

Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11034 Entry Year 2018 Acreage: 757

County Houghton

Management Area: Central Houghton

Revision Date: 2016-05-12

Stand Examiner: Jason Mittlestat

Legal Description:

Portage Township,

T53N, R34W, Sections 19, 30

Identified Planning Goals:

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

Soil and topography:

The topography is rolling to hilly. The upland soils are mostly Munising loamy fine sand and sandy loam, and Yalmer sands. There are some Halfaday sands on the East edge. There are some Skanee-Gay complex (fine sandy loam and mucky sandy loam soils). The wetlands are Lupton muck and Dawson peat.

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

There are state forest lands adjacent to the North and West sides of this compartment. Other adjacent lands are industrial timber land, with the exception of small private ownerships to the South and East.

Unique Natural Features:

Potential for osprey, eagle, great blue heron rookery, red-shouldered hawk, goshawk, moose, and gray wolf. Potential for wood turtle along riparian corridors. Potential for calypso orchid, rayless mountain ragwort and ram's head lady's-slipper in conifer swamps.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains cold water tributaries to the North Branch of the Otter River which is a trout stream. There are concerns about stream crossings and bank erosion.

Wildlife Habitat Considerations:

Managing habitat for; black bear, blackburnian warbler, pileated woodpecker, ruffed grouse, northern goshawk and American marten should be considered when planning harvest specifications in this this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of fine-textured till and lacustrine (lake) sand and gravel. 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 closest gravel pit is located four miles to the southeast, but there may be potential on the uplands. Abandoned copper mines are located ten miles to the southwest. The Compartment has not been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Previous timber harvest activity has somewhat improved the road access. However, access is limited across private lands to the South. All stream crossings on State land in this compartment were temporary, and were removed upon harvest completion. New crossings will require permits for future access.

Survey Needs:

None identified at this time, will be addressed as needed in the future.

Recreational Facilities and Opportunities:

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The large expanse of continuous forest offer great hunting opportunities for both large and small game, but is limited due to poor access.

Fire Protection:

This compartment has little to no potential for a large fire with the primary cover type being northern hardwoods. The remote location and equipment access would be the primary issue for fire suppression activities.

Additional Compartment Information:

