



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 200

Entry Year 2016

Acreage: 1,627

County Ogemaw

Management Area: Gladwin Lake Plain

**Revision Date:** 05/12/2014

**Stand Examiner:** Ben Wiese

**Legal Description:**

T22N R03E Sec. 31, 32, 33; T21N R03E Sec. 1, 5, 6, 7, 8, 11, 16, 18, 21

**Identified Planning Goals:**

The compartment is part of the Gladwin Lake Plain Management Area and is located in southern, central Ogemaw county. Planning goals are to manage vegetation in accordance with the specifications set forth in the management plan to provide forest products, maintain or enhance wildlife, and protect areas of unique character such as the Rifle River.

**Soil and topography:**

Topography is made from moraines and till plains and is flat to gently sloping with scattered low hills. Soils in the uplands are mostly Croswell, Rubicon and Graycalm sands which are moderate to excessively drained. Lowland soils are poorly drained Tawas mucky peat and somewhat poorly drained Ewart sand and Colonville silt loam.

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

The compartment is broken into many fragments some of which are surrounded by private ownership. Much of the compartment has been developed for gas and oil production.

**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:**

None Noted

**Watershed and Fisheries Considerations:**

None Noted

**Wildlife Habitat Considerations:**

None Noted

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

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift are the Mississippian Michigan Formation, the Marshall Sandstone and the Coldwater Shale. The Michigan is quarried for gypsum and the Marshall has been used as a building stone in other areas of the state. Most of the good gravel pits are associated with upland areas. There are many gravel pits in the area and potential is good. West Branch Field is located in section 6. The field has produced over 16 million BO from the Devonian Dundee and Richfield Formations, and is in secondary recovery operations currently. The field also produces from the Prairie du Chien. Most of the compartment is leased for oil and gas development.

**Vehicle Access:**

Vehicle access is good in most areas, there is an abundance of forest roads, two-tracks and gas/oil access roads.

**Survey Needs:**

Surveys may be needed to delineate boundaries between private and state ownership in areas that are to be commercially harvested for timber.

**Recreational Facilities and Opportunities:**

No organized recreational facilities are within this compartment but it is used by adjacent landowners and other locals for dispersed recreation activities fishing, hiking, hunting, trapping to disperse snowmobiling. Utilize timber management

activities to balance resource protection and mitigate resource damage.

**Fire Protection:**

There is a fair amount of jack pine in this compartment with wildland-urban interface and is also a no-plow zone because of hydrogen sulfide gas present.

**Additional Compartment Information:**

None noted

**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**

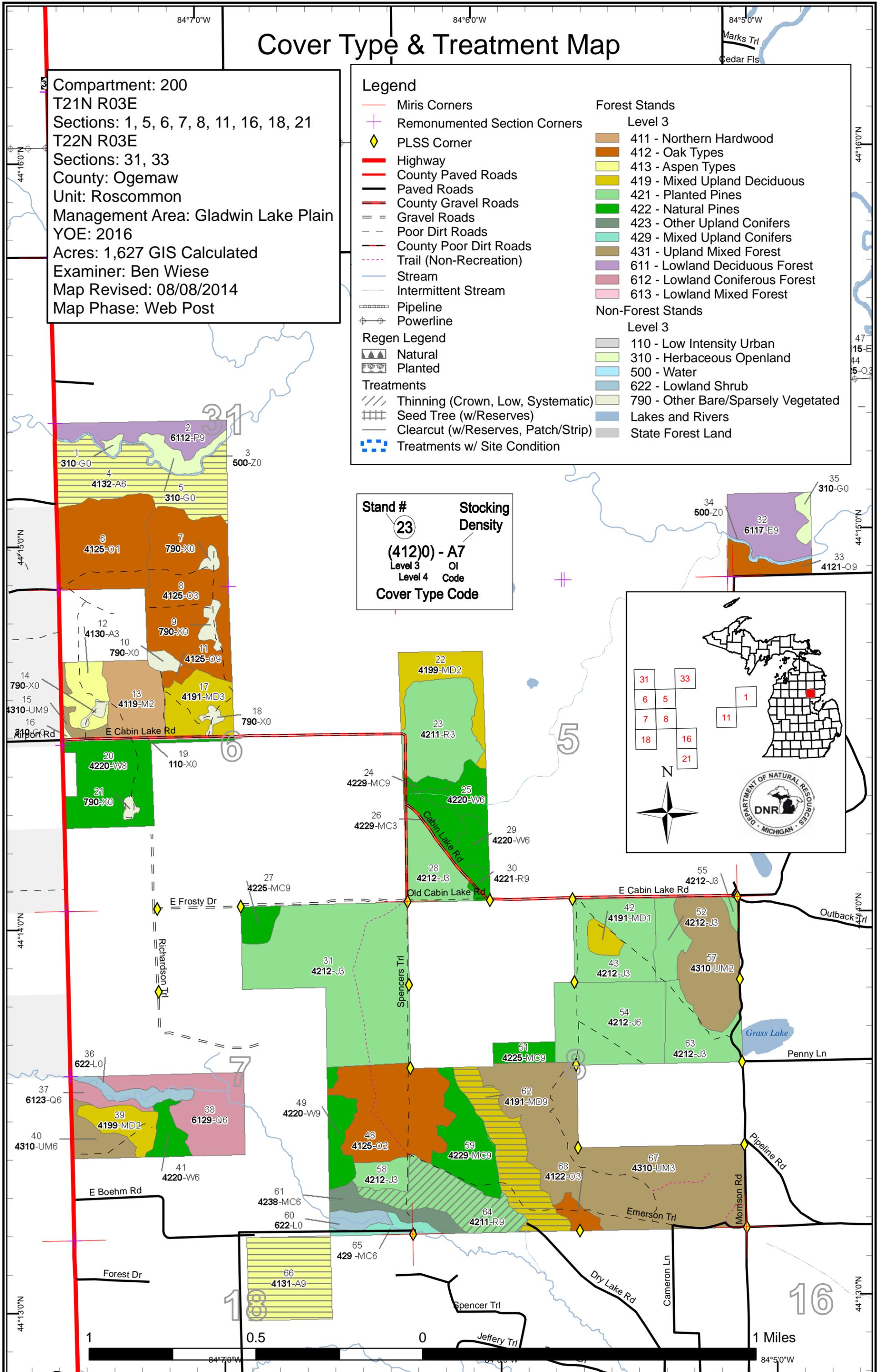
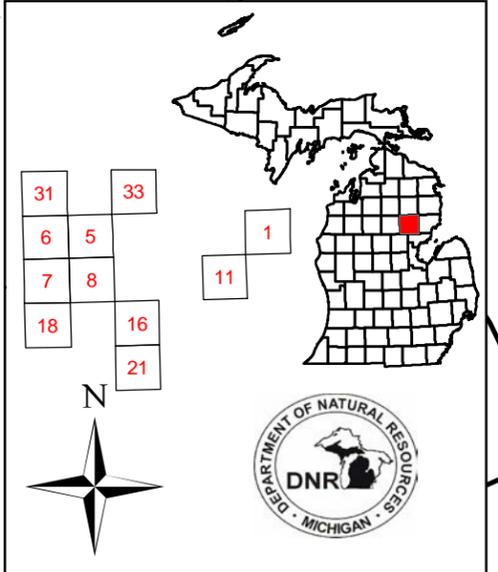
# Cover Type & Treatment Map

**Compartment: 200**  
**T21N R03E**  
**Sections: 1, 5, 6, 7, 8, 11, 16, 18, 21**  
**T22N R03E**  
**Sections: 31, 33**  
**County: Ogemaw**  
**Unit: Roscommon**  
**Management Area: Gladwin Lake Plain**  
**YOE: 2016**  
**Acres: 1,627 GIS Calculated**  
**Examiner: Ben Wiese**  
**Map Revised: 08/08/2014**  
**Map Phase: Web Post**

## Legend

- Miris Corners
  - Remonumented Section Corners
  - PLSS Corner
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Stream
  - Intermittent Stream
  - Pipeline
  - Powerline
- Regen Legend**
- Natural
  - Planted
- Treatments**
- Thinning (Crown, Low, Systematic)
  - Seed Tree (w/Reserves)
  - Clearcut (w/Reserves, Patch/Strip)
  - Treatments w/ Site Condition
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
  - 412 - Oak Types
  - 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
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 110 - Low Intensity Urban
  - 310 - Herbaceous Openland
  - 500 - Water
  - 622 - Lowland Shrub
  - 790 - Other Bare/Sparsely Vegetated
  - Lakes and Rivers
  - State Forest Land

