



Report 1 – Compartment Review Presentation

Baraga Forest Management Unit

Compartment 16

Entry Year 2015

Acreage: 1,951

County Baraga

Management Area: Peshekee Highlands

Revision Date: 07/17/2013

Stand Examiner: Jason Mittlestat

Legal Description:

Baraga County, Covington & L'Anse Townships.

T48N R32W Sec: 3, 4, 9, 10, 12

T49N R32W Sec: 27, 28, 34

Identified Planning Goals:

Peshekee Highlands (4.29)

To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs while protecting the water resources.

Soil and topography:

Champion cobbly silt loams, Michigamme cobbly silt loam, Rubicon sand, Croswell sand, AuGres sand, Linross mucky sand, Carbondale and Tacoosh much, Witbeck much, Dawson and Greenwood peat. This area has scattered rock out crops and very rugged terrain.

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

The surrounding ownership is a mix of forest industry and small private owners. Adjacent lands are managed for timber and recreation.

Unique, Natural Features:

The Sturgeon River runs through the southern part of the compartment and Tioga Creek flows through the north east of the compartment. Both of these are trout streams

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

None listed.

Watershed and Fisheries Considerations:

The Sturgeon River and Tioga creek are trout streams.

Wildlife Habitat Considerations:

Compartment 16 is found in the Peshekee Highlands Management Area; on a Bedrock Controlled Ground Moraine in east central Baraga and northwestern Marquette County. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and boreal forests. Major forest cover types include Northern Hardwoods, Mixed Lowland Conifer, and Upland Spruce-fir.

Three of the largest tracts of mature forest in the Great Lakes (McCormick Tract, Craig's Lake, and the Huron Mountain Club) occur within or adjacent to this management area. The current condition and spatial arrangement of these areas provide some of the best opportunities within the WUP, state, and Great Lakes for area sensitive wildlife requiring large tracts of mature forest, mesic conifer or corridors between such areas. The most significant wildlife management issues in the management area are: habitat fragmentation; course woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; early successional forest (hardwood browse adjacent to closed canopy lowland conifer swamps); and course woody debris.

The following have been identified as featured species for the Peshekee Highlands Management Area: American Marten, Blackburnian Warbler, Gray Jay, Moose, Northern Goshawk, and Pileated Woodpecker

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till to the southwest and thin to discontinuous (coarse-textured) till to

the north and minor peat and muck. The glacial drift thickness varies from insufficient data to determine up to a thickness of 50 feet. The Precambrian Michigamme Formation, Siamo Slate and Archean Granite/Gneiss subcrop below the glacial drift. There is not a current economic use for these rocks, but the granite/gneiss could be used as dimension stone or aggregate. Gravel pits are located in the Compartment and potential appears to be good, especially to the south. This Compartment is located between the Ohio Mine and Taylor Mine areas. Some of the State land in the Compartment and to the west was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is from M-38, the Herman – Nestoria road and the North Nestoria road. The north east of the compartment is limited by rugged terrain and private property.

Survey Needs:

Survey work will be needed to facilitate timber harvest activities.

Recreational Facilities and Opportunities:

Snowmobile trail 8 uses the power line right of way through the southern part of the compartment. The North Nestoria road provides access to Craig Lake.

Fire Protection:

Historical wildfire occurrence is largely from lightning strike origin. Extended suppression tactics are common due to rugged terrain and limited access.

Additional Compartment Information:

Baraga County has a gravel pit lease along the North Nestoria Road.

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 2 – 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	0	46	0	0	0	0	0	0	0	0	0	0	0	0	46
Cedar	0	0	0	0	0	0	0	0	0	0	19	0	0	0	19
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Jack Pine	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	157	38	42	86	0	21	0	0	343
Lowland Shrub	257	0	0	0	0	0	0	0	0	0	0	0	0	0	257
Lowland Spruce/Fir	0	0	0	19	0	0	0	27	0	0	0	0	0	0	46
Mixed Upland Deciduous	68	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Northern Hardwood	0	0	0	0	0	0	62	30	10	0	0	0	265	0	366
Red Pine	0	0	0	98	0	0	0	0	0	0	0	0	0	0	98
Sand, Soil	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Tamarack	0	0	0	0	19	0	40	0	27	0	0	0	0	0	86
Upland Conifers	0	0	0	75	0	0	8	11	16	0	0	0	0	0	110
Upland Mixed Forest	0	0	0	21	0	0	0	51	0	0	0	0	0	0	72
Upland Spruce/Fir	0	0	0	61	0	5	20	11	107	0	0	0	0	0	204
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	70	0	36	72	0	0	178
Total	381	46	0	275	19	5	0	287	169	271	105	36	93	265	1951



Report 3 – Proposed Treatment Summaries

Baraga Mgt. Unit
Year of Entry 2015

Compartment 016
Total Compartment Acres: 1951

Acres by Treatment Type

Commercial Harvest - 443 Tree Planting - 0 Other - 0
Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Coniferous Forest	213	0	0	0	0	0	213
Mixed Upland Conifers	42	0	0	0	0	0	42
Northern Hardwood	0	37	0	0	0	0	37
Other Upland Conifers	90	0	0	0	0	0	90
Planted Pines	2	0	0	0	59	0	61
Total	347	37	0	0	59	0	443



