

Compartment Review Presentation

Baraga Forest Management Unit

Compartment 36
Entry Year 2016

Acreage: 1,034
County Houghton

Management Area: Central Houghton

Revision Date: 04/09/2014

Stand Examiner: Jason Mittlestat

Legal Description:

HOUGHTON COUNTY, PORTAGE TOWNSHIP

T53N, R35W, Sections 35, 36

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:

Munising – Yalmer complex (loamy fine sand and sand), AuGres – Roscommon complex (sand and mucky sands), Kalkaska – Halfaday sands, Halfaday – AuGres sands, Tawas – Roscommon mucks, Keweenaw – Kalkaska complex (loamy sand and sands), Munising loamy fine sand, Skanee – Gay complex (fine sandy loam). Terrain is level to rolling.

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

There is adjacent state owned land to the north in Section 25 and 26. Lands to the east and west are owned by forest industry. The south line is bordered by small private ownership's. The adjacent ownership is managed for timber and hunting.

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:

Thirteen mile creek, and the Sante River and its tributaries are trout streams.

Wildlife Habitat Considerations:

The combination of lowlands and uplands is good black bear habitat. Encouragement of hard- and soft-mast-producing species is desirable when commercial treatments are scheduled. Protection of ephemeral wetlands in northern hardwood stands is important to preserve spring foraging opportunities for bears.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 36: Sections 35 and 36, T53N-R35W, Houghton County

Surface sediments consist of lacustrine (lake) sand and gravel and minor coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone. The nearest gravel pit is located three miles to the south and potential

appears to be good on the uplands. Abandoned copper mines and crushed basalt piles are located six miles to the north and to the southwest. The compartment has not been leased before. There is no economic oil and gas production in the UP.

Vehicle Access:

Road access to the greater part of the compartment is from the Dollar Bay Grade. Access has been improved through the corporate land to the north. The east end of the compartment is accessed from Palo Road.

Survey Needs:

None.

Recreational Facilities and Opportunities:

There are no developed recreational facilities. There is occasional hunting and fishing.

Fire Protection:

This compartment is very remote with limited public access. Human caused fire occurance is very low here historically.

