



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 295

Entry Year 2015

Acreage: 310

County Marquette

Management Area: Michigamme Reservoir

Revision Date: 05/21/2013

Stand Examiner: Dean Wilson

Legal Description:

T47N-R30W, sections 6, 24, T46N-R30W, sections 10, 28; T47N-R29W, section 20, 29, T48N-R30W, section 27.

Identified Planning Goals:

Mixed use.

Soil and topography:

Upland soils range from loamy sands to sandy loams. Lowland soils are organic peats or mucks. Topography ranges from level to moderately hilly.

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

State ownerships in this compartment are scattered parcels ranging from 7 to 160 acres. These tracts are bordered by either non-industrial private or corporate ownerships.

Unique Natural Features:

All these State tracts are associated with water features including lakes Michigamme, Grant, and Twinn, and rivers Michigamme, Black, Spruce, and Trout Falls Creek.

Archeological, Historical, and Cultural Features:

Unknown.

Special Management Designations or Considerations:

Best management practices will be employed to protect water features where special conservation areas are not designated for this purpose.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Compartment 295 is found within the Michigamme Reservoir Management Area; which is a Disintegration Moraine in eastern Iron and western Marquette County. The State Forest covers about 37,300 acres and is in scattered blocks. The dominant Natural Communities are mesic northern forests and poor conifer swamps. Major forest cover types include aspen, northern hardwood, and mixed lowland conifer. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. One of the main features in the Michigamme Reservoir Management Area is a large reservoir complex maintained for hydro electrical power production by Wisconsin Electric. The primary focus is to protect lowland conifer stands and enhance upland conifer in hardwood stands. Nest trees for eagles and ospreys should be protected. Other significant wildlife management issues in the management area are: deer wintering complex; mast (hard and soft); habitat fragmentation; coarse woody debris; early successional forest; mature forest; and retention or development of large living and dead standing trees (for cavities).

The following have been identified as featured species for the Michigamme Reservoir Management Area: Black Bear, Pileated Woodpecker, Northern Goshawk, Ruffed Grouse, and White-Tailed Deer. 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

Surface sediments consist of an end moraine of coarse-textured till sometimes thin to discontinuous over bedrock. The glacial drift thickness varies between 10 and 100 feet. Precambrian Archean Granite/Gneiss and Michigamme Formation

subcrop below the glacial drift. The Granite/Gneiss could be used for building or dimension stone. Gravel pits are located in the area and potential should be good, especially to the west. The abandoned Republic iron mine is located in this area. There are metallic leases in this area. There is no economic oil and gas production in the UP.

Vehicle Access:

Ranges from good to poor depending on surrounding ownerships and land use.

Survey Needs:

The forty in 47-29-20 may need the corners established.

Recreational Facilities and Opportunities:

The State's public baot launch on Lake Michigamme is in this compartment. There are no other developed recreational facilities.

Fire Protection:

No special concerns occur in this compartment.

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

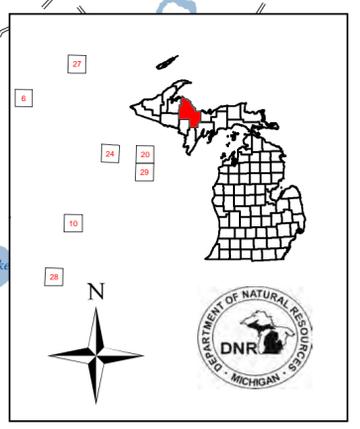
The following information is displayed, where pertinent, on the attached compartment maps:

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

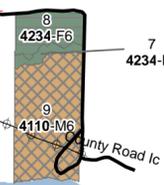
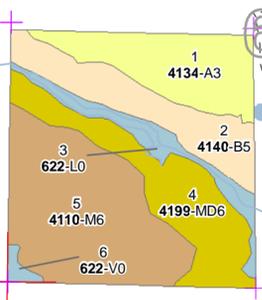
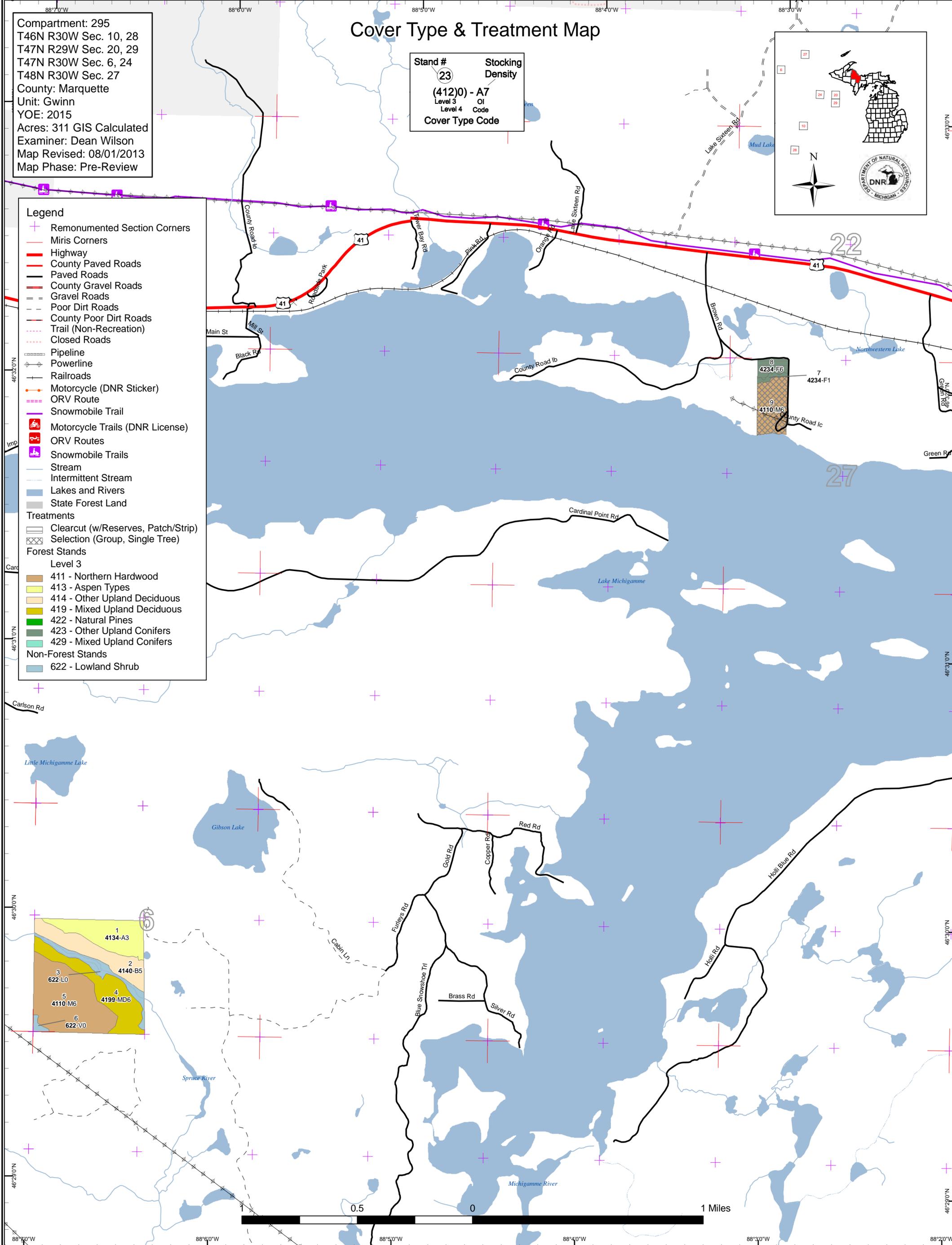
Cover Type & Treatment Map

