# DNR MICHIGAN

# **Compartment Review Presentation**

**Baraga Forest Management Unit** 

Compartment 13
Entry Year 2016

Acreage: 2,137
County Baraga

Management Area: Peshekee Highlands

Revision Date: 04/09/2014

Stand Examiner: Jason Mittlestat

**Legal Description:** 

BARAGA COUNTY, BARAGA, COVINGTON and L'ANSE TOWNSHIPS

T48N, R32W, Sections 6, 8 T48N, R33W, Sections 2, 3 T49N, R32W, Section 31

T49N, R33W, Sections 27, 34, 35, 36

### **Identified Planning Goals:**

The Peshekee Highlands management area is on a bedrock controlled ground moraine in east-central Baraga and northwestern Marquette County. The state forest covers 20,670 acres and is in widely scattered parcels. The major ownership in this vicinity is forest industry and non-industrial private. The management area is dominated by the northern hardwood, lowland conifer and upland spruce/fir cover types. Other attributes that played a role in the definition of this management area include:

- Dominated by two natural communities: mesic northern forest, poor conifer swamp, and boreal forest;
- Mid-range in site quality;
- This area has very rugged terrain and limited access;
- Provides multiple benefits including forest products and dispersed recreational activities; and
- Provides a variety of fish and wildlife habitats.

The management priority in this area is to continue to provide these multiple benefit in a sustainable manner while minimizing user conflicts. Habitat management for moose has also been identified as a priority in this area.

# Soil and topography:

Soils are: Champion cobbly silt loam, Witbeck – Tacoosh complex (fine sandy loam and muck), Champion – Net complex (cobbly silt loam, gravelly silt loam), Witbeck – Tacoosh complex, Net – Witbeck complex (silt loam, fine sandy loam and muck), Champion – Michigamme cobbly silt loams, Carbondale and Tacoosh mucks. Topography is level to rolling, lots of rock on the surface.

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

The compartment is surrounded by private land. Much of the private land is owned by forest industry and is managed for timber.

# **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:**

Sturgeon River is under consideration as a National Wild and Scenic River.

## **Watershed and Fisheries Considerations:**

The Sturgeon River, Tioga River along with Pelkie and Hickey creeks are trout streams.

#### Wildlife Habitat Considerations:

Moose are found in the area to south and also to the east of this compartment.

Winter logging is preferred (but not mandatory) because of the provision of downed tops for moose browse. This is not a deer yarding area. Proximity to the M-28/US-41 highway corridor allows for relatively easy hunter/trapper access.

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

Compartment 13: Sections 6-8, T48N-R32W, Sections 2 & 3, T48N-R33W, Sections 31&32, T49N-R32W & Sections 27 & 34-36, T49N-R33W, Baraga Co

Surface sediments consist of coarse-textured glacial till thinning to the north. There is insufficient data to determine the

glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not a current economic use for these rocks. Gravel pits are located in Section 4 and potential appears to be good. Abandoned iron mines are located three miles to the north. Part of this Compartment was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

### **Vehicle Access:**

A good infrastructure of winter roads exists in this compartment. Summer access is primarily limited to Old US -41.

## **Survey Needs:**

Survey work is in progress.

#### **Recreational Facilities and Opportunities:**

One snowmobile trail crosses the compartment. There are no other developed recreational facilities or opportunities.

#### **Fire Protection:**

This area historically does not support large fire growth, but is vulnerable to Lightening source fires, especially in the higher terrain.

# **Additional Compartment Information:**

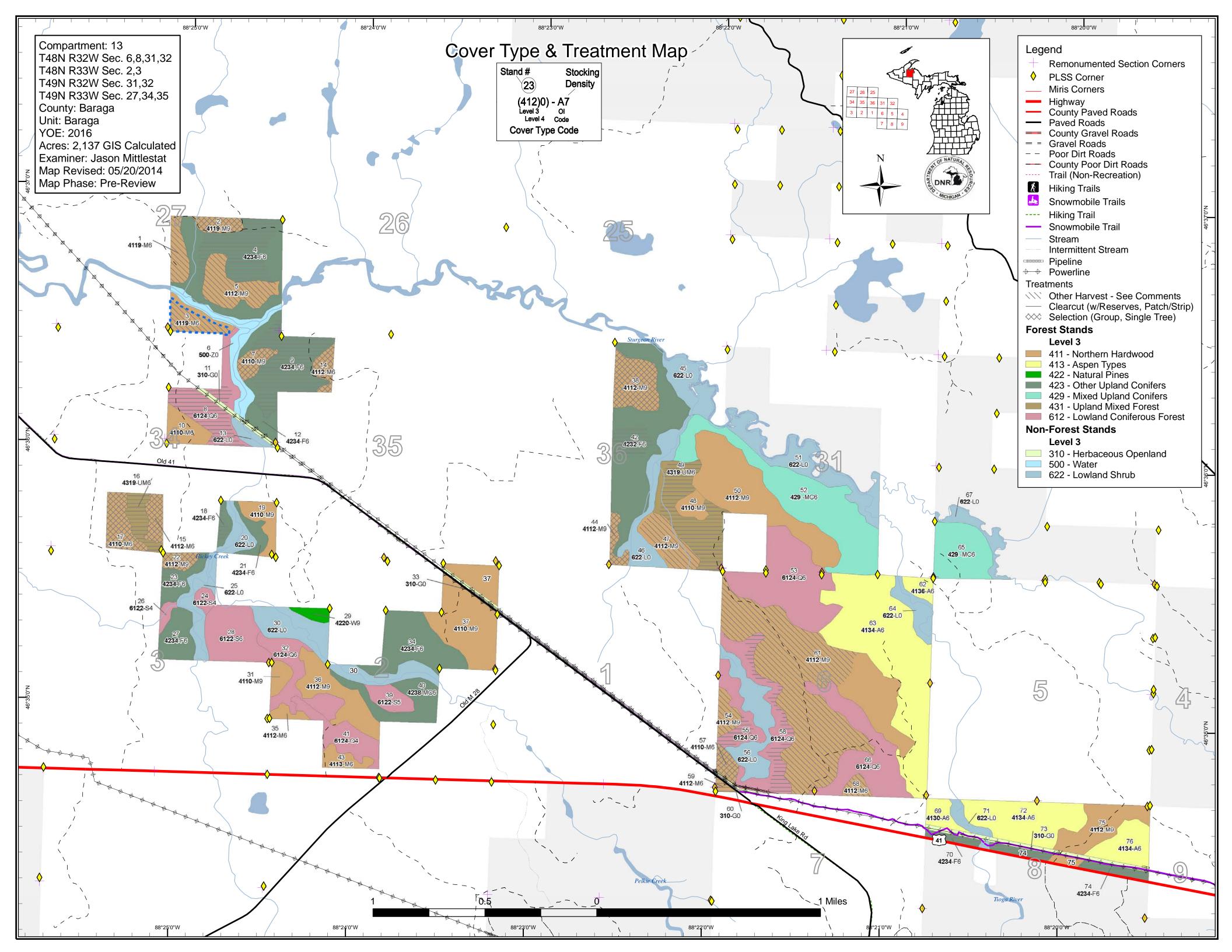
The following reports from the Inventory are attached:

