

# **Compartment Review Presentation**

**Baraga Forest Management Unit** 

Compartment 11065 Entry Year 2020 Acreage: 1,868

**County Ontonagon** 

Management Area: Central Houghton

Revision Date: 2018-03-07 Stand Examiner: Ryan Mattila

**Legal Description:** 

EC Greenland & SC Bohemia Township

T51N, R37W, Sections 26, 27, 28, 29, 32, and 33

## **Identified Planning Goals:**

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

## Soil and topography:

There is some level to rolling ground, but the valleys along the Firesteel River have very steep slopes. Soils are Ontonagon and Rudyard clays; and Munising, Iron River and Skanee loams.

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

The surrounding land use is generally timber management.

## **Unique Natural Features:**

MNFI suggests there is potential for wood turtles along drainages. They also suggest there is potential for red-shouldered hawk, northern goshawk, moose, and grey wolf. Stands along the Firesteel River have been recommended for SCA's.

## Archeological, Historical, and Cultural Features:

The Firesteel Bridges should be considered a cultural resource.

#### **Special Management Designations or Considerations:**

BMP guidelines should be followed around the intermittent streams.

#### **Watershed and Fisheries Considerations:**

The Firesteel River and tributaries are important. Care must be taken to protect drainages and streams in this compartment.

#### Wildlife Habitat Considerations:

Favor mesic conifers; White Pine and Hemlock, as well Northern Red Oak. Drainages and ridges create numerous travel corridors for wildlife.

#### Mineral Resource and Development Concerns and/or Restrictions

Active sand & gravel production is occurring one mile southeast of the compartment, near the Simar Airport. Sand & gravel potential within the compartment may be limited. There may be potential to use abandoned mine waste rock for aggregate, as has been done elsewhere in the region. One known former copper mine is located in the compartment and many other abandoned mines are in the vicinity west of the Keweenaw Fault. Part of compartment was previously leased for metallic mineral development in the recent past. If there was metallic mineral exploration associated with those leases, the information has not released to the DNR. There is unlikely to be economic volumes of copper remaining to be extracted from the area, and there is currently no other known metallic mineral potential. There is no economic oil and gas production in the UP.

#### **Vehicle Access:**

Some roads may have to be upgraded for timber harvest. Access is along the Nichols Multiuse Recreational Trail.

#### **Survey Needs:**

Some survey work will need to be done for harvest activities.

## **Recreational Facilities and Opportunities:**

The area gets some small game, bear, and deer hunting use. The compartment is bisected by the Bill Nichols Multi-Use Trail.

#### **Fire Protection:**

There is very little fire activity in this area.