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



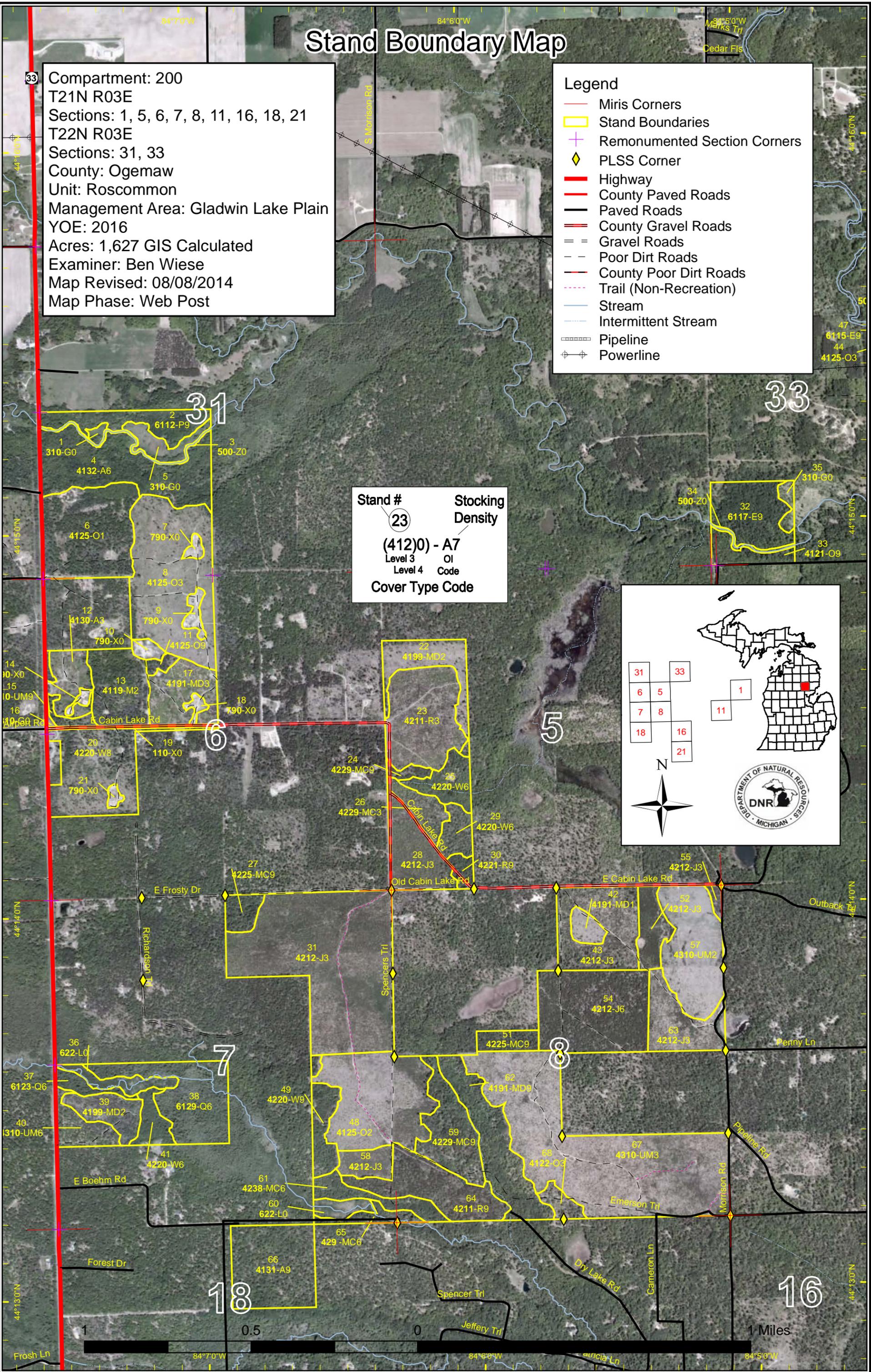
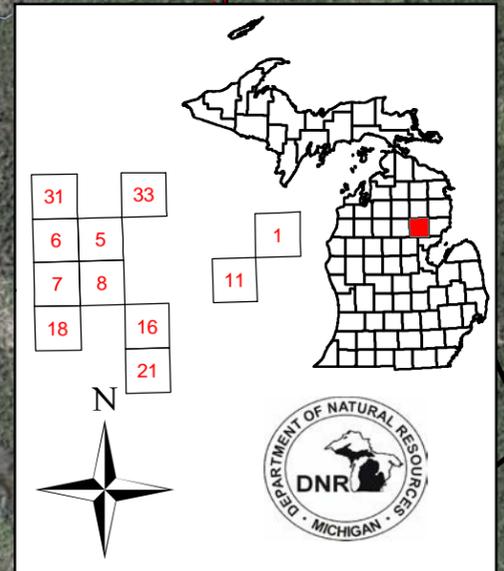
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**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
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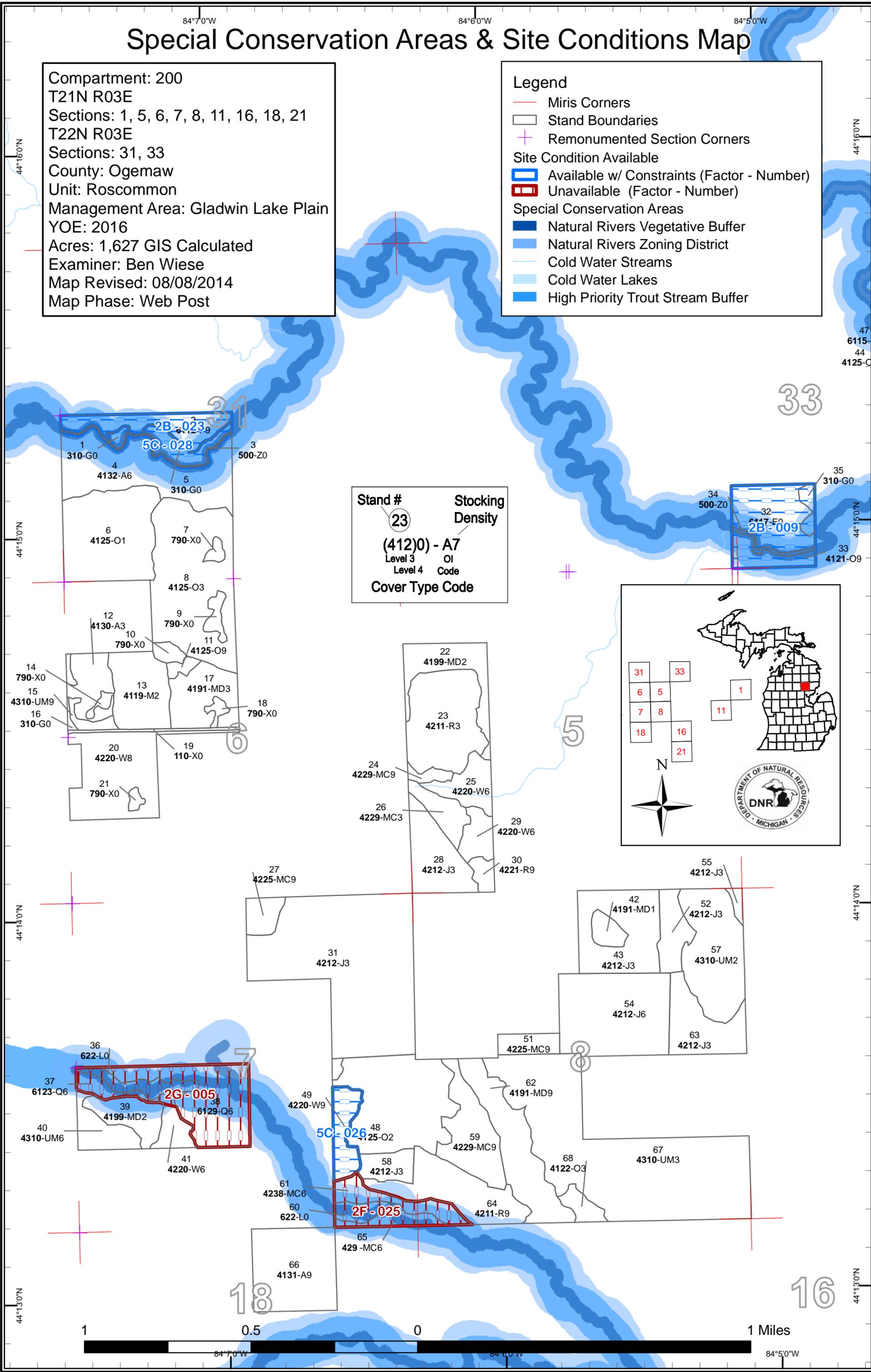
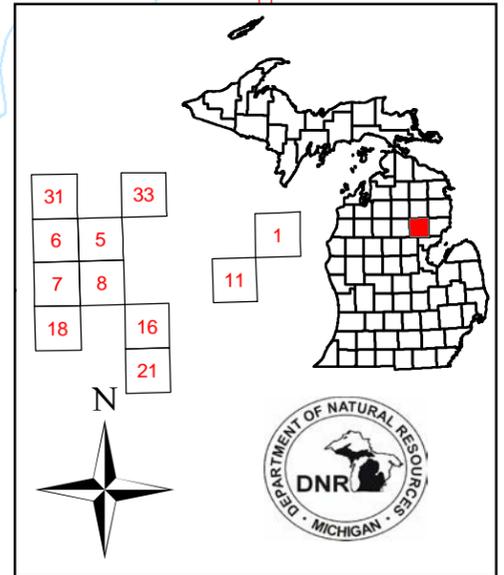
# Special Conservation Areas & Site Conditions Map