Compartment: 295
 T46N R30W Sec. 10, 28
 T47N R29W Sec. 20, 29
 T47N R30W Sec. 6, 24
 T48N R30W Sec. 27
 County: Marquette
 Unit: Gwinn
 YOE: 2015
 Acres: 311 GIS Calculated
 Examiner: Dean Wilson
 Map Revised: 08/01/2013
 Map Phase: Pre-Review

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



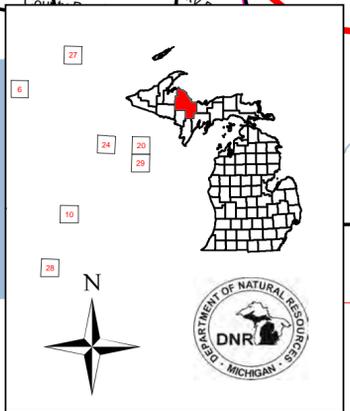
- Legend**
- Remonumented Section Corners
 - Miris Corners
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Closed Roads
 - Pipeline
 - Powerline
 - Railroads
 - Motorcycle (DNR Sticker)
 - ORV Route
 - Snowmobile Trail
 - Motorcycle Trails (DNR License)
 - ORV Routes
 - Snowmobile Trails
 - Stream
 - Intermittent Stream
 - Lakes and Rivers
 - State Forest Land
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
 - Selection (Group, Single Tree)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
- Non-Forest Stands**
- 622 - Lowland Shrub



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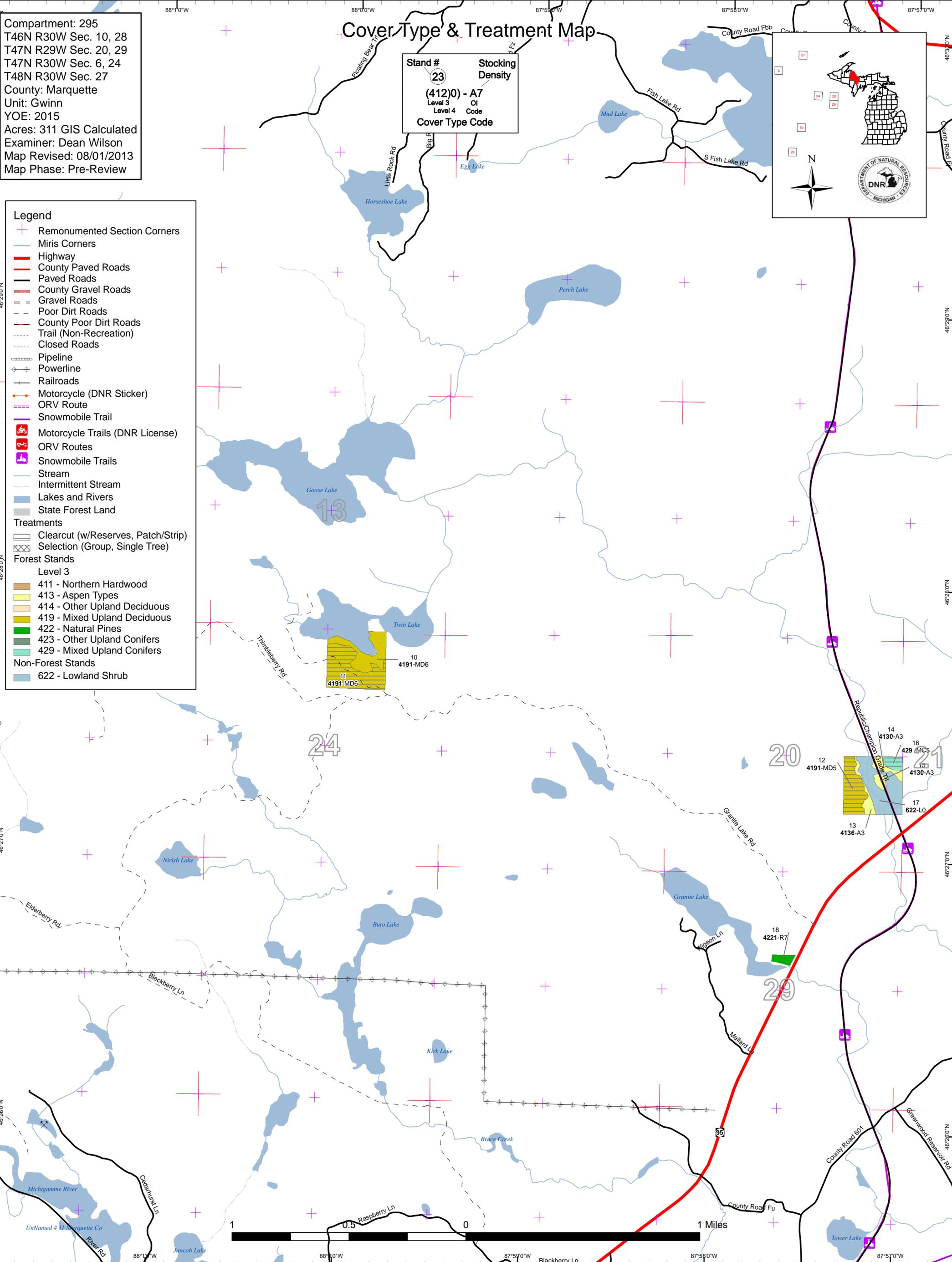
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Non-Forest Stands