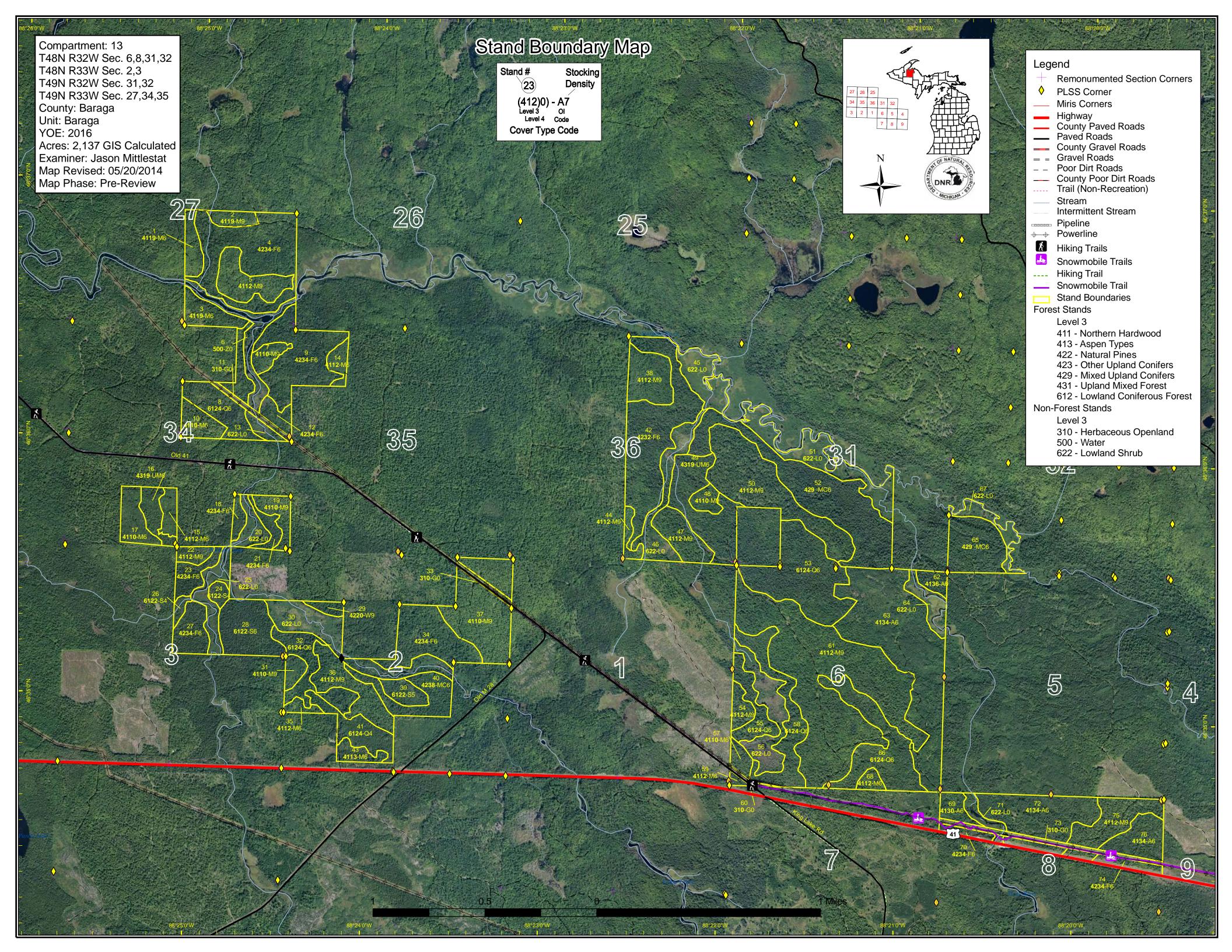
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