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	11016020-Cut	23.8	4119 - Mixed Northern Hardwoods	High Density	99	141-170	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Do not harvest oak, hemlock, white pine and cedar. 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".</p> <p><u>Specs:</u></p> <p><u>Other</u> Terrain could affect the treatment area. Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>										
23	11016023-Cut	33.2	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	93		Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Reserve: white pine, cedar, hemlock, oak if present. Also all yellow birch 18" DBH and larger shall be left unharvested. Cut all other trees greater than 4.6" at DBH that meets product standards. Leave 1/3 of tops if chipped.</p> <p><u>Specs:</u></p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.</p> <p><u>Comments:</u></p> <p>The treatment is to encourage white pine.</p> <p><u>Next Steps:</u></p> <p>Check for adequate regeneration within 5 years of harvest completion.</p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>										
25	11016025-Cut	13.5	4110 - Sugar Maple Association	High Density Pole	99	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Do not harvest oak, hemlock, white pine and cedar. 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".</p> <p><u>Specs:</u></p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>										
34	11016034-Cut	52.4	6124 - Lowland Spruce-Fir	High Density Pole	70		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
<p><u>Prescription</u> Reserve: white pine, cedar, black cherry, hemlock and oak. Cut all other trees greater than 4.6" at DBH that meets product standards. No chipping of tops.</p> <p><u>Specs:</u></p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.</p> <p><u>Comments:</u></p> <p>Some wet areas throughout the stand may affect treatment size. The road is on a ridge running through the middle of the stand.</p> <p><u>Next Steps:</u></p> <p>Check for adequate regeneration within 5 years of harvest completion.</p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	11016040-Cut	33.6	429 - Mixed Upland Conifers	High Density Pole	38	51-80	Harvest	Clearcut with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal
<p><u>Prescription</u> Reserve red pine, white pine, black cherry, hemlock, cedar and oak. Might have to mark some red pine in areas. The stand is a "failed" red pine plantation. Cut all other trees greater than 4.6" at DBH that meets product standards. No chipping of tops.</p> <p><u>Specs:</u></p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										
42	11016042-Cut	23.3	42340 - Upland Spruce/Fir	High Density Pole	91		Harvest	Clearcut with Reserves	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription</u> Reserve: white pine, cedar, black cherry, hemlock and oak. Cut all other trees greater than 4.6" at DBH that meets product standards. No chipping of tops.</p> <p><u>Specs:</u></p> <p><u>Other</u> Some steep slopes throughout the stand could affect the treatment area.</p> <p><u>Comments:</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.</p> <p><u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										
43	11016043-Cut	29.3	6121 - Tamarack	High Density Pole	77		Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
<p><u>Prescription</u> Reserve: white pine, cedar, hemlock and oak. Cut all other trees greater than 4.6" at DBH that meets product standards. No chipping of tops.</p> <p><u>Specs:</u></p> <p><u>Other</u> Retention will be less than 3%.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										
45	11016045-Cut	50.3	6124 - Lowland Spruce-Fir	High Density Pole	79		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
<p><u>Prescription</u> Reserve: white pine, cedar, black cherry, hemlock, oak if present. Cut all other trees greater than 4.6" at DBH that meets product standards.</p> <p><u>Specs:</u> Buffer western border along creek. No chipping of tops.</p> <p><u>Other</u> There is a wet area in the interior of the stand that could reduce acreage. The south edge along the river might also reduce acreage due to protecting the riparian area.</p> <p><u>Comments:</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.</p> <p><u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51	11016051-Cut	8.3	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	79		Harvest	Clearcut	42390 - Mixed Non-Pine Upland Conifers	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species down to 2 inches DBH except red oak, hemlock, red & white pine and cedar if present. <u>Specs:</u> <u>Other</u> No retention unless any species listed above are found. <u>Comments:</u> <u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion. <u>Proposed Start Date:</u> 10/01/2014										
53	11016053-Cut	59.4	42110 - Planted Red Pine	High Density Pole	38	111-140	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Remove every 3rd row of red pine. Some areas might have to have two rows removed because of close spacing. Reserve: white pine, cedar, hemlock, oak if present. Cut all other other trees greater than 4.6" at DBH that meets product standards. Reserve: Non-designated red pine, white pine, hemlock, cedar and red oak if present. <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. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs. <u>Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
54	11016054_sm all-Cut	2.9	6122 - Black Spruce	High Density Pole	38		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
<u>Prescription</u> Reserve: white pine, cedar, hemlock, oak if present. Cut all other trees greater than 4.6" at DBH that meets product standards. <u>Specs:</u> <u>Other</u> Retention will be less than 3%. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs. <u>Comments:</u> <u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion. <u>Proposed Start Date:</u> 10/01/2013										
54	11016054-Cut	7.3	6122 - Black Spruce	High Density Pole	38		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
<u>Prescription</u> Reserve: white pine, cedar, hemlock, oak if present. Cut all other trees greater than 4.6" at DBH that meets product standards. <u>Specs:</u> <u>Other</u> Retention will be less than 3%. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs. <u>Comments:</u> <u>Next Steps:</u> Check for adequate regeneration within 5 years of harvest completion. <u>Proposed Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55	11016055-Cut	2.1	42340 - Upland Spruce/Fir	High Density Pole	38		Harvest	Clearcut	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Cut all species down to 4.6 inches DBH. Retain White Pine if present.										
<u>Specs:</u>										
<u>Other</u> No retention. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs.										
<u>Comments:</u>										
<u>Next</u> Check for adequate regeneration within 5 years of harvest completion.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
57	11016057-Cut	1.9	42110 - Planted Red Pine	High Density Pole	38	51-80	Harvest	Clearcut	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Cut all species down to 4.6 inches DBH. Retain White Pine if present.										
<u>Specs:</u>										
<u>Other</u> No retention. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs.										
<u>Comments:</u>										
<u>Next</u> Check for adequate regeneration within 5 years of harvest completion.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
58	11016058-Cut	21.0	42340 - Upland Spruce/Fir	High Density Pole	38		Harvest	Clearcut with Reserves	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Reserve: white pine, cedar, black cherry tamarack, hemlock and oak. Cut all other trees greater than 4.6" at DBH that meets product standards.										
<u>Specs:</u> No chipping of tops.										
<u>Other</u> Retention will be less than 3%. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs.										
<u>Comments:</u>										
<u>Next</u> Check for adequate regeneration within 5 years of harvest completion.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
63	11016063-Cut	8.2	429 - Mixed Upland Conifers	High Density Pole	91		Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription</u> Cut all species down to 4.6 inches DBH. Retain White Pine and Black Cherry.										
<u>Specs:</u>										
<u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs.										
<u>Comments:</u>										
<u>Next</u> Check for adequate regeneration within 5 years of harvest completion.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
64 11016064-Cut	19.9	42340 - Upland Spruce/Fir	High Density Pole	74		Harvest	Clearcut with Reserves	42340 - Upland Spruce/Fir	Cmpt. Review Proposal