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- Unavailable (Factor - Number)
- Special Conservation Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

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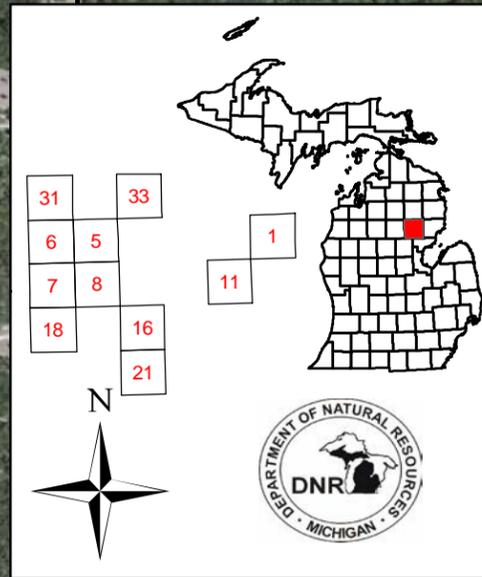




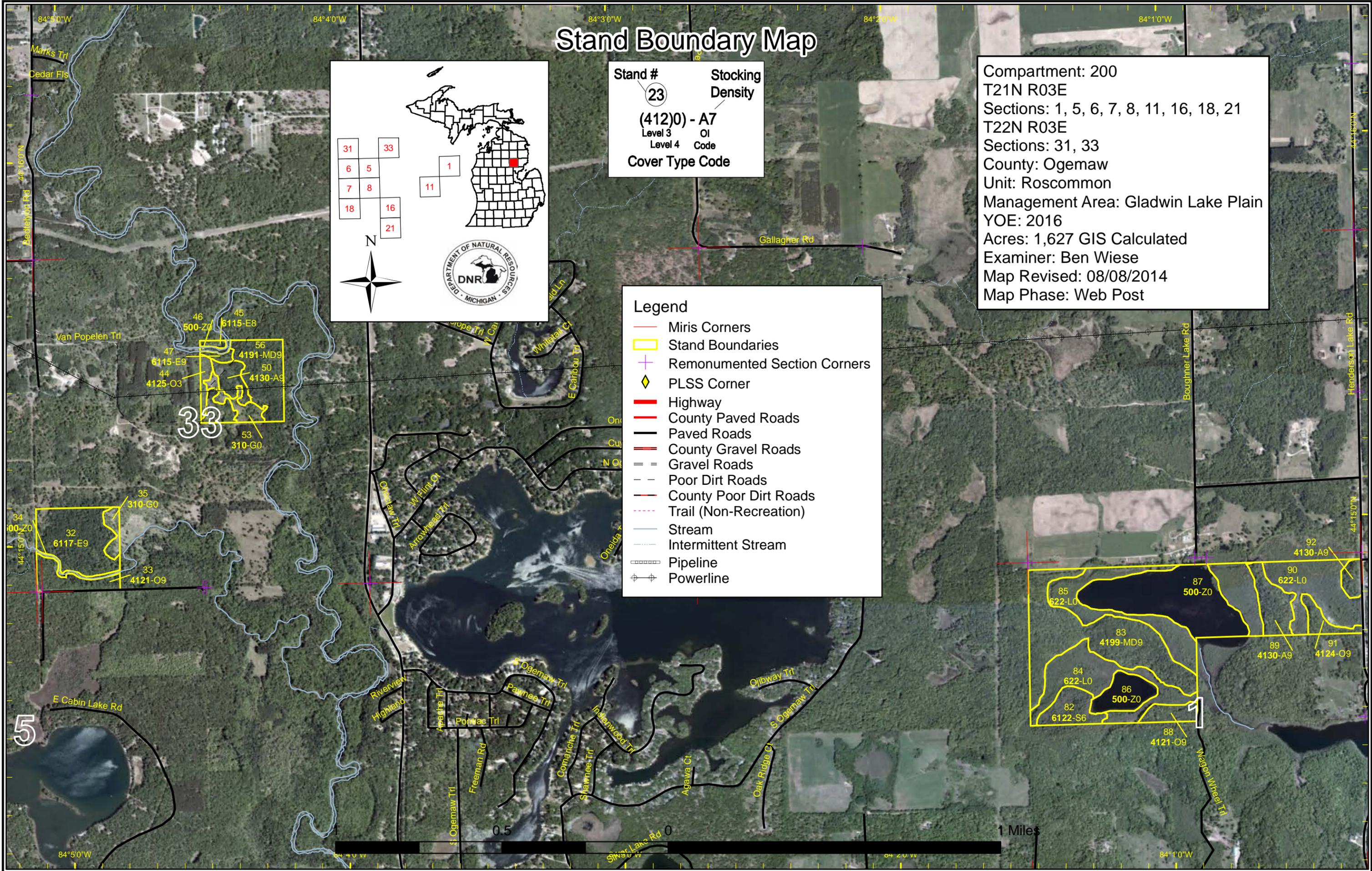
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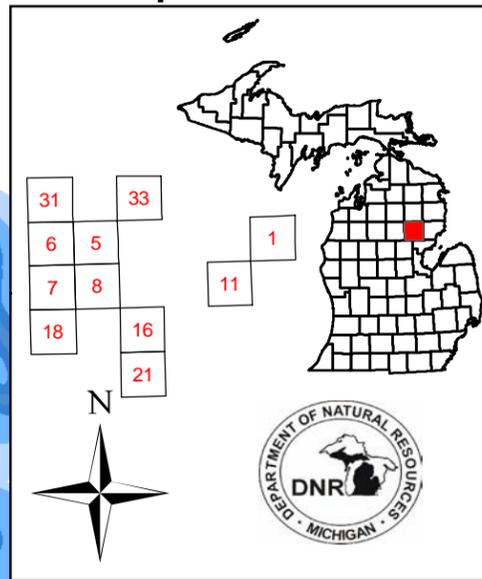
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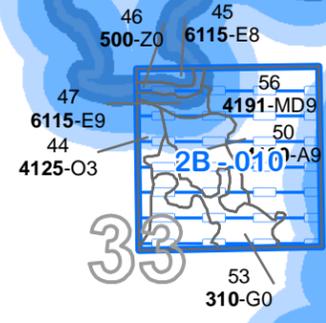