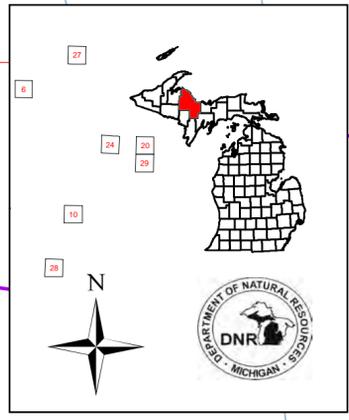
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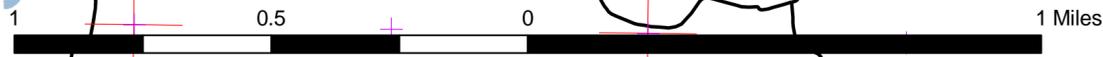
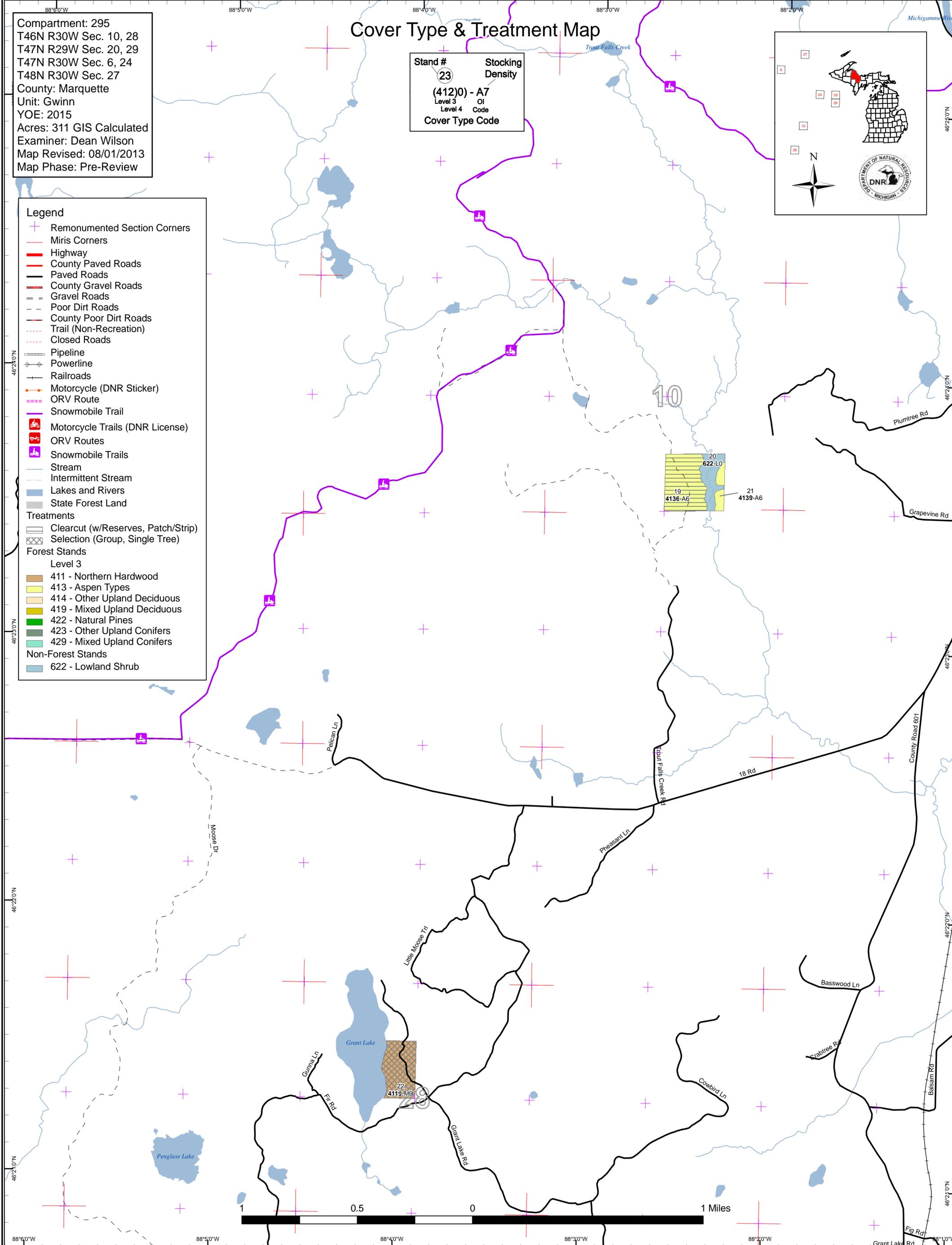
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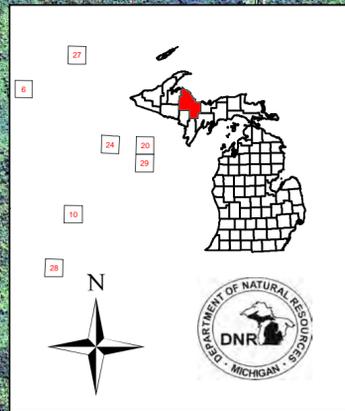


