



**Baraga Forest Management Unit
Compartment Review Presentation
Compartment #27 Entry Year: 2014
Compartment Acreage: 1413 County: Baraga**

Revision Date: 7/18/2012

Stand Examiner: Fred Hansen, John Turunen, Brad Carlson

Legal Description: T48N R34W Sec 32; T47N R34W Sec 5, 6, 8, 17, 20.

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Covington / Ned Lake

Management Goals: To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs.

Soil and Topography: The compartment is level with some ridges. The soils are comprised of Champion cobbly silt loam, Net silt loam, Carbondale and Tacoosh mucks.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The adjacent land to the north is small private ownership with forest industry to the south.

Unique, Natural Features: May Lake is in the southern part of the compartment.

Archeological, Historical, and Cultural Features: None listed.

Special Management Designations or Considerations: None listed.

Watershed and Fisheries Considerations: May Lake is shallow. The stream flowing to the north is a narrow rocky trout stream and a tributary to the West Branch Net River.

Wildlife Habitat Considerations: Compartment 27 is found in the Covington/Ned Lake Management Area which is mostly Ground Moraines in Southern Baraga County. The dominant forest communities are mesic northern forests and conifer swamps. This management area receives significant snowfall each year and does not offer wintering habitat for deer. As a result, many tree species that do not reliably recruit across all management areas in the ecoregion are found in numerous age classes across this management area. It is also in the heart of Western Upper Peninsula moose country due the spatial arrangement of lowlands and uplands conifer forests that provide summer and winter thermal cover near aspen, hardwood and aquatic feeding sites.

The following have been identified, as featured species for the Covington/Ned Lake Management Area: American Marten, Black Bear, Gray Jay, Moose, and Northern Goshawk.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of an end moraine of coarse-textured glacial till and coarse-textured glacial till. 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 the Michigamme. Gravel pits are located and leased in Sections 5 and 32 and potential appears to be good. Abandoned iron mines and graphite pits are located twelve miles to the northeast. A slate quarry lies four miles to the northeast. Section 30 was leased for metallic exploration and a large metallic nomination, including Section 20, was received recently. There is no economic oil and gas production in the UP.

Vehicle Access: The compartment is accessed from the Ford Road with the remainder being from old logging roads.

Survey Needs: Survey work will be needed to facilitate timber harvest activities.

Recreational Facilities and Opportunities: There are no developed recreational facilities

Fire Protection: This is not a fire prone area.

Additional Compartment Information: There are no SCA's proposed for this compartment.

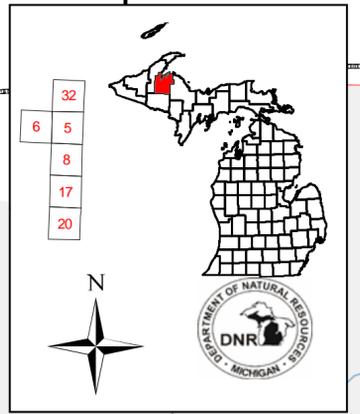
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Cover Type & Treatment Map

Compartment: 027
 T47N R34W Sec. 5, 6, 8, 17, 20
 T48N R34W Sec. 32
 County: Baraga
 Unit: Baraga
 YOE: 2014
 Acres: 1,413 GIS Calculated
 Examiner: Jason Mittlestat
 Map Revised: 05/16/2012
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Survey Grade
- Non-Survey Grade
- Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Railroads
- Stream
- Intermittent Stream
- Pipe
- Power
- Interstate Highway
- US Highway
- State Highway
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)