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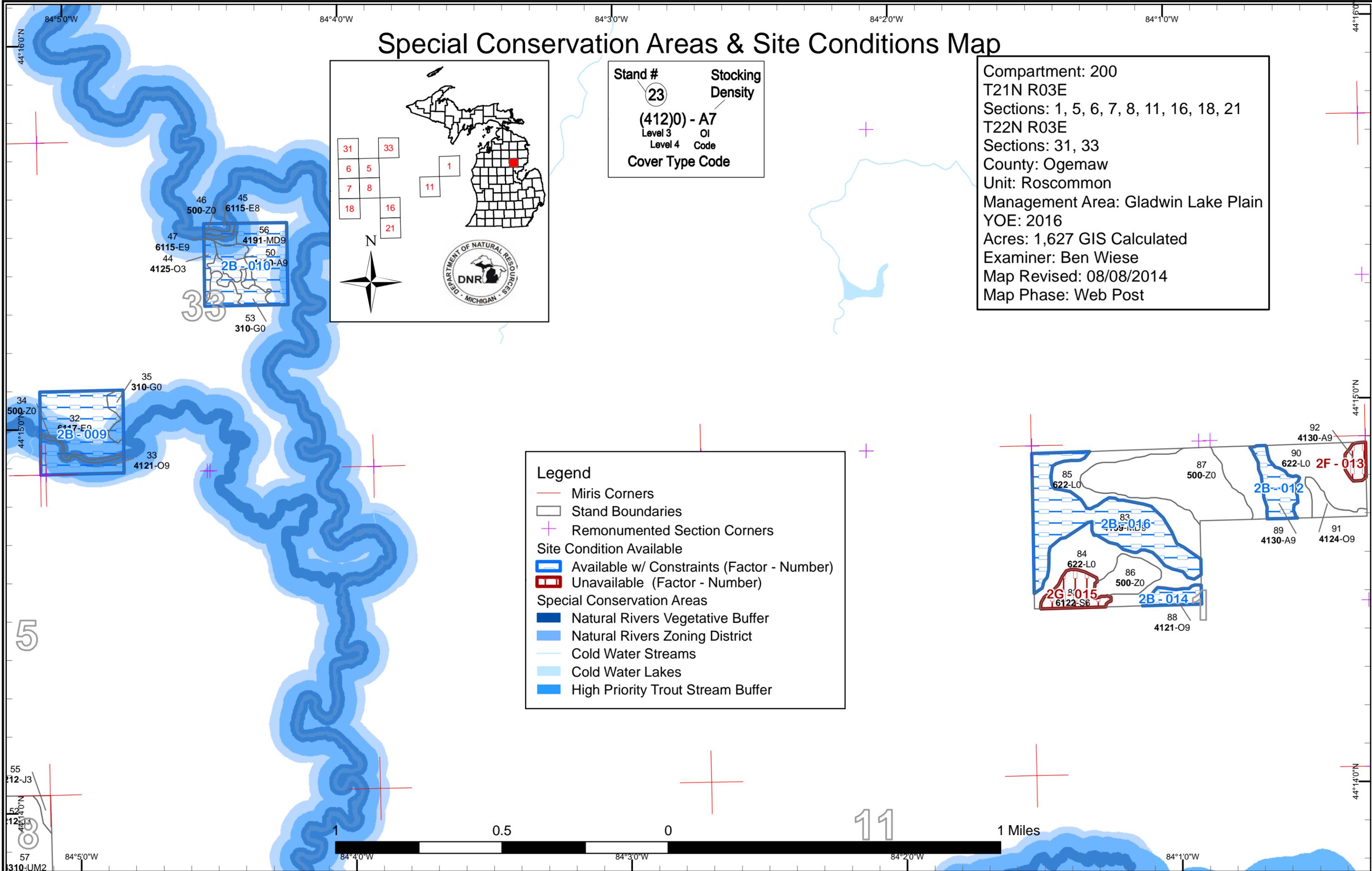
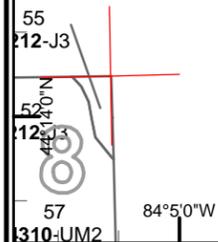
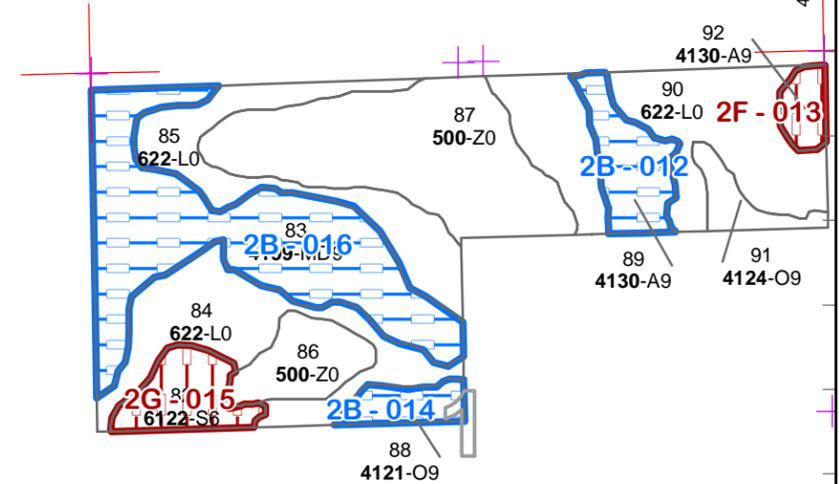
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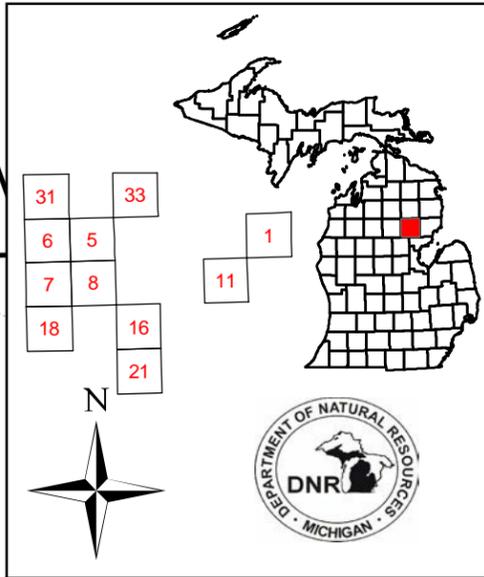
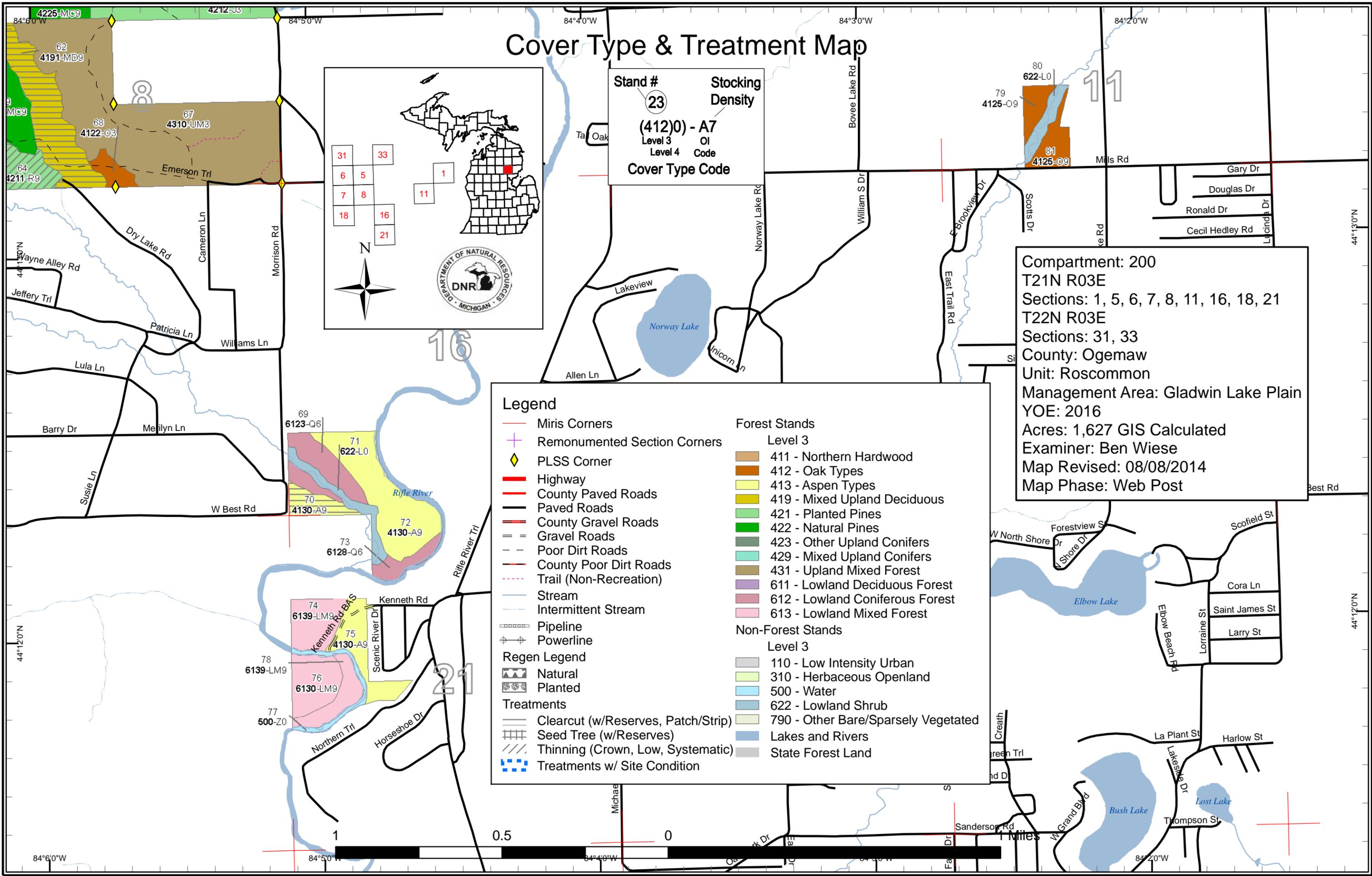