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

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

Next Check for adequate regeneration within 5 years of harvest completion.
Steps:

Proposed
Start Date: 10/01/2013

66 11016066-Cut	15.7	42320 - Upland Spruce	High Density Pole	91		Harvest	Clearcut with Reserves	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
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Prescription Reserve: White birch, white pine, cedar, hemlock, oak if present. Cut all other trees greater than 4.6" at DBH that meets product standards.
Specs:

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

Next Check for adequate regeneration within 5 years of harvest completion.
Steps:

Proposed
Start Date: 10/01/2013

71 11016071-Cut	21.9	6124 - Lowland Spruce-Fir	High Density Pole	85		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
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Prescription Reserve: apple trees, black cherry, white pine, cedar, hemlock and oak. Cut all other trees greater than 4.6" at DBH that meets product standards.
Specs:

Other Retention for this stand will be greater than 3% and will consist of reserve tree species. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs.
Comments:

Next Check for adequate regeneration within 5 years of harvest completion.
Steps:

Proposed
Start Date: 10/01/2014

76 11016076-Cut	7.7	6124 - Lowland Spruce-Fir	High Density Pole	85		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
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Prescription Reserve: apple trees, white pine, cedar, hemlock, oak if present. Cut all other trees greater than 4.6" at DBH that meets product standards.
Specs:

Other Retention for this stand will be greater than 3% and will consist of reserve tree species. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs.
Comments:

Next Check for adequate regeneration within 5 years of harvest completion.
Steps:

Proposed
Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 435.7**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
75 11016075-Cut	7.7	6124 - Lowland Spruce-Fir	High Density Pole	85		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal

Prescription Specs: Reserve: apple trees, white pine, cedar, hemlock, oak if present. Cut all other trees greater than 4.6" at DBH that meets product standards.

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

Factor limit - unknown if the adjacent land owner will allow access.

Next Steps: Check for adequate regeneration within 5 years of harvest completion.

Proposed Start Date: 10/01/2014

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

Total Treatment Acreage Proposed: 7.7

Report 6 – Out of YOE – Treatments
Prescribed with No Limiting Factor

Year of Entry: 2015



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: #Type!

**Total Treatment
Acreage Proposed: 0**

Report 7 – Site Conditions

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment 016

Year of Entry 2015

Availability for Management

Availability for Management			Dominant Site Conditions									
Total Acres	Acres Available	Acres Not Available		No	5D	5C	5B	4A	3J	2G	2F	2B
46	46		Aspen	46								
19	19		Cedar	19								
2	2		Jack Pine	2								
343	237	106	Lowland Conifers	223				6	49	57		8
46	19	27	Lowland Spruce/Fir	19	6				21			
68	68		Mixed Upland Deciduous	68								
366	319	47	Northern Hardwood	239		80					47	
98	98		Red Pine	98								
86	51	35	Tamarack	51						35		
110	110		Upland Conifers	110								
72	72		Upland Mixed Forest	72								
204	204		Upland Spruce/Fir	125		79						
178	168	10	White Pine	70			98				10	
1,639	1,413	226	Total Forested Acres	1,142	6	159	98	6	71	92	57	8
	86%	14%	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.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	30				
Comments:							
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	69				
Comments:							
Hold to cut in 2025 to balance acres.							

Report 7 – Site Conditions

Baraga Mgt. Unit
Jason Mittlestat : Examiner

Compartment 016
Year of Entry 2015

009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	8	
Comments: headwaters of a creek				
010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	11	
Comments:				
011	Not Available	2G: Too wet (sensitive soils, does not include access issues)	15	
Comments: too wet to operate in				
012	Not Available	3J: Water quality / BMPs (stream, river, or lake)	21	
Comments: tioga creek corridor				
013	Not Available	2F: Too steep	47	
Comments: Extreme topo.				
014	Not Available	2F: Too steep	10	
Comments: extreme topo. looks like the stand has never been cut.				

Report 7 – Site Conditions

Baraga Mgt. Unit

Compartment 016

Jason Mittlestat : Examiner

Year of Entry 2015

015	Not Available	3J: Water quality / BMPs (stream, river, or lake)	22
Comments: tioga creek corridor			
016	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11
Comments: hold to cut in 2025			
017	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21
Comments: hold to cut in 2025			
018	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17
Comments: hold to cut in 2025			
019	Not Available	3J: Water quality / BMPs (stream, river, or lake)	29
Comments: tioga creek corridor			
020	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42
Comments: hold to cut in 2025			

Report 7 – Site Conditions

Baraga Mgt. Unit
Jason Mittlestat : Examiner

Compartment 016
Year of Entry 2015

021	Not Available	5D: Unproductive Forest Land	9	
Comments: bog				
022	Not Available	5D: Unproductive Forest Land	1	
Comments: water				
023	Not Available	3J: Water quality / BMPs (stream, river, or lake)	4	
Comments: tioga creek corridor				
024	Not Available	3J: Water quality / BMPs (stream, river, or lake)	6	
Comments: tioga creek corridor				
025	Not Available	3J: Water quality / BMPs (stream, river, or lake)	26	
Comments: tioga creek corridor				
026	Not Available	3J: Water quality / BMPs (stream, river, or lake)	10	
Comments: tioga creek corridor				
027	Not Available	3J: Water quality / BMPs (stream, river, or lake)	9	
Comments: stream / beaver ponds				

