgt. Unit Comp

Compartment: 054 Year of Entry: 2016



Report 6 - 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Baraga Mgt. Unit Compartment: 054





Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area				
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical resites of cultural and historical significance that may occur upon to bottomlands. They include thousands of Native American settlem and British outposts, nineteenth century logging camps, mines at the Great Lakes, there are shipwrecks and other remains docum be identified by Natural heritage data from the State Historic Prethis compartment will be implemented in such a manner as to mathe sensitive nature of this information, no further detail about log	errestrial areas and Great Lakes nents and burial sites, as well as French and homesteads. Beneath the waters of tenting the maritime trade. Such sites may servation Office. Proposed treatments in taintain the integrity of these sites. Due to				
SCA	SCA Cold Water Lake A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reprod stocked trout populations and those of other coldwater fish species to persist from year to year conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have so groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Fisheries Order 200.						
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked 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 see conditions due to substantial				
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effects as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well				

s t	Barag	a Mgt. Unit		Report 8 –	- Forested Sta	nds Compartment: 054 Year of Entry: 2016
a n d	Level 4 Size Cover Type Density		Acres	Stand Age	BA Range	General Comments:
2	4115 - Y.Birch, Hemlock NH	High Density Pole	14.6	Uneven Age	111-140	Rmz
4	4119 - Mixed Northern Hardwoods	High Density Log	246.0	Uneven Age	81-110	part of Half Nelson Hdwds., completed 6-20-97
5	6122 - Black Spruce	High Density Pole	5.3	88		wet
8	42350 - Upland Hemlock	High Density Log	18.6	Uneven Age	81-110	RMZ
9	6123 - Lowland Fir	High Density Pole	9.7	53		
11	42350 - Upland Hemlock	High Density Log	192.7	Uneven Age	111-140	cutting restrainsts for Hemlock and Cedar
12	4112 - Maple, Beech, Cherry Association	High Density Log	72.9	Uneven Age	111-140	may need to exclude finger from sale
13	4119 - Mixed Northern Hardwoods	High Density Pole	97.2	Uneven Age	81-110	was treated in 1997
14	6121 - Tamarack	Low Density Sapling	2.9	46		
15	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	128.3	Uneven Age		
16	4112 - Maple, Beech, Cherry Association	High Density Pole	25.7	Uneven Age	81-110 v	vas treated in 2006, cut with adjacent stand to north in 2018
17	4115 - Y.Birch, Hemlock NH	High Density Pole	10.9	Uneven Age	81-110	
18	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	21.0	94		wet
19	4112 - Maple, Beech, Cherry Association	High Density Log	5.8	Uneven Age	111-140	

Compartment: 054 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6225 - Bog	5.9	No	Unspecified	
3	50 - Water	4.6	No	Unspecified	
6	6225 - Bog	2.9	No	Unspecified	
7	50 - Water	1.8	No	Unspecified	
10	622 - Lowland Shrub	2.1	Unspecified	Unspecified	sparse trees, lowland