



**Baraga Forest Management Unit
Compartment Review Presentation
Compartment #4 Entry Year: 2013
Compartment Acreage: 1,555 County: Baraga**

Revision Date: 7/13/2011

Stand Examiner: Fred Hansen

Legal Description: T50N, R33W Sections 18, 20, 21, 28, 30
T51N, R32W Sections 4, 22, 23, 26, 27
T51N, R21W Sections 7, 18
T52N, R32W Section 33

Identified Planning Goals ('Management Area' or 'RMU' # if applicable): Menge Creek

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

Soil and Topography: Soils near Ogemaw Creek and the Upper Falls Rier are AuGres sand and Munising-Yalmer sands and loams on the upland and Arnheim mucky silt loam in the lowlands. Pequaming Bay has Histosols and Aquents, ponded. Soils near the mouth of the Silver River are AuGres sands and Carbondale-Tacoosh mucks. Soils near Silver River Falls are comprised of Keweenaw-Kalkaska comples and Munising-Yalmer sands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Most of the surrounding lands are industrial forest lands with some small private recreation properties interspersed.

Unique, Natural Features: Silver River Falls, the mouth of the Silver River, Little Mountain, and Pequaming are unique to this compartment.

Archeological, Historical, and Cultural Features: None listed.

Special Management Designations or Considerations: None listed.

Watershed and Fisheries Considerations: Parcels in this compartment contain portions of the Falls River, Taylor Creek, Ogemaw Creek, Silver River, Huron Bay and Lake Superior.

Wildlife Habitat Considerations: This compartment encompasses scattered state land holding across much of north central Baraga County, accordingly the wildlife habitats vary as do the management emphasis. The southernmost portion of this compartment is within the historic and currently identified Menge Creek deer yarding complex. This complex is critically important to wintering deer from Baraga, Houghton and possibly Eastern Ontonagon County. Deer in this high snow fall zone are obligate migrators and the thermal cover provide by hemlock stands is essential to overwinter survival. Wildlife management and silvicultural prescriptions here are intended to maintain 70% or greater crown closure within hemlock stands, promote expansion of hemlock inclusions and increase crown closer accordingly, increase landscape connectivity, increase species and structural diversity, and promote hardwood regeneration within the forest matrix for both sustainable timber production and hardwood browse for wintering deer. Other parcels near Pequaming feature harvests intended to promote aspen/birch/fir regeneration. Maintenance of riparian and movement corridor habitats for wildlife species such as American marten, deer, and other wildlife species are important throughout this compartment, especially in the context of the local landscape and the habitat attributes state lands provide converse to adjacent private and corporate ownerships.

Mineral Resource and Development Concerns and/or Restrictions:

A) Sections 18-21 & 28 & 30, T50N-R33W B) Sections 7 & 18, T51N-R31W, C) Sections 4, 22, 23, 26 & 27, T51N-R32W, and D) Section 33, T52N-R32W

This large compartment has been subdivided into areas A, B, C, & D. Surface sediments consist of A) coarse-textured glacial till and an end moraine of coarse-textured till. B) coarse-textured glacial till and glacial sand and gravel and postglacial alluvium. C) coarse-textured glacial till and thin to discontinuous till over bedrock. D) lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet for all. The Precambrian Michigamme Formation underlies areas A-C and the Precambrian Jacobsville Sandstone subcrops below area D. There is not a current economic use for the Michigamme or Jacobsville, but the Jacobsville was used as a building stone in the past. There are many gravel pits near areas A and potential appears to be good. Areas B-C are mostly sand areas. South of area B are abandoned iron mines (Taylor) and a graphite pit. Part of area C was previously leased for metallic exploration. Much of areas A-C are part of or have nearby metallic lease applications. There is no economic oil and gas production in the UP. The State owns additional mineral rights throughout this area.

Vehicle Access: Most of this compartment is accessible from established road systems.

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

Recreational Facilities and Opportunities: Public access sites are located at the Silver River Falls and mouth of the Silver River. Streams and creeks get light to moderate fishing use. This compartment is also used by hunters for small and large game.

Fire Protection: This is not a fire prone area.

Additional Compartment Information:

Stands: 1, 2, 5 and 6 at Pequaming are ERA's. Stands 3 and 4 are being removed since they are not part of the ERA shape.

- **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**

Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneren Age
Aspen	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	16
Cedar	0	0	0	0	0	0	0	0	0	0	0	32	20	7	0	59
Exposed Rock	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hemlock	0	0	0	0	0	0	0	0	0	0	33	8	0	0	52	93
Low-Density Trees	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6
Lowland Deciduous	0	0	0	0	0	0	0	0	0	6	16	5	0	0	0	27
Marsh	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Mixed Upland Deciduous	0	0	0	0	0	27	0	24	33	0	0	0	0	0	14	98
Northern Hardwood	0	0	0	0	0	0	0	96	0	10	12	0	0	0	522	640
Tamarack	0	0	0	0	0	0	0	0	5	0	40	0	0	0	0	45
Upland Conifers	0	0	0	0	0	0	0	0	0	0	25	40	0	0	63	128
Upland Mixed Forest	0	0	0	0	0	24	0	0	0	0	0	0	0	0	39	63
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Total	227	0	16	0	0	50	0	120	38	16	125	91	20	7	691	1400



Table 2 – Proposed Treatment Summaries

Baraga Mgt. Unit
Year of Entry 2013

Compartment 004
Total Compartment Acres: 1400

Acres by Treatment Type

Commercial Harvest - 516	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 18	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Hemlock	15	33	0	0	0	0	0	48
Mixed Upland Deciduous	71	0	0	0	0	0	0	71
Northern Hardwood	0	392	0	0	0	0	0	392
Upland Conifers	23	0	0	0	0	0	0	23
Total	109	425	0	0	0	0	0	534

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3 11004003-Cut	8.6	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	91	Harvest	Clearcut with Reserves	42390 - Mixed Non-Pine Upland Conifers	Cmpt. Review Proposal - Incomplete

Prescription Cut all trees down to 4.6 dbh except pine, hemlock and cedar. North part of stand may be to wet to cut.

Specs:

Other Wildlife: Stand 3 Mixed non-pine upland conifers MC6. Stand is essentially a poor hardwood aspen mix. Most of the birch / fir have fallen out.