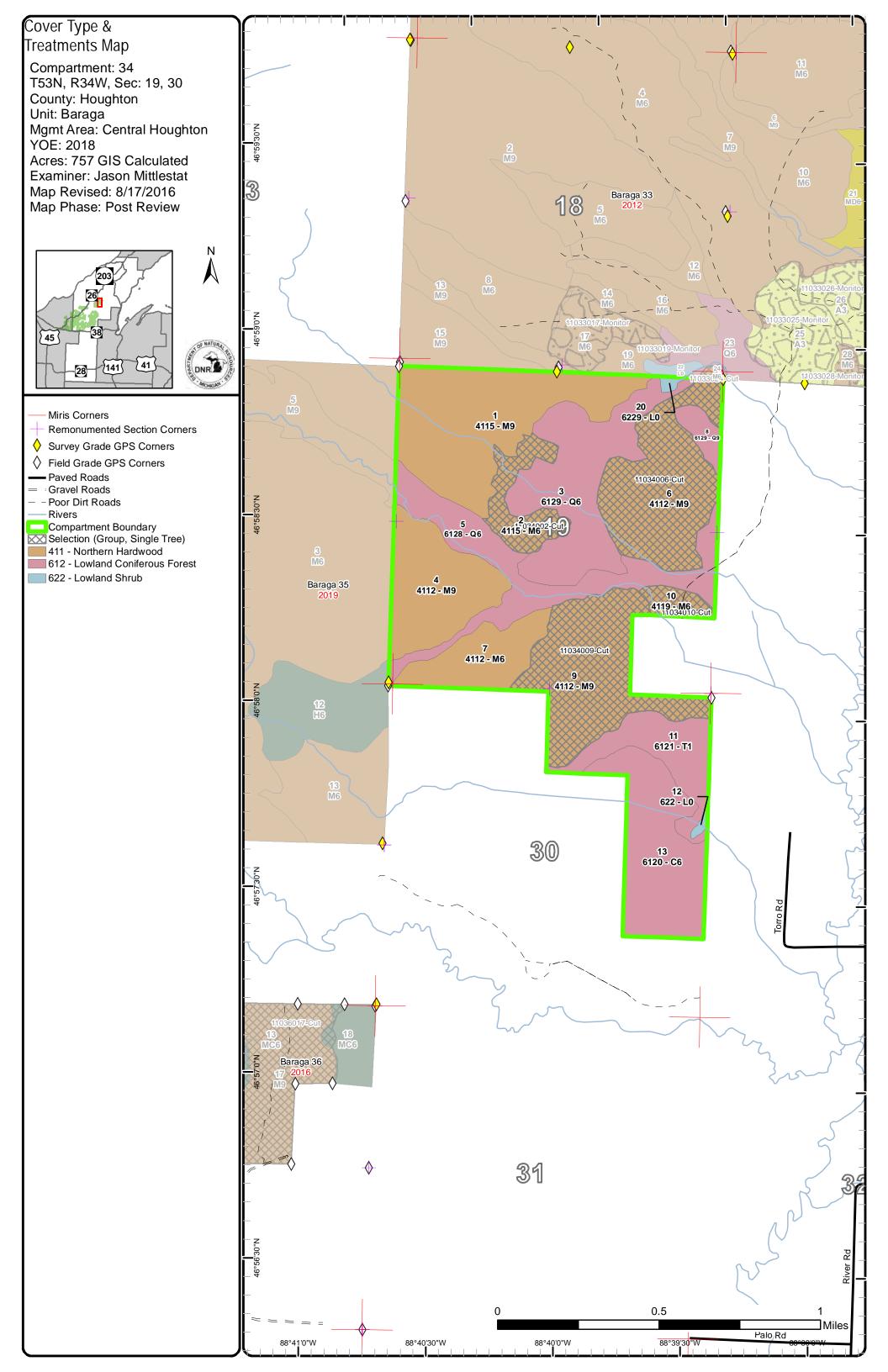
The following reports from the Inventory are attached:

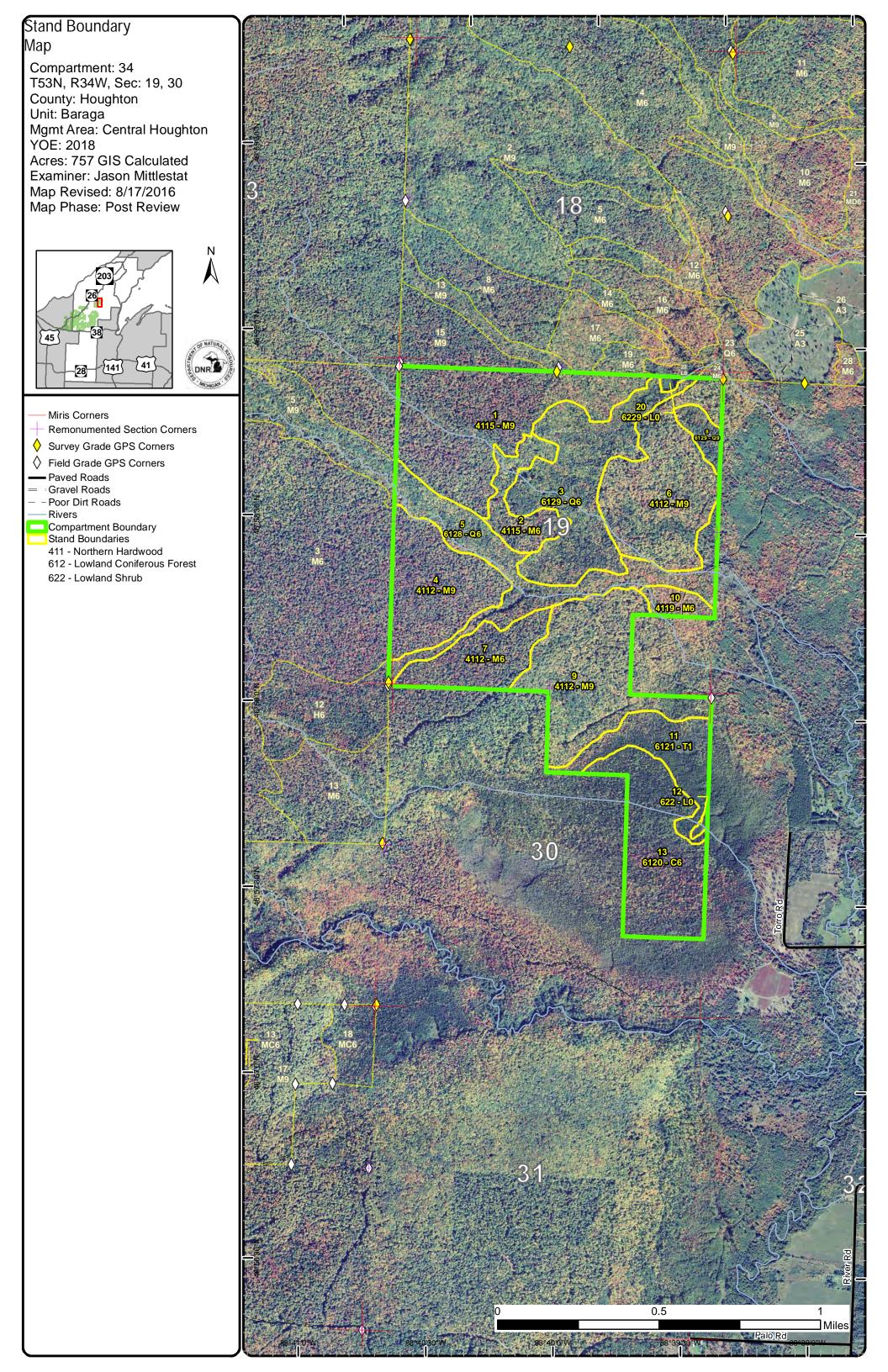
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

