



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 36 ENTRY YEAR: 2010

Compartment Acreage: 1736 GIS acres: 1736 County: 52 Marquette

Revision Date: 8/07/08

Stand Examiner: Kevin LaBumbard

Legal Description: Sections 19, 30 & 31, T45N-R26W, Marquette County

Management Goals: Located to the west of Gwinn, this compartment contains a variety of timber types and is a very popular recreational area; with hunting, and the Bass Lake Motorcycle Trail of primary importance.

Most of the Aspen types are being managed for age class distribution, and two stands are scheduled for final harvest while maintaining white pine and other valuable conifers. Management goals of the scheduled hardwood stand is to improve stem quality and diameter class distribution by removing defective trees while maintaining species diversity, conifer content, and den trees. Mesic conifer composition will be enhanced thru underplanting of hemlock and/or white pine in this stand. All harvest plans will include considerations for conifer retention, species diversity, coarse woody debris, and BMP's.

Special conservation area stands have been selected to protect and enhance the riparian values and wildlife travel corridors around Crooked Lake, a small bog lake, and along the wetlands associated with Poplar Creek.

Soils and topography Terrain ranges from flat in the southern end of the comp. to very steep ridges and sink holes in the north. Soils are mostly excessively drained sands including Rubicon, Crosswell, Munising, and Kalkaska.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Mostly state land with private camps/residences especially around Crooked and Bass lakes.

Unique, Natural Features

Archeological, Historical, and Cultural Features

Special Management Designations or Considerations:

Special Conservation Area Stands: 8,22,23,26,27,54. There were no additions or subtractions of SCA stands this treatment period.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Maintain and protect riparian and lakeside "Special Conservation Area" stands as movement corridors and core habitat for a multitude of game and nongame wildlife species/communities. Promote habitat legacies in all "Special Conservation Area" stands. Maintain or

enhance biodiversity in northern hardwood stands through conservation/sustainment of all associated overstory and understory species, with a particular focus on providing mesic conifer species in all forest strata. Develop the best possible age class distribution of aspen stands while retaining the diversity of associate species within the stands. Oak is to be retained in all treated stands and oak regeneration should be promoted and protected wherever possible.

Mineral Resource and Development Concerns and/or Restrictions: Sections 19, 30 & 31, T45N-R26W, Marquette County

Surface sediments consist of coarse-textured till . The glacial drift thickness varies between 100 and 200 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. These rocks could have potential as dimension stone. A gravel pit is located two miles to the east and there should be potential on the uplands. Abandoned iron mines are located six miles to the east. Most of this Compartment was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Very good off of Charlie Lakes Road and Section 32 Road.

Survey Needs: none

Recreational Facilities and Opportunities: Recreational activity for this area is popular for upland hunting of ruffed grouse, woodcock and whitetail deer. In addition, the Bass Lake Motorcycle Trail runs thru this compartment. Nearby State Forest campgrounds include Bass Lake and Pike Lake campgrounds.

Fire Protection: This compartment has a moderate risk for wildfire.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 36

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen		318	324	37	281	19			6	37									1022
Bog or Marsh	18																		18
Grass	81																		81
Lowlnd Brush	44																		44
Mx Swmp Cnfr									141										141
Non Stocked	9																		9
Paper Birch								44											44
Red Pine									65										65
Upland Hdwds																		301	301
Water	11																		11
Total	163	318	324	37	281	19		44	212	37								301	1736

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 36

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	1022																										1022
V Bog or Marsh			18																								18
G Grass					81																						81
L Lowlnd Brush									44																		44
Q Mx Swmp Cnfr												141															141
X Non Stocked													9														9
B Paper Birch															44												44
R Red Pine																65											65
M Upland Hdwds																								301			301
Z Water																									11		11
Total	1022		18		81				44			141	9		44	65								301	11		1736

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **36**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9163 Cds	Hardwood	641 Cds
Hardwood	170 Mbf	Softwood	100 Cds
Softwood	3275 Cds	Sum CutVol	741 Cds
Softwood	873 Mbf		
Sum TotVol	14524 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	54
1736			