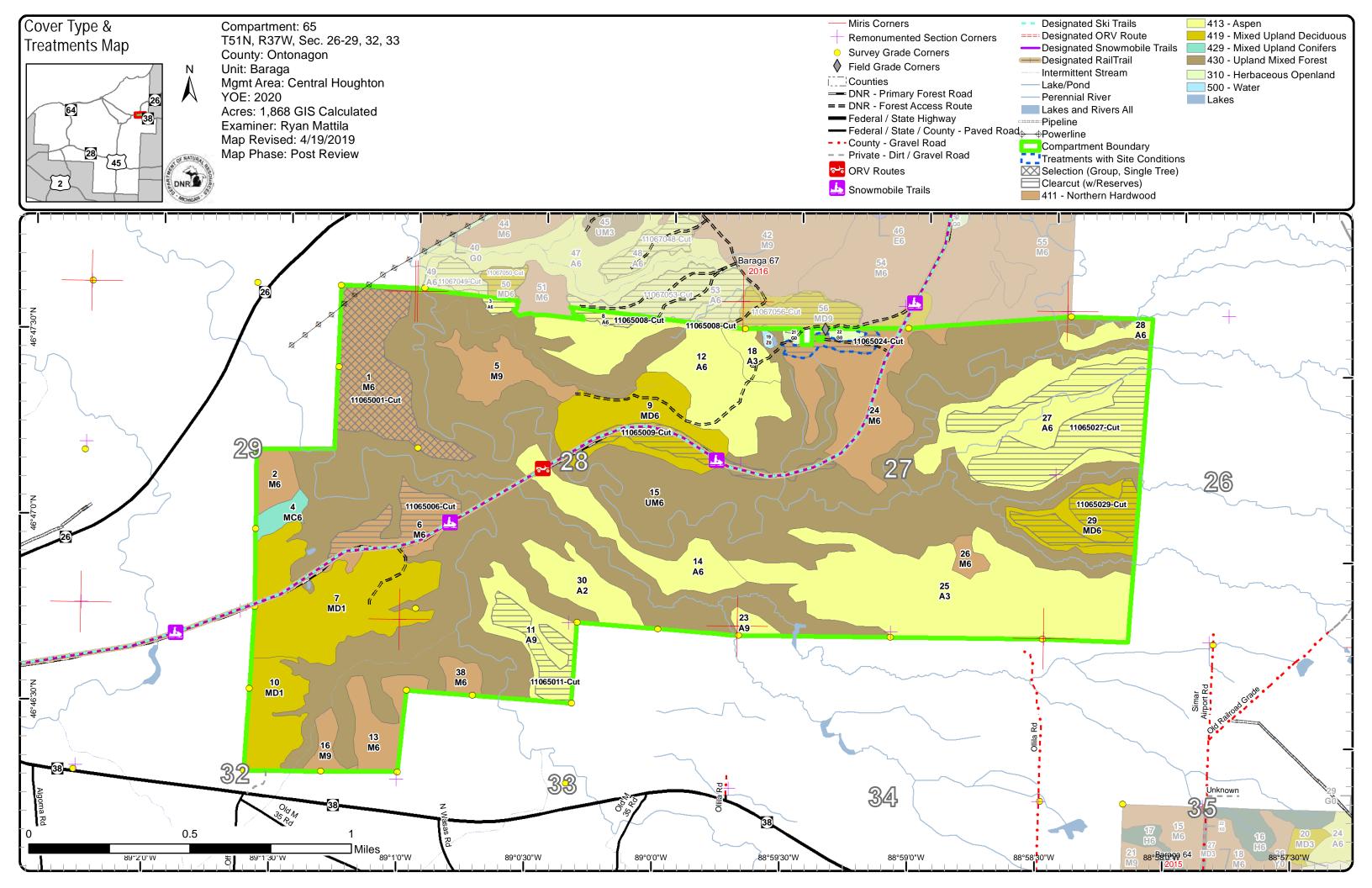
## **Additional Compartment Information:**