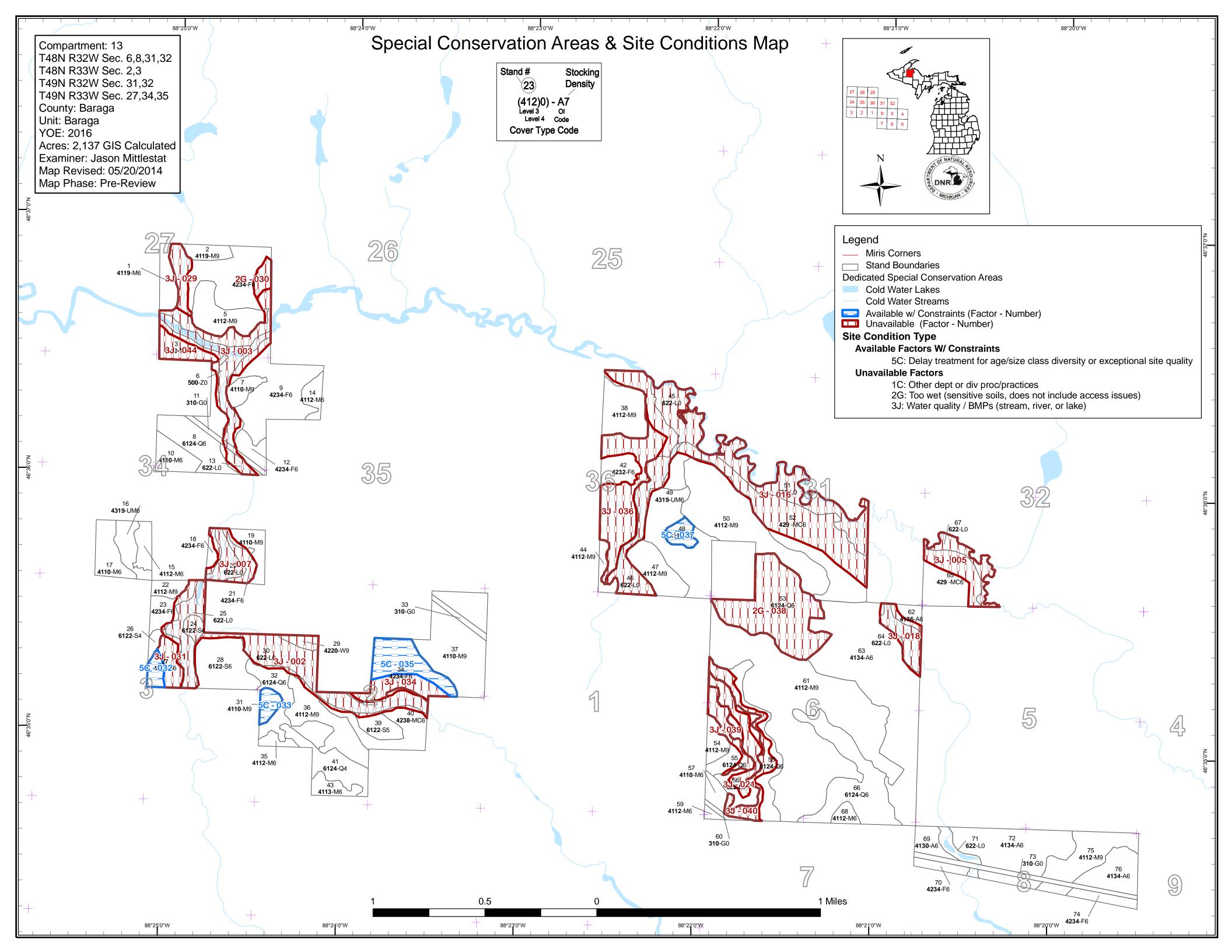
The following information is displayed, where pertinent, on the attached compartment maps:

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

Details on the road access system







Compartment 013 Year of Entry 2016

Baraga Mgt. Unit

Jason Mittlestat : Examiner



	Age Class															
		80	, a, z <sub>0</sub>	\$4.50 /		AD LOS	, & /	80,00	, o' /	80, 6	8 /	SOLO ,	70,70	70 <sup>×</sup> / 30°	A A	, so
Aspen	0	0	0	234	0	0	0	0	0	0	0	0	0	0	234	
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26	
Lowland Conifers	0	0	0	55	0	0	30	63	140	0	0	0	0	0	288	
Lowland Shrub	253	0	0	0	0	0	0	0	0	0	0	0	0	0	253	
Lowland Spruce/Fir	0	0	0	0	0	0	49	9	0	0	0	0	0	0	58	
Northern Hardwood	0	0	0	0	30	10	14	0	9	34	0	0	0	578	675	
Upland Conifers	0	0	0	38	28	0	0	0	95	0	0	0	0	0	160	
Upland Mixed Forest	0	0	0	0	0	0	0	13	0	0	0	51	0	0	64	
Upland Spruce/Fir	0	0	0	0	0	30	67	250	0	0	0	0	0	0	347	
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26	
White Pine	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5	
Total	305	0	0	327	57	41	160	335	250	34	0	51	0	578	2137	



# **Report 2 – Proposed Treatment Summaries**

# Baraga Mgt. Unit Year of Entry 2016

Compartment 013 Total Compartment Acres: 2,137

# **Acres by Treatment Type**

Commercial Harvest - 608 Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

		Cover Type by Harvest Method								
			Control	Secret of	Zig Sig	Jie do	Chining Offi		Profes	
Lowland Coniferous Forest		56	0	0	0	0	0	56		
Northern Hardwood		2	102	0	0	0	251	356		
Other Upland Conifers		136	0	0	0	0	0	136		
Upland Mixed Forest		60	0	0	0	0	0	60		
	Total	254	102	0	0	0	251	608		

Compartment: 013 Baraga Mgt. Unit Report 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2016 s t а **Treatment** BA **Treatment Treatment Cover Type** Acres CoverType Size Stand Approval n d Name Density Age Range Type Method Objective **Status** 12.3 4119 - Mixed High 45 51-80 Cmpt. Review 11013001-Cut Harvest Other - Specify 4119 - Mixed Northern Hardwoods Density in Comments Northern Hardwoods Proposal Pole Prescription Cut all trees greater than 6" at DBH that meets product standards. Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 12" Specs: dbh is to be left. Leave tree mark seed producing elm at 1-3 an acre where present. Retention for this stand may be less than 3% and will consist of reserve tree species. Other\_ Salvage harvest due to dieback. Comments: 100' Buffer along river. Retention for marten and pileated woodpecker will be in the stream buffer. Reference snowmobile trail spec for contracts. Next Steps: **Proposed** 10/01/2015 Start Date: High 11013002-Cut 8 7 4119 - Mixed 99 81-110 Harvest Single Tree 4119 - Mixed Cmpt. Review 2 Northern Hardwoods Density Log Selection Northern Hardwoods Proposal Prescription Selectively thin hardwoods to 50-70 sqft of BA. Favor oak, hemlock, white pine, cedar, and black cherry where present. Follow all guidelines set Specs: forth in "The Complete Marker" IF further dieback occurs a salvage harvest may be needed. Reference snowmobile trail spec for contracts. **Other** Comments: <u>Next</u> Steps: <u>Proposed</u> 10/01/2015 Start Date: 42.5 42340 - Upland 76 51-80 42340 - Upland 11013004-Cut High Harvest Clearcut with Cmpt. Review Spruce/Fir Density Reserves Spruce/Fir Proposal Pole Prescription Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 12" dbh is to be left. Cut all other trees greater than 4.6" at DBH that meets product standards. Leave tree mark black cherry at 1-3 an acre where present. Retention for this stand will consist of reserve tree species. Specs: **Other** Acreage may vary due to wet ground. Comments: Reference snowmobile trail spec for contracts. Regeneration survey needed after harvest as per work instructions. <u>Next</u> Steps: <u>Proposed</u> 10/01/2015