Forest Stands

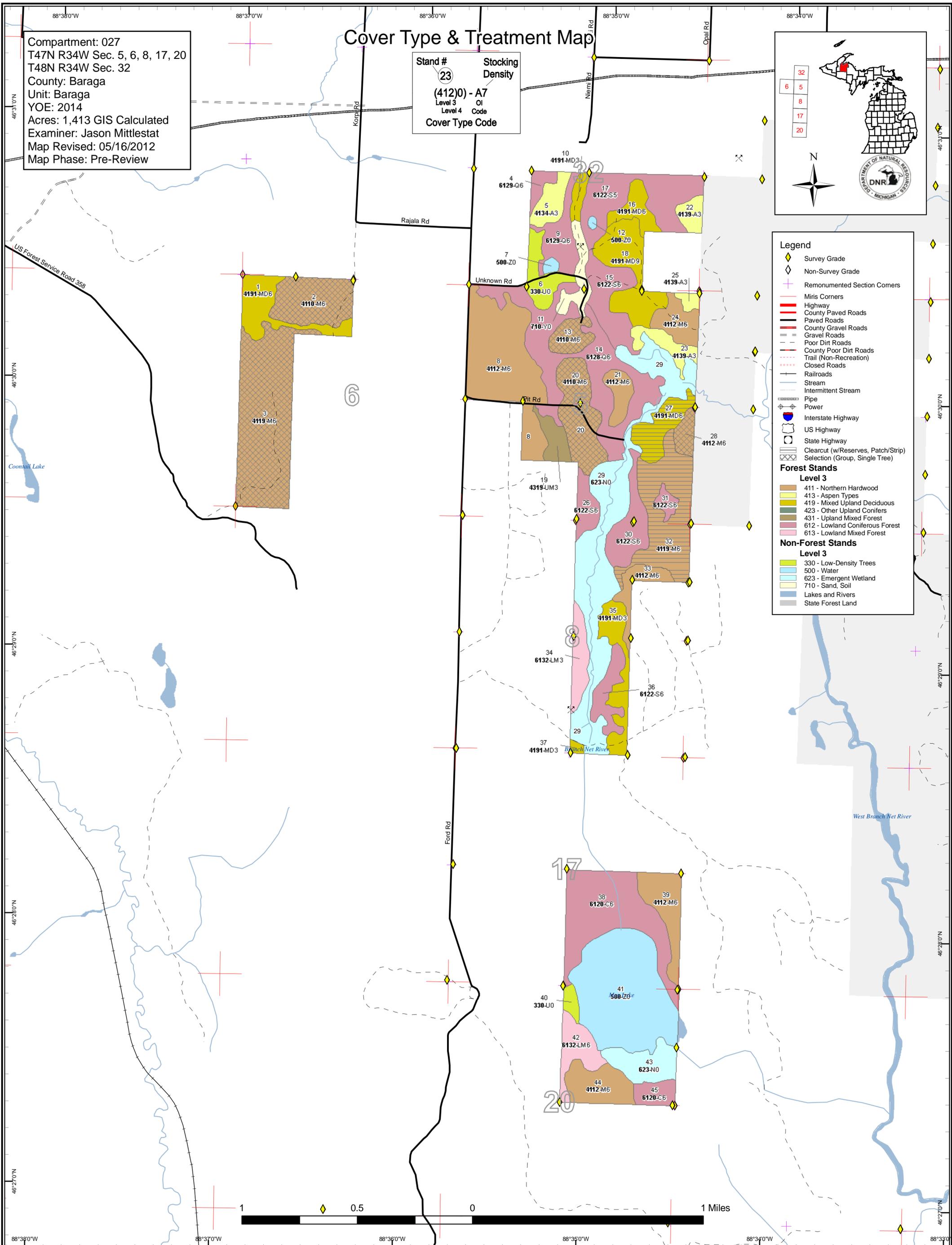
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

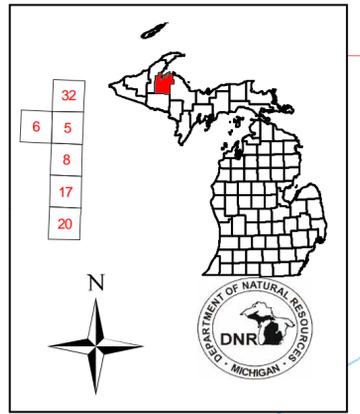
- 330 - Low-Density Trees
- 500 - Water
- 623 - Emergent Wetland
- 710 - Sand, Soil
- Lakes and Rivers
- State Forest Land