Report 7 – Site Conditions

Baraga Mgt. Unit

Compartment 016

Jason Mittlestat : Examiner

Year of Entry 2015

028	Not Available	3J: Water quality / BMPs (stream, river, or lake)	119	
Comments: sturgeon river corridor				
029	Not Available	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	10	
Comments: atc powerline				
034	Available	5B: Retention for regeneration purposes	53	
Comments: The stand was clear cut with white pine reserves in 2006. Really is a UM 3.				
039	Not Available	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	9	
Comments: us-41 hwy				
040	Not Available	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	4	
Comments: us-41 hwy				
041	Not Available	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	3	
Comments: us-41 hwy				

Report 7 – Site Conditions

Baraga Mgt. Unit
Jason Mittlestat : Examiner

Compartment 016
Year of Entry 2015

042	Not Available	3J: Water quality / BMPs (stream, river, or lake)	24
Comments: stream / beaver ponds			
043	Not Available	3J: Water quality / BMPs (stream, river, or lake)	47
Comments: stream / beaver ponds / bog			
044	Not Available	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	1
Comments: us-41 hwy			
045	Not Available	5D: Unproductive Forest Land	3
Comments: tag alder			
046	Not Available	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	13
Comments: atc powerline			
047	Not Available	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	11
Comments: baraga county lease gravel pit			

Report 7 – Site Conditions

Baraga Mgt. Unit
Jason Mittlestat : Examiner

Compartment 016
Year of Entry 2015

048	Not Available	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	2	
Comments: baraga county lease gravel pit				
049	Not Available	5D: Unproductive Forest Land	6	
Comments: treed bog				
050	Available	4A: No merchantable products (see product standards)	6	
Comments: Q1 stand with an average dbh of 4"				
051	Available	5B: Retention for regeneration purposes	9	
Comments: The stand was clear cut with white pine reserves in 2006. Really is a UM 3.				
052	Available	5B: Retention for regeneration purposes	36	
Comments: The stand was clear cut with white pine reserves in 1996. Really is a UM 3.				
058	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	
Comments:				

Report 7 – Site Conditions

Baraga Mgt. Unit

Compartment 016

Jason Mittlestat : Examiner

Year of Entry 2015

061	Not Available	2G: Too wet (sensitive soils, does not include access issues)	27
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Comments:



Report 8 – 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
Sturgeon River Comments	Habitat Areas or Corridors	Habitat Corridor	SCA	
North Nestoria Pits Comments Baraga County Road Comm.	Mineral Resource Area	Sand or Gravel Pit	SCA	
Tama Creek Comments	Type 1 or Type 2 Old Growth	Verified Type 2 Old Growth Area	SCA	



Report 9 – 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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.

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Baraga Mgt. Unit

Report 10 – Forested Stands

Compartment: 016
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4110 - Sugar Maple Association	High Density Log	2.9	Uneven Age	141-170	Inoperable Bluff.
6120 - Lowland Cedar	High Density Log	19.1	100	111-140	Wet, lowland cedar and black spruce.
4110 - Sugar Maple Association	High Density Log	42.2	Uneven Age	141-170	Access will be needed across private lands from the west to harvest. Hold to treat until 2025 for age diversity if access can be found. There are lots of bluffs throughout the stand that will reduce treatment acreage.
6127 - Lowland Pine	High Density Pole	28.9	100	141-170	Lots of bluffs. Look to treat with the hardwood adjacent in 2025. Quite a bit of tag alder in the north of the stand.
6129 - Mixed Coniferous Lowland Forest	High Density Pole	30.3	100	141-170	Wet stand, blocked by RR Grade, river, and terrain from the south. Have an easement on pvt to access from the north. Riparin corridor.
4319 - Mixed Upland Forest	High Density Pole	41.7	83		Very poor quality hardwoods. Mostly black cherry and yellow birch for hardwoods. Final harvest with the rest of the area in 2025.
4112 - Maple, Beech, Cherry Association	High Density Log	16.6	Uneven Age	111-140	Cut in 2025 with adjacent stands.
42320 - Upland Spruce	High Density Pole	11.0	83		Harvest in 2025 with the adjacents stands. Upland black spruce.
4319 - Mixed Upland Forest	High Density Pole	9.1	83		No management access, the stand is on the wrong side of the RR grade.
6122 - Black Spruce	Low Density Pole	21.5	83	1-50	Sparce black spruce. Wet ground, Treed bog.
42390 - Mixed Non-Pine Upland Conifers	High Density Log	11.0	83	81-110	Delay treatment until 2025 with adjacent stands.
4112 - Maple, Beech, Cherry Association	High Density Log	21.1	Uneven Age	111-140	Look to cut in 2025
4117 - Mixed N. Hardwood - Pine	High Density Log	2.8	Uneven Age	111-140	Rock bluff. The white spruce is dieing.
42200 - Natural White Pine	High Density Log	9.8	155	111-140	Rugged terrain. White pine on rock bluffs. Did not see any old stumps.
4115 - Y.Birch, Hemlock NH	High Density Log	27.9	Uneven Age	51-80	Herman Stew 11-007-05-01. Look to thin in 2025.
4117 - Mixed N. Hardwood - Pine	High Density Log	47.4	Uneven Age	111-140	Big Rock Bluff. White spruce is dieing.