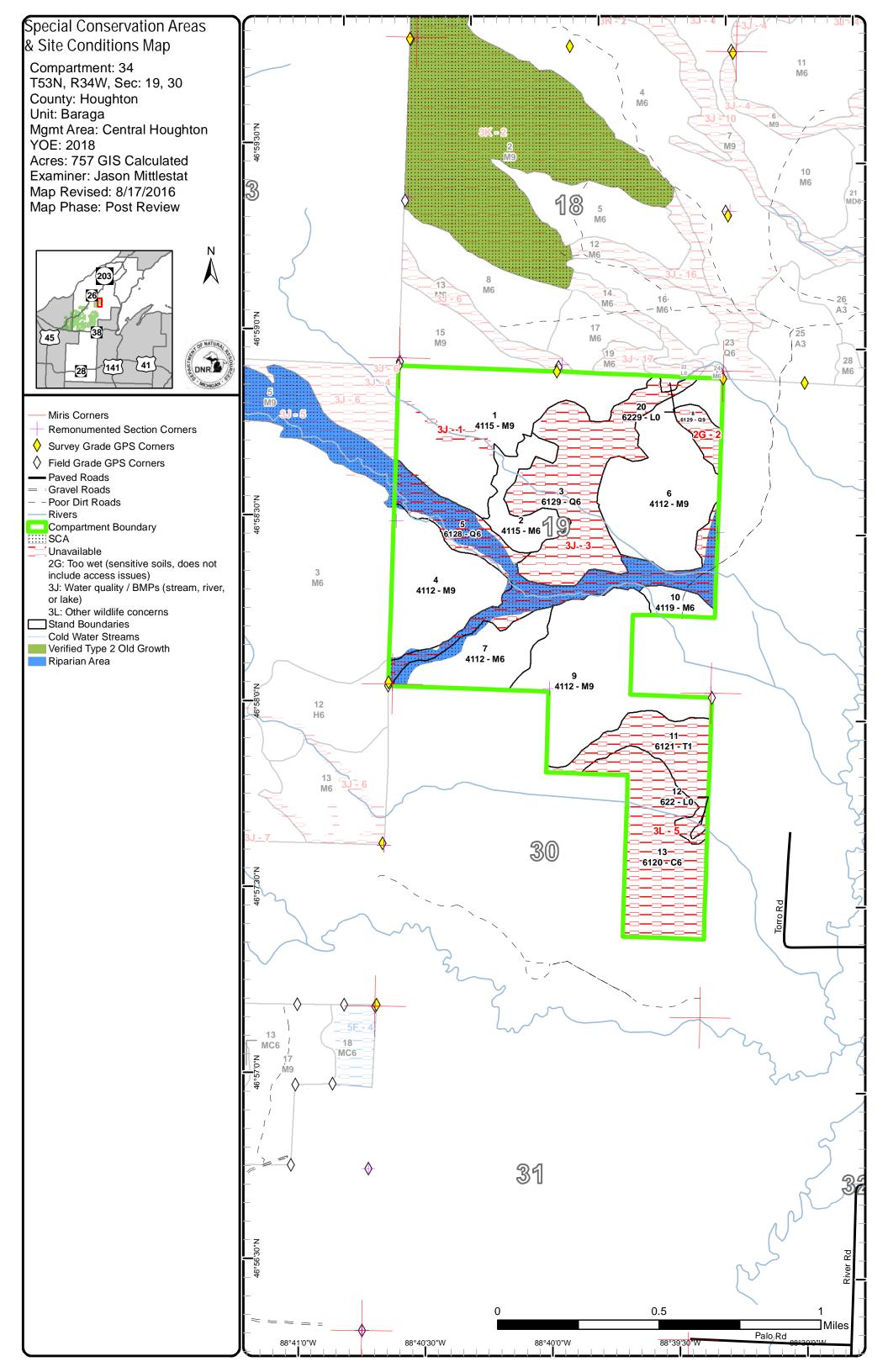
The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries

Details on the road access system







Report 1 – Total Acres by Cover Type and Age Class

Baraga Mgt. Unit

Compartment 34 Year of Entry 2018

Jason Mittlestat: Examiner



Age Class

	* Age	₹/९) S / S		, S.		Se Se	% %	\$ / K	,	8 8	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V / L	, s /s	i ka		N. K.	St Jug	See Lo	,
Cedar	0	0	0	0	0	0	0	0	0	81	0	0	0	0	0	0	0	0	81	1
Lowland Conifers	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	171	181	
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	91	0	0	0	0	0	0	359	450	
Tamarack	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	42	İ
Total	3	0	0	0	0	0	0	0	10	81	133	0	0	0	0	0	0	530	757	



Report 2 – Treatment Summary

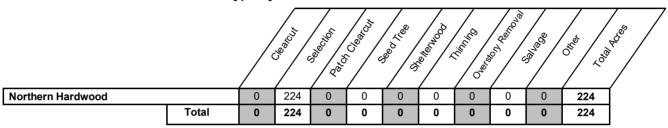
Baraga Mgt. Unit Year of Entry: 2018

Acres of Harvest

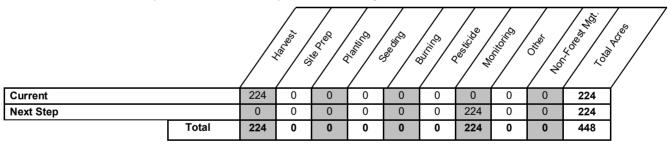
Compartment 34
Total Compartment Acres: 757

Commercial Harvest - 224 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Follow all guidelines set forth in "The

Comment:

Proposed Start Date: 10/01/2017

11034010-Cut 411 - Northern 10.4 4119 - Mixed Poletimber 51-80 Harvest Single Tree Uneven-Draft Field Northern Hardwoods Well Selection Hardwood Aged Boundary

Habitat Cut: No Site Condition:

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, 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 less than 100 sqft of BA. Follow all guidelines set forth in "The Specs:

Complete Marker".

