



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 33

Entry Year 2015

Acreage: 1,324

County Marquette

Management Area: Chain Lakes Moraine

Revision Date:

Stand Examiner: Kevin LaBumbard, Ben Travis

Legal Description:

T45N R26W, Sections 4,9,16

Identified Planning Goals:

To improve the quality and diversity of State forests and wildlife through proper habitat management, while protecting the riparian values of our wetlands and waters.

Soil and topography:

Terrain ranges from fairly level to very steep with high ridges, sink holes, and drainages. Soils are primarily excessively drained sands including Rubicon, Croswell, Munising, and Kalkaska with Tawas, Lupton, and Carbondale mucks along the drainages.

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

Primarily state land to the south and west with extensive private ownership on the east side.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

SCA's along drainages and Bear Creek.

Watershed and Fisheries Considerations:

Bear Creek and tributaries. The Middle Branch of the Escanaba River.

Wildlife Habitat Considerations:

Compartment 33 is found within the Chain Lakes Management Area; which is a Disintegration Moraine in Southwestern Marquette County. The State Forest covers about 84,600 acres and is mostly contiguous. State Forest Lands are the major ownership in this vicinity. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. Major forest cover types include Aspen, Mixed Lowland Conifer, and Jack Pine. In general, this area has a mid-range site quality. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. Some of the most significant wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). Wildlife Division would like to increase the oak resource within this management area and to optimize acorn production. This management area represents approximately ¼ of the oak resource on WUP state forest. In addition to promoting mast crops another priority is to maintain or increase wildlife corridors especially along riparian corridors.

The following have been identified as featured species for the Chain Lakes Management Area: Black bear, Gray Jay, Pileated Woodpecker, Northern Goshawk, Red Crossbill. However, the featured species concept does not preclude the management for other wildlife species within a particular MA, rather it is simply intended to be as a tool to help prioritize or focus habitat management.

For lands purchased with Pittman–Robertson Act or Game and Fish funds, the primary objective of vegetative management must be wildlife restoration.

Mineral Resource and Development Concerns and/or Restrictions

Sections 4, 9 & 16, T45N-R26W, Marquette County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The

glacial drift thickness varies between 100 and 200 feet. Archean Granite/Gneiss subcrops below the glacial drift. Some of the granite/gneiss has been/could be used as dimension stone. Gravel pits are located one mile to the south and there should be some potential. Abandoned iron mines are located four miles to the east. This area was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Good from Co. Rd 565, Crooked Lake Rd and various 2-tracks.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Bass Lake motorcycle trail runs thru section 16.

Fire Protection:

This compartment has a moderate risk for fire but access is good.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatment Map

Compartment: 033
 T45N R26W Sec. 4, 9, 16
 County: Marquette
 Unit: Gwinn
 YOE: 2015
 Acres: 1,324 GIS Calculated
 Examiner: Kevin LaBumbard, Ben Travis
 Map Revised: 08/08/2013
 Map Phase: Pre-Review