Start Date:

11013005-Cut 27.8 81-110 Cmpt. Review 4112 - Maple, High Harvest Other - Specify 4191 - Mixed Beech, Cherry in Comments Upland Deciduous Proposal Density Log Association with Conifer

Prescription Cut all trees greater than 6" at DBH that meets product standards. Reserve: white pine, cedar, hemlock, elm, and oak if present. Leave tree Specs: mark black cherry at 1 to 3 an acre. Yellow birch over 12" dbh is to be left. Retention for this stand will consist of reserve tree species.

<u>Other</u> Salvage harvest due to dieback. Comments:

100' buffer along the river.

Reference snowmobile trail spec for contracts.

Next

Steps:

Proposed

Compartment: 013 Baraga Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 with No Limiting Factor s t а **Treatment** BA **Treatment Treatment Cover Type** Acres CoverType Size Stand Approval n Objective d Name Density Age Range Type Method Status 7 9.0 4110 - Sugar Maple High 99 81-110 Single Tree 411 - Northern Cmpt. Review 11013007-Cut Harvest Association Density Log Selection Hardwood Proposal Prescription Selectively thin hardwoods to 70-90 sqft of BA. 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 no less than 100 sqft of BA. Follow all guidelines set forth in "The Specs: Complete Marker". Other Reference snowmobile trail spec for contracts. Comments: Next Steps: Proposed 10/01/2015 Start Date: 11013008-Cut 29.6 6124 - Lowland High 70 Harvest Clearcut with 6124 - Lowland Cmpt. Review Spruce-Fir Density Reserves Spruce-Fir Proposal Pole Prescription Reserve: elm, white pine, cedar, hemlock, oak if present. Yellow birch over 12" dbh is to be left. Leave tree mark black cherry at 1-3 an acre. Cut all other trees greater than 4.6" at DBH that meets product standards. Retention for this stand will be greater than 3% and will consist of Specs: reserve tree species. **Other** 200' buffer along stream. Comments: Wld: Buffer along creek will favor moose. Reference snowmobile trail spec for contracts. Regeneration survey needed after harvest as per work instructions. **Next** Steps: **Proposed** 10/01/2015 Start Date: Cmpt. Review 42340 - Upland 68 Clearcut with 42340 - Upland 11013009-Cut 51.7 High Harvest 9 Spruce/Fir Spruce/Fir Density Reserves Proposal Pole Prescription Reserve: white pine, cedar, hemlock, yellow birch and oak if present. Leave tree mark black cherry at 1 to 3 an acre. Cut all other trees greater than 4.6" at DBH that meets product standards. Retention for this stand will be greater than 3% and will consist of reserve tree species. Specs: Other 200' buffer along stream. Comments: Wld: White spruce retention is in the buffer along the creek. Reference snowmobile trail spec for contracts Regeneration survey needed after harvest as per work instructions. Steps:

<u>Next</u>

**Proposed** 10/01/2015 Start Date:

11013014-Cut 8.2 4112 - Maple, High 81-110 Harvest Single Tree 4112 - Maple, Cmpt. Review Beech, Cherry Density Selection Beech, Cherry Proposal Association

Association

Prescription Selectively thin hardwoods to 70-90 sqft of BA. 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 no less than 100 sqft of BA. Follow all guidelines set forth in "The

Complete Marker".

Other\_ Reference snowmobile trail spec for contracts.

Comments:

<u>Next</u> Steps:

Specs:

Proposed

Start Date: 10/01/2015

Compartment: 013 Baraga Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 with No Limiting Factor s t а **Treatment** CoverType Size BA **Treatment Treatment Cover Type** Acres Approval n Method Objective d Name Density Age Range Type **Status** 4112 - Maple, 9.4 4112 - Maple, High 68 111-140 Harvest Single Tree Cmpt. Review 15 11013015-Cut Beech, Cherry Density Selection Beech, Cherry Proposal Association Pole Association Prescription Selectively thin hardwoods to 70-90 sqft of BA. Do not mark aspen. Favor oak, black cherry, 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 no less than 100 sqft of BA. Specs: Follow all guidelines set forth in "The Complete Marker". Other\_ Wld: Do not cut aspen. Comments: Reference snowmobile trail spec for contracts. <u>Next</u> Steps: **Proposed** Start Date: 10/01/2015 11013016-Cut 13.3 4319 - Mixed 78 81-110 16 High Harvest Clearcut with 4319 - Mixed Cmpt Review Upland Forest Density Reserves **Upland Forest** Proposal Pole Prescription Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 18" dbh is to be left. Cut all other trees greater than 4.6" at DBH that Specs: meets product standards. Two patches of white spruce of aprx 15 treesa piece should be left for WId. Retention for this stand will be greater than 3% and will consist of reserve tree species. Other Reference snowmobile trail spec for contracts. Comments: Regeneration survey needed after harvest as per work instructions. <u>Next</u> Steps: Proposed 10/01/2015 Start Date: 17 11013017-Cut 18.2 4110 - Sugar Maple High 99 141-170 Harvest Single Tree 4110 - Sugar Maple Cmpt. Review Association Density Selection Association Proposal Pole Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor black cherry, 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 no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Reference snowmobile trail spec for contracts. Other Comments: <u>Next</u>

Specs:

Steps:

Proposed

Start Date: 10/01/2015

11013018-Cut 3.0 42340 - Upland High 71 Clearcut with 42340 - Upland Cmpt. Review 18 Harvest Spruce/Fir Density Reserves Spruce/Fir Proposal

Pole

Prescription Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 18" dbh is to be left. Cut all other trees greater than 4.6" at DBH that

meets product standards. Retention for this stand will be greater than 3% and will consist of reserve tree species. Specs:

Other\_ 200' buffer along stream.