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen: **Other**

White pine and hemlock pretty consistently scattered throughout the stand. BA's will probably be higher than 90. Some wetter ground in areas.

Comment:

Proposed Start Date: 10/01/2017 Baraga Mgt. Unit

Stand

CoverType

Size

Density Age

Stand

BA

Range

Report 3 -- Treatments

Treatment

Type

Treatment

Method

Compartment: 34 Year of Entry: 2018

Age

Structure

Cover Type Objective DNR MICHIGAN

Status

Total Treatment Acreage Proposed:

Treatment

Name

s

t a

n

224.1

Acres

Report 4 – Site Conditions

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment: 34
Year of Entry: 2018

Availa	bility for	Managemer	nt					
Total	Acres	Acres Avail	Acres	D	omina	nt Site	Cond	litions
Acres	Available	With Condition	Not Available		2G	3J	3L	
81	0	0	81	Cedar			81	
181	2	0	179	Lowland Conifers	10	169		
3	0	0	3	Lowland Shrub		2	1	
450	441	0	9	Northern Hardwood		9		
42	0	0	42	Tamarack			42	
757	443		314	Total Forested Acres	10	179	125	
	59%		41%	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.

1							
	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	Unspecified	Unspecified
Co	omments:						
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
	omments: eaver flooded timb	er					
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	173	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	Unspecified	Unspecified
Co	omments:						

Report 4 – Site Conditions

Baraga Mgt. Unit

Jason Mittlestat : Examiner Year

Compartment: 34 Year of Entry: 2018

5	Unavailable	3L: Other wildlife concerns	125	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Deer yarding area.						

Baraga Mgt. Unit

Compartment: 034 Year of Entry: 2018



Report 5 - 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
	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	145
Comments				
Riparian corridor along o	old water spring fed streams.			
	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	145
Comments				
Riparian corridor along o	old water spring fed streams.			

Baraga Mgt. Unit Compartment: 34
Year of Entry 2018



Report 6 - 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	Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other coldw year to year. Coldwater streams in Michigan typica	Such streams are established by Director's action and

s t	Baraga	Mgt. Unit		Report 7	– Forested	Stands Compartment: 34 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4115 - Y.Birch, Hemlock NH	Sawtimber Well	117.5	83	81-110	The north east arrow of the stand was not harvested through in 2008 because of a pocket of smaller diameter timber. It should be ready to be thinned the next entry in 2028 with the rest of the stand.
2	4115 - Y.Birch, Hemlock NH	Poletimber Well	27.3	79	141-170	Part of fmp hdwd cut in 2000. Good hemlock regen- 1'-10' tal Poor quality timber.
3	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	93.6	72	141-170	Wet drainage area. BMP issues
4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	67.0	102	81-110	cut in 2010 as part of "South Laski Hdwds" 11-008-08-01
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	77.5	85	81-110	SCA - Water Quality Protection - trip to Otter River.
6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90.7	99	111-140	
7	4112 - Maple, Beech, Cherry Association	Poletimber Well	41.3	94	81-110	cut in 2010 as part of "South Laski hdwds" 11-008-08-01
8	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	9.9	72	111-140	Wet ground. Trib to Otter River. BMP issues
9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95.7	97	111-140	
10	4119 - Mixed Northern Hardwoods	Poletimber Well	10.4	79	51-80	
11	6121 - Tamarack	Sapling Poor	41.7	97	1-50	

Unspecified

6120 - Lowland Cedar

13

Poletimber

Well

81.4

89

Baraga Mgt. Unit

Report 8 - Nonforested Stands

Compartment: 34 Year of Entry: 2018



Stand	Cover Type	Acres	Managed Site	General Comments:
12	622 - Lowland Shrub	1.4	No	
20	6229 - Mixed lowland shrub	1.7	No	Wet drainage area