88°10'W 88°5'W 88°4'W 88°3'W 88°2'W 88°1'W
 46°21'N 46°20'N 46°19'N 46°18'N 46°17'N 46°16'N

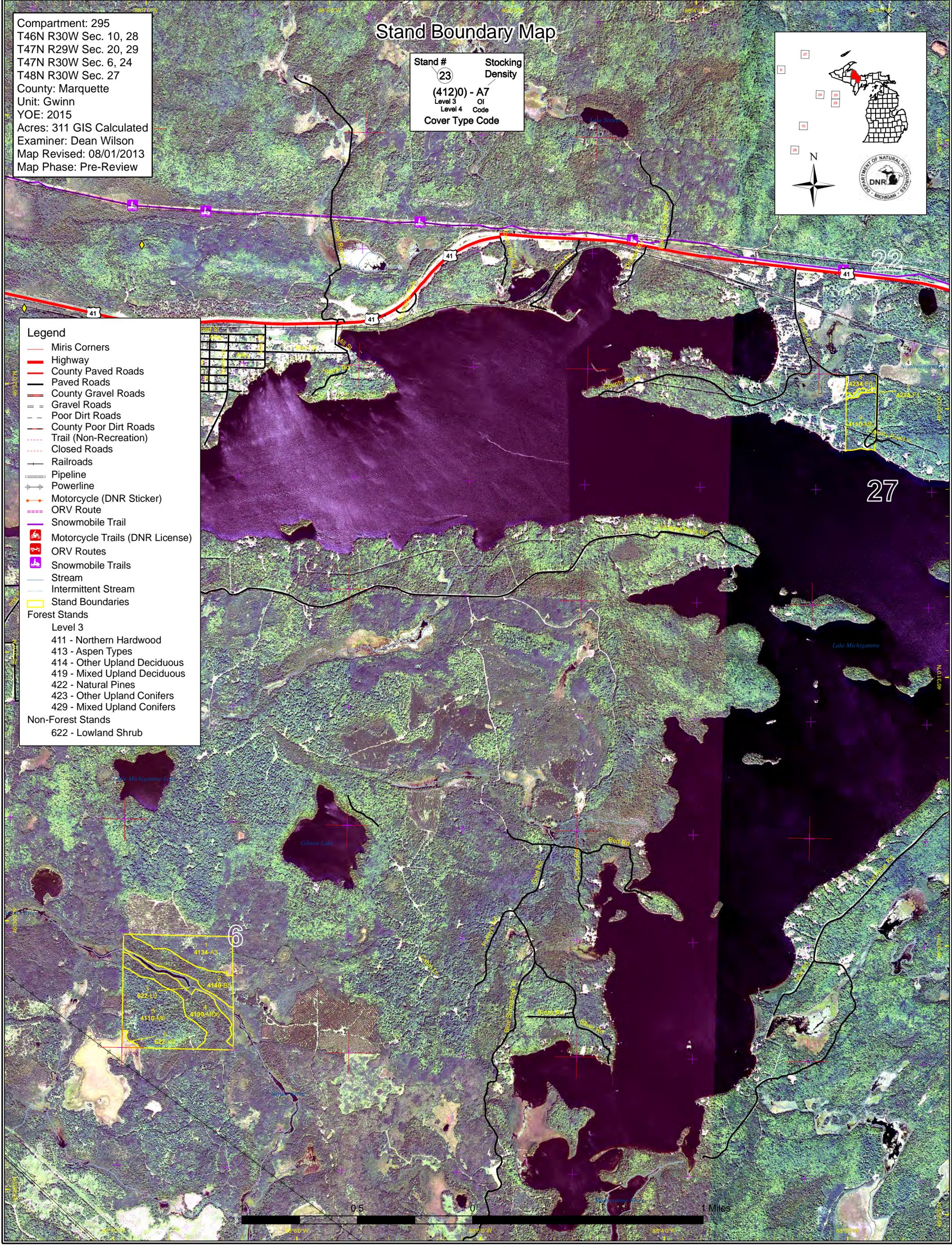
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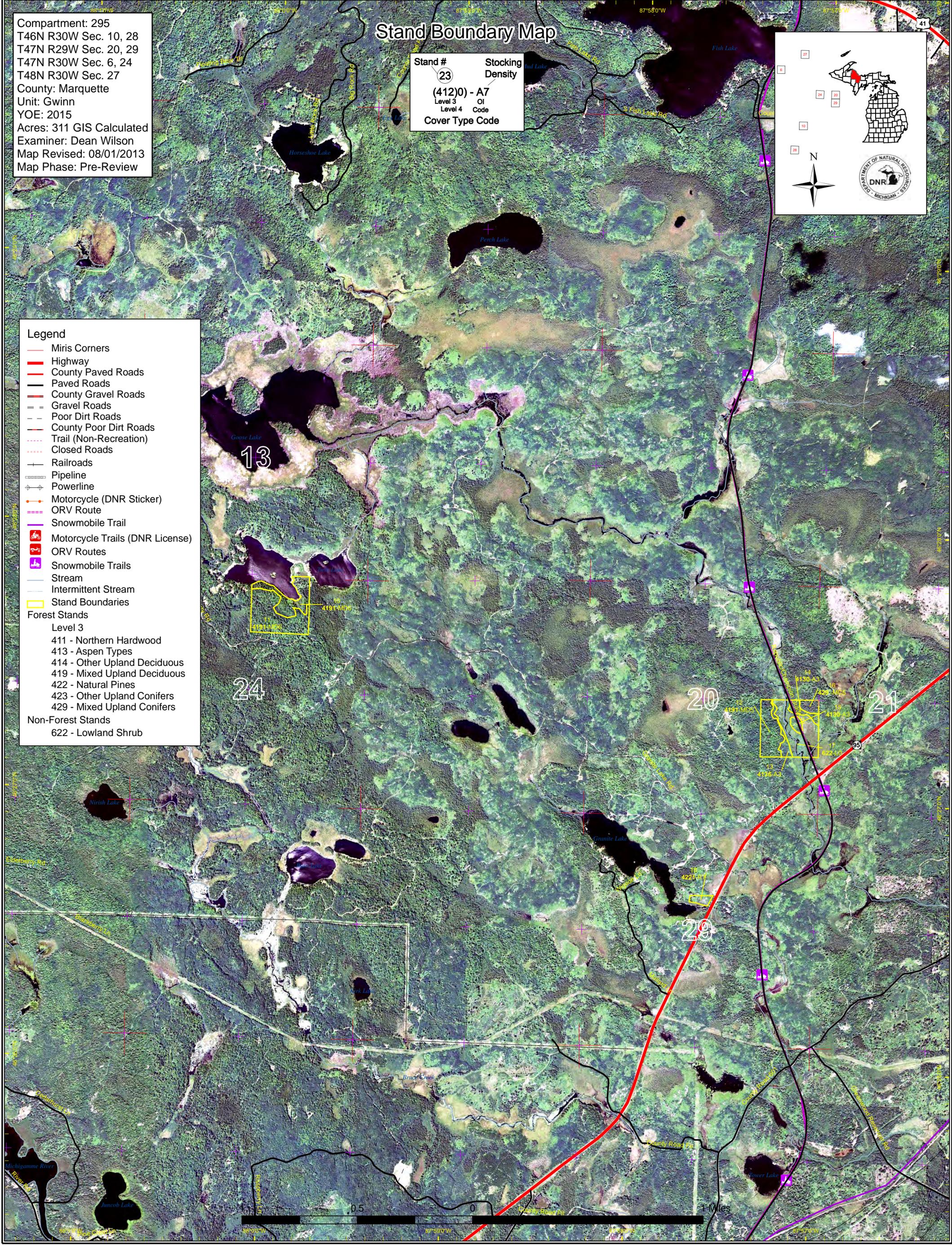
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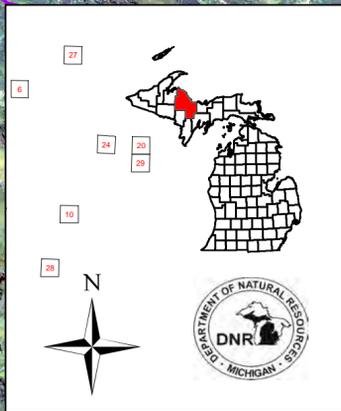
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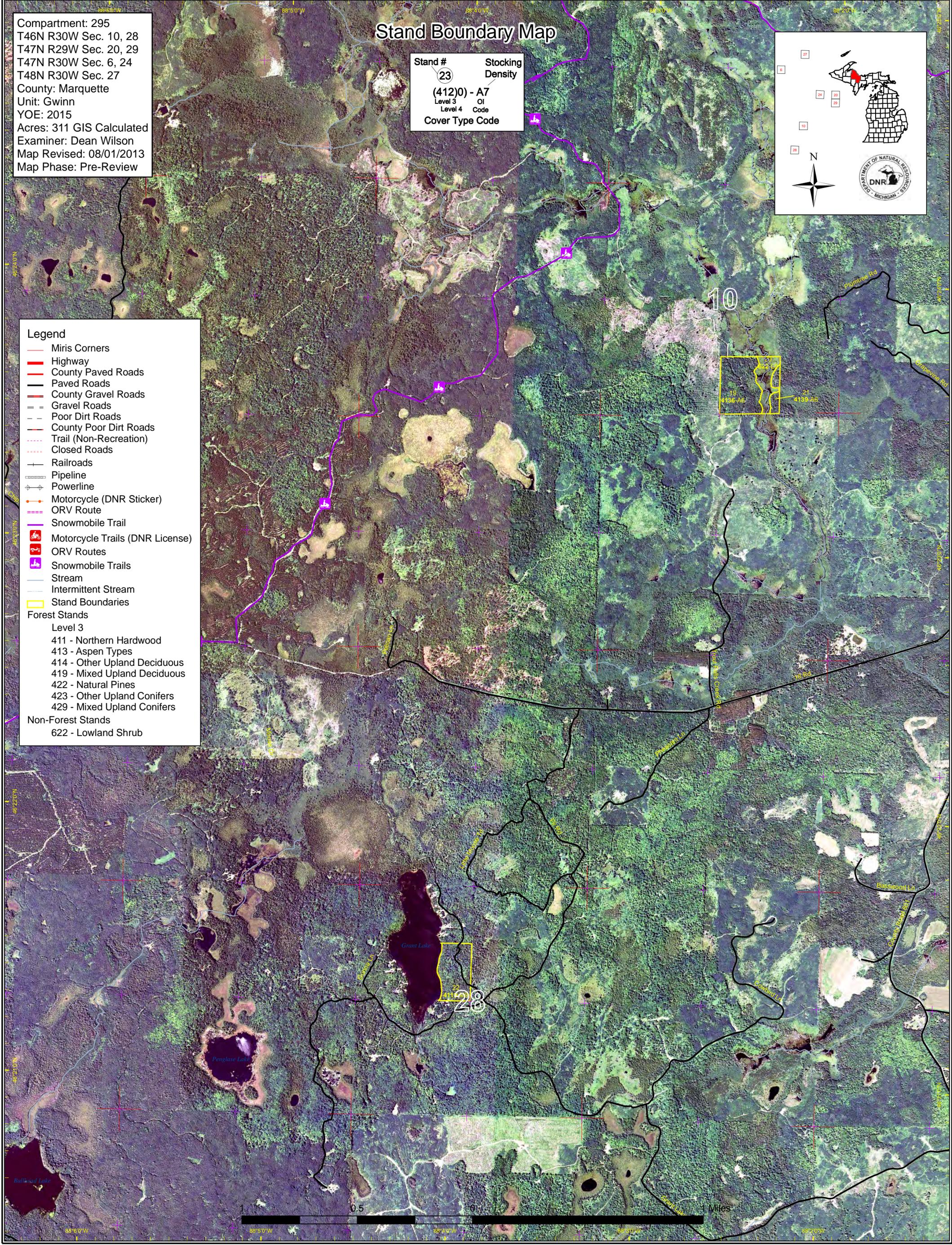
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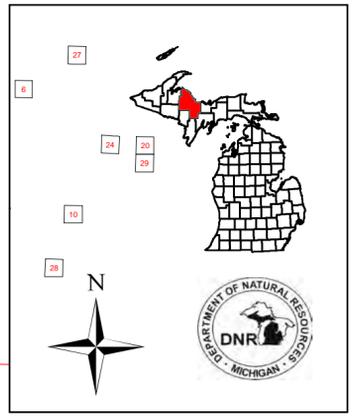