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 36

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
25	A6	25	83	65	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : A5F5B4M4 Stand is quite variable with a mix of aspen, fir, white spruce, white birch and red maple. Better stocking to the east. Stand also contains a few very large white spruce, white pine, and small cherry which will be retained for wildlife/diversity. The Bass Lake Motorcycle trail runs through the stand on the west.</p> <p>Wld : Retain some white birch, white spruce, and black spruce. Leave all white pine, hemlock, cedar, and oak.</p>										
36	A6	6	69	46	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Aspen is large, overmature and dying out of the stand . Scattered white spruce and red maple. Heavy red maple understory. Some scattered white pine regeneration. Aspen and/or white pine are both acceptable species for regeneration. Long term M:O will probably be white pine. Retain all white and red pine, red oak.</p> <p>Wld : Leave all cedar, white pine, oak, and hemlock.</p>										
40	M6	17		50	northern hardwood	immature	thinning	2	planting	
<p>comnts Fmd : Evenaged stand of decent quality hardwoods. Contains a higher percentage of large aspen and red oak sawtimber in the northern portion of the stand. DBH and basal area decrease moving north to south, and as a result, the sale will be concentrated to the northern portion of the stand.. Fairly hilly. The Bass Lake Motorcycle Trail runs through the north part of the stand. All red oak will be retained as will a few large aspen and any conifers.</p> <p>Wld : Underplant mesic conifers.</p>										
48	A5	6	82	75	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Mature aspen with occasional red oak pole. The stand is situated on both sides of a fairly steep but shallow ravine. The scattered white spruce and white birch will be retained, as well as the red oak. The Bass Lake Motorcycle Trail runs thru this stand. To protect the integrity of the trail, leave trees will be marked with orange paint and 5-8' of the bole will be left standing.</p> <p>Wld : Remove all maple. Reserve all cedar, hemlock, white pine, and oak.</p>										
403	G0	3		70	grass	nonstocked		0	opening maintenance	
<p>Wld : 90 percent openland. Site is level but rough. Jack pine, fir, and white spruce saplings filling in. Some cherry brush.</p>										
415	G0	7		71	grass	nonstocked		0	opening maintenance	
<p>comnts Fmd : Roller chopped FEB. 1998</p> <p>Wld : Attempt to keep core area of opening free of invading woody plants, leaving majority of jack pine fringe intact. Stand approximately 70% open. Nice areas of grass forage. Level but rough. Closing in with cherry brush. Valuable upland wildlife habitat next to extensive lowland conifer areas. Will need to manage opening in ways that don't interfere with existing eagle nesting and brooding habitat.</p>										
Total Acres.....		64								