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Baraga Mgt. Unit

Report 10 – Forested Stands

Compartment: 016
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4119 - Mixed Northern Hardwoods	High Density Log	23.8	Uneven Age	141-170	M6/M9 Treatment area could vary with terrain. Rock bluffs throughout the stand.
21	4110 - Sugar Maple Association	High Density Log	11.7	Uneven Age	51-80	Herman Stew 11-007-05-01.
22	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	20.6	129		Wet. Stream corridor.
23	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	35.2	93		Management objective of white pine.
24	42200 - Natural White Pine	Low Density Log	9.1	129	1-50	Herman Stew 11-007-05-01 . Heavy Moose Browse. This is an upland mix stand with some residual white pine
25	4110 - Sugar Maple Association	High Density Pole	13.5	Uneven Age	111-140	Ready to be thinned.
26	6127 - Lowland Pine	Low Density Sapling	6.4	93	1-50	Treed bog with white pine.
27	6129 - Mixed Coniferous Lowland Forest	High Density Pole	11.2	107		
28	6129 - Mixed Coniferous Lowland Forest	High Density Pole	15.4	107		Very wet stand.
29	42340 - Upland Spruce/Fir	High Density Pole	68.5	91		Western edge of the stand is very steep.
30	42200 - Natural White Pine	High Density Log	64.4	93	111-140	Very rough terrain, in operable.
31	42200 - Natural White Pine	Low Density Log	53.0	129	1-50	Herman Stew 11-007-05-01 This is an upland mixed stand with white pine overstory.
32	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	20.3	6		Herman Stew 11-007-05-01
33	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	47.3	6		Herman Stew 11-007-05-01
34	6124 - Lowland Spruce-Fir	High Density Pole	94.2	70		The road through the middle of the stand is on a ridge.
36	4110 - Sugar Maple Association	High Density Log	9.6	99	81-110	Herman Stew 11-007-05-01. The stand might not be ready in 2025

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Baraga Mgt. Unit

Report 10 – Forested Stands

Compartment: 016
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	6121 - Tamarack	High Density Pole	7.9	79		Small diameter tamarack stand on very wet ground, looks like a grown over bog.
39	42200 - Natural White Pine	High Density Log	5.6	93	111-140	Very rough terrain, not operable.
40	429 - Mixed Upland Conifers	High Density Pole	33.6	38	51-80	Acquired from Champion. Planted red pine, mostly failed. Reserve red pine, white pine, cedar, oak and hemlock. Might have to mark some red pine. Harvest everything else.
42	42340 - Upland Spruce/Fir	High Density Pole	23.3	91		The aspen is dieing out of the stand. There is a good amount of white pine. Treatment acreage might vary with Topo.
43	6121 - Tamarack	High Density Pole	31.9	77		Tamarack stand, looked like good ground in the winter.
45	6124 - Lowland Spruce- Fir	High Density Pole	53.5	79		There are wet areas in the interior with tag alder. There is a swail running east to west through the center of the stand that might have to be removed from the treatment area.
46	429 - Mixed Upland Conifers	High Density Log	7.4	93	81-110	Riparian corridor. The stand in on a hill sloping towards the river.
47	429 - Mixed Upland Conifers	High Density Pole	37.8	31		Sale compleated in 1982.
49	6124 - Lowland Spruce- Fir	High Density Pole	9.3	73		Wet along the east edge.
50	42340 - Upland Spruce/Fir	High Density Pole	38.3	30		Sale compleated in 1982. Look to cut in 2025.
51	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	8.3	79		
52	42110 - Planted Red Pine	High Density Pole	36.6	38	51-80	Acquired from Champion. Poor stocking, wide spacing with intermingled grassy areas.
53	42110 - Planted Red Pine	High Density Pole	59.4	38	111-140	Acquired from Champion. Poor quality red pine. Some places will need to have two rows removed instead of one. Spruce and fir pockets throughout.
54	6122 - Black Spruce	High Density Pole	18.6	38		Look to cut in 2025.
55	42340 - Upland Spruce/Fir	High Density Pole	2.1	38		
56	4319 - Mixed Upland Forest	High Density Pole	21.0	38		Acquired from Champion. Poor quality aspen with small diameter spruce and fir. Manage for spruce and fir, look to cut in 2025.

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Baraga Mgt. Unit

Report 10 – Forested Stands

Compartment: 016
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	42110 - Planted Red Pine	High Density Pole	1.9	38	51-80	Acquired from Champion.
58	42340 - Upland Spruce/Fir	High Density Pole	21.0	38		Acquired from Champion.
61	42120 - Planted Jack Pine	High Density Sapling	2.1	8		Old MDOT borrow pit.
62	429 - Mixed Upland Conifers	High Density Pole	4.1	38		Small stand between hwy and creek. Some planted red pine along the south property line.
63	429 - Mixed Upland Conifers	High Density Pole	8.2	91		Could be harvested.
64	42340 - Upland Spruce/Fir	High Density Pole	19.9	74		Reserve Paper Birch. Check with MDOT
66	42320 - Upland Spruce	High Density Pole	15.7	91		White spruce has budworm. Leave paper birch, talk with MDOT
67	4116 - Mixed N. Hardwood - Aspen	High Density Pole	24.1	87	51-80	Very rough ground. Rock bluffs and cliffs. Adjacent corporate property was clearcut.
68	4116 - Mixed N. Hardwood - Aspen	High Density Pole	6.0	87	51-80	Rough ground, low stocking.
70	6122 - Black Spruce	High Density Sapling	5.8	87		Treed Bog
71	6124 - Lowland Spruce-Fir	High Density Pole	23.0	85		White spruce is dieing out. Some scattered apple trees.
73	4119 - Mixed Northern Hardwoods	High Density Pole	61.7	73	81-110	Very rugged terrain.
75	6124 - Lowland Spruce-Fir	High Density Pole	7.7	85		PVT access needed
76	6124 - Lowland Spruce-Fir	High Density Pole	7.7	85		
79	4136 - Aspen, Mixed Conifer	High Density Sapling	46.2	16		There are scattered white pine along with aspen and balsam that were not cut in 1997.
80	4112 - Maple, Beech, Cherry Association	High Density Log	55.2	Uneven Age	81-110	Nestoria Ready Mix 11-017-95-01 . Area could be affected by topo.
81	6121 - Tamarack	High Density Pole	26.9	93		Wet
82	6121 - Tamarack	Medium Density	8.1	40		Treed bog.