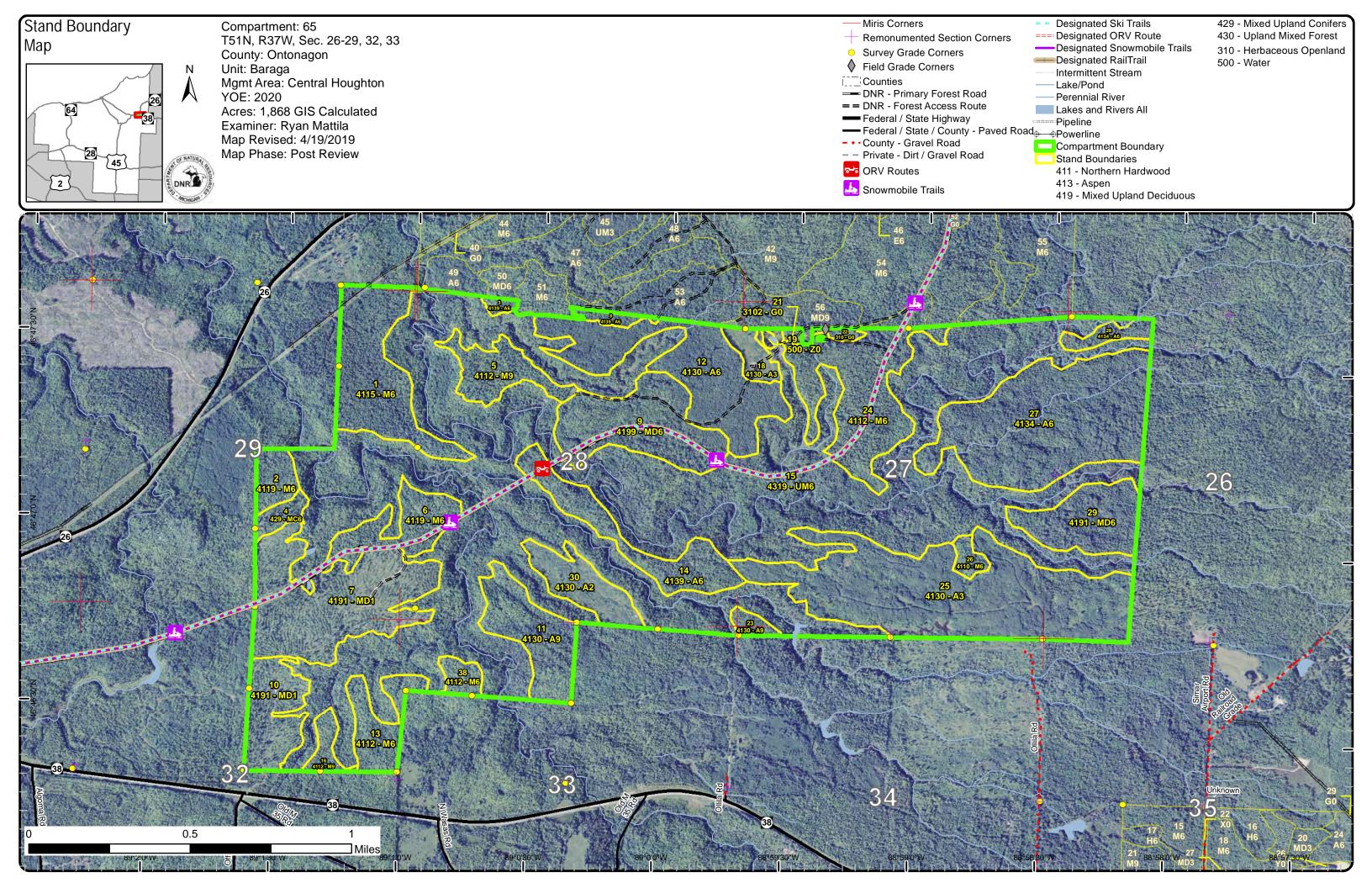
The following reports from the Inventory are attached:

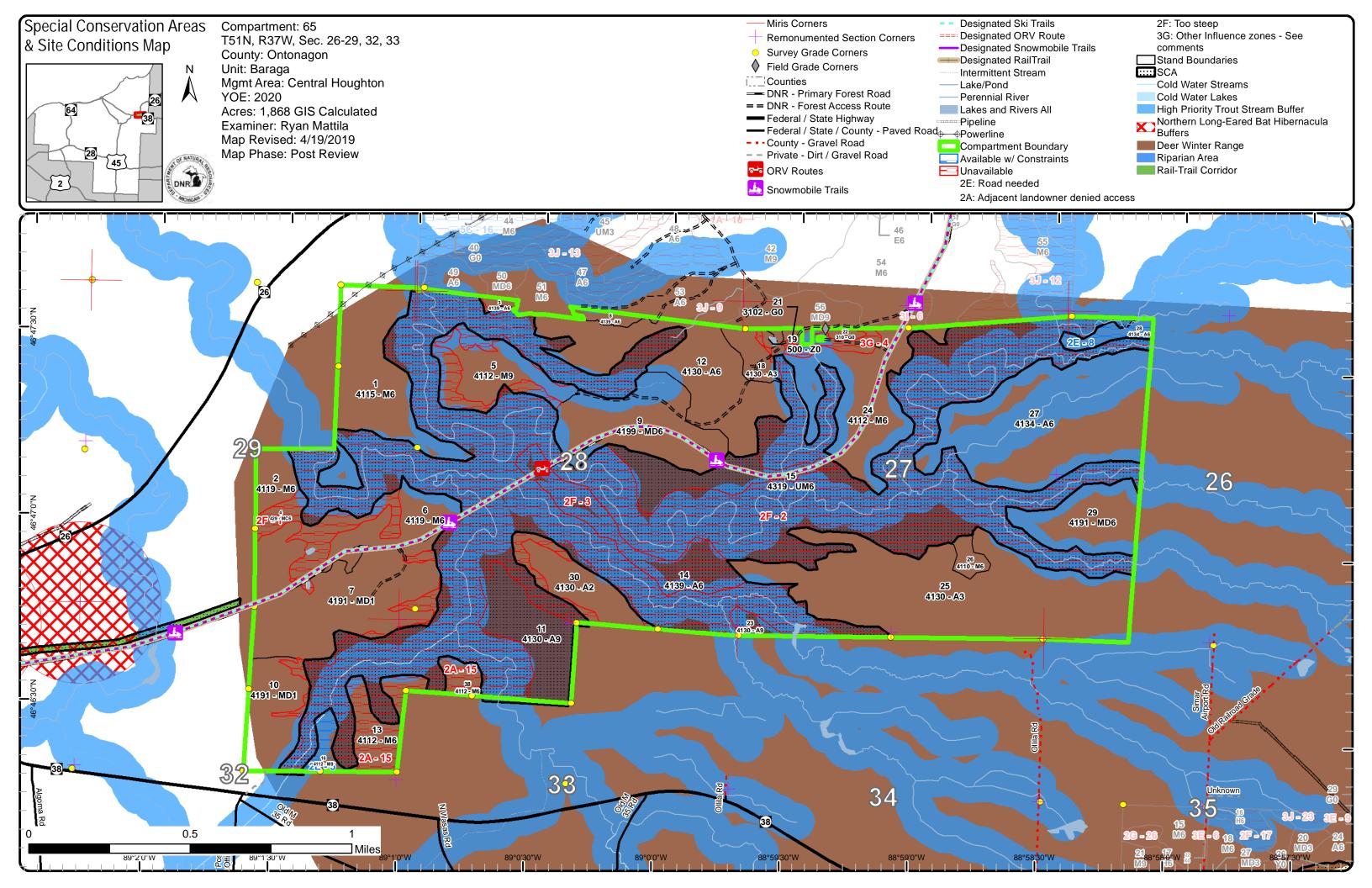
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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 65 Year of Entry 2020

Ryan Mattila : Examiner



## Age Class

	/	4000		<u>/</u>	8 /	,	\$ / <sub>4</sub>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u> /	, / e /	, S /,	,» /	<u>/</u>	/ & /	<u> </u>		A A A A A A A A A A A A A A A A A A A	
	\ <del>≠</del> o <sup>c</sup>		s <sup>5</sup> / 5	s'/ &		, / &	No.	<sup>3</sup> /&	\$ <sup>8</sup> /\$	<sup>3</sup> /8		, _'@		`/ &	\$ \ .\	; '	in the second	2 1 1 mg	14 / 14 g	
Aspen	0	38	169	0	0	0	82	5	184	47	0	0	0	0	0	0	0	3	528	i
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	196	237	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259	258	
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	830	830	
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Total	5	38	169	0	0	0	82	5	184	88	0	0	0	0	0	0	0	1296	1866	