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### Forest Stands

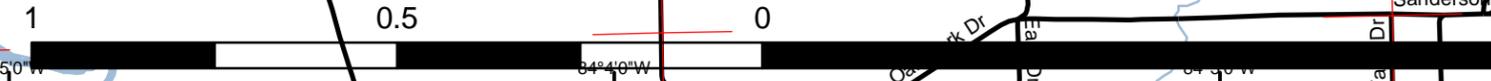
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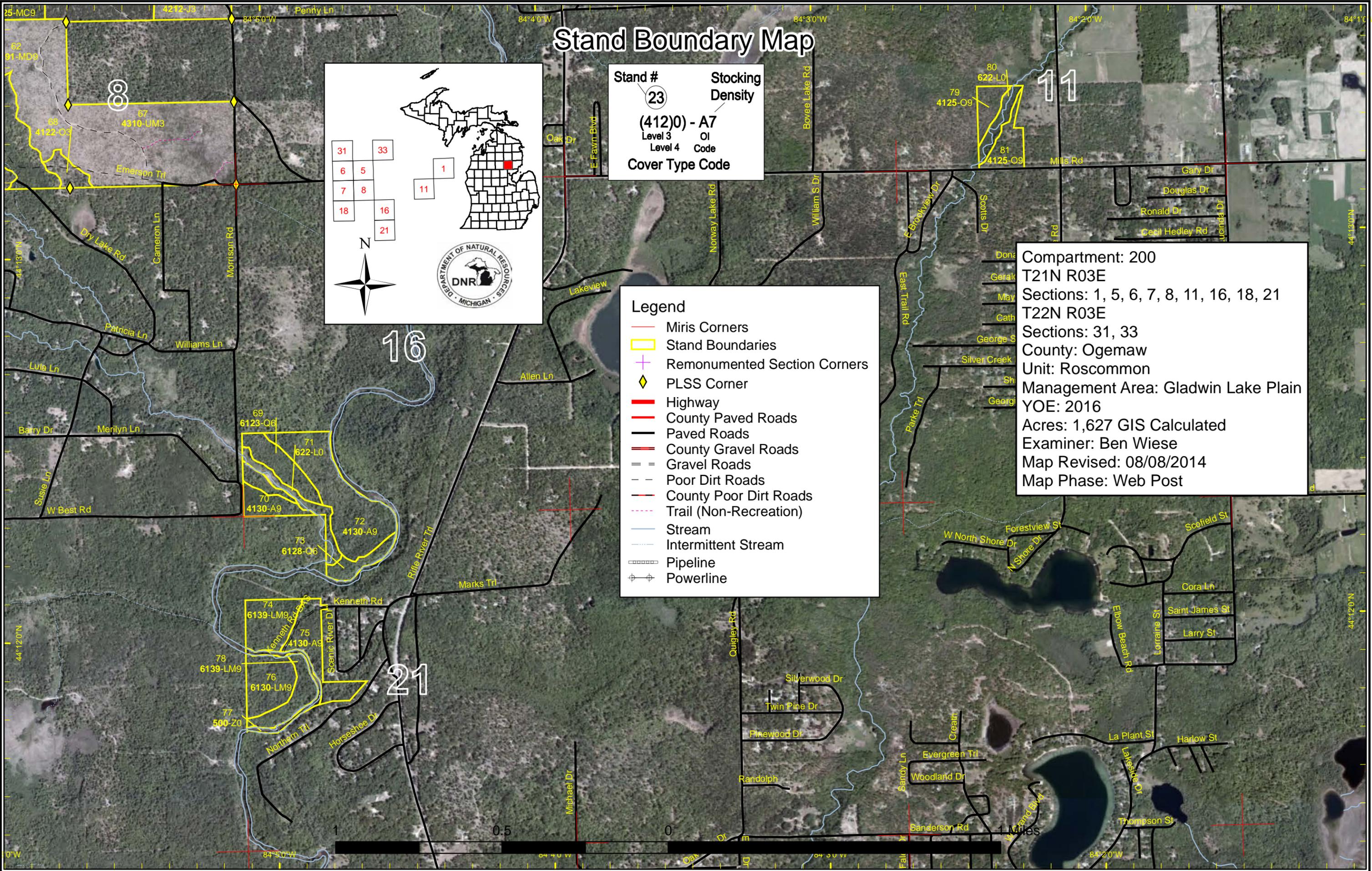
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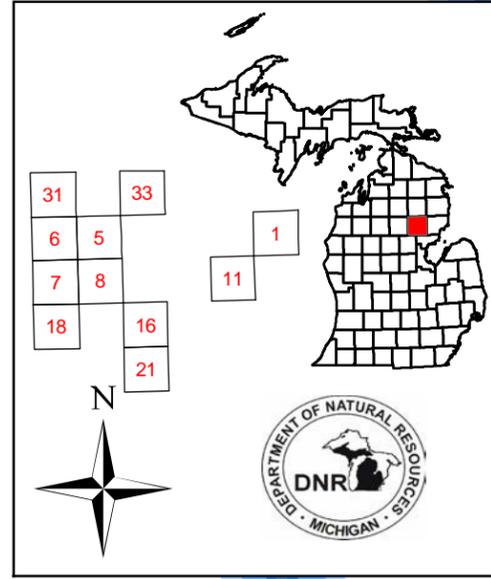
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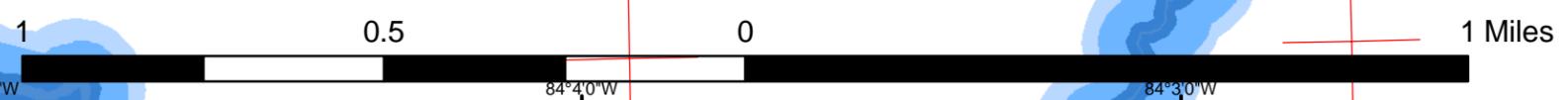
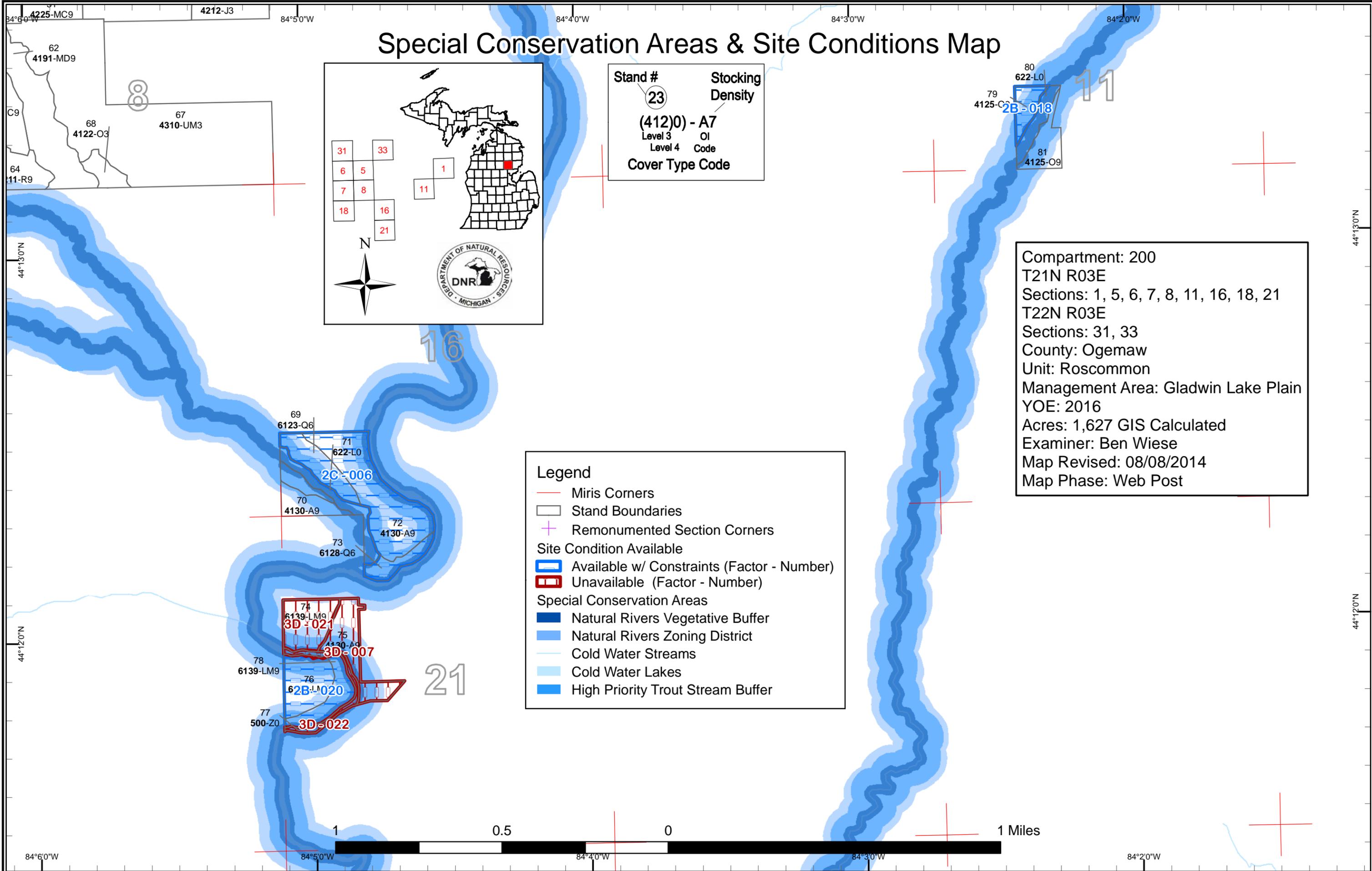