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Baraga Mgt. Unit

Report 10 – Forested Stands

Compartment: 016
Year of Entry: 2015



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
85	42200 - Natural White Pine	Low Density Log	35.7	115	1-50	Nestoria Ready Mix 11-017-95-01. "All trees over 6" @ dbh were cut (other than white pine) White pine marked with orange were cut" The regenerating stand is 2" dbh and 18 yrs old.
86	6121 - Tamarack	Medium Density	4.0	40		Treed bog.
87	6121 - Tamarack	Medium Density	7.3	40		Treed Bog
89	42330 - Upland Fir	High Density Pole	4.6	50		Small acreage off of the hwy. A turnaround would take most of the stand.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	50 - Water	1.1	No	Unspecified	
7	6229 - Mixed lowland shrub	8.5	No	Unspecified	
17	6229 - Mixed lowland shrub	4.4	No	Unspecified	
35	6229 - Mixed lowland shrub	6.4	No	Unspecified	
38	6229 - Mixed lowland shrub	9.0	No	Unspecified	
41	6229 - Mixed lowland shrub	10.2	No	Unspecified	
44	6229 - Mixed lowland shrub	26.0	No	Unspecified	
48	6229 - Mixed lowland shrub	118.9	No	Unspecified	
59	3102 - Grass	9.9	No	Unspecified	
60	3102 - Grass	8.7	No	Unspecified	
65	122 - Road/Parking Lot	4.1	No	Unspecified	
69	6229 - Mixed lowland shrub	24.2	No	Unspecified	
72	122 - Road/Parking Lot	2.9	No	Unspecified	
74	710 - Sand, Soil	11.2	No	Unspecified	
77	3102 - Grass	13.3	No	Unspecified	
78	710 - Sand, Soil	2.4	No	Unspecified	
83	6229 - Mixed lowland shrub	2.7	No	Unspecified	
84	629 - Mixed non-forested wetland	46.6	No	Unspecified	

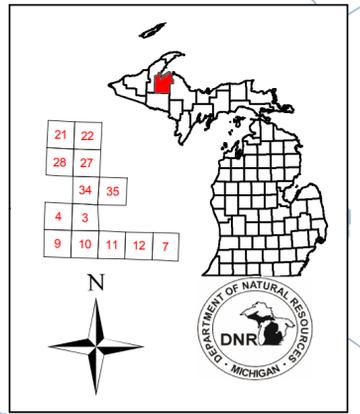


Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
88	122 - Road/Parking Lot	1.3	No	Unspecified	

Cover Type & Treatment Map

Compartment: 016
 T48N R31W
 07
 T48N R32W
 03 04 09 10 11 12
 T49N R32W
 21 22 27 28 34 35
 County: Baraga
 Unit: Baraga
 YOE: 2015
 Acres: 1,951 GIS Calculated
 Examiner: Jason Mittlestat
 Map Revised: 05/22/2013
 Map Phase: Pre-Review

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



Legend

- DNR Survey Corners
- Miris Corners
- Snowmobile Trails
- Snowmobile Trail
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- Pipeline
- Powerline
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)

Forest Stands

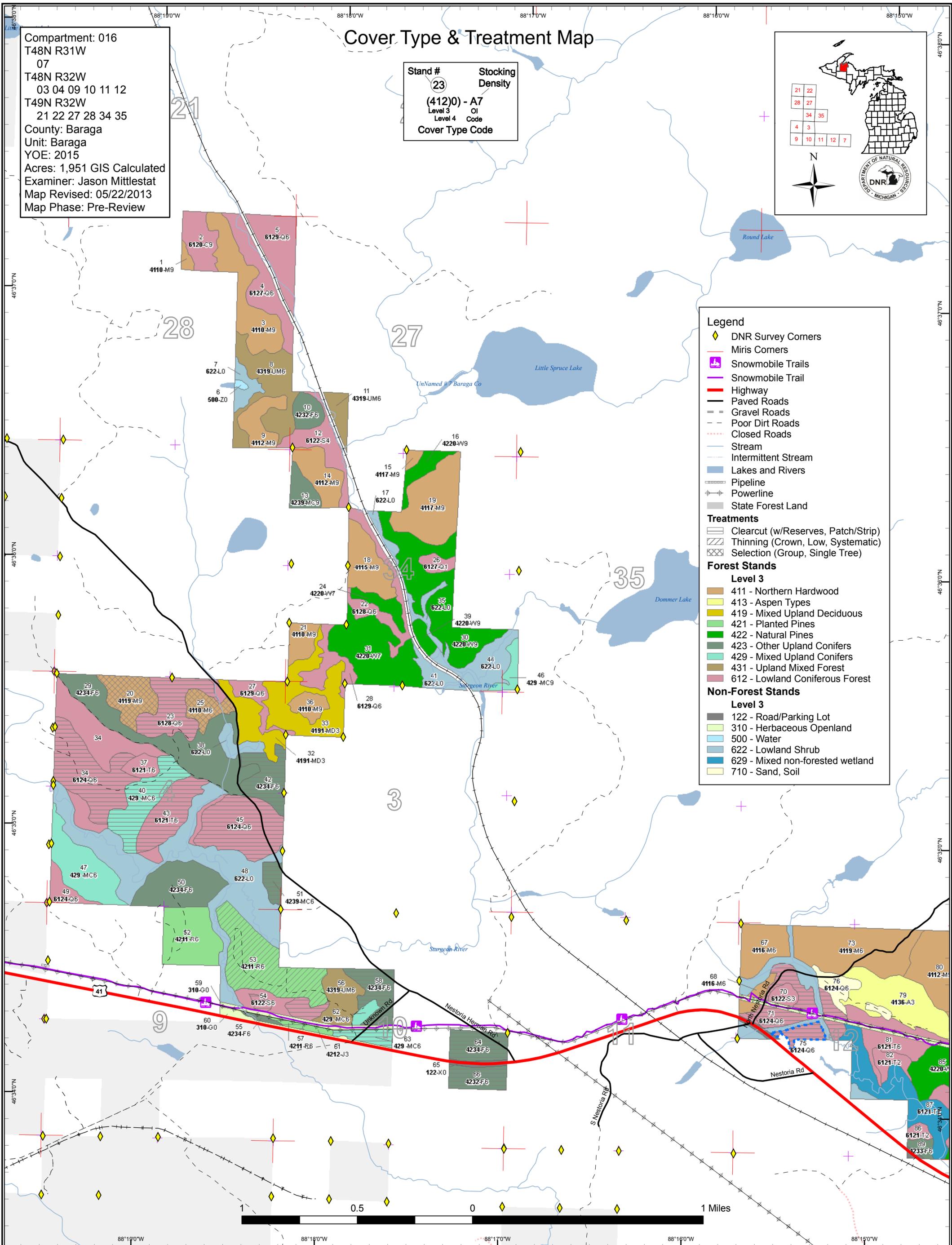
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- 710 - Sand, Soil