Comments: Spruce is ok. Recommend final harvest with retention of all long lived conifers (cedar, hemlock, pine) if present, plus all spruce and fir regeneration up to 4 ½ inches DBH. North half of stand grades off and is wet and maybe inaccessible.

Next

Steps:

4 11004004-Cut	14.1	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	91	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal - Incomplete
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Prescription cut all trees down to 4.6" dbh except pine cedar, and hemlock

Specs:

Other Wildlife: Stand 4 Mixed upland deciduous with conifers MD6. Stand is essentially a poor hardwood aspen mix. Most of the birch / fir have fallen

Comments: out. A few large scattered throughout. Recommend final harvest with retention of all long lived conifers (cedar, hemlock, pine) if present, plus all spruce and fir regeneration up to 4 ½ inches DBH. Buffer stand 40 adequately. Access for entry into stands 3 & 4 is from the south off Aura Rd through PVT.

Next

Steps:

7 11004007-Cut	96.0	4119 - Mixed Northern Hardwoods	High Density Pole	69	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal - Incomplete
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Prescription Thin hardwoods to 70-90 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Complete Marker.

Specs:

Other Wildlife: Stand 7 M6 - Treat with standard hardwood specs but hold all long lived conifers (hemlock, WP, cedar) and oak. Mechanically harvest with tracked equipment in non snow season to get scarification. Leave some yellow birch (over 20") within hemlock inclusions. Attempt to group select around hemlock inclusions (one tree length) to create canopy regeneration gaps targeting light seeded species, primarily hemlock. Plan gap harvests to bridge between hemlock inclusions and individuals. Favor oak where present Residual target BA 80 or greater. Buffer and avoid harvest in deep ravine which functions as wildlife movement pathway. Avoid entry into stand 9.

Next

Steps:

8 11004008-Cut	24.2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	68	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal - Incomplete
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Prescription Cut all species down to 4.6 inches DBH except Oak, Cedar, White Pine, fruit trees and Hemlock if present.

Specs:

Other Wildlife: Stand 8 MD6 - Final harvest but retain all oak, cedar, hemlock, white pine and fruit trees (feral apple). Retain all advanced spruce and

Comments: fir regeneration up to 4 ½ inches DBH as possible.

Next

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
10 11004010-Cut	32.6	4312 - Hemlock, Mixed Deciduous	High Density Pole	99	Harvest	Single Tree Selection	4312 - Hemlock, Mixed Deciduous	Cmpt. Review Proposal - Incomplete

Prescription Thin hardwoods to 70-90 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Complete Marker

Other Comments: Wildlife: Stand 10 M6/H - Hardwood stand has substantial hemlock component. Treat with standard hardwood specs but hold all long lived conifers (hemlock, WP, cedar) and oak. Mechanically harvest with tracked equipment in non snow season to get scarification. Leave some yellow birch (over 20") within hemlock inclusions. Attempt to group select around hemlock inclusions (one tree length) to create canopy regeneration gaps targeting light seeded species, primarily hemlock. Plan gap harvests to bridge between hemlock inclusions and individuals. Stand is on edge of deer yard favor existing/expansion of hemlock canopy conditions. Favor oak where present Residual target BA 80 or greater.

Next Steps:

14 11004014-Cut	122.3	4115 - Y.Birch, Hemlock NH	High Density Pole	99	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal - Incomplete
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Prescription Thin hardwoods to 70-90 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Complete Marker

Other Comments: Wildlife: Stand 14 M6 - Treat with standard hardwood specs but hold all long lived conifers (hemlock, WP, cedar) and oak. Mechanically harvest with tracked equipment in non snow season to get scarification. Leave some yellow birch (over 20") within hemlock inclusions. Attempt to group select around hemlock inclusions (one tree length) to create canopy regeneration gaps targeting light seeded species, primarily hemlock. Plan gap harvests to bridge between hemlock inclusions and individuals. Favor oak where present Residual target BA 80 or greater.

Next Steps:

15 11004015-Cut	36.8	4119 - Mixed Northern Hardwoods	High Density Pole	99	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal - Incomplete
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Prescription Thin hardwoods to 70-90 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Complete Marker

Other Comments: Wildlife: Stand 15 M6 - Treat with standard hardwood specs but hold all long lived conifers (hemlock, WP, cedar) and oak. Most of hemlock around N and W edge of stand. Mechanically harvest with tracked equipment in non snow season to get scarification. Leave some yellow birch (over 20") within hemlock inclusions. Attempt to group select around hemlock inclusions (one tree length) to create canopy regeneration gaps targeting light seeded species, primarily hemlock. Plan gap harvests to bridge between hemlock inclusions and individuals. Favor oak where present Residual target BA 80 or greater.

Next Steps:

19 11004019-Cut1	5.6	42350 - Upland Hemlock	High Density Pole	107	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal - Incomplete
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Prescription Cut all species down to 4.6 inches DBH except Oak, Cedar, White Pine, and Hemlock if present. No conifers under 4.6" shall be cut.

Other Comments: Wildlife: . Stand is on edge of deer yard and is currently providing thermal cover benefits. Stand 19 MC6 - Partial treatment. Hold, no entry to H type inclusion where canopy is significant (>5 acres). Stand has existing mid story hemlock canopy of advanced regeneration present plus H over story. Stand is on edge of deer yard and is currently providing thermal cover benefits. Rest of stand can be treated with reserves (retain all oak, cedar, hemlock, and white pine. Retain all advanced spruce and fir regeneration up to 4 1/2 inches DBH as possible). Buffer stream corridor to south adequately.

Next Steps:



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	11004023-Cut	14.1	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	91	Harvest	Clearcut with Reserves	42380 - Non Pine Upland Conifer, Mixed Deciduous	Cmpt. Review Proposal - Incomplete

Prescription Cut all species down to 4.6 inches DBH except Oak, Cedar, White Pine, and Hemlock if present. No trees under 4.6" DBH are to be harvested.
Specs:

Other Wildlife: Stand 23 MC6 - Partial treatment. Hold, no entry to H type inclusion where canopy is significant (>5 acres). Stand has existing mid story hemlock canopy of advanced regeneration present plus H over story. Stand is on edge of deer yard and is currently providing thermal cover benefits. Rest of stand can be treated with reserves (retain all oak, cedar, hemlock, and white pine. Retain all advanced spruce and fir regeneration up to 4 ½ inches DBH as possible). Buffer stream corridor to south adequately.