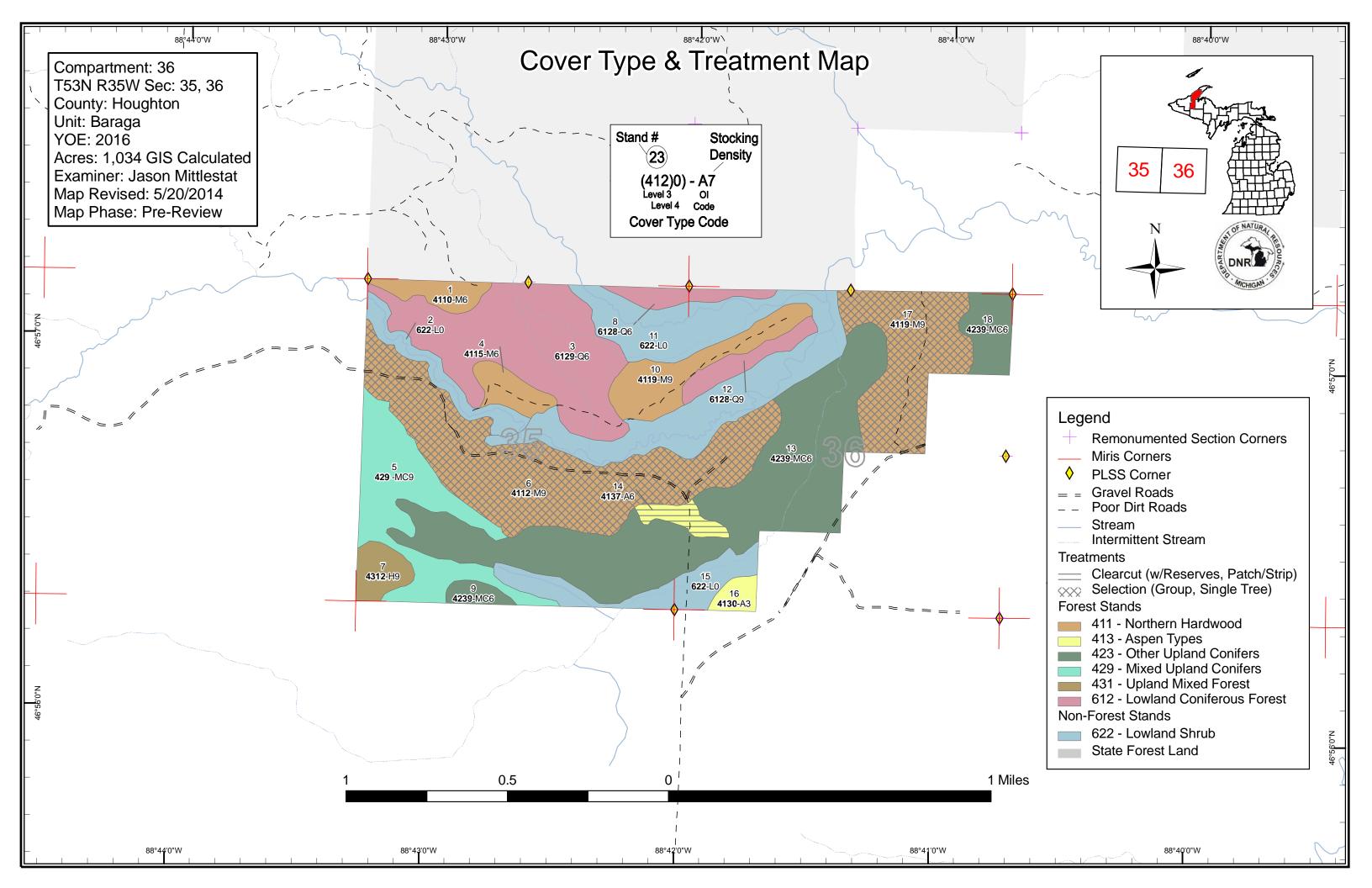
Additional Compartment Information:

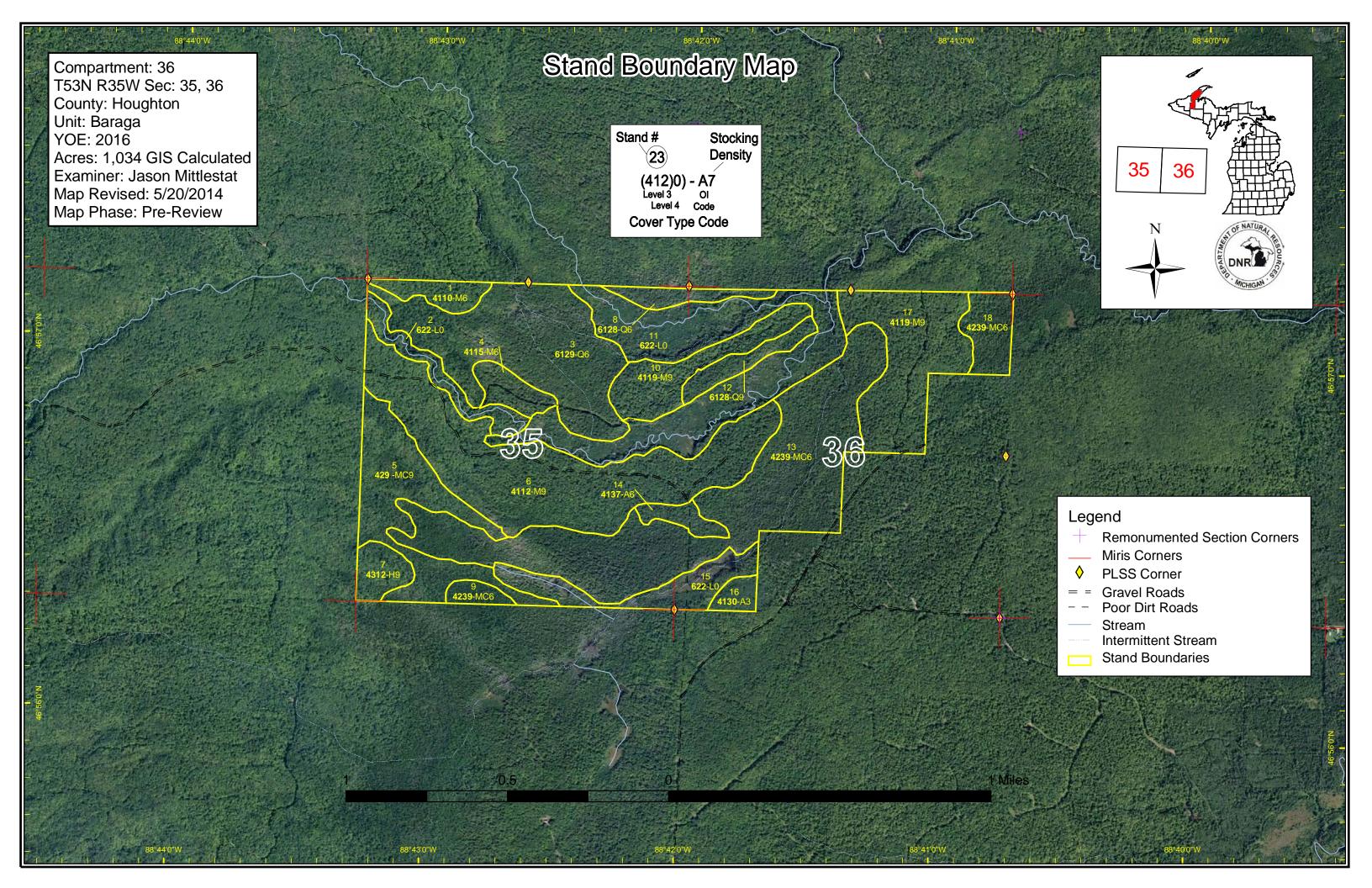
The following reports from the Inventory are attached:

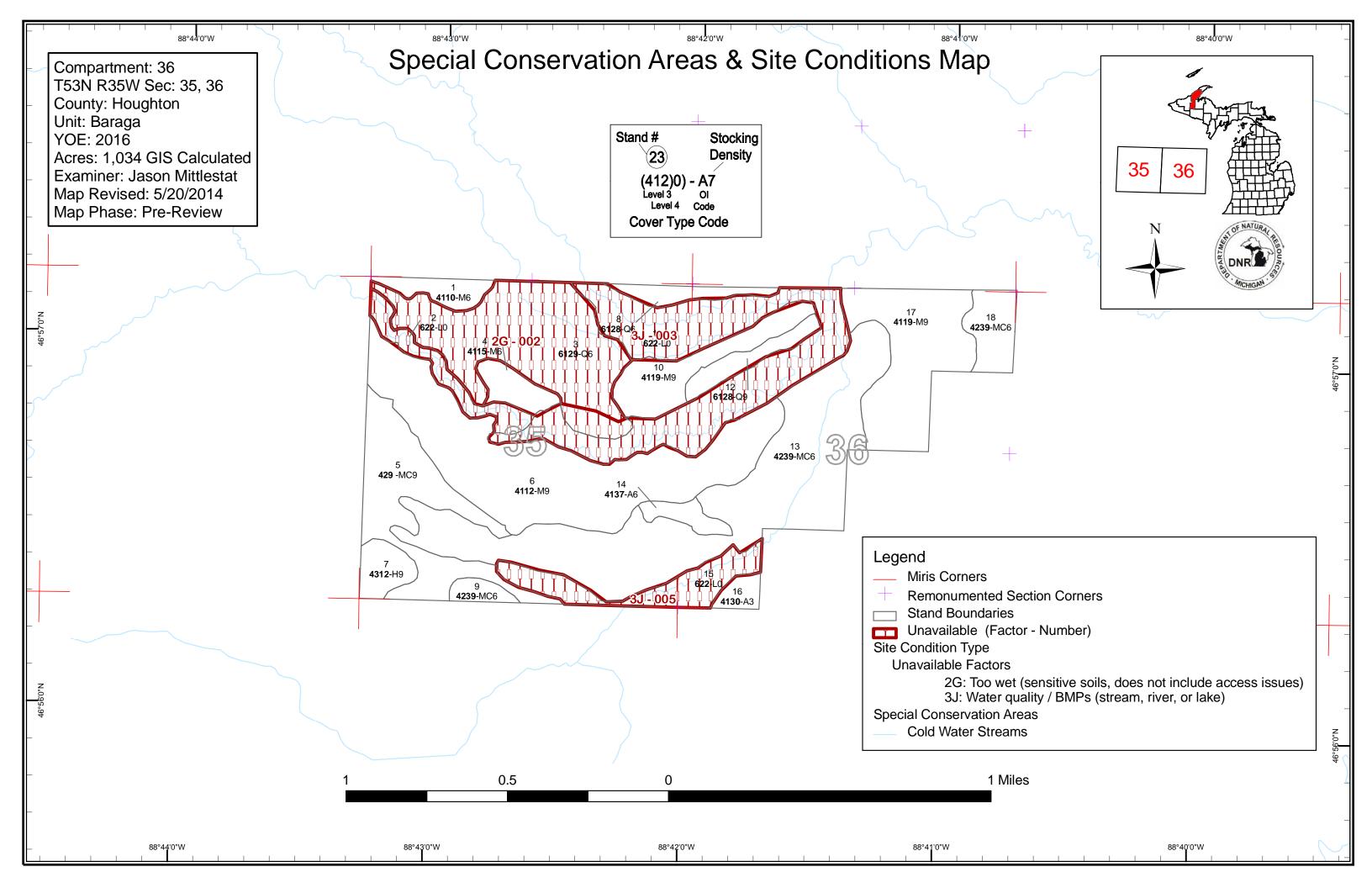
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Compartment 036 Year of Entry 2016

Jason Mittlestat : Examiner

Baraga Mgt. Unit



	Age Class															
		o,	\$ 70,00	ro. S.		AD AS	\$ 'S	800	, no. / .	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	35	Sol .	70,73	10° 30°	Por V	**************************************
Aspen	0	8	0	0	0	0	0	0	11	0	0	0	0	0	19	
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	
Lowland Conifers	0	0	0	0	0	0	0	0	124	0	0	0	0	30	154	
Lowland Shrub	198	0	0	0	0	0	0	0	0	0	0	0	0	0	198	
Northern Hardwood	0	0	0	0	0	0	15	0	0	0	0	0	0	313	328	
Upland Conifers	0	0	0	0	0	0	0	0	211	30	0	0	0	79	320	
Total	198	8	0	0	0	0	15	0	346	30	0	0	0	437	1034	



Report 2 – Proposed Treatment Summaries

Baraga Mgt. Unit Year of Entry 2016

Compartment 036
Total Compartment Acres: 1,034

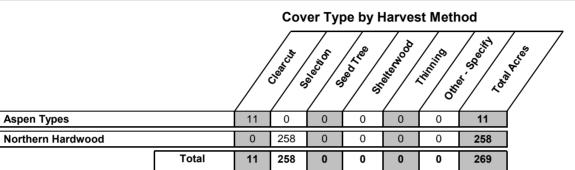
Acres by Treatment Type

Commercial Harvest - 269 Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 0



Baraga Mgt. Unit S

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 036 Year of Entry 2016

t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	11036006-Cut	175.3	4112 - Maple, Beech, Cherry Association	High Density Log	99 I	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Specs:

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 50 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

<u>Other</u>

Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2015

11036014-Cut

10.5 4137 - Aspen, Birch

High Density Pole

88

Harvest

Clearcut with Reserves

4137 - Aspen, Birch Cmpt. Review

Proposal

Specs:

Prescription Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. All yellow birch 20" DBH and greater shall be retained. Retention for this stand will be greater than 3% and will consist of reserve tree species.