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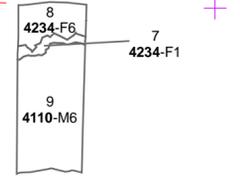
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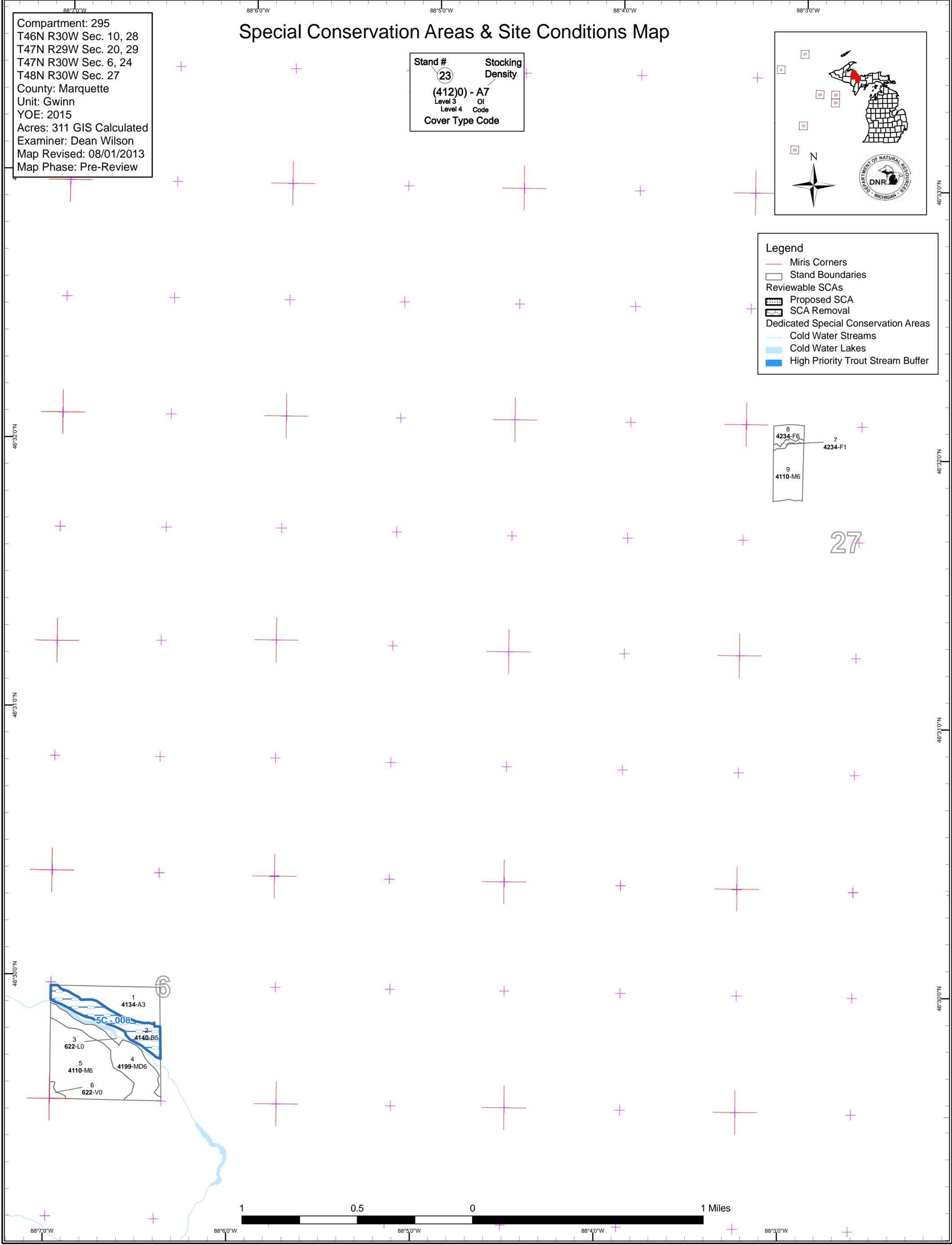
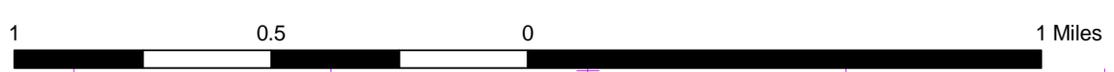
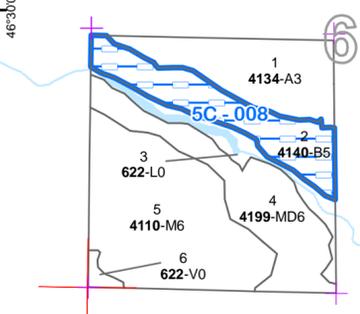
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 - SCA Removal
 - Dedicated Special Conservation Areas**
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer



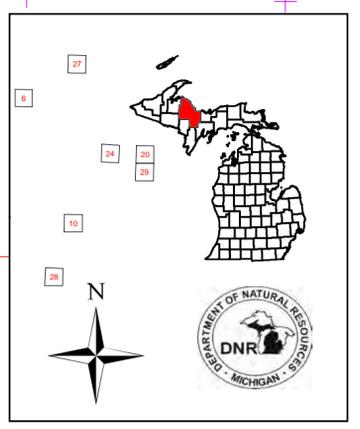
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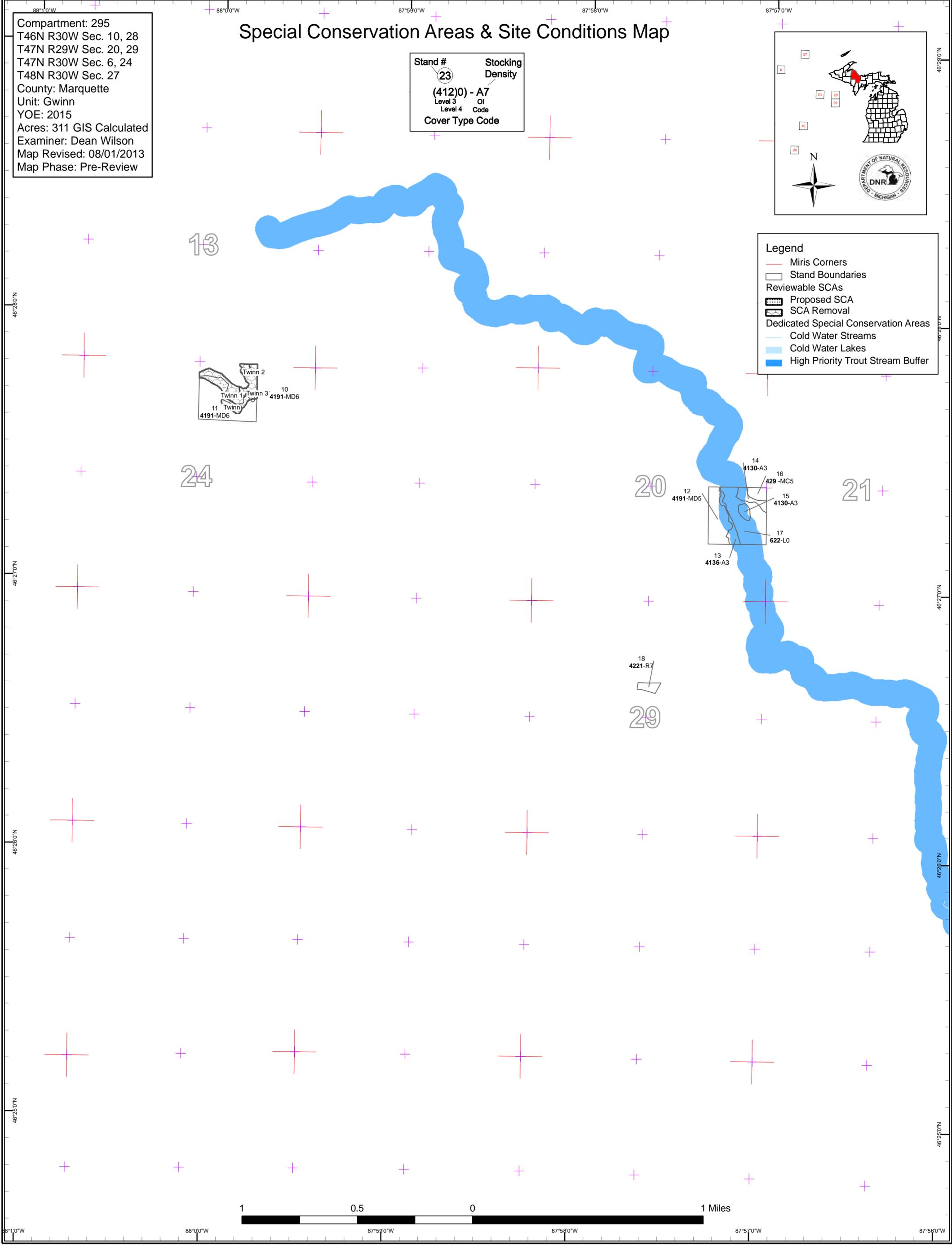
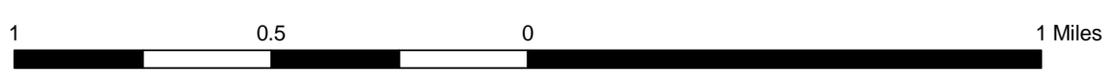
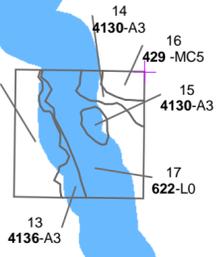
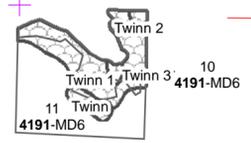
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Special Conservation Areas & Site Conditions Map