Comments:

Reference snowmobile trail spec for contracts.

Regeneration survey needed after harvest as per work instructions. <u>Next</u>

Steps:

**Proposed** 

Compartment: 013 Baraga Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 with No Limiting Factor s t а **Treatment** Acres Size BA **Treatment Treatment Cover Type** CoverType Stand Approval n Method Objective d Name Density Age Range Type **Status** 4112 - Maple, 7.1 High 99 111-140 Harvest 4112 - Maple, Cmpt. Review 22 11013022-Cut Single Tree Beech, Cherry Density Log Selection Beech, Cherry Proposal Association Association Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor black cherry, 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 no less than 100 sqft of BA. Follow all guidelines set Specs: forth in "The Complete Marker". <u>Other</u> Reference snowmobile trail spec for contracts. Comments: <u>Next</u> Steps: Proposed Start Date: 10/01/2015 3.8 42340 - Upland 71 Harvest Clearcut with 42340 - Upland Cmpt. Review 23 11013023-Cut High Spruce/Fir Density Reserves Spruce/Fir Proposal Pole Prescription Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 18" dbh is to be left. Cut all other trees greater than 4.6" at DBH that meets product standards. Retention for this stand will be greater than 3% and will consist of reserve tree species. Specs: **Other** 200' buffer along stream. Comments: <u>Next</u> Regeneration survey needed after harvest as per work instructions. Steps: **Proposed** 10/01/2015 Start Date: 27.9 High Cmpt. Review 38 11013038-Cut 4112 - Maple, 99 141-170 Harvest Single Tree 4112 - Maple, Beech, Cherry Selection Beech, Cherry Proposal Density Log Association Association Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor to leave black cherry, 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 no less than 100 sqft of BA. Follow all Specs: guidelines set forth in "The Complete Marker". <u>Other</u> Reference snowmobile trail spec for contracts. Comments: Next Steps: Proposed Start Date: 10/01/2015 42 11013042-Cut 13.4 42320 - Upland High 78 Harvest Clearcut with 42320 - Upland Cmpt. Review

Spruce Density Reserves Proposal Spruce Pole

Prescription Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 18" dbh is to be left. Cut all other trees greater than 4.6" at DBH that Specs: meets product standards. Retention for this stand will be greater than 3% and will consist of reserve tree species.

Other\_ Treatment shape might vary due to overly wet ground.

Comments:

Reference snowmobile trail spec for contracts.

200' buffer along stream.

Next Steps: Regeneration survey needed after harvest as per work instructions.

Proposed

Compartment: 013 Baraga Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 with No Limiting Factor s t а **Treatment** Size BA **Treatment Treatment Cover Type** Acres CoverType Stand Approval n d Name Density Age Range Type Method Objective **Status** 6.6 4112 - Maple, High 99 81-110 4112 - Maple, Cmpt. Review 44 11013044-Cut Harvest Single Tree Beech, Cherry Density Log Selection Beech, Cherry Proposal Association Association Prescription Mark for 50-70 sq ft. for a 30 year rotation. Favor oak, hemlock, white pine and cedar where present. Follow all guidelines set forth in "The Specs: Complete Marker". Other Reference snowmobile trail spec for contracts. Comments: Next Steps: <u>Proposed</u> 10/01/2015 Start Date: 11013047-Cut 21.4 4112 - Maple, High 99 81-110 Harvest Other - Specify 4112 - Maple, Cmpt. Review Beech, Cherry Beech, Cherry in Comments Proposal Density Log Association Association Prescription Cut all trees greater than 6" at DBH. Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 18" dbh is to be left. Specs: <u>Other</u> Stand is exhibiting a high degree of dieback. Diameter Cut Comments: 100' buffer along stream. Reference snowmobile trail spec for contracts. Next Steps: Proposed 10/01/2015 Start Date: 11013049-Cut 47.1 4319 - Mixed 81-110 4319 - Mixed Cmpt. Review 49 High 118 Harvest Clearcut with **Upland Forest** Reserves **Upland Forest** Proposal Density Pole Prescription Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 18" dbh is to be left. Leave tree mark black cherry at 1 to 3 an acre. Cut all other trees greater than 4.6" at DBH that meets product standards. Retention for this stand will be greater than 3% and will consist of reserve Specs: <u>Other</u> 200' buffer along stream. Comments: Reference snowmobile trail spec for contracts. Next Regeneration survey needed after harvest as per work instructions. Steps: Proposed 10/01/2015 Start Date:

11013054-Cut 9.5 4112 - Maple. High 99 81-110 Harvest Other - Specify 4119 - Mixed Cmpt. Review 54 Beech, Cherry **Density Log** in Comments Northern Hardwoods Proposal

Association

Prescription Cut all trees greater than 6" at DBH that meets product standards. Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 16" dbh is to be left. Leave tree mark black cherry at 1 to 3 an acre. Retention for this stand will be greater than 3% and will consist of reserve tree

Stand is exhibiting a high degree of dieback. Diameter Cut

**Other** Comments:

Specs:

Reference snowmobile trail spec for contracts.