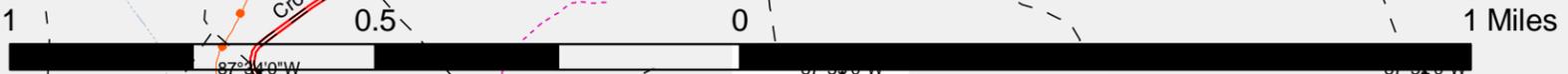
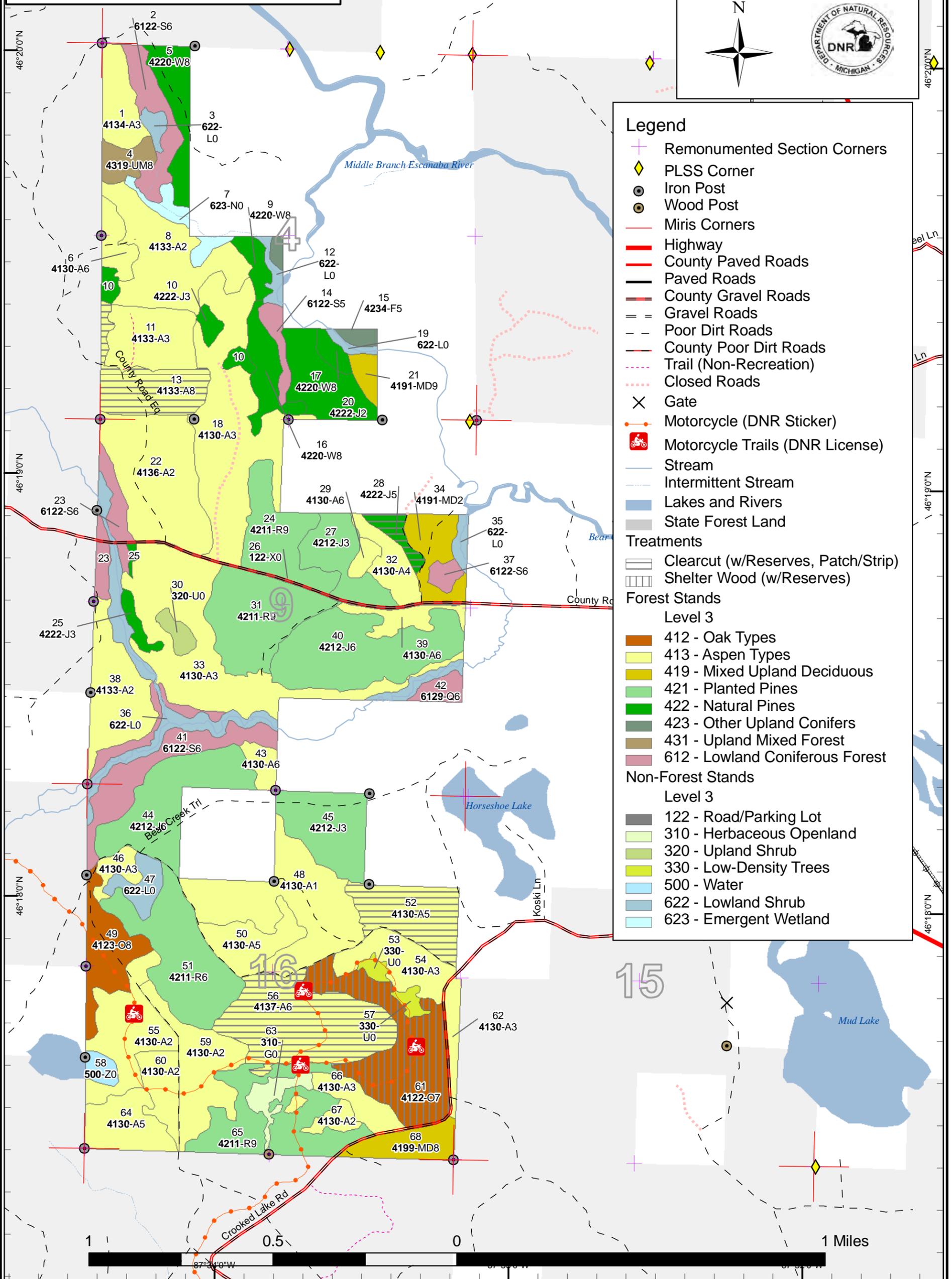
Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

4
 9
 16



Legend

- ✚ Remonumented Section Corners
- ◆ PLSS Corner
- Iron Post
- Wood Post
- 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
- ✕ Gate
- Motorcycle (DNR Sticker)
- Motorcycle Trails (DNR License)
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Treatments**
- ▨ Clearcut (w/Reserves, Patch/Strip)
- ▨ Shelter Wood (w/Reserves)
- Forest Stands**
- Level 3
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

Compartment: 033
 T45N R26W Sec. 4, 9, 16
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Stand #
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Stocking Density
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Legend

- ⊕ Remonumented Section Corners
- ◆ PLSS Corner
- ⊙ Iron Post
- ⊙ Wood Post
- Miris Corners
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- 🏍 Motorcycle Trails (DNR License)
- Stream
- Intermittent Stream
- ▭ Stand Boundaries