# **Report 2 – Treatment Summary**

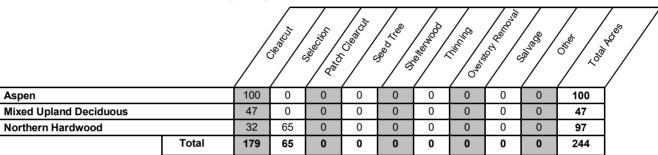
# Baraga Mgt. Unit Year of Entry: 2020

#### **Acres of Harvest**

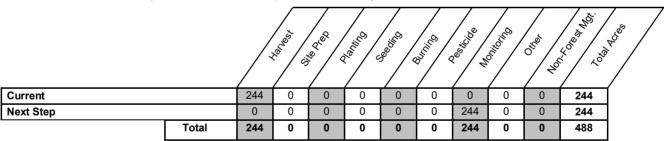
Compartment 65
Total Compartment Acres: 1,868

Commercial Harvest - 236 Harvests with Site Condition - 8 Next Step Harvest - 0 Habitat Cut - 0

# **Cover Type by Harvest Method**



# **Proposed and Next Step Treatments by Method**



forth in "The 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 Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type.

Comment:

Proposed Start Date: 10/1 /2019

11065006-Cut 24.1 68 4119 - Mixed Poletimber 51-80 Harvest Clearcut with 4319 - Mixed Even-Aged Proposal -Northern Hardwoods Retention **Upland Forest** Approval Pending Edits

**Habitat Cut: No** Site Condition:

Prescription Harvest all species down to 2 inches DBH except red oak, hemlock, white pine and cedar if present. Harvest all operable area up to the West Specs: Branch of the Firesteel River buffer. If possible, the treatment should be limited to a period July 15 - November 31 to avoid snowmobile trail conflicts and bark slip on residual trees. Also, any hazard trees along the Bill Nichols trail outside the treatment area should be offered to the producer, this is

at the request of PRD trails. Western Upper Peninsula Trails Specialist, Jeff Kakuk, should be notified prior to the start of any harvest operations.

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments** 

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

Regen:

Retention for this stand will be greater than 3% and will consist of reserve tree species. Other

Comment:

Proposed Start Date: 10/1 /2019

11065008-Cut 8.3 4130 - Aspen Poletimber 53 81-110 Harvest Clearcut with 413 - Aspen Even-Aged Field Boundary Well Retention

**Habitat Cut: No Site Condition:** 

Prescription Harvest all species down to 4.6 inches DBH except hemlock, black cherry, red oak and white pine. Also, cedar if present. Retention for this stand will Specs:

be greater than 3% and will consist of reserve tree species. Favor future snags.

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Any combination of the over story species.

Regen:

Other Comment:

**Proposed Start Date:** 10/1 /2009

**Proposed Start Date:** 10/1 /2019

72 11065024-Cut 8.3 4112 - Maple, Poletimber 81-110 Harvest Clearcut with 413 - Aspen Even-Aged Proposal -Approval Beech. Cherry Well Retention Association Pending Edits

**Habitat Cut: No** Site Condition: Other Influence Zones

Prescription Harvest all species down to 2 inches DBH except red oak, hemlock, white pine and cedar if present. A trespass exists in stand, evidence of mining in area, will have to watch for mine building foundations during sale prep. Acreage may be reduced. Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Aspen is the preferred species but any combination of the original stand's over story species prior to harvest is acceptable.

Regen:

Other DNR staff should prepare the sale.

Comment:

Proposed Start Date: 1 /16/2018

11065027-Cut 71.4 4134 - Aspen. Poletimber 78 81-110 Harvest Clearcut with 413 - Aspen Proposal -Even-Aged Spruce/Fir Well Retention Approval Pending Edits

**Habitat Cut: No Site Condition:** 

Harvest all species down to 2 inches DBH except red oak, hemlock, white pine and cedar if present. Harvest operable areas up to the stream buffer, Prescription

treatment shape and size may change considerably with layout. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Aspen is the preferred species but any combination of the original stand's over story species prior to harvest is acceptable. <u>Acceptable</u>

Regen: Other

DNR Sale Prep. Retention for this stand will be greater than 3% and will consist of reserve tree species.