88°19'0"W 88°18'0"W 88°17'0"W 88°16'0"W 88°15'0"W

46°37'0"N 46°36'0"N 46°35'0"N 46°34'0"N

Stand Boundary Map

Compartment: 016
 T48N R31W
 07
 T48N R32W
 03 04 09 10 11 12
 T49N R32W
 21 22 27 28 34 35
 County: Baraga
 Unit: Baraga
 YOE: 2015
 Acres: 1,951 GIS Calculated
 Examiner: Jason Mittlestat
 Map Revised: 05/22/2013
 Map Phase: Pre-Review

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



Legend

- DNR Survey Corners
- Miris Corners
- Snowmobile Trail
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Stream
- Intermittent Stream
- Pipeline
- Powerline

Forest Stands

Level 3

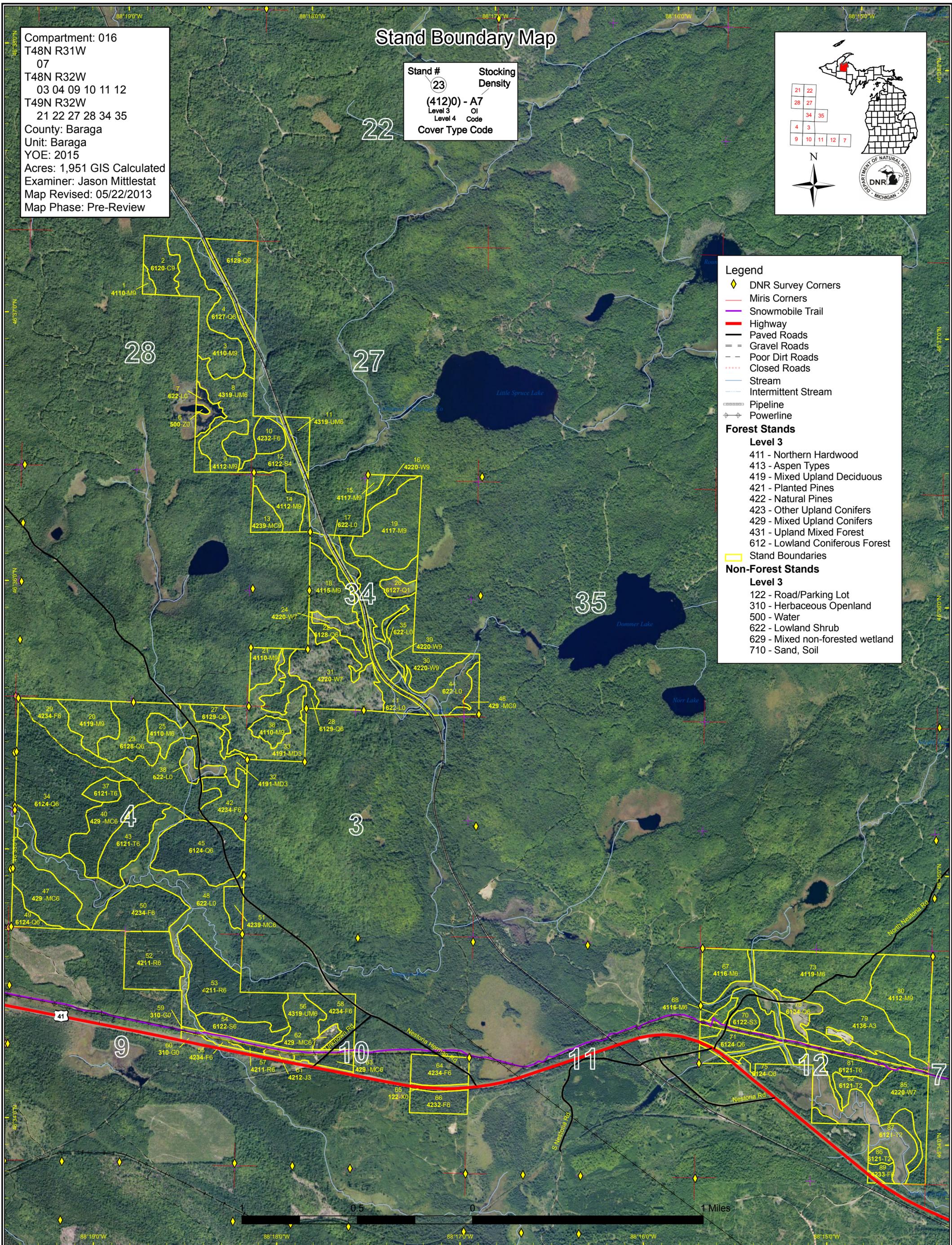
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Stand Boundaries