Forest Stands

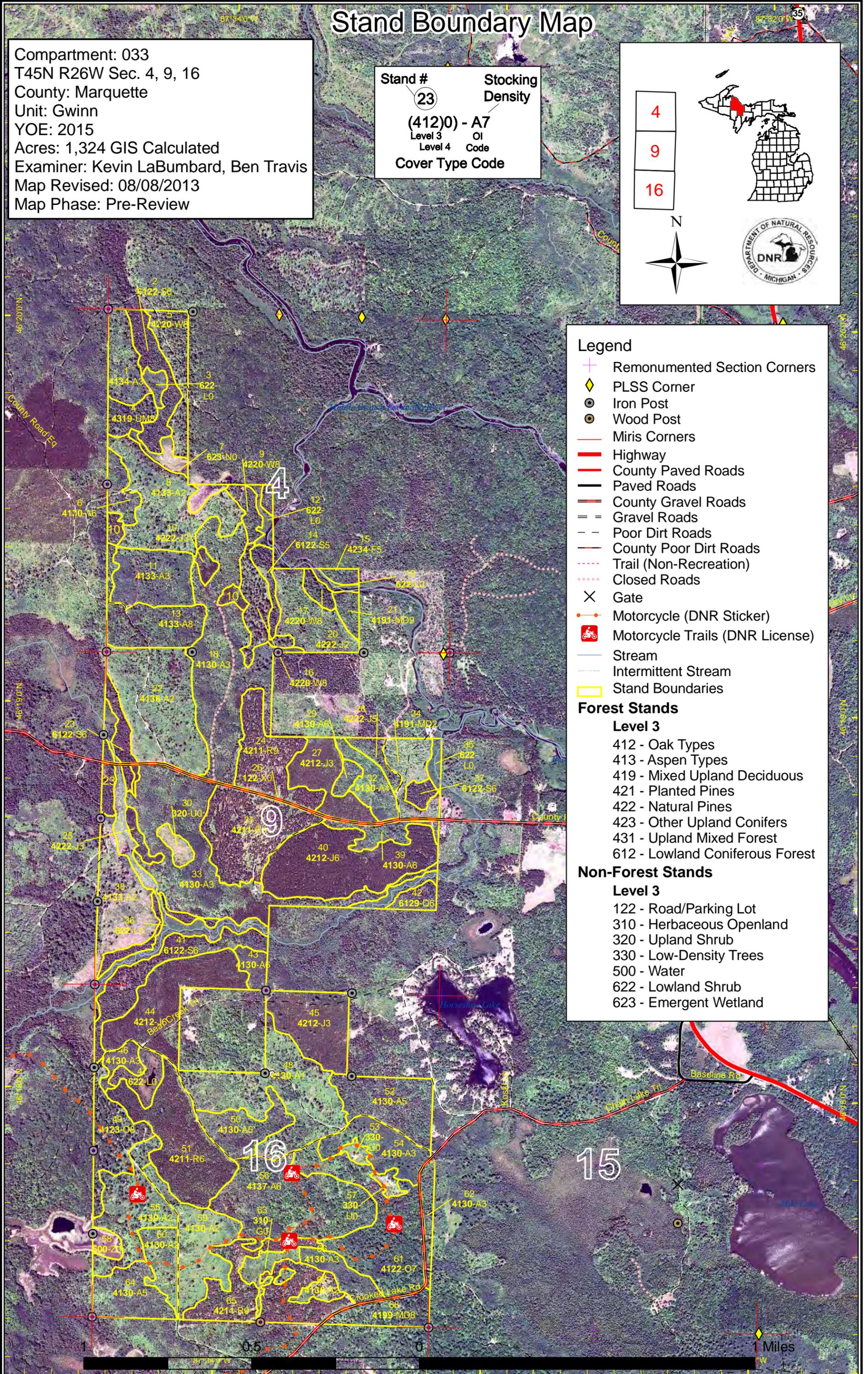
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- 412 - Oak Types
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Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
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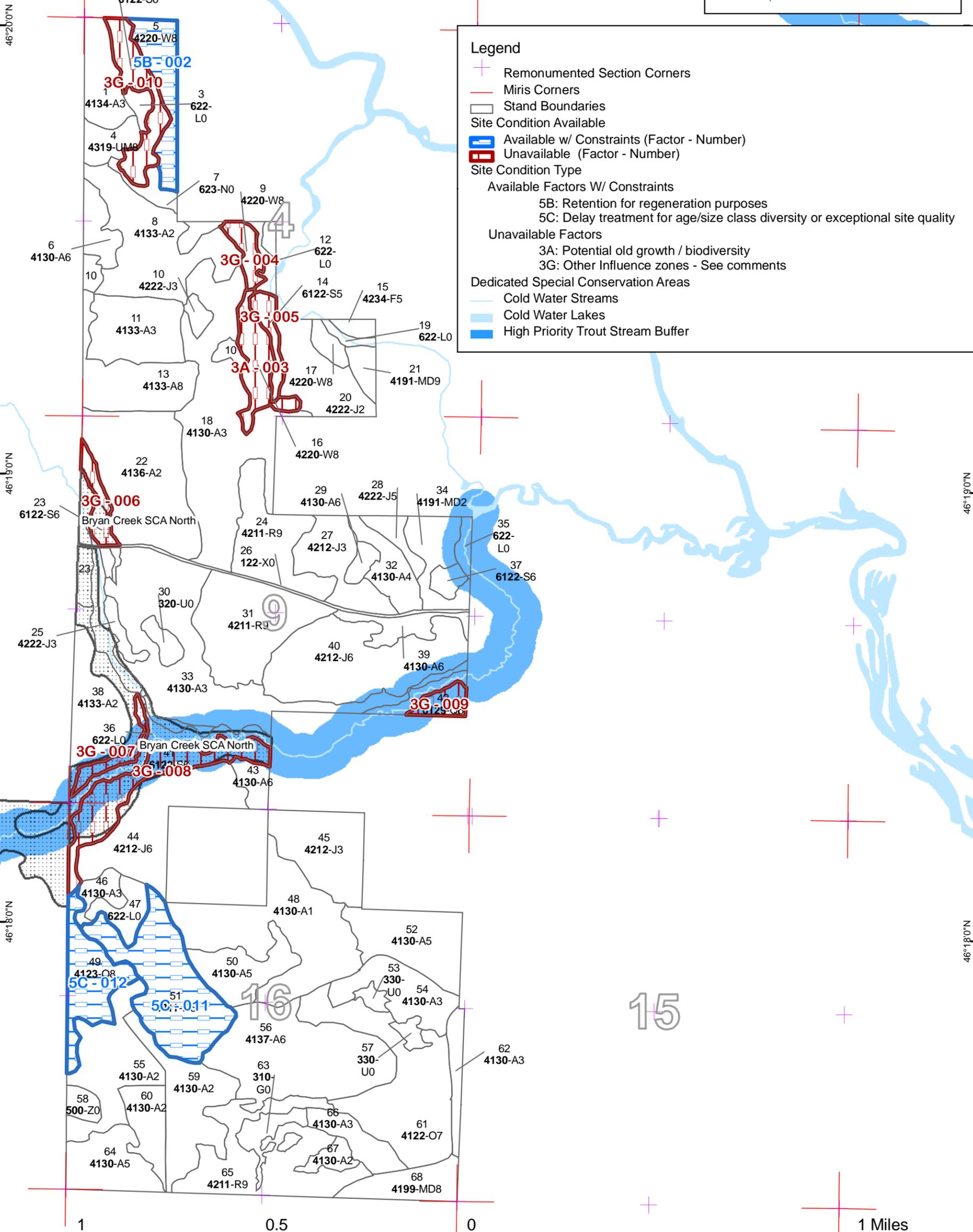