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Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen	14	0	0	0	10	93	0	0	0	55	4	11	0	0	186
Bare/Sparsely Vegetated	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Jack Pine	0	199	14	52	0	0	0	0	0	0	0	0	0	0	265
Lowland Aspen/Balsam Poplar	0	0	0	0	0	19	0	0	0	0	0	0	0	0	19
Lowland Conifers	0	0	0	0	0	21	5	0	0	0	0	0	36	0	63
Lowland Deciduous	0	0	0	0	0	0	0	0	25	3	0	0	0	0	28
Lowland Mixed Forest	0	0	0	0	0	0	15	14	10	0	0	0	0	0	39
Lowland Shrub	113	0	0	0	0	0	0	0	0	0	0	0	0	0	113
Lowland Spruce/Fir	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10
Mixed Upland Deciduous	33	26	0	0	0	0	18	0	83	0	0	0	0	0	160
Natural Mixed Pines	0	0	10	0	0	7	0	0	33	3	0	0	0	0	53
Northern Hardwood	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Oak	119	54	3	0	0	0	2	15	9	5	0	5	0	0	212
Red Pine	0	40	0	0	31	0	0	0	0	0	4	0	0	0	75
Upland Conifers	0	0	0	0	0	0	0	6	0	0	12	0	0	0	18
Upland Mixed Forest	40	126	0	11	0	0	0	0	4	0	0	0	0	0	181
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	62	0	0	0	0	0	0	0	0	0	0	0	0	0	62
White Pine	0	0	0	0	17	53	0	13	0	0	0	0	0	0	83
<b>Total</b>	<b>440</b>	<b>445</b>	<b>26</b>	<b>64</b>	<b>58</b>	<b>194</b>	<b>40</b>	<b>58</b>	<b>165</b>	<b>66</b>	<b>20</b>	<b>16</b>	<b>36</b>	<b>0</b>	<b>1627</b>



## Report 2 – Proposed Treatment Summaries

**Roscommon Mgt. Unit**  
**Year of Entry 2016**

**Compartment 200**  
**Total Compartment Acres: 1,627**

### Acres by Treatment Type

Commercial Harvest - 178    Tree Planting - 0    Other - 0  
 Habitat Cut - 0    Opening Maintenance - 0

### Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Aspen Types</b>	108	0	0	0	0	0	108
<b>Mixed Upland Deciduous</b>	34	0	0	0	0	0	34
<b>Oak Types</b>	0	0	5	0	0	0	5
<b>Planted Pines</b>	0	0	0	0	31	0	31
<b>Total</b>	<b>143</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>178</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	71200004-Cut	50.3	4132 - Aspen, Jack Pine	High Density Pole	55	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate aspen and to balance age classes. Follow the natural rivers guidelines. The buffer along the river will be considered <u>Specs:</u> retention. Leave one large pile of slash per two acres.  <u>Other</u> <u>Comments:</u>  <u>Next</u> <u>Steps:</u>  <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
62	71200062-Cut	34.1	4191 - Mixed Upland Deciduous with Conifer	High Density Log	81	51-80	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Leave well formed healthy white pine and red pine and large crowned healthy oak for mast. Treat the areas where the pine <u>Specs:</u> is dense as a heavy thinning or a shelterwood to encourage rapid growth and to open the subcanopy.  <u>Other</u> Leave large slash piles at least 15' x 15' x 5' with heavier material on the bottom at a density of at least 1 per two acres. The future stand will be a <u>Comments:</u> mixed upland with a dominant component of aspen and oak and super canopy pine. The reserves will be the retention, try to leave them in clumps.  <u>Next</u> <u>Steps:</u>  <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
64	71200064-Cut	31.0	42110 - Planted Red Pine	High Density Log	44	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Crown thin to a residual basal area of 110-130. Select suppressed and co-dominants first. Try to maintain an even spacing of residual trees. <u>Specs:</u>  <u>Other</u> <u>Comments:</u>  <u>Next</u> <u>Steps:</u>  <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
66	71200066-Cut	39.8	4131 - Aspen, Oak	High Density Log	93	51-80	Harvest	Clearcut	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Clearcut all oak and aspen to a two inch diameter. Leave white pine. White pine should be thinned in areas where the basal area is over 80. <u>Specs:</u>  <u>Other</u> The future condition will be a mixed aspen/oak stand with a cohort of low density white pine. A survey may be needed. Leave 3-4 small retention <u>Comments:</u> islands that are representative of the variability within the stand.  <u>Next</u> Leave large slash piles at least 15' x 15' x 5' with heavier material on the bottom at a density of at least 1 per two acres. <u>Steps:</u>  <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
70	71200070-Cut	7.6	4130 - Aspen	High Density Log	53	141-170	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate aspen. Leave some balsam fir and white pine for visual and diversity. <u>Specs:</u>  <u>Other</u> Leave large slash piles at least 15' x 15' x 5' with heavier material on the bottom at a density of at least 1 per two acres. <u>Comments:</u>  <u>Next</u> <u>Steps:</u>  <u>Proposed</u> <u>Start Date:</u> 10/01/2015										

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
91	71200091-Cut	4.9	4124 - Red with White Oak	High Density	115	81-110	Harvest	Seed Tree with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription Seedtree harvest to a 2 inch diameter. Leave large crowned healthy oak for seeds and mast. The seedtrees will be the retention.

Specs:

Other Leave large 15' x 15' x 5' piles of slash with the heaviest material on the bottom for wildlife. The future stand will have a super canopy of oak with  
Comments: mixed red maple, oak and aspen regeneration. Asurvey may be needed.

Next  
Steps:

Proposed  
Start Date: 10/01/2015

**Total Treatment**  
**Acreage Proposed: 167.7**

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
89	71200089-Cut	10.8	4130 - Aspen	High Density Log	115	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves, leave large dominant oaks surrounded by existing trees to make small clumps of trees for retention. Leave large slash piles for wildlife habitat.