Next
Steps:

37	11004037-Cut	9.9	42350 - Upland Hemlock	High Density Pole	102	Harvest	Clearcut with Reserves	42350 - Upland Hemlock	Cmpt. Review Proposal - Incomplete
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Prescription Cut all species down to 4.6 inches DBH except Oak, Cedar, White Pine and Hemlock if present.
Specs:

Other Wildlife: Stand 37 MD6 - Stand is along Skanee Rd and will be visible from roadway. Aesthetics should be considered. Stand is part of stand 47MD6. Stand is diverse in structure and composition and has house/business directly adjacent. Recommend hold for aesthetic reasons or if harvested retain all oak, cedar, hemlock, and white pine. Retain all advanced spruce and fir regeneration up to 4 ½ inches DBH as possible.

Next
Steps:

39	11004039-Cut	18.4	4115 - Y.Birch, Hemlock NH	High Density Pole	99	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal - Incomplete
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Prescription Thin hardwoods to 70-90 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Complete Marker

Other Wildlife:
Comments: Stand 39 M6- Treat with standard hardwood specs but hold all long lived conifers (hemlock, WP, cedar) and oak. Avoid entry into lowland area / drop off along Taylor creek. Mechanically harvest with tracked equipment in non snow season to get scarification. Leave some yellow birch (over 20") within hemlock inclusions. Attempt to group select around hemlock inclusions (one tree length) to create canopy regeneration gaps targeting light seeded species, primarily hemlock. Plan gap harvests to bridge between hemlock inclusions and individuals. Residual target BA 80 or greater.

Next
Steps:

46	11004046-Cut	9.2	4115 - Y.Birch, Hemlock NH	High Density Pole	99	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal - Incomplete
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Prescription Thin hardwoods to 70-90 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Complete Marker

Other Wildlife: Stand 46 E6 (M6) - Treat with standard hardwood specs but hold all long lived conifers (hemlock, WP, cedar) and oak. Mechanically harvest with tracked equipment in non snow season to get scarification. Leave some yellow birch (over 20") within hemlock inclusions. Attempt to group select around hemlock inclusions (one tree length) to create canopy regeneration gaps targeting light seeded species, primarily hemlock. Plan gap harvests to bridge between hemlock inclusions and individuals. Retain all advanced spruce and fir regeneration up to 4 ½ inches DBH as possible. Residual target BA 80 or greater.

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47 11004047-Cut	32.7	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	71	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal - Incomplete

Prescription Cut all species down to 4.6 inches DBH except Oak, Cedar, White Pine, Red Pine and Hemlock if present.

Specs:

Other Wildlife: Stand 47 MD6 - Stand is along Skanee Rd and will be visible from roadway. Aesthetics should be considered. Final harvest but retain
Comments: all oak, cedar, hemlock, and white pine. Retain all advanced spruce and fir regeneration up to 4 ½ inches DBH as possible. Harvest is east part of original stand 37.

Next
Steps:

48 11004048-Cut	94.1	6113 - Lowland Maple	High Density Pole	99	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal - Incomplete
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Prescription Cut all species down to 4.6 inches DBH except Oak, Cedar, White Pine, Red Pine and Hemlock if present.

Specs:

Other Wildlife: Stand 48 E6 (M6) - Treat with standard hardwood specs but hold all long lived conifers (hemlock, WP, cedar) and oak. Mechanically
Comments: harvest with tracked equipment in non snow season to get scarification. Leave some yellow birch (over 20") within hemlock inclusions. Attempt to group select around hemlock inclusions (one tree length) to create canopy regeneration gaps targeting light seeded species, primarily hemlock. Plan gap harvests to bridge between hemlock inclusions and individuals. Retain all advanced spruce and fir regeneration up to 4 ½ inches DBH as possible. Residual target BA 80 or greater.

Next
Steps:

**Total Treatment
Acreage Proposed: 518.6**

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43 11004043-Cut	15.7	4115 - Y.Birch, Hemlock NH	High Density Pole	99	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal - Incomplete

Prescription Thin hardwoods to 70-90 BA. Favor oak, white pine and hemlock. Oak should be released on 3 sides to an average BA of 60. Where 30 BA or more of hemlock occurs, thin to no less than 100 BA. Retain all snags that do not pose a safety hazard. For further assistance refer to The Complete Marker

Other Comment: Wildlife: Stand 43 M6 - Treat with standard hardwood specs but hold all long lived conifers (hemlock, WP, cedar) and oak. Avoid entry into lowland area along Taylor creek. Mechanically harvest with tracked equipment in non snow season to get scarification. Leave some yellow birch (over 20") within hemlock inclusions. Attempt to group select around hemlock inclusions (one tree length) to create canopy regeneration gaps targeting light seeded species, primarily hemlock. Plan gap harvests to bridge between hemlock inclusions and individuals. Residual target BA 80 or greater. Stand is limited factor access on west side of Taylor Creek

Next Steps:

Limiting Factor and No. Treatment Reason 2F: Too wet

Total Treatment Acreage Proposed: 15.7

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Baraga Mgt. Unit

5 – Forested Stands

Compartment: 004
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6121 - Tamarack	Medium Density	5.0	78		
3	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	8.6	91	81-110	
4	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.1	Uneven Age	111-140	
5	6121 - Tamarack	Medium Density	40.1	91		
7	4119 - Mixed Northern Hardwoods	High Density Pole	96.0	69	111-140	
8	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	24.2	68	111-140	
9	429 - Mixed Upland Conifers	High Density Pole	32.7	Uneven Age	111-140	
10	4312 - Hemlock, Mixed Deciduous	High Density Pole	32.6	99	141-170	
12	4319 - Mixed Upland Forest	High Density Pole	39.2	Uneven Age	81-110	Falls River Hdwd cut in 2004
14	4115 - Y.Birch, Hemlock NH	High Density Pole	122.3	Uneven Age	111-140	
15	4119 - Mixed Northern Hardwoods	High Density Pole	36.8	Uneven Age	111-140	
16	4119 - Mixed Northern Hardwoods	High Density Pole	17.6	Uneven Age	81-110	areas with small poles where aspen had been removed
17	4319 - Mixed Upland Forest	High Density Pole	23.5	47	51-80	
19	42350 - Upland Hemlock	High Density Pole	7.9	107	111-140	
20	6118 - Lowland Deciduous with Cedar	High Density Pole	15.8	98	81-110	wet
21	4199 - Other Mixed Upland Deciduous	High Density Pole	9.0	47	1-50	
22	4115 - Y.Birch, Hemlock NH	High Density Pole	11.8	99	81-110	
23	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	14.1	91	81-110	