<u>Next</u> Steps:

**Proposed** 

Start Date: 10/01/2015

Compartment: 013 Baraga Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 with No Limiting Factor s t а **Treatment** CoverType Size BA **Treatment Treatment Cover Type** Acres Approval n Method Objective d Name Density Age Range Type **Status** 6.9 6124 - Lowland High 84 Harvest Clearcut with 6124 - Lowland Cmpt. Review 55 11013055-Cut Spruce-Fir Density Reserves Spruce-Fir Proposal Pole Prescription Cut all other trees greater than 4.6" at DBH that meets product standards. Reserve: white pine, cedar, hemlock, oak if present. Yellow birch Specs: over 18" dbh is to be left. Retention for this stand will be greater than 3% and will consist of reserve tree species. Other Acreage may vary due to wet ground. Comments: Reference snowmobile trail spec for contracts. <u>Next</u> Steps: Proposed Start Date: 10/01/2015 11013057-Cut 7.3 4110 - Sugar Maple High 81-110 Harvest Single Tree 4110 - Sugar Maple Cmpt. Review 57 Association Density Selection Association Proposal Pole Prescription Stand is showing some small areas of top dieback. Mark for now 50-70 sq ft. Favor healthy yellow birch and black cherry. The Rx might have to Specs: be changed to salvage if its health deteriorates by the time sale prep work begins. Follow all guidelines set forth in "The Complete Marker". <u>Other</u> Reference snowmobile trail spec for contracts Comments: <u>Next</u> Steps: Proposed 10/01/2015 Start Date: 11013058-Cut 19.4 6124 - Lowland 6124 - Lowland Cmpt. Review 58 High 84 Harvest Clearcut with Spruce-Fir Density Reserves Spruce-Fir Proposal Pole Prescription Cut all other trees greater than 4.6" at DBH that meets product standards. Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 16" dbh is to be left. Retention for this stand will be greater than 3% and will consist of reserve tree species.

Specs:

Other Acreage may vary due to wet ground. Comments:

Reference snowmobile trail spec for contracts.

Wld: loafing areas will be addressed by the buffer along the creek.

Regeneration survey needed after harvest as per work instructions. <u>Next</u>

Steps:

**Proposed** 

10/01/2015 Start Date:

59 11013059-Cut 2.1 4112 - Maple, High 54 51-80 Harvest Clearcut with 4112 - Maple, Cmpt. Review Beech, Cherry Density Reserves Beech, Cherry Proposal Association Pole Association

Prescription Cut all trees greater than 4.6" at DBH that meets product standards. Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 18"

dbh is to be left. Retention for this stand will be greater less than 3% and will consist of reserve tree species. Specs:

Other\_ Reference snowmobile trail spec for contracts.

Comments:

Check for adequate regeneration within 5 years of harvest completion.

<u>Next</u> Steps:

**Proposed** 

Compartment: 013 Baraga Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n Method Objective d Name **Density** Age Range Type **Status** 161.4 4112 - Maple, High 99 81-110 Harvest Other - Specify 4112 - Maple, Cmpt. Review 61 11013061-Cut Beech, Cherry Density Log in Comments Beech, Cherry Proposal Association Association Prescription Cut all trees greater than 6" at DBH that meets product standards. Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 18" Specs: dbh is to be left.

Other Stand is exhibiting a high degree of dieback. Diameter Cut Comments:

South part of the eastern lobe of the stand was removed from the treatment shape due to better timber conditions.

Reference snowmobile trail spec for contracts.

**Next** Steps:

**Proposed** 10/01/2015 Start Date:

68 11013068-Cut 5.6 4112 - Maple, Beech, Cherry

High Density

Pole

99 81-110 Harvest

Other - Specify in Comments

4112 - Maple, Beech, Cherry Cmpt. Review Proposal

Association Pole Association

Prescription Cut all trees greater than 6" at DBH that meets product standards. Reserve: white pine, cedar, hemlock, oak if present. Yellow birch over 16" Specs: dbh is to be left

**Other** Stand is exhibiting a high degree of dieback. Diameter Cut

Comments:

Reference snowmobile trail spec for contracts.

Next Steps:

**Proposed** 

10/01/2015 Start Date:

70 11013070-Cut 6.1 42340 - Upland High 54 Harvest Clearcut with 42340 - Upland Cmpt. Review Spruce/Fir Density Reserves Spruce/Fir Proposal

Prescription Reserve: yellow birch, white pine, cedar, hemlock, oak if present. Cut all other trees greater than 2" at DBH that meets product standards. Specs:

<u>Other</u> Sight path widening.

Comments:

Reference snowmobile trail spec for contracts.

<u>Next</u> Regeneration survey needed after harvest as per work instructions.

Steps:

Proposed

10/01/2015 Start Date:

Cmpt. Review 15.2 42340 - Upland 54 42340 - Upland 11013074-Cut High Harvest Clearcut with 74 Spruce/Fir Density Reserves Spruce/Fir Proposal

Pole

Prescription Reserve: tamarack, white pine, cedar, hemlock, oak if present. Yellow birch over 18" dbh is to be left. Cut all other trees greater than 2" at DBH

that meets product standards. Specs:

Other Sight path widening.

Comments:

Reference snowmobile trail spec for contracts.