Other Comment: This stand is factor limited, access will need to be through the adjacent private landowner.

Next Steps:

Proposed Start Date: 10/01/2015

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

**Total Treatment  
Acreage Proposed: 10.8**

## Report 5 – Site Conditions

Roscommon Mgt. Unit

Ben Wiese : Examiner

Compartment 200

Year of Entry 2016

### Availability for Management

Availability for Management			Dominant Site Conditions							
Total Acres	Acres Available	Acres Not Available		No	5C	3D	2G	2F	2C	2B
186	167	19	Aspen	111	0	15		4	35	21
265	265		Jack Pine	265						
19	19		Lowland Aspen/Balsam Poplar							19
62	21	41	Lowland Conifers	4			41		17	
28	28		Lowland Deciduous							28
38	25	14	Lowland Mixed Forest			14				25
10		10	Lowland Spruce/Fir				10			
159	159		Mixed Upland Deciduous	93						66
53	53		Natural Mixed Pines	53						
25	25		Northern Hardwood	25						
212	212		Oak	189						23
75	75	0	Red Pine	75				0		
18		18	Upland Conifers					18		
181	181		Upland Mixed Forest	181						
83	82	1	White Pine	70	12		1			
1,414	1,311	103	Total Forested Acres	1,065	12	29	52	22	53	182
	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
005	Not Available	2G: Too wet (sensitive soils, does not include access issues)	50				
<b>Comments:</b>							

**Report 5 – Site Conditions**

Roscommon Mgt. Unit

Compartment 200

Ben Wiese : Examiner

Year of Entry 2016

006	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	53	
<b>Comments:</b>				
007	Not Available	3D: Recreational / Scenic values	15	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>				
009	Available	2B: Unknown if access through adjacent landowner(s) is possible	40	
<b>Comments:</b>				
010	Available	2B: Unknown if access through adjacent landowner(s) is possible	39	
<b>Comments:</b>				
012	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	
<b>Comments:</b>				
013	Not Available	2F: Too steep	4	
<b>Comments:</b>				
The stand is small and there may be difficulty creating a safe place for log trucks to access Henderson Lake Road.				

**Report 5 – Site Conditions**

Roscommon Mgt. Unit

Compartment 200

Ben Wiese : Examiner

Year of Entry 2016

014	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	
<b>Comments:</b>				
015	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10	2B: Unknown if access through adjacent landowner(s) is possible
<b>Comments:</b>				
016	Available	2B: Unknown if access through adjacent landowner(s) is possible	49	
<b>Comments:</b>				
018	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	
<b>Comments:</b>				
020	Available	2B: Unknown if access through adjacent landowner(s) is possible	25	
<b>Comments:</b>				
021	Not Available	3D: Recreational / Scenic values	14	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>				

**Report 5 – Site Conditions**

Roscommon Mgt. Unit

Ben Wiese : Examiner

Compartment 200

Year of Entry 2016

022	<b>Not Available</b>	<b>3D: Recreational / Scenic values</b>	5	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b> Much of the stand is a steep bank that slopes down to the Rifle River.				
023	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	19	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
<b>Comments:</b>				
025	<b>Not Available</b>	<b>2F: Too steep</b>	24	5C: Delay treatment for age/size class diversity or exceptional site quality
<b>Comments:</b>				
026	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	
<b>Comments:</b>				
028	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	13	
<b>Comments:</b>				