Comment:

**Proposed Start Date:** 10/1 /2019

s Year of Entry: 2020 t а **Treatment Cover Type Treatment** Acres Stand Size Stand BA **Treatment** Age **Approval** n CoverType Name Method Objective Structure Status Density Range Type d Age 29 11065029-Cut 26.0 4191 - Mixed Poletimber 82 81-110 Clearcut with 413 - Aspen Harvest Even-Aged Proposal -**Upland Deciduous** Well Retention Approval with Conifer Pending Edits

Report 3 -- Treatments

Compartment: 65

**Habitat Cut: No Site Condition:** 

**Prescription** Harvest all species down to 2 inches DBH except red oak, hemlock, white pine and cedar if present. Harvest operable areas up to the stream buffer, Specs:

treatment shape and size may change considerably with layout.

Baraga Mgt. Unit

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Aspen is the preferred species but any combination of the original stand's over story species prior to harvest is acceptable.

Regen:

<u>Other</u> DNR Sale Prep. Retention for this stand will be greater than 3% and will consist of reserve tree species.

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment** Acreage Proposed:

244.0

Ryan Mattila : Examiner

Compartment: 65 Year of Entry: 2020

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Cond	ditions
Acres	Available	With Condition	Not Available		2E	2A	2F	3G
528	476	9	42	Aspen	9		42	
4	4	0	0	Herbaceous Openland				
237	237	0	0	Mixed Upland Deciduous				
259	209	8	42	Northern Hardwood	8	33		8
8	0	0	8	Upland Conifers			8	
830	41	0	789	Upland Mixed Forest		0	789	
1	1	0	0	Water				
1,867	968	18	881	Total Forested Acres	18	33	839	8
-	52%	1%	47%	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.

Cond Availability D	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
Unavailable	2F: Too steep	8	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
omments:						
Unavailable	2F: Too steep	789	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	listed in the potential old g	rowth lay	ver. It is our recomendation	to carry this stand forwar	rd with the SCA designation	on.
Unavailable	2F: Too steep	42	Unspecified	Unspecified	Unspecified	Unspecified
	razorback ridge and should	d be incl	uded in the SCA layer to blo	ock in SCA area.		
	Unavailable  comments:  Unavailable  comments: ctand was previously  Unavailable comments:	Unavailable 2F: Too steep  Comments:  Unavailable 2F: Too steep  Comments:  Itand was previously listed in the potential old g  Unavailable 2F: Too steep  Comments:	Unavailable 2F: Too steep 8  Comments:  Unavailable 2F: Too steep 789  Comments:  Itand was previously listed in the potential old growth lay  Unavailable 2F: Too steep 42  Comments:	Unavailable 2F: Too steep 8 5F: Evaluated for Forest Health Considerations  Tomments:  Unavailable 2F: Too steep 789 3J: Water quality / BMPs (stream, river, or lake)  Tomments:  Itand was previously listed in the potential old growth layer. It is our recomendation  Unavailable 2F: Too steep 42 Unspecified  Tomments:	Unavailable 2F: Too steep 8 5F: Evaluated for Forest Health Considerations  Comments:  Unavailable 2F: Too steep 789 3J: Water quality / Unspecified BMPs (stream, river, or lake)  Comments:  Itand was previously listed in the potential old growth layer. It is our recomendation to carry this stand forward Unavailable 2F: Too steep 42 Unspecified Unspecified	Unavailable 2F: Too steep 8 5F: Evaluated for Forest Health Considerations  Unavailable 2F: Too steep 789 3J: Water quality / Unspecified Unavailable 2F: Too steep 42 Unspecified Unspeci