Special Conservation Areas & Site Conditions⁰ Map

Compartment: 033
 T45N R26W Sec. 4, 9, 16
 County: Marquette
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 Map Revised: 08/08/2013
 Map Phase: Pre-Review

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

4
 9
 16



Legend

- ✚ Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Site Condition Available
- ▭ Available w/ Constraints (Factor - Number)
- ▭ Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
 - 5B: Retention for regeneration purposes
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
 - 3A: Potential old growth / biodiversity
 - 3G: Other Influence zones - See comments
- Dedicated Special Conservation Areas
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer

1 0.5 0 1 Miles
 87°34'0"W

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 033 Year of Entry 2015

Kevin LaBumbard : Examiner



	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	254	85	150	39	32	0	25	84	0	0	0	0	0	0	669
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	71	52	53	0	0	0	0	5	0	0	0	0	0	182
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
Lowland Shrub	50	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	51	4	0	0	16	0	71
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	15	0	0	0	0	0	0	0	14	0	0	0	0	0	34
Oak	0	0	0	0	0	0	0	0	72	0	0	0	0	0	72
Red Pine	0	0	44	0	108	0	0	0	0	0	0	0	0	0	153
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	8	0	0	0	0	8
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	0	42	0	0	0	0	42
Total	352	156	247	92	140	0	25	89	134	68	0	0	16	0	1324



Report 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2015

Compartment 033
Total Compartment Acres: 1,324

Acres by Treatment Type

Commercial Harvest - 165 Tree Planting - 5 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	109	0	0	0	0	0	109
Natural Pines	5	0	0	0	0	0	5
Oak Types	0	0	0	50	0	0	50
Total	115	0	0	50	0	0	165



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	32033013-Cut	25.3	4133 - Aspen, Mixed Pine	Medium Density Log	68		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species except white pine, red pine, and red oak.										
<u>Specs:</u>										
<u>Other</u> Large big tooth aspen, (especially on the east side of the ridge) and white pine sawtimber over good wp sapling regen. West side of the stand is										
<u>Comments:</u> smaller, thinner with a higher concentration of red maple, white birch, and quaking aspen. Starting to lose the big tooth. Occasional large red oak.										
<u>Next</u> Monitor regeneration per work instructions.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
28	32033028-Cut	5.4	42220 - Natural Jack Pine	Medium Density Pole	85		Harvest	Clearcut	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut all jack pine, black spruce, and aspen.										
<u>Specs:</u>										
<u>Other</u> Set up in 2005, left uncut. Comments from OI: J6A4S4M4, stand was not cut as planned, the jobber, Joe LaFleur, let the sale go unfinished.										
<u>Comments:</u> East part of stand was cut in 2008.										
<u>Next</u> Scarify for natural regeneration of jack pine and black spruce. Any mix of these species will be acceptable regeneration. If natural regeneration										
<u>Steps:</u> doesnt work, trench and seed to jack pine.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
52	32033052-Cut	27.5	4130 - Aspen	Medium Density Pole	76		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u>										
<u>Specs:</u>										
<u>Other</u> Aspen, jack pine, red maple stand preped and under contract to Minerick # 32-020-11-01.										
<u>Comments:</u>										
<u>Next</u> Monitor regeneration per work instructions.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
56	32033056-Cut	56.4	4137 - Aspen, Birch	High Density Pole	79		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u>										
<u>Specs:</u>										
<u>Other</u> Stand prepared and sold to Minerick under contract # 32-020-11-01.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61 32033061-Cut	50.5	4122 - Oak, Pine	Low Density Log	83	81-110	Harvest	Shelter Wood with Reserves	412 - Oak	Cmpt. Review Proposal

Prescription Harvest overstory oak to a residual of 30-50 BA retaining any white and red pine. Aggregate patch retention of some larger bigtooth aspen.
Specs:

Other Good quality red oak with white pine sawtimber. Fairly decent oak seedlings mixed with the red maple and white pine understory. Numerous wp
Comments: seedlings less than 3' tall. One small clump of big tooth aspen. Treated under contract #10-95-01. Per prereview, this stand is to be revisited by wildlife prior to any decisions being made.