**Proposed Treatments
With Limiting Factors**

Compartment: 36

Entry Year:2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

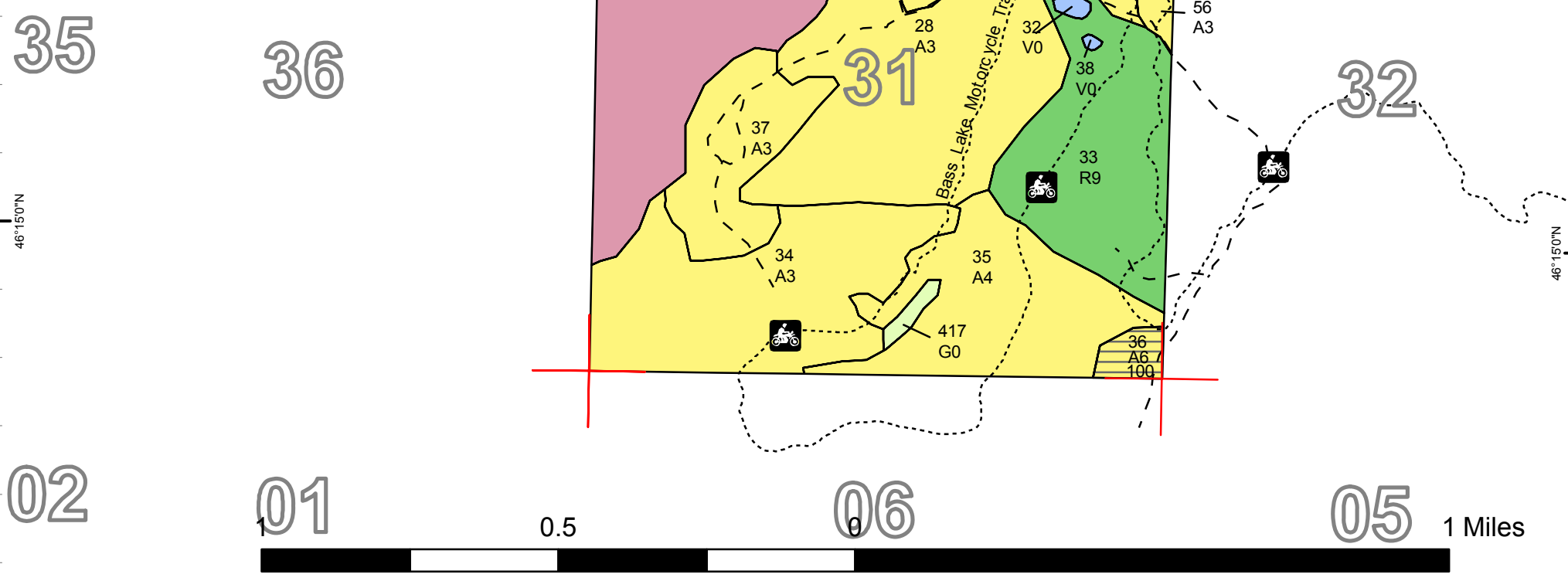
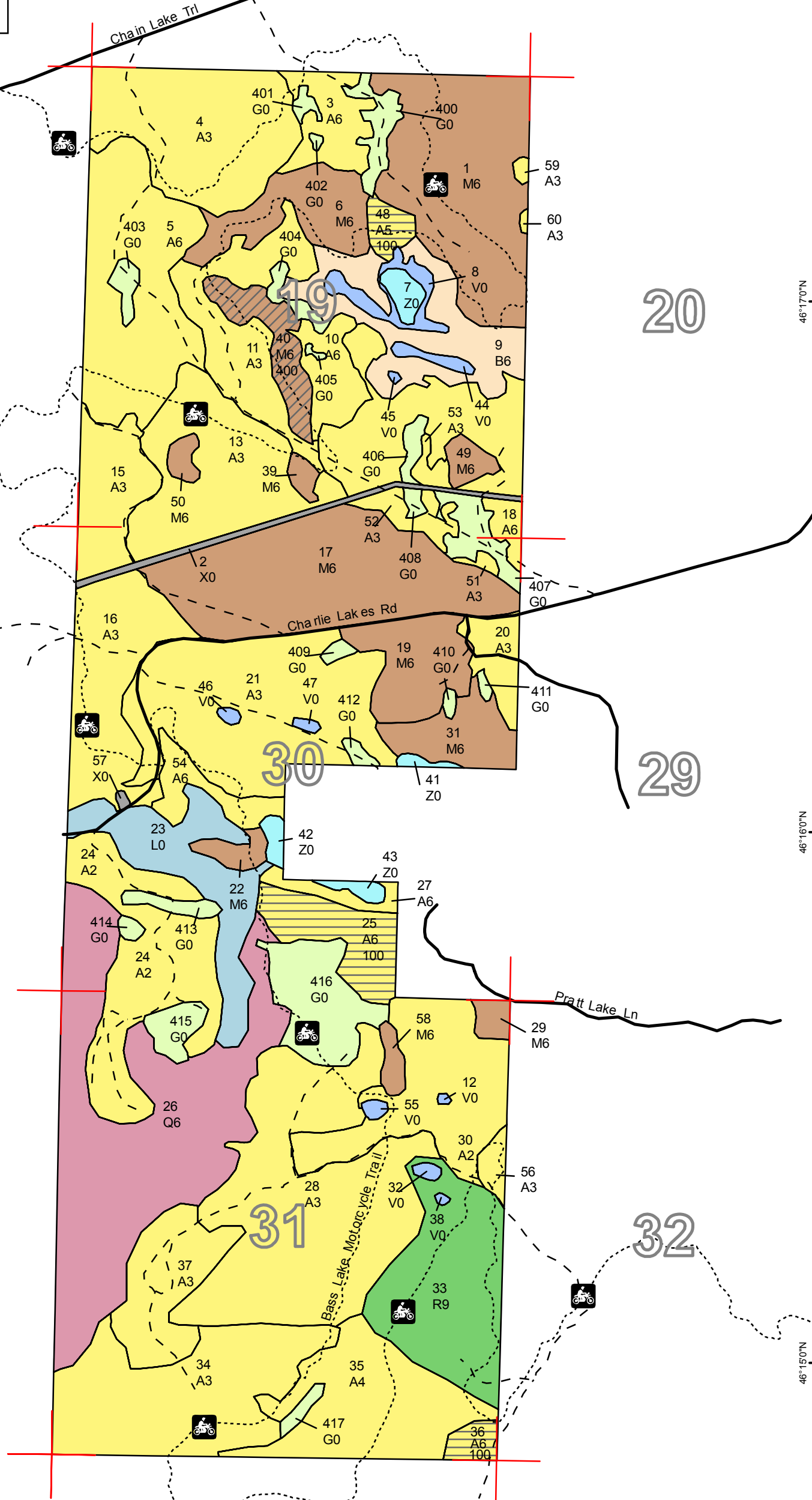
Total Acres..... 0

Compartment 36
 T45N, R26W, Sec. 19, 30, 31
 County: Marquette
 Unit: Gwinn
 YOE: 2010
 Acres: 1,736 GIS Calculated
 Stand Examiner: Kevin LaBumbard
 Map Revised: 9/02/2008
 Map Phase: Pre-review