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Baraga Mgt. Unit

5 – Forested Stands

Compartment: 004
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4134 - Aspen, Spruce/Fir	High Density Sapling	15.9	17		Bovine Birch cut in 1994
26	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	39.8	102	81-110	E6
27	6118 - Lowland Deciduous with Cedar	High Density Pole	5.4	102	1-50	wet
28	42380 - Non Pine Upland Conifer, Mixed Deciduous	Medium Density Pole	2.5	91	1-50	
29	4119 - Mixed Northern Hardwoods	High Density Pole	19.3	Uneven Age	81-110	
31	6120 - Lowland Cedar	High Density Pole	19.9	112		
33	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	4.1	Uneven Age	141-170	
34	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	17.8	42	51-80	
37	42350 - Upland Hemlock	High Density Pole	9.9	Uneven Age	141-170	
39	4115 - Y.Birch, Hemlock NH	High Density Pole	25.6	Uneven Age	141-170	Taylor creek Hdwd cut in 1994
40	6120 - Lowland Cedar	High Density Pole	6.6	120	81-110	floodplain
41	42350 - Upland Hemlock	High Density Log	8.7	Uneven Age	141-170	
42	4115 - Y.Birch, Hemlock NH	High Density Pole	9.7	82	141-170	
43	4115 - Y.Birch, Hemlock NH	High Density Pole	15.7	Uneven Age	111-140	
44	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	5.8	103	1-50	
45	4115 - Y.Birch, Hemlock NH	High Density Pole	15.2	Uneven Age	81-110	Falls river Hdwd cut in 2004
46	4115 - Y.Birch, Hemlock NH	High Density Pole	9.2	Uneven Age	111-140	
47	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	32.7	71	81-110	

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Baraga Mgt. Unit

5 – Forested Stands

Compartment: 004

Year of Entry: 2013



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4115 - Y.Birch, Hemlock NH	High Density Pole	94.1	Uneven Age	111-140	Ogemaw Creek Hdwd cut in 1992
50	6120 - Lowland Cedar	High Density Pole	32.0	104	81-110	floodplain
51	6115 - Lowland Ash	High Density Pole	5.8	82	81-110	
53	4115 - Y.Birch, Hemlock NH	High Density Pole	73.2	Uneven Age	81-110	Falls river Hdwd cut in 2004
54	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	25.7	Uneven Age		est. ba=80
56	4115 - Y.Birch, Hemlock NH	High Density Pole	93.5	Uneven Age	81-110	Ogemaw Creek Hdwd cut in 2004
57	4312 - Hemlock, Mixed Deciduous	High Density Pole	33.6	Uneven Age	81-110	Falls River Hdwd cut in 2004



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3303 - Mixed Low Density Trees	56.2	No	Unspecified	
6	623 - Emergent Wetland	87.7	No	Unspecified	
11	50 - Water	7.7	No	Unspecified	
13	720 - Exposed Rock	1.1	No	Unspecified	
18	3302 - Low Density Conifer Trees	11.9	No	Unspecified	
25	6230 - Cattail	6.0	No	Unspecified	
30	50 - Water	40.2	No	Unspecified	
32	122 - Road/Parking Lot	1.3	No	Unspecified	
35	50 - Water	2.9	No	Unspecified	Silver River
36	50 - Water	3.0	No	Unspecified	
38	50 - Water	2.5	No	Unspecified	Silver River
49	122 - Road/Parking Lot	4.4	No	Unspecified	
52	50 - Water	1.0	No	Unspecified	
55	122 - Road/Parking Lot	1.2	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
3	SCA Removal	11004003-SCA Removal	8.6	The stand was mapped in OI as being part of the Pequaming ERA, after field checking and checking against the current ERA shape, the stand doesnt fit the criteria to be a SCA.
4	SCA Removal	11004004-SCA Removal	14.1	The stand was mapped in OI as being part of the Pequaming ERA, after field checking and checking against the current ERA shape, the stand doesnt fit the criteria to be a SCA.
40	Unique Site - SCA	11004040-SCA	6.6	Listed as SC8 in OI Lake Superior Lakeshore, should be kept as a SCA for riparian area protection
50	Unique Site - SCA	11004050-SCA	32.0	Listed as SC8 in OI Lake Superior Lakeshore, should be kept as a SCA for riparian area protection