Next Monitor regeneration.
Steps:

Proposed
Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 165.2**



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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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#Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

**Total Treatment
Acreage Proposed: 0**

Report 5 – Site Conditions

Gwinn Mgt. Unit

Compartment 033

aBumbard, Ben Travis : Examiner

Year of Entry 2015

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions				
				No	5C	5B	3G	3A
669	669		Aspen	669				
182	182		Jack Pine	182				
5		5	Lowland Conifers				5	
71	12	59	Lowland Spruce/Fir	12			59	
34	34		Mixed Upland Deciduous	34				
72	72		Oak	50	22			
153	153		Red Pine	108	44			
8	8		Upland Mixed Forest	8				
5	5		Upland Spruce/Fir	5				
41	21	20	White Pine	4		17	6	14
1,241	1,156	84	Total Forested Acres	1,073	66	17	70	14
	93%	7%	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
002	Available	5B: Retention for regeneration purposes	17				
Comments: White pine regeneration doing fine, no treatment needed.							
003	Not Available	3A: Potential old growth / biodiversity	14				
Comments: Beautiful white pine with many legacy sized trees. Occasional large red pine. SE corner has dense almost impenetrable W3 10-20' tall. Northern part has a higher ba, less pine regen and heavier to red maple stump sprouting.							
004	Not Available	3G: Other Influence zones - See comments	6				
Comments: Wildlife riparian corridor.							

Report 5 – Site Conditions

Gwinn Mgt. Unit

Compartment 033

_aBumbard, Ben Travis : Examiner

Year of Entry 2015

005	Not Available	3G: Other Influence zones - See comments	6	
Comments: Wildlife riparian corridor.				
006	Not Available	3G: Other Influence zones - See comments	7	
Comments: Wildlife riparian corridor.				
007	Not Available	3G: Other Influence zones - See comments	5	
Comments: Wildlife riparian corridor.				
008	Not Available	3G: Other Influence zones - See comments	25	
Comments: Wildlife riparian corridor.				
009	Not Available	3G: Other Influence zones - See comments	6	
Comments: Wildlife riparian corridor.				
010	Not Available	3G: Other Influence zones - See comments	16	
Comments: Wildlife riparian corridor.				

Report 5 – Site Conditions

Gwinn Mgt. Unit

Compartment 033

_aBumbard, Ben Travis : Examiner

Year of Entry 2015

011	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45
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Comments:

1-2 stick red pine poles that need another 10 year before they are ready to havest.

012	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22
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Comments:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 7 – 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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