Dedicated & Proposed Special Conservation Area Map

Compartment: 027
 T47N R34W Sec. 5, 6, 8, 17, 20
 T48N R34W Sec. 32
 County: Baraga
 Unit: Baraga
 YOE: 2014
 Acres: 1,413 GIS Calculated
 Examiner: Jason Mittlestat
 Map Revised: 04/16/2012
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



- Legend**
- ✚ Remonumented Section Corners
 - ✚ Miris Corners
 - ▭ Stand Boundaries
 - ▭ Dedicated Special Conservation Areas
 - Cold Water Streams
 - Deer Wintering Areas
 - Forest Stands**
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
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 - Non-Forest Stands**
 - Level 3
 - 330 - Low-Density Trees
 - 500 - Water
 - 623 - Emergent Wetland
 - 710 - Sand, Soil

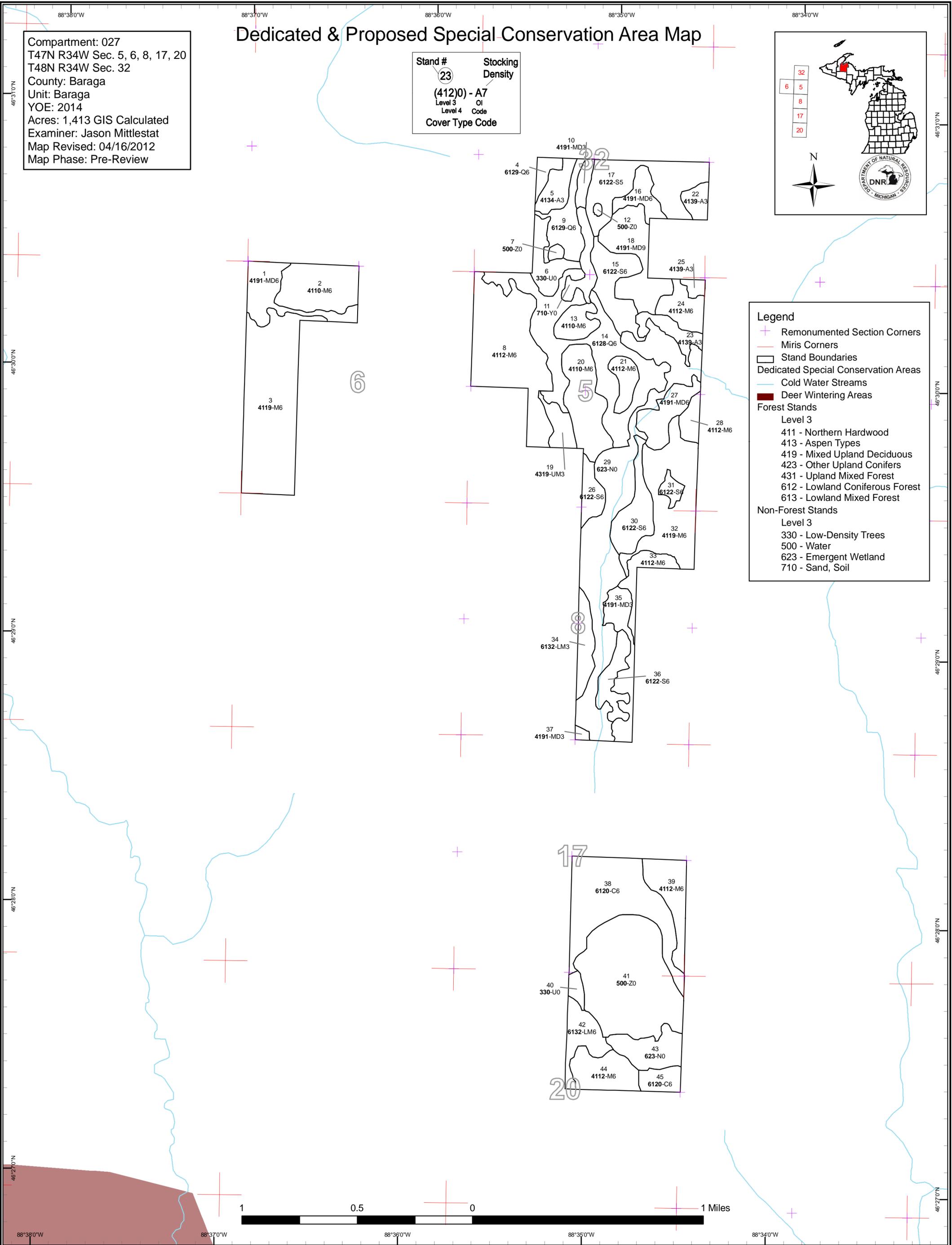
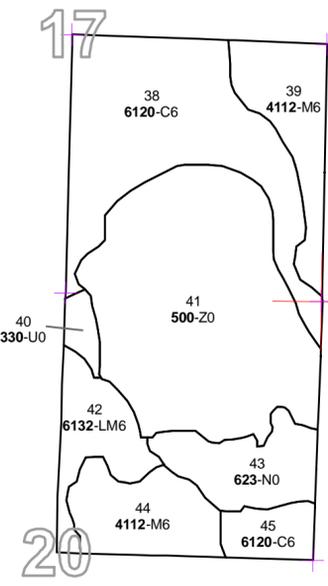
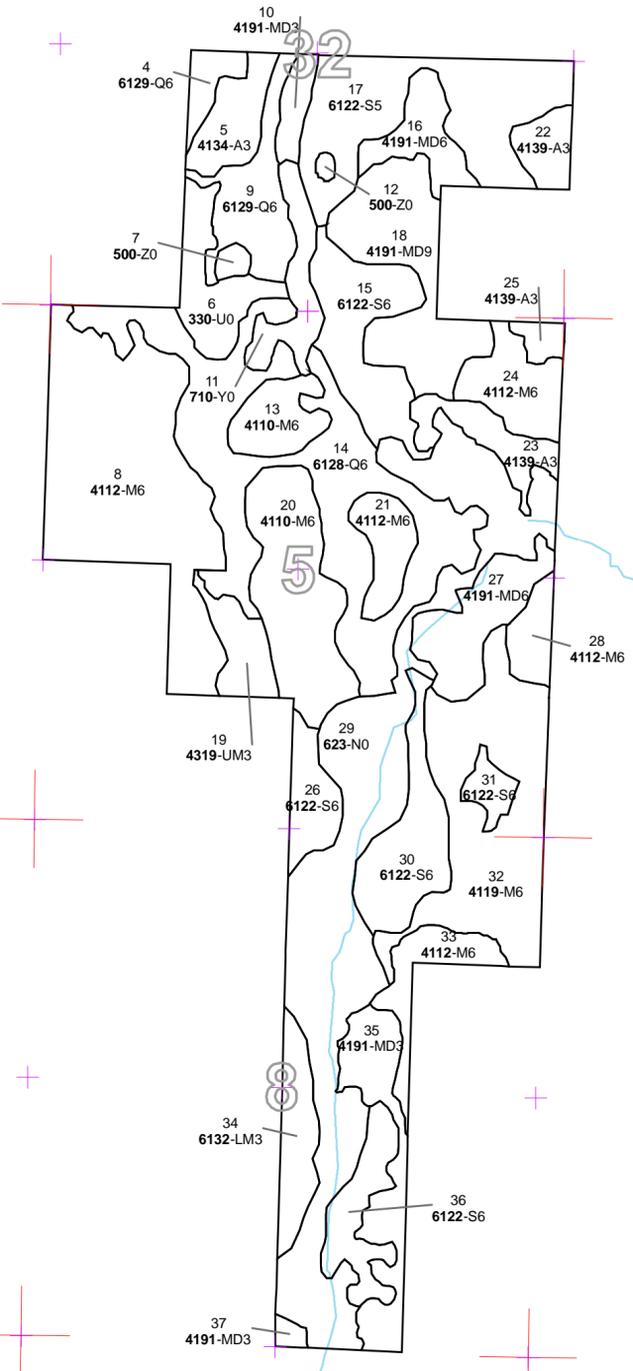
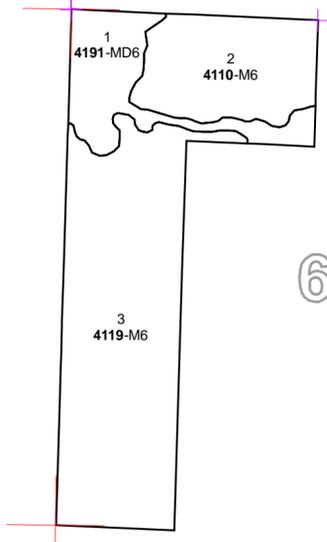