Non-Forest Stands

Level 3

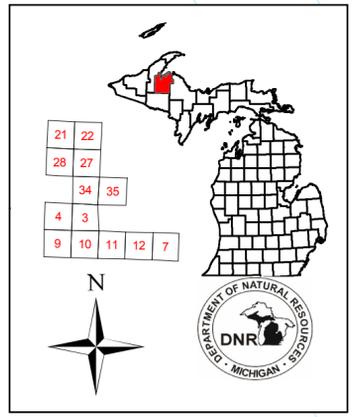
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- 710 - Sand, Soil



Special Conservation Areas & Site Conditions Map

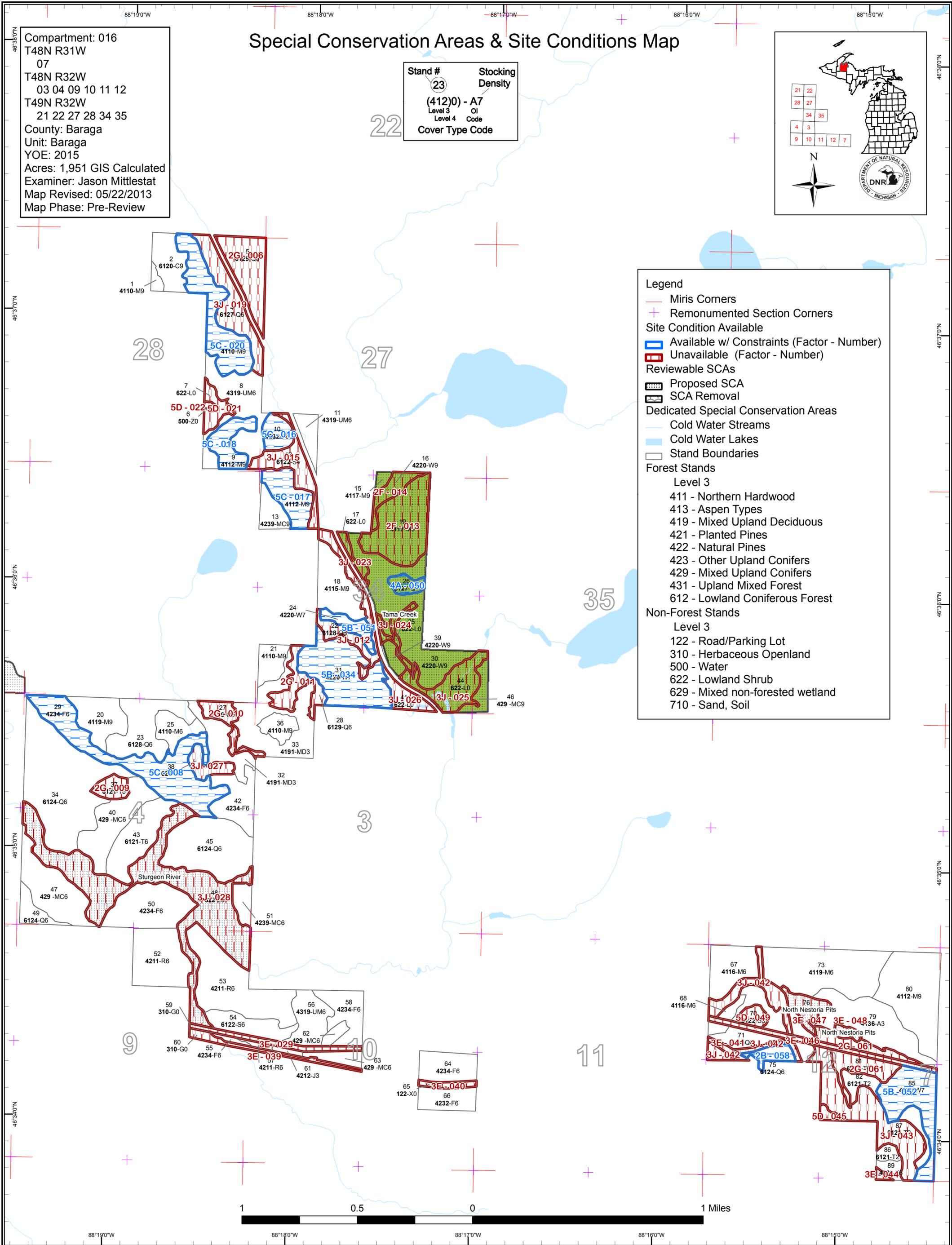
Compartment: 016
 T48N R31W
 07
 T48N R32W
 03 04 09 10 11 12
 T49N R32W
 21 22 27 28 34 35
 County: Baraga
 Unit: Baraga
 YOE: 2015
 Acres: 1,951 GIS Calculated
 Examiner: Jason Mittlestat
 Map Revised: 05/22/2013
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- Remonumented Section Corners
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Reviewable SCAs
- Proposed SCA
- SCA Removal
- Dedicated Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- Stand Boundaries
- Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands
 - Level 3
 - 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 500 - Water
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland
 - 710 - Sand, Soil



88°19'0"W 88°18'0"W 88°17'0"W 88°16'0"W 88°15'0"W

46°33'0"N

46°33'0"N