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Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 033
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1 4134 - Aspen, Spruce/Fir	High Density Sapling	15.5	14		A2W7J2F2 About 50:50 aspen to conifers with most saplings. White pine super canopy. Rocky terrain.
2 6122 - Black Spruce	High Density Pole	16.3	120		Strip of black spruce with tamarack along small drain. Degrades to an L type. Wildlife travel corridor.
4 4319 - Mixed Upland Forest	Medium Density Log	8.3	99		Large white pine over red maple and various hardwoods.
5 42200 - Natural White Pine	Medium Density Log	17.1	99	1-50	W8 and occasional RP sawtimber over fully stocked mixed conifer regen, aspen saps and red maple saps.
6 4130 - Aspen	High Density Pole	8.9	40		4-6" 1-2 stick aspen just transitioning into a pole stand. With a few jack pine, white pine, and white birch.
8 4133 - Aspen, Mixed Pine	Medium Density	41.9	3		Cut by LaFleur in 2009 under contract # 18-05-01. Aspen 1/2" diameter,
9 42200 - Natural White Pine	Medium Density Log	6.0	99	81-110	Large, legacy white pine in a narrow stand. Thinned by LaFleur in 2009 under contract # 018-05-01.
10 42220 - Natural Jack Pine	High Density Sapling	8.0	25		3 small pockets of dense J3 with short black spruce and whp on the perimeters. 20-40' tall, 2"-4" saps.
11 4133 - Aspen, Mixed Pine	High Density Sapling	25.0	16		20-30" aspen saps with scattered red and white pine. Rare red oak sawtimber tree.
13 4133 - Aspen, Mixed Pine	Medium Density Log	25.3	68		Large big tooth aspen, (especially on the east side of the ridge) and white pine sawtimber over good wp sapling regen. West side of the stand is smaller, thinner with a higher concentration of red maple, white birch, and quaking aspen. Starting to lose the big tooth. Occasional large red oak.
14 6122 - Black Spruce	Medium Density Pole	6.0	80		
15 42340 - Upland Spruce/Fir	Medium Density Pole	4.7	79		Small stands of mixed black spruce, fir, white pine, red maple
16 42200 - Natural White Pine	Medium Density Log	14.2	99	81-110	Beautiful white pine with many legacy sized trees. Occasional large red pine. SE corner has dense almost impenetrable W3 10-20' tall. Northern part has a higher ba, less pine regen and heavier to red maple stump sprouting.
17 42200 - Natural White Pine	Medium Density Log	4.2	99	81-110	Small stand of mostly large white pine along the high bank above the river.
18 4130 - Aspen	High Density Sapling	69.7	25		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	42220 - Natural Jack Pine	Medium Density	23.2	13		W7W2A1F1T1J1 Cut under contract # 07-95-01, retaining W7 overstory. A mix of everything but primarily jack pine.
21	4191 - Mixed Upland Deciduous with Conifer	High Density Log	4.9	555		High ridge above the river with a mixture of big tooth aspen, red maple, white birch, jack and red pine.
22	4136 - Aspen, Mixed Conifer	Medium Density	51.9	4		Cut by LaFleur in 2009 under contract # 018-05-01. Good aspen regen with scattered wp poles and sawtimber. A trace of red pine.
23	6122 - Black Spruce	High Density Pole	12.7	89		3-4 stick black spruce with tamarack. Riparian Buffer
24	42110 - Planted Red Pine	High Density Log	27.7	49	111-140	Almost pure 4-5 stick red pine, last thinned in 2008 under contract #019-05-01. Prior to that, aspen was removed in 1978, mature jp in 1981.
25	42220 - Natural Jack Pine	High Density Sapling	4.8	26		Pocket of dense J3 30'-40' tall.
27	42120 - Planted Jack Pine	High Density Sapling	20.0	14		2-4", 12-20' tall.
28	42220 - Natural Jack Pine	Medium Density Pole	5.4	85		Set up in 2005, left uncut. Comments from OI: J6A4S4M4, stand was not cut as planned, the jobber, Joe LaFleur, let the sale go unfinished. East part of stand was cut in 2008.
29	4130 - Aspen	High Density Pole	3.6	40		Nice small stand of aspen with a few jack pine. 2-3 stick 70 ba
31	42110 - Planted Red Pine	High Density Log	39.5	49	111-140	Almost pure 4-5 stick red pine, last thinned in 2008 under contract #019-05-01. Prior to that, aspen was removed in 1978, mature jp in 1981.
32	4130 - Aspen	Low Density Pole	12.5	37		Poor quality aspen, low stocking, 3-4 stick 40-50 ba.
33	4130 - Aspen	High Density Sapling	68.2	26		Ridgy, rocky young aspen stand with small patches of 2-3" jp and white birch.
34	4191 - Mixed Upland Deciduous with Conifer	Medium Density	14.8	4		Cut by LaFluer in 2008. Stand is a mix of red maple, aspen, white birch, white pine, black spruce, and balsam fir.