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen	15	27	0	0	0	0	0	0	0	0	0	0	0	0	42
Cedar	0	0	0	0	0	0	0	0	92	0	0	0	0	0	92
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Conifers	0	0	0	0	0	0	0	0	30	0	0	0	0	97	128
Lowland Mixed Forest	17	0	0	0	0	0	0	0	22	0	0	0	0	0	39
Lowland Spruce/Fir	0	0	0	0	73	0	0	6	74	0	0	0	0	0	153
Marsh	154	0	0	0	0	0	0	0	0	0	0	0	0	0	154
Mixed Upland Deciduous	29	15	7	23	0	0	0	0	0	0	0	0	0	73	147
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	486	486
Sand, Soil	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Mixed Forest	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	121	0	0	0	0	0	0	0	0	0	0	0	0	0	121
Total	388	42	7	23	73	0	0	6	218	0	0	0	0	656	1413



Table 2 – Proposed Treatment Summaries

Baraga Mgt. Unit
Year of Entry 2014

Compartment 027
Total Compartment Acres: 1413

Acres by Treatment Type

Commercial Harvest - 313	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Mixed Upland Deciduous	23	0	0	0	0	0	23
Northern Hardwood	67	222	0	0	0	0	289
Total	91	222	0	0	0	0	313



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	11027002-Cut	42.2	4110 - Sugar Maple Association	High Density Pole	99	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Favor large white spruce. <u>Specs:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
3	11027003-Cut	113.7	4119 - Mixed Northern Hardwoods	High Density Pole	99	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, mass producing black cherry, and hemlock 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 Complete Marker". <u>Specs:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type, hemlock and oak. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
13	11027013-Cut	14.3	4110 - Sugar Maple Association	High Density Pole	99	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Favor large white spruce. <u>Specs:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
20	11027020-Cut	43.0	4110 - Sugar Maple Association	High Density Pole	99	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor oak and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker". <u>Specs:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type, oak and cedar. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	11027027-Cut	23.5	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	36		Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription:</u> Harvest balsam and spruce down to 4.6 inches DBH and all other species down to 2 inches DBH <u>Specs:</u> <u>Other Comments:</u> Retention for this stand will be greater than 3% and will consist of balsam and spruce less than 4.6 inches DBH. <u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion. <u>Proposed Start Date:</u> 10/01/2013										
28	11027028-Cut	9.0	4112 - Maple, Beech, Cherry Association	High Density Pole	99	51-80	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription:</u> Selectively thin hardwoods to 60-80 sqft of BA. Retain all white pine. Follow all guidelines set forth in "The Complete Marker". <u>Specs:</u> <u>Other Comments:</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and white pine. <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
32	11027032-Cut	67.2	4119 - Mixed Northern Hardwoods	High Density Pole	80	111-140	Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription:</u> Harvest all species down to 2 inches DBH except white pine. Leave 18+" yellow birch, Leave tree mark mass producing cherry. <u>Specs:</u> <u>Other Comments:</u> leave 6% retention. <u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion. <u>Proposed Start Date:</u> 10/01/2013										
Total Treatment Acreage Proposed:		312.8								