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

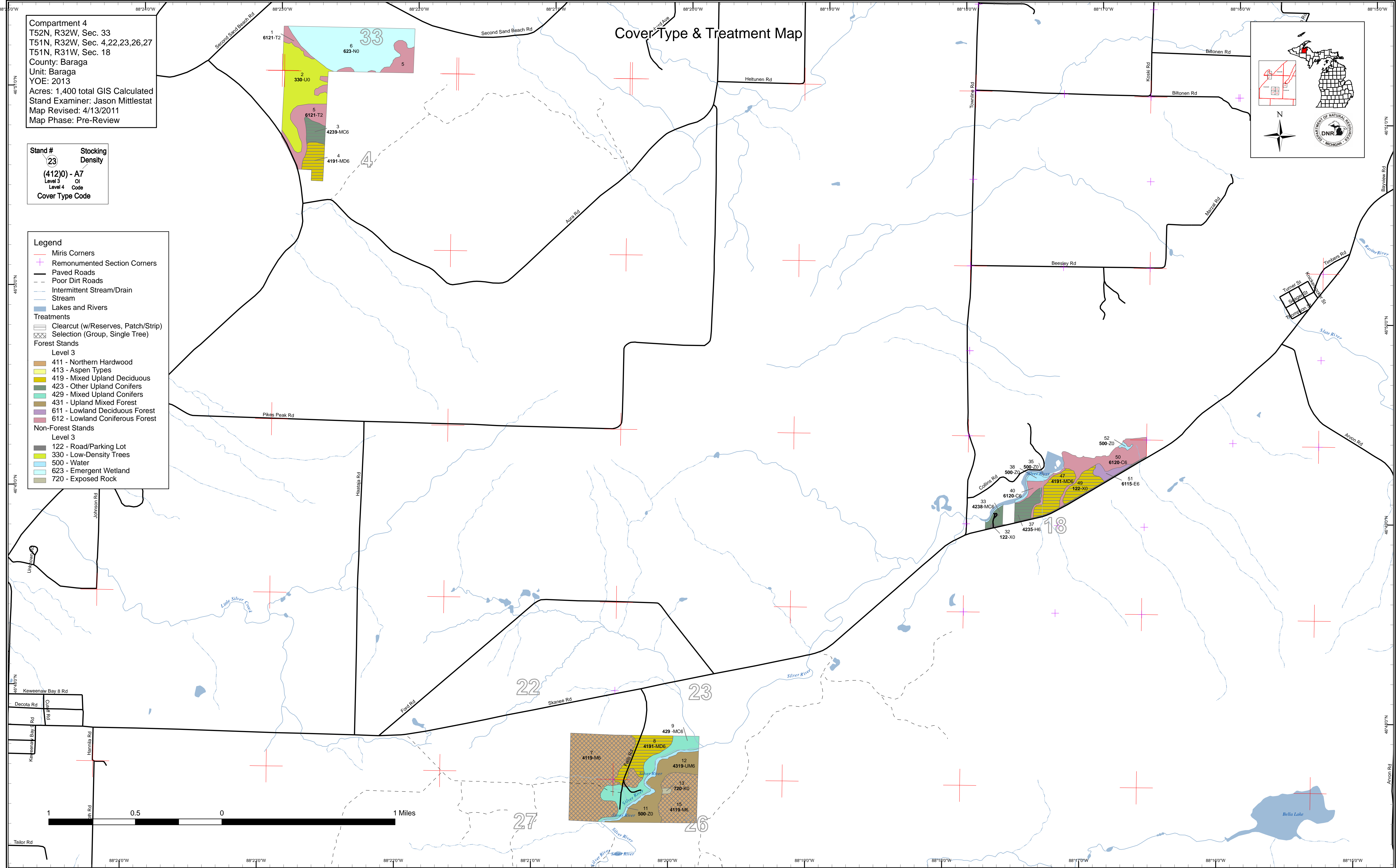
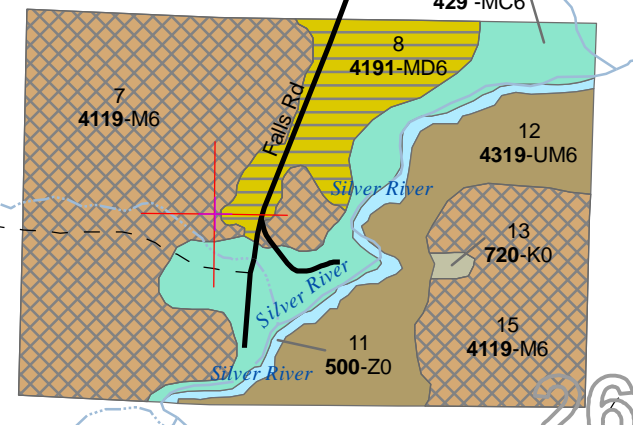
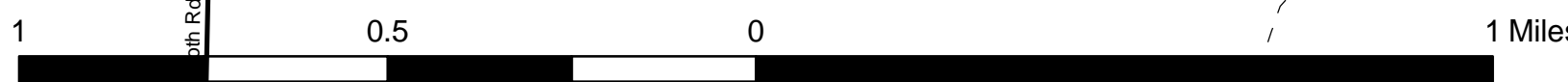
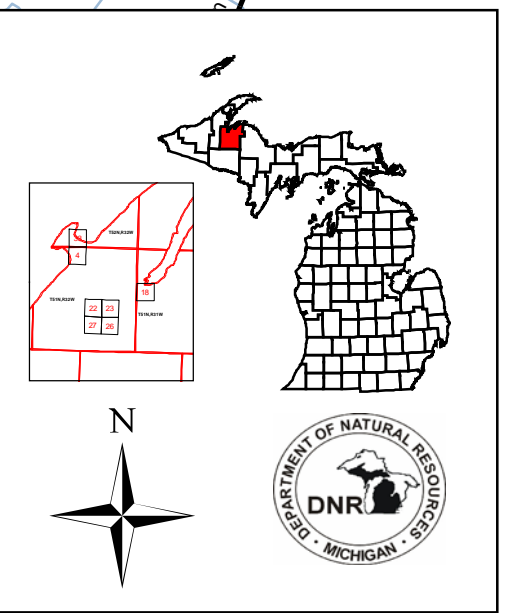
Conservation Area	Type	Description
HCVA	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). This is an inactive program with no new areas currently under consideration by the DEQ.
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.
SCA	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
SCA	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.

Cover Type & Treatment Map

Compartment 4
 T52N, R32W, Sec. 33
 T51N, R32W, Sec. 4,22,23,26,27
 T51N, R31W, Sec. 18
 County: Baraga
 Unit: Baraga
 YOE: 2013
 Acres: 1,400 total GIS Calculated
 Stand Examiner: Jason Mittlestat
 Map Revised: 4/13/2011
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
 - Remonumented Section Corners
 - Paved Roads
 - Poor Dirt Roads
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
- Treatments**
- 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
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 122 - Road/Parking Lot
 - 330 - Low-Density Trees
 - 500 - Water
 - 623 - Emergent Wetland
 - 720 - Exposed Rock