### 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
<b>Comments</b>				



**Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Roscommon Mgt. Unit		Report 8 – Forested Stands			Compartment: 200 Year of Entry: 2016	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
2	6112 - Lowland Aspen	High Density Log	19.1	55			
4	4132 - Aspen, Jack Pine	High Density Pole	50.3	55	51-80	Quaking aspen mixed with pine and fir. The stand borders a creek on the north and upland pine plantation to the south much of it is seasonally flooded. Dead and dying ash is located along the parts of the creek.	
6	4125 - Black, N. Pin Oak	Low Density Sapling	47.4	1		This stand was clearcut in the winter of 2011-2012 and trenched spring of 2013. Red pine is supposed to be planted in the spring of 2014. There is currently 25-50% canopy of oak and cherry. The stand was chipped during the harvest but a small amount of slash is present.	
8	4125 - Black, N. Pin Oak	High Density Sapling	65.9	5		Stand was clearcut in 2008. The pin oak has regenerated well. There is scattered super canopy white oak and red pine. Red pine was planted.	
11	4125 - Black, N. Pin Oak	High Density Log	2.4	61	81-110	Small, mature, pin oak stand that is possibly a retention pocket.	
12	4130 - Aspen	High Density Sapling	13.5	5		Aspen stand that was clearcut in 2008. This stand is regenerating nicely.	
13	4119 - Mixed Northern Hardwoods	Medium Density	24.5	1		This stand was clearcut in the winter of 2011-2012 and trenched spring of 2013. Red pine is supposed to be planted in the spring of 2014.	
15	4310 - Pine, Oak Mix	High Density Log	4.3	85	81-110	Small stand of oak and pine that is a buffer between M-55 and a clearcut and oil pad.	
17	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	21.0	15		This stand was clearcut in 1998, it is now regenerated, multi and single stemmed oak and cherry mixed with jack pine.	
20	42200 - Natural White Pine	Medium Density Log	41.0	58	1-50	Stand was harvested in 2008 by removing the oak. The residual stand is white and red pine of variable density and height. There are small open areas with jack pine and oak regen. Parts of the stand have dense pockets of white pine poles and saplings. There is good diversity.	
22	4199 - Other Mixed Upland Deciduous	Medium Density	19.5	5		Stand was clearcut in 2008, super canopy white oak and pin oak were left. Pin oak is the dominant canopy species, along with cherry. There are jack pine seedlings that appear to be of natural origin.	
23	42110 - Planted Red Pine	High Density Sapling	39.9	16		This stand was clearcut in the spring of 1997 and trenched in the fall of 1997 and hand planted to red pine in the spring of 1998.	
24	42290 - Natural Mixed Pine	High Density Log	3.0	99	51-80	Small, mature jack and red pine stand that provides good diversity to this part of the compartment.	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	42200 - Natural White Pine	High Density Pole	12.4	57	81-110	Natural white pine stand mixed with jack pine, red pine, and oak. Most of the oak is in the north part of the stand. a small drainage with alder runs through the stand.
26	42290 - Natural Mixed Pine	High Density Sapling	9.6	26		Mixed natural pine and oak there are small open areas, the density is variable throughout the stand.
27	42250 - Pine, Oak	High Density Log	7.1	58	81-110	White pine and oak stand two-aged. The oak is mature and is senescing, the pine is healthy. This stand is in the corner of the compartment adjacent to private ownership.
28	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	22.9	16		This stand was clearcut in the spring of 1997 and trenched in the fall of 1997 and hand planted to jack pine in the spring of 1998.
29	42200 - Natural White Pine	High Density Pole	8.4	49	51-80	Natural mixed pine, the stand appears to be two-aged, a cohort of open grown, short white pine of log and pole size and a cohort of jack pine that is around 26 years old. The density is variable. The stand is healthy.
30	42210 - Natural Red Pine	High Density Log	4.0	107	81-110	Small stand at a corner of the compartment that borders private ownership on two sides. This stand appears to be a natural mix of red pine white pine and pin oak.
31	42120 - Planted Jack Pine	High Density Sapling	110.5	14		This stand was clearcut in the spring of 1997. The south part of the stand was seeded in December of 1998 to jack pine which was a failure. The stand was then hand planted to jack pine during the spring of 2000.
32	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	25.5	83	141-170	Mature quaking aspen stand with balsam fir, white pine and scattered red pine. The balsam fir is well developed in the sub and mid canopy range.
33	4121 - Oak, Aspen	High Density Log	9.1	86		
37	6123 - Lowland Fir	High Density Pole	5.2	60		Balsam fir lowland conifers. The stand transitions from lowland to upland.
38	6129 - Mixed Coniferous Lowland Forest	High Density Pole	36.0	138	81-110	Lowland conifer stand with dense balsam fir understory.
39	4199 - Other Mixed Upland Deciduous	Medium Density	13.3	6		This stand is of fire origin, estimated to be 6 years old based on aerial photo data. The stand was mostly pole sized pin oak that was burned and has regenerated via stump sprouts. The stand is a mix of pin oak, red maple, cherry and aspen.
40	4310 - Pine, Oak Mix	High Density Pole	11.5	39	51-80	Pin oak and jack pine stand that appears to be of natural origin.
41	42200 - Natural White Pine	High Density Pole	8.3	45	111-140	Natural white pine stand, dense well stocked. Super canopy white pine seed trees.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	5.3	15		This stand appears to be an old landing sight.
43	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	33.6	15		Jack pine is the dominant cover type. According to the records the stand was trenched in the fall of 1998 and hand planted bare root red pine in the spring of 1999.
44	4125 - Black, N. Pin Oak	High Density Sapling	2.8	26		Young, healthy oak stand.
45	6115 - Lowland Ash	Medium Density Log	1.0	93		
47	6115 - Lowland Ash	High Density Log	1.5	93	81-110	Lowland ash, floodplain with cedar along the upland edge.
48	4125 - Black, N. Pin Oak	Medium Density	54.0	15		Pin oak stand that was clearcut and disked in 1999, then hand planted to red pine in the spring of 2000.
49	42200 - Natural White Pine	High Density Log	12.9	77	111-140	White pine.
50	4130 - Aspen	High Density Log	10.0	42	81-110	Fast growing bigtooth aspen stand
51	42250 - Pine, Oak	High Density Log	7.3	84	51-80	Mature jack pine and pin oak stand. There is white pine in the midcanopy, large coarse woody debris. The jack pine is beginning to senesce.
52	42120 - Planted Jack Pine	High Density Sapling	12.1	26		Jack pine plantation
54	42120 - Planted Jack Pine	High Density Pole	52.1	32	81-110	Jack pine plantation.
55	42120 - Planted Jack Pine	High Density Sapling	2.0	26		Small jack pine plantation that survived a wildfire, it was planted in 1988.
56	4191 - Mixed Upland Deciduous with Conifer	High Density Log	17.8	64	81-110	
57	4310 - Pine, Oak Mix	Medium Density	39.6	8		Mixed oak and jack pine stand which appears to have originated from a wildfire as shown on the Michigan NAIP 2005 imagery. There is more jack pine in the north of the stand which was previously planted in 1988.
58	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	8.9	14		Jack pine plantation established in 2000. Single and multi stem pin oak.
59	42290 - Natural Mixed Pine	High Density Log	25.7	81	51-80	Mixed natural pine stand with more white pine to the north. Scattered super canopy pin oak.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	12.0	103	51-80	spruce and fir stand that transitions from upland to lowland.
62	4191 - Mixed Upland Deciduous with Conifer	High Density Log	34.1	81	51-80	Mixed upland stand. This stand is unevenly mixed, the white pine is dense in places. The stand density is also uneven.
63	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	22.7	15		The stand was trenched in the fall of 1998 and hand planted bare root red pine in the spring of 1999.
64	42110 - Planted Red Pine	High Density Log	31.0	44	141-170	Red pine stand that was row thinned in 2009.
65	429 - Mixed Upland Conifers	High Density Pole	6.3	72	81-110	Spruce and fir stand that transitions from upland to lowland. A small stand located between a creek and private ownership.
66	4131 - Aspen, Oak	High Density Log	39.8	93	51-80	Mature pin oak and bigtooth aspen stand with low density white pine poles and logs. The dominant oak is healthy, the aspen and suppressed oaks are senescing. The aspen is mostly in scattered clones. There is a trace amount of red maple.
67	4310 - Pine, Oak Mix	High Density Sapling	125.9	14		This stand was clearcut in the spring of 1999. the east part of the stand was disked in the fall of 1999 and hand planted to red pine in 2000.
68	4122 - Oak, Pine	High Density Sapling	5.4	5	1-50	Two-aged jack pine and oak stand. Sapling class of about five years old and a mature pin oak/jack pine cohort of 81 years.
69	6123 - Lowland Fir	High Density Pole	15.2	55		his stand is located along the edges lowland. It is mostly made up of fir, maple and cedar. The density and ages are variable. On the west side there is a steep slope with a lot of blowdown cedar log-sized tres.
70	4130 - Aspen	High Density Log	7.6	53	141-170	Log sized, quality bigtooth aspen stand, healthy and fast growing. There is red maple and balsam fir understory of variable height.
72	4130 - Aspen	High Density Log	35.5	53		
73	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	6.2	55		
74	6139 - Mixed Lowland Forest	High Density Log	14.0	75	111-140	The stand borders the Rifle River and is next to the public boat launch. The composition is mostly fir and aspen, with cedar and a trace amount of oak. There is a component of ash, EAB is present.
75	4130 - Aspen	High Density Log	14.9	90	111-140	Quality upland bigtooth aspen stand, borders the Rifle River and Private ownership. The stand is on a hillside that slopes to the river. Portions of the sub-canopy are stocked with white pine and balsam fir. There is a trace amount of red maple.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	6130 - Fir, Aspen, Maple	High Density Log	14.9	65		
78	6139 - Mixed Lowland Forest	High Density Log	10.0	85		
79	4125 - Black, N. Pin Oak	High Density Log	6.0	75	81-110	Mature, relatively poor quality oak stand.
81	4125 - Black, N. Pin Oak	High Density Log	8.8	75	81-110	Mature upland oak stand, relative poor quality sawlogs. This stand borders county property, there are illegal trails throughout.
82	6122 - Black Spruce	High Density Pole	9.8	71	81-110	Lowland conifer, spruce and pine
83	4199 - Other Mixed Upland Deciduous	High Density Log	48.6	83	111-140	Mature upland oak and aspen stand with super canopy pine. There is red maple in the sub and intermediate canopy layers. There is also trace super canopy white oak and a small pockets of paper birch in the east end of the stand. The stand is hilly and is between two lakes.
88	4121 - Oak, Aspen	High Density Log	5.3	97	111-140	Small upland stand with oak, aspen and super canopy white pine. The oak is more concentrated in the east part of the stand. There is trace super canopy red pine.
89	4130 - Aspen	High Density Log	10.9	115	81-110	Bigtooth aspen stand that is overmature, the oak is healthy. The understory is dense in the places where the canopy density is low. There are trace amounts of beech and white oak with ash in the southern part of the stand where it is wetter.
91	4124 - Red with White Oak	High Density Log	4.9	115	81-110	Upland oak stand with alder on three sides. Healthy stand on a good sight. Ash borer present.
92	4130 - Aspen	High Density Log	4.0	102	111-140	Small aspen stand on a knoll surrounded by alder across from Hardwood Lake. Mostly bigtooth aspen mixed with oak, ash and maple. There is intermediate canopy paper birch. The stand is healthy but the aspen is old, the age is based on a difficult to read core. If left alone the red maple will slowly replace the aspen, oak will likely be retained at its present density.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3102 - Grass	1.6	No	Unspecified	
3	50 - Water	2.4	No	Unspecified	
5	3102 - Grass	8.6	No	Unspecified	
7	790 - Other Bare/Sparsely Vegetate	1.9	Yes	Unspecified	
9	790 - Other Bare/Sparsely Vegetate	3.5	Unspecified	Unspecified	
10	790 - Other Bare/Sparsely Vegetate	3.1	No	Unspecified	
14	790 - Other Bare/Sparsely Vegetate	1.6	No	Unspecified	
16	3102 - Grass	0.7	No	Unspecified	Road right of way.
18	790 - Other Bare/Sparsely Vegetate	1.9	No	Unspecified	
19	11 - Low Intensity Urban	2.6	No	Unspecified	
21	790 - Other Bare/Sparsely Vegetate	1.5	No	Unspecified	
34	50 - Water	1.8	No	Unspecified	
35	3102 - Grass	3.3	No	Unspecified	
36	6220 - Alder/willow	7.9	No	Unspecified	
46	50 - Water	1.0	No	Unspecified	
53	3102 - Grass	5.2	No	Unspecified	Scattered cherry, white pine and oak saplings
60	6220 - Alder/willow	5.7	No	Unspecified	
71	6220 - Alder/willow	8.1	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
77	50 - Water	4.5	No	Unspecified	
80	6220 - Alder/willow	5.7	No	Unspecified	
84	6220 - Alder/willow	26.2	No	Unspecified	
85	6220 - Alder/willow	22.2	No	Unspecified	
86	50 - Water	10.3	No	Unspecified	
87	50 - Water	42.0	No	Unspecified	
90	6220 - Alder/willow	37.3	No	Unspecified	