# **Report 4 – Site Conditions**

Baraga Mgt. Unit

Compartment: 65 Year of Entry: 2020 Ryan Mattila : Examiner

4	Unavailable	3G: Other Influence zones - See comments	•		Unspecified	Unspecified	Unspecified		
	Comments: Frespass pending.	Deed issues with private land	owner						
5	Available	2E: Road needed	9	Unspecified	Unspecified	Unspecified	Unspecified		
	Comments: Stand should be harvested if access is found. Prescribed this stand but Factor Limit as "inaccessable".								
8	Available	2E: Road needed	9	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified		
(	Comments:								
15	Unavailable	2A: Adjacent landowner denied access	33	Unspecified	Unspecified	Unspecified	Unspecified		
(	Comments:								

REEDH5 10/08/2018 10:26:28 AM - Page 2 of 2

Compartment: 065 Year of Entry: 2020



# 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 Wetlands Riparian Area	Spring Seep	SCA	863			
Comments Fire Steel River riparian corridor, wildlife travel corridor and potential type 2 old growth.							

Baraga Mgt. Unit Compartment: 65
Year of Entry 2020



# 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.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish specton conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec 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.	ies (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 wildland Waterfowl Production Areas, deer wintering complexes in lo openings 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 cooperations.	wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more rendangered species, and are not
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, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well

S	Baraga Mgt. Unit			Report 7	- Forested Stand	Year of Entry: 2020
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4115 - Y.Birch, Hemlock NH	Poletimber Well	64.8	81	111-140	
2	4119 - Mixed Northern Hardwoods	Poletimber Well	13.5	40	51-80	stand not visited during the 2018 inventory cycle
3	4139 - Aspen, Mixed Deciduous	Poletimber Well	2.9	62	81-110	
4	429 - Mixed Upland Conifers	Poletimber Well	7.8	66	1-50	stand not visited during the 2018 inventory cycle
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.5	92	81-110	
6	4119 - Mixed Northern Hardwoods	Poletimber Well	31.8	68	51-80	
7	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	97.0	6	1-50	
8	4139 - Aspen, Mixed Deciduous	Poletimber Well	4.9	62	81-110	
9	4199 - Other Mixed Upland Deciduous	Poletimber Well	64.2	62	81-110	
10	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	34.6	5	1-50	
11	4130 - Aspen	Sawtimber Well	41.9	87	111-140	
12	4130 - Aspen	Poletimber Well	81.5	53	81-110	
13	4112 - Maple, Beech, Cherry Association	Poletimber Well	25.2	91	141-170	stand not visited during the 2018 inventory cycle
14	4139 - Aspen, Mixed Deciduous	Poletimber Well	42.5	78	81-110	
15	4319 - Mixed Upland Forest	Poletimber Well	829.6	74	111-140	
16	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.5	108	111-140	stand not visited during the 2018 inventory cycle
18	4130 - Aspen	Sapling Well	10.9	6	Unspecified	
23	4130 - Aspen	Sawtimber Well	5.4	87	111-140	stand not visited during the 2018 inventory cycle

s t	Baraga	Mgt. Unit		Report 7	- Forested Stands	Compartment: 65 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4112 - Maple, Beech, Cherry Association	Poletimber Well	74.1	72	81-110	
25	4130 - Aspen	Sapling Well	169.3	15	Unspecified	stand not visited during the 2018 inventory cycle
26	4110 - Sugar Maple Association	Poletimber Well	6.1	76	81-110	stand not visited during the 2018 inventory cycle
27	4134 - Aspen, Spruce/Fir	Poletimber Well	131.9	78	81-110	
28	4134 - Aspen, Spruce/Fir	Poletimber Well	9.1	78	81-110	2018- stand not visited this inventory cycle
29	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	41.2	82	81-110	
30	4130 - Aspen	Sapling Medium	27.4	5	1-50	cut in the winter of 13-14.
38	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.0	91	141-170	stand not visited during the 2018 inventory cycle

# Report 8 - Nonforested Stands

Compartment: 65 Year of Entry: 2020



Stand	Cover Type	Acres	Managed Site	General Comments:
19	500 - Water	1.2	No	
21	3102 - Grass	1.6	No	
22	310 - Herbaceous Openland	2.8	No	