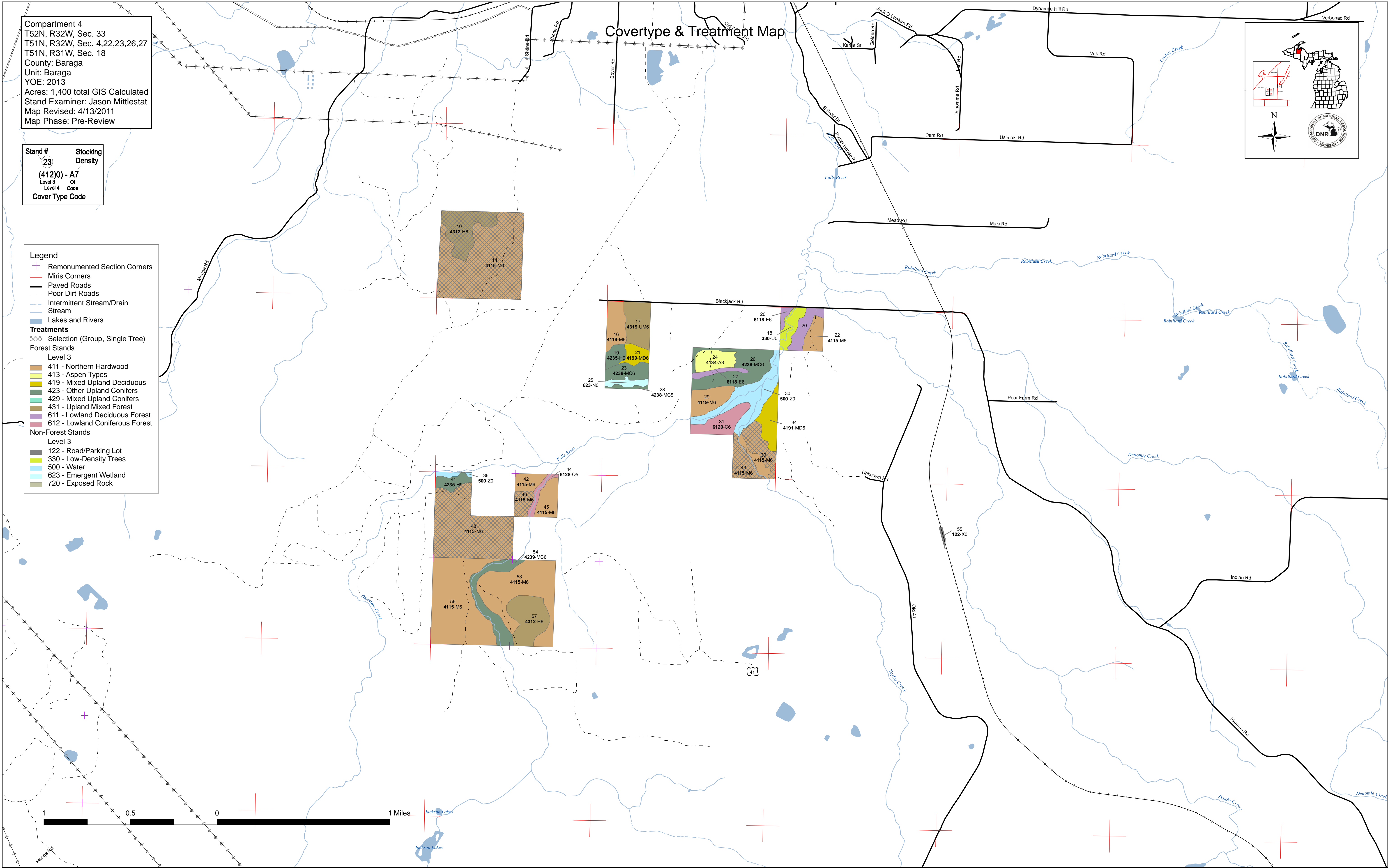
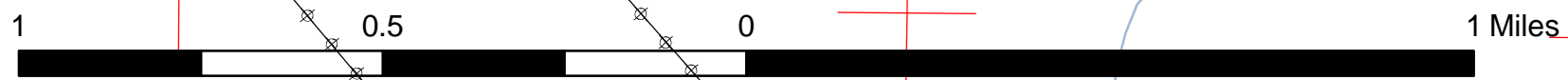
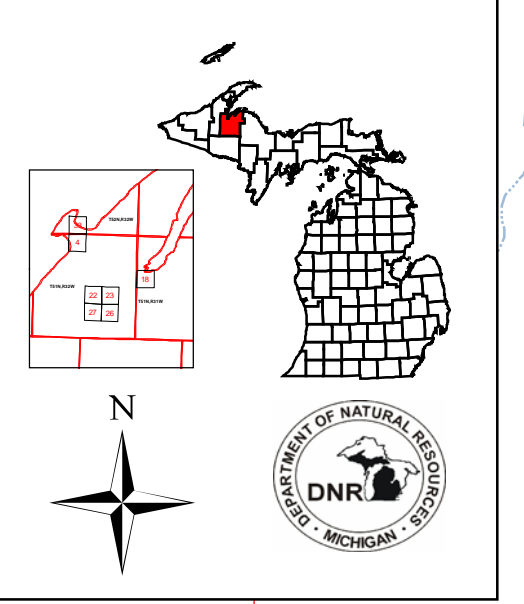


Coverture & Treatment Map

Compartment 4
 T52N, R32W, Sec. 33
 T51N, R32W, Sec. 4,22,23,26,27
 T51N, R31W, Sec. 18
 County: Baraga
 Unit: Baraga
 YOY: 2013
 Acres: 1,400 total GIS Calculated
 Stand Examiner: Jason Mittlestat
 Map Revised: 4/13/2011
 Map Phase: Pre-Review

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

- Legend**
- ✚ Remonumented Section Corners
 - ✚ Miris Corners
 - Paved Roads
 - - - Poor Dirt Roads
 - · - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
- Treatments**
- ▨ Selection (Group, Single Tree)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
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 - 612 - Lowland Coniferous Forest
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- Level 3
- 122 - Road/Parking Lot
 - 330 - Low-Density Trees
 - 500 - Water
 - 623 - Emergent Wetland
 - 720 - Exposed Rock