Table 4 -- Treatments Prescribed with a Limiting Factor



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

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Baraga Mgt. Unit

5 – Forested Stands

Compartment: 027
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	29.6	Uneven Age	51-80	Acq. 40, stand was thinned befor acquisition
2	4110 - Sugar Maple Association	High Density Pole	42.2	Uneven Age	111-140	
3	4119 - Mixed Northern Hardwoods	High Density Pole	113.7	Uneven Age	81-110	
4	6129 - Mixed Coniferous Lowland Forest	High Density Pole	6.8	80		
5	4134 - Aspen, Spruce/Fir	High Density Sapling	14.8	5		
8	4112 - Maple, Beech, Cherry Association	High Density Pole	95.0	Uneven Age	51-80	
9	6129 - Mixed Coniferous Lowland Forest	High Density Pole	23.4	80		
10	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	6.7	20		
13	4110 - Sugar Maple Association	High Density Pole	14.3	Uneven Age	81-110	
14	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	97.5	Uneven Age	141-170	
15	6122 - Black Spruce	High Density Pole	32.3	44	51-80	
16	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.9	12		Wallafir, clear cut in 2000.
17	6122 - Black Spruce	Medium Density Pole	55.7	80	1-50	
18	4191 - Mixed Upland Deciduous with Conifer	High Density Log	43.0	Uneven Age		
19	4319 - Mixed Upland Forest	High Density Sapling	12.2	5		
20	4110 - Sugar Maple Association	High Density Pole	43.0	Uneven Age	81-110	
21	4112 - Maple, Beech, Cherry Association	High Density Pole	12.6	Uneven Age	51-80	
22	4139 - Aspen, Mixed Deciduous	High Density Sapling	9.1	12		

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Baraga Mgt. Unit

5 – Forested Stands

Compartment: 027
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4139 - Aspen, Mixed Deciduous	High Density Sapling	13.8	12		
24	4112 - Maple, Beech, Cherry Association	High Density Pole	18.4	Uneven Age		
25	4139 - Aspen, Mixed Deciduous	High Density Sapling	4.0	12		
26	6122 - Black Spruce	High Density Pole	13.1	44	51-80	
27	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	23.5	36		
28	4112 - Maple, Beech, Cherry Association	High Density Pole	9.0	Uneven Age	51-80	
30	6122 - Black Spruce	High Density Pole	27.7	44		
31	6122 - Black Spruce	High Density Pole	5.7	73	81-110	
32	4119 - Mixed Northern Hardwoods	High Density Pole	67.2	Uneven Age	111-140	
33	4112 - Maple, Beech, Cherry Association	High Density Pole	14.4	Uneven Age		
34	6132 - Mixed Lowland Forest with Cedar	High Density Sapling	16.7	5		
35	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	27.4	5		
36	6122 - Black Spruce	High Density Pole	18.2	80	51-80	
37	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	2.0	5		
38	6120 - Lowland Cedar	High Density Pole	80.7	81		
39	4112 - Maple, Beech, Cherry Association	High Density Pole	28.0	Uneven Age	81-110	
42	6132 - Mixed Lowland Forest with Cedar	High Density Pole	22.0	81		
44	4112 - Maple, Beech, Cherry Association	High Density Pole	27.7	Uneven Age	81-110	

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Baraga Mgt. Unit

5 – Forested Stands

Compartment: 027
Year of Entry: 2014



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	6120 - Lowland Cedar	High Density Pole	11.6	81		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	3302 - Low Density Conifer Trees	19.3	No	Unspecified	
7	50 - Water	2.4	No	Unspecified	
11	710 - Sand, Soil	15.2	No	Unspecified	
12	50 - Water	1.1	No	Unspecified	
29	6239 - Mixed Emergent Wetland	129.0	No	Unspecified	
40	3302 - Low Density Conifer Trees	5.1	No	Unspecified	
41	50 - Water	117.6	No	Unspecified	
43	6239 - Mixed Emergent Wetland	25.5	No	Unspecified	



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.