Regeneration survey needed after harvest as per work instructions. <u>Next</u>

Steps:

Proposed

10/01/2015 Start Date:

**Total Treatment** 

594.5 Acreage Proposed:

S t			Bar	raga Mgt. Unit	Report 4		eatment Site Con	Compartment: 013 Year of Entry 2016	DNR		
a n d		tment ime	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	11013	003-Cut	13.2	4119 - Mixed Northern Hardwoods	High Density Pole	42	51-80	Harvest	Other - Specify in Comments	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
Pres Spec	cription			e, cedar, hemlock, oak ntage prescribed for this		Yellow I	oirch over	18" dbh is to be	left. Cut all other tr	rees greater than 2" at I	OBH. There is
Othe Com	_	Salvage	harvest du	ue to dieback.							
Com	<u>iment:</u>	150' buff	er along ri	ver.							
		Reference	e snowmo	obile trail spec for contr	acts.						
Next Step	-										
Prop	osed										

<u>Start Date:</u> 10/01/2015

**Limiting Factor** 3J: Water quality / BMPs (stream, river, or lake)

**Total Treatment** 

Acreage Proposed: 13.2

# Report 5 - Site Conditions

# Baraga Mgt. Unit

Jason Mittlestat: Examiner

22%

**Compartment 013** Year of Entry 2016



#### **Availability for Management Dominant Site Conditions** Total Acres Acres 5C 3J 2G Acres Available Not Available No 234 230 230 4 Aspen 170 117 288 **Lowland Conifers** 170 40 77 49 58 9 Lowland Spruce/Fir 49 9 674 653 21 Northern Hardwood 638 15 21 78 82 78 **Upland Conifers** 82 160 63 1 **Upland Mixed Forest** 64 63 1 346 188 158 Upland Spruce/Fir 153 35 152 6 5 5 White Pine 5 1,830 1,432 398 Total Forested Acres 1,382 50 314 83 78%

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	3J: Water quality / BMPs (stream, river, or lake)	93				
	<b>Comments:</b> Sturgeon River Ripa	rian Corridor					
003	Not Available	3J: Water quality / BMPs (stream, river, or lake)	61				
	<b>Comments:</b> Sturgeon River Ripa	rian Corridor					
005	Not Available	3J: Water quality / BMPs (stream, river, or lake)	30				
	<b>comments:</b> Sturgeon River Ripa	ırian Corridor					

# Report 5 – Site Conditions

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment 013
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007	Not Available	3J: Water quality / BMPs (stream, river, or lake)	24		
	comments: sturgeon River Rips	arian Corridor			
016	Not Available	3J: Water quality / BMPs (stream, river, or lake)	182		
	comments: Sturgeon River Ripa	arian Corridor			
018	Not Available	3J: Water quality / BMPs (stream, river, or lake)	19		
	comments: Sturgeon River Ripa	arian Corridor			
021	Not Available	3J: Water quality / BMPs (stream, river, or lake)	20		
	comments: Sturgeon River Ripa	arian Corridor			
029	Not Available	3J: Water quality / BMPs (stream, river, or lake)	12	2G: Too wet (sensitive soils, does not include access issues)	
	comments: uffer along creek				
030	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6		
С	comments:				

# Report 5 – Site Conditions

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment 013
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031	Not Available	3J: Water quality / BMPs (stream, river, or lake)	11	2G: Too wet (sensitive soils, does not include access issues)
	omments: uffer along creek			
032	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	
	omments: old to maybe treat	in 2026		
033	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	
	omments: old to treat in 2020	6 with adjacent stands		
034	Not Available	3J: Water quality / BMPs (stream, river, or lake)	17	
	omments: uffer along creek			
035	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	
	omments: old to treat in 2026	6 with adjacent stand		
036	Not Available	3J: Water quality / BMPs (stream, river, or lake)	52	2G: Too wet (sensitive soils, does not include access issues)
	omments: et ground and buf	fer along creek		

# Report 5 – Site Conditions

Compartment 013
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Baraga Mgt. Unit

Jason Mittlestat : Examiner

037	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8
	omments: old to treat in 2026	6 with adjacent stand	
038	Not Available	2G: Too wet (sensitive soils, does not include access issues)	77
	omments: ery wet ground, sp	parce stocking in places, lots of	tagalder and small diameters. edges will be treated with adjacent stands.
039	Not Available	3J: Water quality / BMPs (stream, river, or lake)	13
	omments: uffer along creek		
040	Not Available	3J: Water quality / BMPs (stream, river, or lake)	23
	omments: uffer along creek		
044	Not Available	3J: Water quality / BMPs (stream, river, or lake)	13
С	omments:		

Baraga Mgt. Unit Compartment: 013
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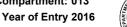


# Report 6 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* 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: 013





# 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	on Type	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxyge stocked trout populations and those of other coldwater conditions for coldwater fishes may occur in Michigan I groundwater inflows, or are located in colder (northern) Director's action and designated as trout resources by	fish species to persist from year to year. Suitable akes if they are relatively deep, have substantial areas of the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxy stocked trout populations and those of other coldwater year to year. Coldwater streams in Michigan typically p contributions of groundwater to their stream flows. Suc designated as trout resources by Fisheries Order 210.	fish species (e.g., slimy sculpin) to persist from rovide these conditions due to substantial h streams are established by Director's action and

S	Baraga	a Mgt. Unit		Report 8 -	Forested Stands	Compartment: 013 Year of Entry: 2016
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	High Density Pole	12.3	45	51-80	Stand is exhibiting a high degree of dieback
2	4119 - Mixed Northern Hardwoods	High Density Log	8.7	Uneven Age	81-110	
3	4119 - Mixed Northern Hardwoods	High Density Pole	17.2	42	51-80	Stand is exhibiting a high degree of dieback.
4	42340 - Upland Spruce/Fir	High Density Pole	78.6	76	51-80	
5	4112 - Maple, Beech, Cherry Association	High Density Log	28.4	91	81-110	Stand is exhibiting a high degree of dieback.
7	4110 - Sugar Maple Association	High Density Log	9.0	Uneven Age	81-110	
8	6124 - Lowland Spruce- Fir	High Density Pole	39.1	70		Tagalder understory.
9	42340 - Upland Spruce/Fir	High Density Pole	58.6	68		
10	4110 - Sugar Maple Association	High Density Pole	14.9	Uneven Age	51-80	
12	42340 - Upland Spruce/Fir	High Density Pole	9.1	50	51-80	
14	4112 - Maple, Beech, Cherry Association	High Density Pole	8.2	50	81-110	
15	4112 - Maple, Beech, Cherry Association	High Density Pole	9.4	68	111-140	
16	4319 - Mixed Upland Forest	High Density Pole	13.3	78	81-110	
17	4110 - Sugar Maple Association	High Density Pole	18.2	Uneven Age	141-170	
18	42340 - Upland Spruce/Fir	High Density Pole	5.7	71		
19	4110 - Sugar Maple Association	High Density Log	13.6	Uneven Age	51-80	
21	42340 - Upland Spruce/Fir	High Density Pole	8.0	61		
22	4112 - Maple, Beech, Cherry Association	High Density Log	7.1	Uneven Age	111-140	