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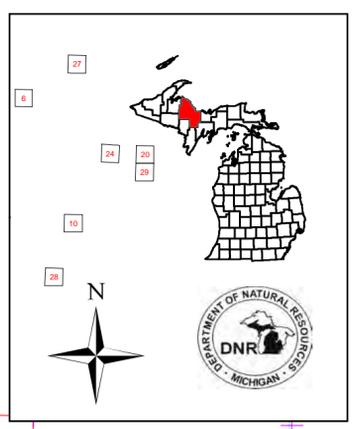
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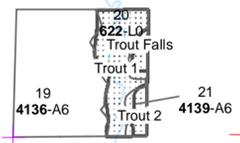
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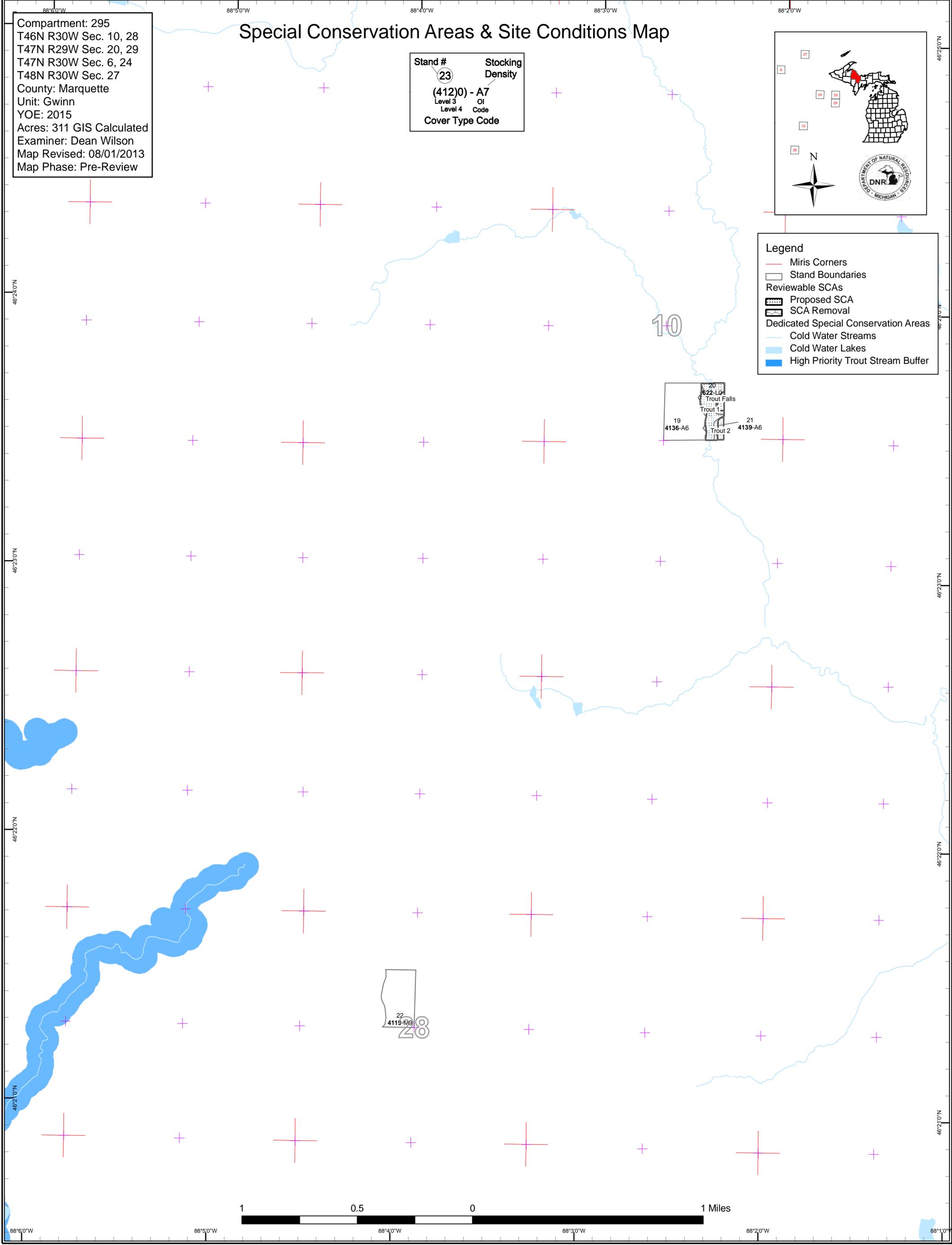


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10



22
4119-A9
28



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	0	35	0	0	0	0	30	0	0	0	0	0	0	0	65
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	75	0	0	0	0	75
Northern Hardwood	0	0	0	0	0	0	0	0	0	94	0	0	0	0	94
Paper Birch	0	0	0	0	0	0	0	0	0	25	0	0	0	0	25
Red Pine	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Upland Spruce/Fir	0	1	0	0	0	6	0	0	0	0	0	0	0	0	7
Total	40	36	0	0	0	8	33	0	0	193	0	0	0	0	311