Other Comments:

<u>Next</u>

Regeneration survey as per work instructions.

Steps:

Proposed

10/01/2015 Start Date:

11036017-Cut

4119 - Mixed 82.6 Northern Hardwoods Density Log

High

99 111-140 Harvest

Single Tree Selection

4119 - Mixed Northern Hardwoods Cmpt. Review Proposal

Specs:

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, aspen, black cherry, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 50 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

Other_ Comments:

Next Steps:

Proposed

10/01/2015 Start Date:

Total Treatment

Acreage Proposed:

268.5

Baraga Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 036 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

Jason Mittlestat : Examiner

Compartment 036 Year of Entry 2016



Availability for Management

Total	Acres	Acres	D	omina	nt Site	Cond	litions
Acres	Available	Not Available		No	3J	2G	
19	19	0	Aspen	19	0		
16	16		Hemlock	16			
153	29	125	Lowland Conifers	29	10	114	
327	327	1	Northern Hardwood	327	1		
320	319	1	Upland Conifers	319	1		
835	708	126	Total Forested Acres	708	12	114	
	85%	15%	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
002	Not Available	2G: Too wet (sensitive soils, does not include access issues)	115	3J: Water quality / BMPs (stream, river, or lake)			
С	omments:						
003	Not Available	3J: Water quality / BMPs (stream, river, or lake)	170				
	comments: cante River						
005	Not Available	3J: Water quality / BMPs (stream, river, or lake)	38				
С	comments:						

Baraga Mgt. Unit Com

Compartment: 036 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: 036





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 Area	Туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other of year to year. Coldwater streams in Michigan to	colved oxygen conditions that allow naturally-reproduced or coldwater fish species (e.g., slimy sculpin) to persist from ypically provide these conditions due to substantial ows. Such streams are established by Director's action and order 210.

S t				Report 8 –	Forested	Stands Compartment: 036 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density Acres		Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	High Density Pole	15.0	Uneven Age	81-110	
3	6129 - Mixed Coniferous Lowland Forest	High Density Pole	124.3	88	171-200	
4	4115 - Y.Birch, Hemlock NH	High Density Pole	15.4	65	51-80	"Helecopter Hdwd 1998" Very brushy. Some ash coming in, in the understory.
5	429 - Mixed Upland Conifers	High Density Log	78.9	Uneven Age	111-140	
6	4112 - Maple, Beech, Cherry Association	High Density Log	175.3	Uneven Age	81-110	
7	4312 - Hemlock, Mixed Deciduous	High Density Log	15.8	Uneven Age	111-140	Headwaters of a tib to the Sante River.
8	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	13.4	Uneven Age	81-110	
9	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	7.8	94	171-200	
10	4119 - Mixed Northern Hardwoods	High Density Log	39.9	Uneven Age	81-110	
12	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	16.5	Uneven Age	81-110	
13	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	211.1	88	171-200	
14	4137 - Aspen, Birch	High Density Pole	10.5	88		
16	4130 - Aspen	High Density Sapling	8.1	16		
17	4119 - Mixed Northern Hardwoods	High Density Log	82.6	Uneven Age	111-140	
18	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	22.1	91	171-200	

Compartment: 036 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	622 - Lowland Shrub	22.7	Unspecified	Unspecified	Sante River
11	622 - Lowland Shrub	137.7	Unspecified	Unspecified	
15	622 - Lowland Shrub	37.3	Unspecified	Unspecified	