37	6122 - Black Spruce	High Density Pole	3.8	96		Small pocket of 4 stick black spruce and tamarack.
38	4133 - Aspen, Mixed Pine	Medium Density	30.6	3		
39	4130 - Aspen	High Density Pole	8.7	39		Stand has just transitioned to a pole stand. Contains an small knob of larger big-tooth aspen.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42120 - Planted Jack Pine	High Density Pole	52.7	39		90 ba jp poles.
41	6122 - Black Spruce	High Density Pole	32.1	80		Riparian zone and wildlife travel corridor. Black spruce stand along Bryan Creek.
42	6129 - Mixed Coniferous Lowland Forest	High Density Pole	5.5	80		Riparian buffer along Bryan Creek. An extension of stand 53.
43	4130 - Aspen	High Density Pole	5.7	28		Comments per OIPC 2003. Cut prmt. #8-85-1, A3 is now 1-3" dbh, 20-30 ft tall
44	42120 - Planted Jack Pine	High Density Pole	39.7	25		Cut in 1985 sale # 008-85-1, Planted in 1987, 4-6" JP saplings and poles with clones of aspen in the skips.
45	42120 - Planted Jack Pine	High Density Sapling	28.2	16		JP planted in 1996
46	4130 - Aspen	High Density Sapling	5.9	27		3-6" aspen over white pine and jack pine.
48	4130 - Aspen	Low Density Sapling	56.1	4		Cut by LaFleur under contract # 020-05-01. About 10 ba sawtimber red oak residual.
49	4123 - Red Oak	Medium Density Log	21.6	83	51-80	Red oak treated under stand # 21-05-01. Little red oak regen, some white pine and aspen, and fairly good red maple regen from stump sprouting.
50	4130 - Aspen	Medium Density Pole	18.0	37		Fair quality mixed big tooth/quaking aspen stand with a trace of white pine and jack pine. 40-50 ba of 3-4 stick aspen.
51	42110 - Planted Red Pine	High Density Pole	44.5	24	200+	1-2 stick red pine plantation.
52	4130 - Aspen	Medium Density Pole	27.5	76		Aspen, jack pine, red maple stand preped and under contract to Minerick # 32-020-11-01.
54	4130 - Aspen	High Density Sapling	20.7	16		Cut in 1996 under contract # 09-95-01 retaining red oak and white pine. Dense 20-30' A3.
55	4130 - Aspen	Medium Density	31.3	4		Stand cut in 2008 by LaFleur under contract #021-05-01. Aspen is 10-20' tall. 10 ba of residual red oak sawtimber and 10 ba of red pine logs and poles.
56	4137 - Aspen, Birch	High Density Pole	56.4	79		Stand prepared and sold to Minerick under contract # 32-020-11-01.
59	4130 - Aspen	Medium Density	29.2	4		Cut by LaFleur in 2008 under contract #21-05-01. Young aspen with scattered red oak and white pine.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4130 - Aspen	Medium Density	12.5	16		20-30' aspen and red maple with red oak and white pine. Cut in 1996 under contract #11-95-01.
61	4122 - Oak, Pine	Low Density Log	50.5	83	81-110	Good quality red oak with white pine sawtimber. Fairly decent oak seedlings mixed with the red maple and white pine understory. Numerous wp seedlings less than 3' tall. Treated under contract #10-95-01.
62	4130 - Aspen	High Density Sapling	7.0	6		Stand cut in 2006 with stand 74 of Cmpt 32.
64	4130 - Aspen	Medium Density Pole	19.7	40		4 stick aspen with only an occasional white pine and jack pine.
65	42110 - Planted Red Pine	High Density Log	41.0	49	111-140	Cut prmt. # 22-05-01, in 2009 by LaFleur. Stand is now R9R6, it was planted in 1963, released from aspen in 1973/1979. Pine responded well to that, there has been some frost damage. Contains numerous sink holes/frost pockets of small aspen and red maple saplings.
66	4130 - Aspen	High Density Sapling	11.1	14		Cut prmt. #8-85-1, A3 2-4" 30-40' tall.
67	4130 - Aspen	Medium Density	5.9	3		Cut by LaFleur with stand 77. Small pockets of aspen.
68	4199 - Other Mixed Upland Deciduous	Medium Density Log	14.4	99	51-80	Cut prmt. # 22-05-01, in 2009 by LaFleur, stand is now O7B4M4. Ridgy terrain. High quality red oak sawtimber with numerous RO seedlings less than 3'. Losing the white birch seed trees. Heavy red maple stump sprouting.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	6220 - Alder/willow	3.2	N/A	Unspecified	
7	6233 - Wet Meadow	8.1	N/A	Unspecified	
12	6220 - Alder/willow	3.6	N/A	Unspecified	
19	6220 - Alder/willow	2.1	N/A	Unspecified	
26	122 - Road/Parking Lot	4.3	N/A	Unspecified	
30	3201 - Sweet Fern	4.3	N/A	Unspecified	
35	622 - Lowland Shrub	3.1	N/A	Unspecified	
36	6220 - Alder/willow	29.3	N/A	Unspecified	
47	6220 - Alder/willow	8.6	N/A	Unspecified	
53	330 - Low-Density Trees	2.4	N/A	Unspecified	
57	330 - Low-Density Trees	2.8	N/A	Unspecified	
58	50 - Water	4.2	N/A	Unspecified	
63	310 - Herbaceous Openland	7.2	N/A	Unspecified	