S t	Baraga	a Mgt. Unit		Report 8 –	Forested Stands	Compartment: 013 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42340 - Upland Spruce/Fir	High Density Pole	13.5	71		
24	6122 - Black Spruce	Low Density Pole	5.1	72		
26	6122 - Black Spruce	Low Density Pole	3.7	72		sparce black spruce
27	42340 - Upland Spruce/Fir	High Density Pole	19.5	71		
28	6122 - Black Spruce	High Density Pole	37.7	68		
29	42200 - Natural White Pine	High Density Log	5.1	88	111-140	
31	4110 - Sugar Maple Association	High Density Log	7.2	Uneven Age	111-140	
32	6124 - Lowland Spruce- Fir	High Density Pole	29.5	68	51-80	
34	42340 - Upland Spruce/Fir	High Density Pole	46.6	73	111-140	
35	4112 - Maple, Beech, Cherry Association	High Density Pole	4.6	64	81-110	
36	4112 - Maple, Beech, Cherry Association	High Density Log	33.7	Uneven Age	81-110	
37	4110 - Sugar Maple Association	High Density Log	66.7	Uneven Age	81-110	
38	4112 - Maple, Beech, Cherry Association	High Density Log	27.9	Uneven Age	141-170	
39	6122 - Black Spruce	Medium Density Pole	11.6	68		
40	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	27.6	47	51-80	
41	6124 - Lowland Spruce- Fir	Low Density Pole	24.0	74		
42	42320 - Upland Spruce	High Density Pole	85.9	78		
43	4113 - R.Maple, Conifer	High Density Pole	9.2	88	81-110	

s t	Baraga	a Mgt. Unit		Report 8 –	Forested	Stands Compartment: 013 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4112 - Maple, Beech, Cherry Association	High Density Log	6.6	Uneven Age	81-110	
47	4112 - Maple, Beech, Cherry Association	High Density Log	23.4	Uneven Age	81-110	Stand is exhibiting a high degree of dieback. Salvage harvest. Rx a diameter cut of 6"+ DBH. Leave yellow birch 18" + dbh, cedar and white pine.
48	4110 - Sugar Maple Association	High Density Log	8.2	Uneven Age	111-140	
49	4319 - Mixed Upland Forest	High Density Pole	50.7	118	81-110	
50	4112 - Maple, Beech, Cherry Association	High Density Log	79.1	Uneven Age	51-80	
52	429 - Mixed Upland Conifers	High Density Pole	95.0	85	81-110	
53	6124 - Lowland Spruce- Fir	High Density Pole	77.4	84	51-80	
54	4112 - Maple, Beech, Cherry Association	High Density Log	9.5	Uneven Age	81-110	Extreme tree dieback and mortality along with poor quality. Rx a diameter cut of 6"+ DBH.
55	6124 - Lowland Spruce- Fir	High Density Pole	20.2	84		
57	4110 - Sugar Maple Association	High Density Pole	7.3	Uneven Age	81-110	Stand is showing some small areas of top dieback.
58	6124 - Lowland Spruce- Fir	High Density Pole	42.7	84		
59	4112 - Maple, Beech, Cherry Association	High Density Pole	2.1	54	51-80	
61	4112 - Maple, Beech, Cherry Association	High Density Log	202.1	Uneven Age	81-110	Stand is exhibiting a high degree of dieback.
62	4136 - Aspen, Mixed Conifer	High Density Pole	7.5	37		
63	4134 - Aspen, Spruce/Fir	High Density Pole	138.5	34		
65	429 - Mixed Upland Conifers	High Density Pole	37.8	38	81-110	
66	6124 - Lowland Spruce- Fir	High Density Pole	55.3	36		
68	4112 - Maple, Beech, Cherry Association	High Density Pole	5.6	99	81-110	Stand is exhibiting a high degree of dieback (40-50%).

S t a n d	Baraga Mgt. Unit			Report 8 – Forested Stands		Compartment: 013 Year of Entry: 2016	OF NATURAL PLANE OF NATURA PLANE
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	M/CHIGAN .
69	4130 - Aspen	High Density Pole	10.1	36			
70	42340 - Upland Spruce/Fir	High Density Pole	6.1	54		Sight path widening.	
72	4134 - Aspen, Spruce/Fir	High Density Pole	53.9	35			
74	42340 - Upland Spruce/Fir	High Density Pole	15.2	54		Sight path widening.	
75	4112 - Maple, Beech, Cherry Association	High Density Log	34.8	Uneven Age	81-110		
76	4134 - Aspen, Spruce/Fir	High Density Pole	24.3	36			

Compartment: 013 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	50 - Water	26.0	No	Unspecified	
11	3102 - Grass	5.8	No	Unspecified	
13	6220 - Alder/willow	6.2	No	Unspecified	
20	6220 - Alder/willow	12.0	No	Unspecified	
25	6220 - Alder/willow	20.7	No	Unspecified	
30	6220 - Alder/willow	47.4	No	Unspecified	
33	3102 - Grass	4.4	No	Unspecified	
45	6220 - Alder/willow	24.1	No	Unspecified	
46	6220 - Alder/willow	29.9	No	Unspecified	
51	6220 - Alder/willow	43.3	No	Unspecified	
56	6220 - Alder/willow	34.4	No	Unspecified	flooded timber
60	3102 - Grass	2.2	No	Unspecified	
64	6220 - Alder/willow	14.5	No	Unspecified	
67	6220 - Alder/willow	12.8	No	Unspecified	
71	6220 - Alder/willow	8.2	No	Unspecified	
73	3102 - Grass	13.4	No	Unspecified	