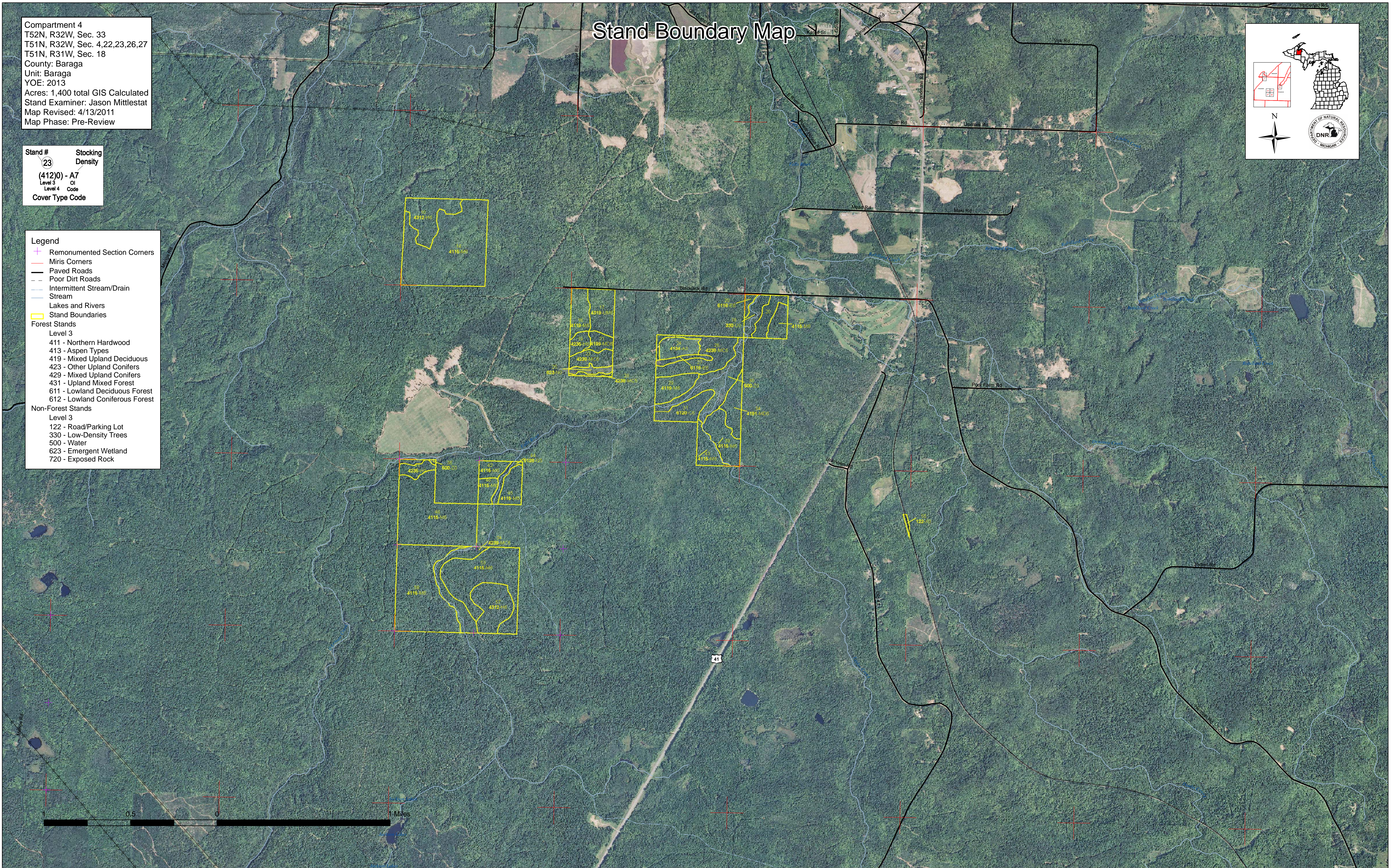
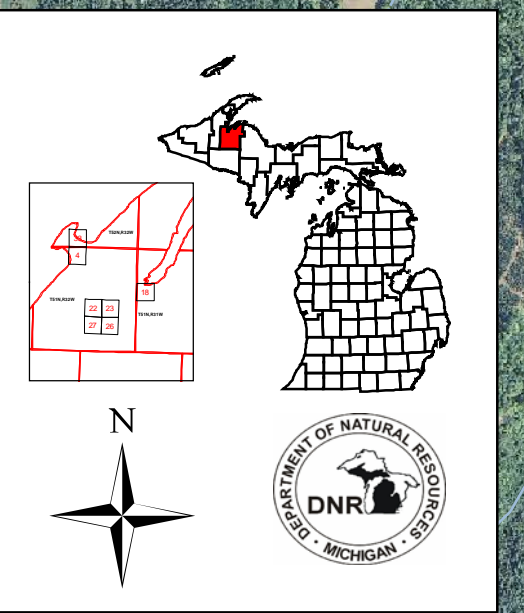