Report 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2015

Compartment 295
Total Compartment Acres: 310

Acres by Treatment Type

Commercial Harvest - 108 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	26	0	0	0	0	0	26
Mixed Upland Conifers	3	0	0	0	0	0	3
Mixed Upland Deciduous	33	0	0	0	0	0	33
Northern Hardwood	0	40	0	0	0	0	40
Other Upland Conifers	6	0	0	0	0	0	6
Total	68	40	0	0	0	0	108



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	32295008-Cut	5.9	42340 - Upland Spruce/Fir	High Density Pole	57	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Clear cut. Leave 3 to 6 spruce and or fir trees per acre. Retain 2 clumps of 15 + aspen trees.										
<u>Specs:</u>										
<u>Other</u> Cut all maple stems 2 inches and larger Dbh.										
<u>Comments:</u>										
<u>Next</u> Check regeneration per work guidelines.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
9	32295009-Cut	19.4	4110 - Sugar Maple Association	High Density Pole	93	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark individual trees for harvest. Favor retention of basswood. Retain spruce and large aspen trees.										
<u>Specs:</u>										
<u>Other</u> Focus marking on removing defect and releasing existing regeneration.										
<u>Comments:</u>										
<u>Next</u> Check regeneration per work guidelines.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
11	32295011-Cut	21.0	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	93	51-80	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clear cut retaining all the white pine and white spruce that are less than or equal to 8 inches on the stump measured at a point 6 inches above ground level.										
<u>Specs:</u>										
<u>Other</u> Kimberly Clark has established th SE ,SW and NW corners.										
<u>Comments:</u>										
<u>Next</u> Check regeneration per work guidelines.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
12	32295012-Cut	11.9	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	93	51-80	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clear cut with reserves.										
<u>Specs:</u>										
<u>Other</u> Retain all the white pine, some large aspen, and the white spruce that have a stump diameter less than or equal to 8 inches measured at a point										
<u>Comments:</u> 6 inches above ground level.										
<u>Next</u> Check regeneration per work guidelines.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	32295016-Cut	2.6	429 - Mixed Upland Conifers	Medium Density Pole	63	51-80	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal

Prescription Clear cut retaining all the black cherry, white pine and white spruce.

Specs:

Other

Comments:

Next Steps: Check regeneration per work guidelines.

Proposed

Start Date: 10/01/2014

19	32295019-Cut	26.3	4136 - Aspen, Mixed Conifer	High Density Pole	68	111-140	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
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Prescription Clear cut retaining 3 to 6 white pine per acre, some large aspen, and the white spruce that ar less than or equal to 8 inches on the stump

Specs: measured at a poine 6 inches above ground level. Retain all the black cherry.

Other

The property lines are established.

Comments:

Next Steps: Check regeneration per work guidelines.

Proposed

Start Date: 10/01/2014

22	32295022-Cut	21.1	4119 - Mixed Northern Hardwoods	High Density Log	93	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Mark individual trees for harvest. Favor retaining yellow birch. Retain all hemlock, cedar, white pine, and tamarack.

Specs:

Other

Use best management practices to buffer the Lake. Could not treat or treat differently the lowland inclusion on the south side.

Comments:

Next Steps: Check regeneration per work guilelines.

Proposed

Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 108.2**



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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
Dean Wilson : Examiner

Compartment 295
Year of Entry 2015

Availability for Management

Total Acres			Dominant Site Conditions	
Acres	Available	Not Available	No	5C
65	65		Aspen	65
75	75		Mixed Upland Deciduous	75
94	94		Northern Hardwood	94
25	25		Paper Birch	25
2	2		Red Pine	2
3	3		Upland Conifers	3
7	7		Upland Spruce/Fir	7
271	271		Total Forested Acres	246
	100%		Relative Percent	25

**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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25				
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
Trout Falls Comments Riparian zone.	Spring-Seeps, Riparian Areas	Riparian Area	SCA	1.3
Trout 2 Comments Riparian zone.	Spring-Seeps, Riparian Areas	Riparian Area	SCA	1.6
Trout 1 Comments Riparian zone	Spring-Seeps, Riparian Areas	Riparian Area	SCA	10.9
Twinn 2 Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	0.5
Twinn 3 Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	0.7
Twinn Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	1.9
Twinn 1 Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	12.6



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: 295
Year of Entry: 2015

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4134 - Aspen, Spruce/Fir	High Density Sapling	27.1	17		Harvested in 1996: TS# 24-95.
2	4140 - Other Upland Deciduous	Medium Density Pole	24.8	93	51-80	SCA = Riparian zone protection.
4	4199 - Other Mixed Upland Deciduous	High Density Pole	30.5	93	51-80	SCA = Riparian zone protection.
5	4110 - Sugar Maple Association	High Density Pole	53.4	93	51-80	Harvested in 2009: TS# 323-06-01.
7	42340 - Upland Spruce/Fir	Low Density Sapling	1.5	15		
8	42340 - Upland Spruce/Fir	High Density Pole	5.9	57	51-80	Clear cut with reserves.
9	4110 - Sugar Maple Association	High Density Pole	19.4	93	81-110	Individual tree selection.
10	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	11.3	93	51-80	SCA = Riparian zone protection.
11	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	21.0	93	51-80	Clear cut with reserves.
12	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	11.9	93	51-80	Clear cut with reserves.
13	4136 - Aspen, Mixed Conifer	High Density Sapling	3.0	14		
14	4130 - Aspen	High Density Sapling	3.0	14		
15	4130 - Aspen	High Density Sapling	1.8	14		
16	429 - Mixed Upland Conifers	Medium Density Pole	2.6	63	51-80	Clear cut.
18	42210 - Natural Red Pine	Low Density Log	2.1	58	1-50	
19	4136 - Aspen, Mixed Conifer	High Density Pole	26.3	68	111-140	Clear cut with reserves. Low land conifer inclusion on east side.
21	4139 - Aspen, Mixed Deciduous	High Density Pole	4.1	68	81-110	SCA = Riparian zone protection.
22	4119 - Mixed Northern Hardwoods	High Density Log	21.1	93	111-140	Individual tree selection. Harvested in 1996: TS# 1-96. Lowland conifer inclusion in south end and along Lake.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	622 - Lowland Shrub	11.1	No	Unspecified	
6	6225 - Bog	1.6	No	Unspecified	
17	6229 - Mixed lowland shrub	17.1	N/A	Unspecified	
20	6223 - Inundated Shrub Swamp	10.0	No	Unspecified	