Stand Boundary Map

Compartment 4
 T52N, R32W, Sec. 33
 T51N, R32W, Sec. 4,22,23,26,27
 T51N, R31W, Sec. 18
 County: Baraga
 Unit: Baraga
 YOE: 2013
 Acres: 1,400 total GIS Calculated
 Stand Examiner: Jason Mittlestat
 Map Revised: 4/13/2011
 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
 - Paved Roads
 - - - Poor Dirt Roads
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
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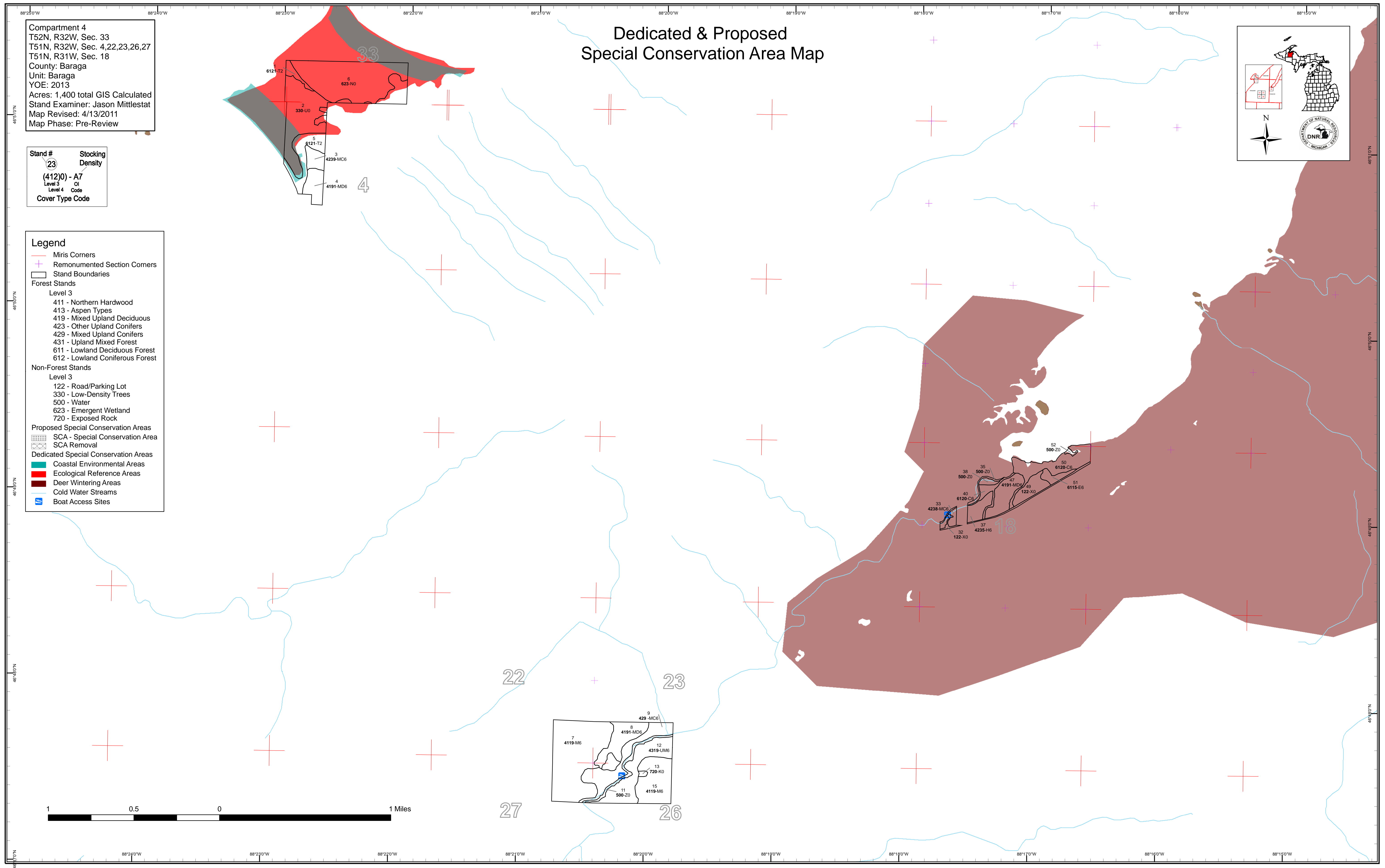
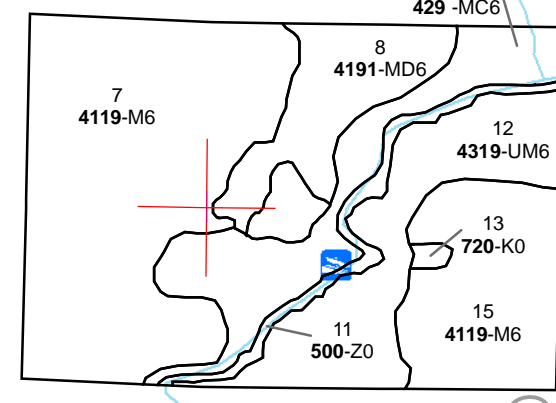
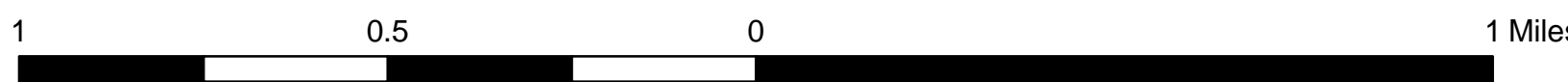
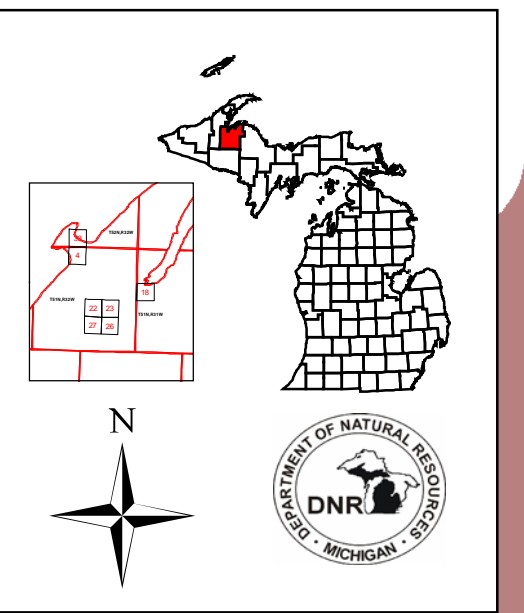


Dedicated & Proposed Special Conservation Area Map

Compartment 4
T52N, R32W, Sec. 33
T51N, R32W, Sec. 4,22,23,26,27
T51N, R31W, Sec. 18
County: Baraga
Unit: Baraga
YOE: 2013
Acres: 1,400 total GIS Calculated
Stand Examiner: Jason Mittlestat
Map Revised: 4/13/2011
Map Phase: Pre-Review

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

- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Stand Boundaries
 - Forest Stands**
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 - Level 3
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 - 500 - Water
 - 623 - Emergent Wetland
 - 720 - Exposed Rock
 - Proposed Special Conservation Areas**
 - ▨ SCA - Special Conservation Area
 - ▨ SCA Removal
 - Dedicated Special Conservation Areas**
 - Coastal Environmental Areas
 - Ecological Reference Areas
 - Deer Wintering Areas
 - Cold Water Streams
 - Boat Access Sites



Dedicated and Proposed Special Conservation Areas

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 T51N, R31W, Sec. 18
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 Unit: Baraga
 YOE: 2013
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 Map Revised: 4/13/2011
 Map Phase: Pre-Review

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

- Legend**
- ⊕ Remonumented Section Corners
 - Miris Corners
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
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