Cover Type and Treatment

Legend

- Miris Corners
- Paved
- Poor Dirt Roads
- Trails
- MCCCT Trails
- Stand Boundary
- 100 - Final Harvest
- 400 - Thinning
- A - Aspen
- B - Paper Birch
- G - Grass
- L - Lowland Brush
- M - Northern Hardwoods
- Q - Mixed Swamp Conifers
- R - Red Pine
- V - Bog or Muskeg
- X - Non-Stocked
- Z - Water



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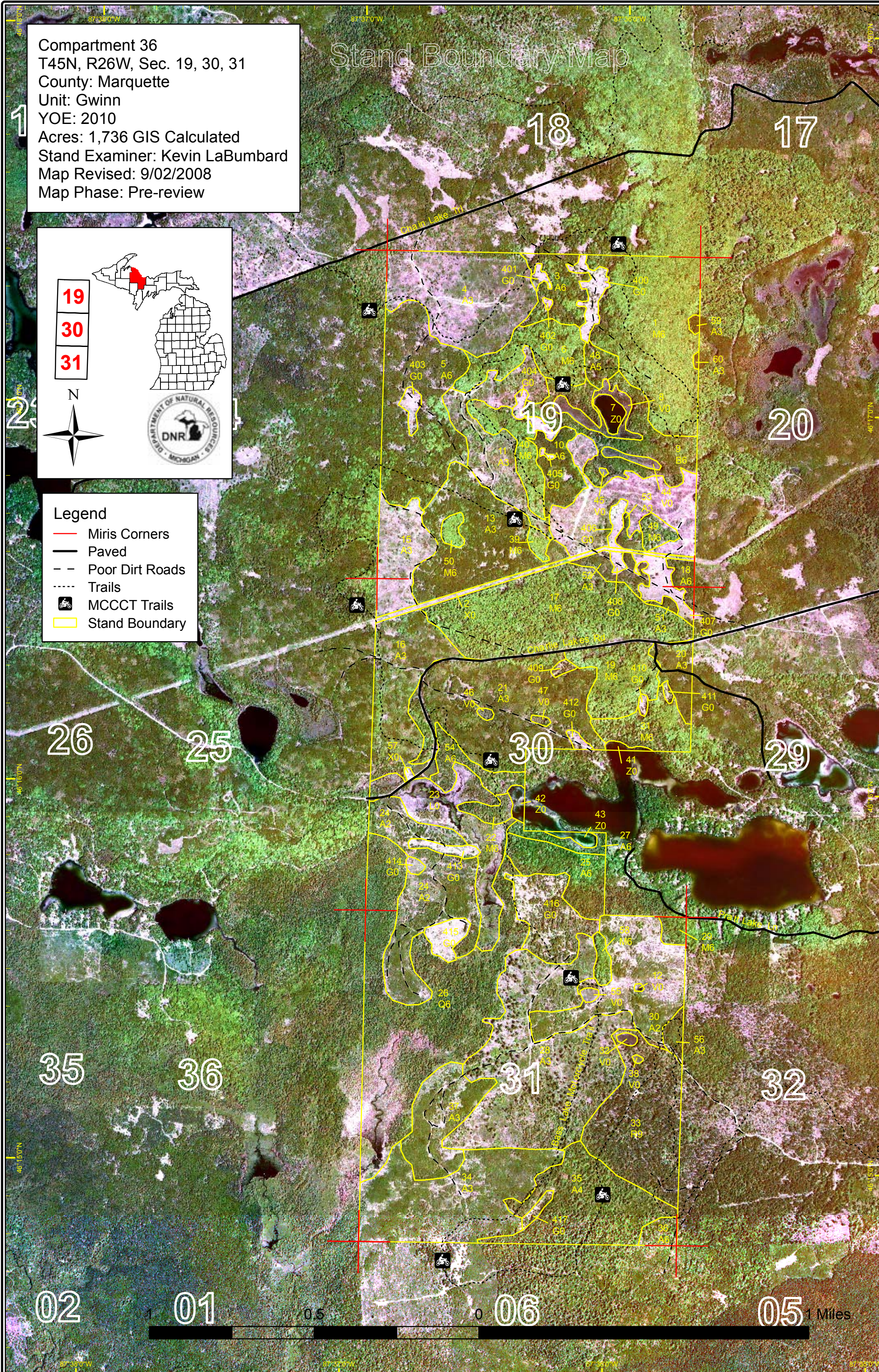
Stand Boundary Map

19
 30
 31

N
 DEPARTMENT OF NATURAL RESOURCES
 DNR
 MICHIGAN

Legend

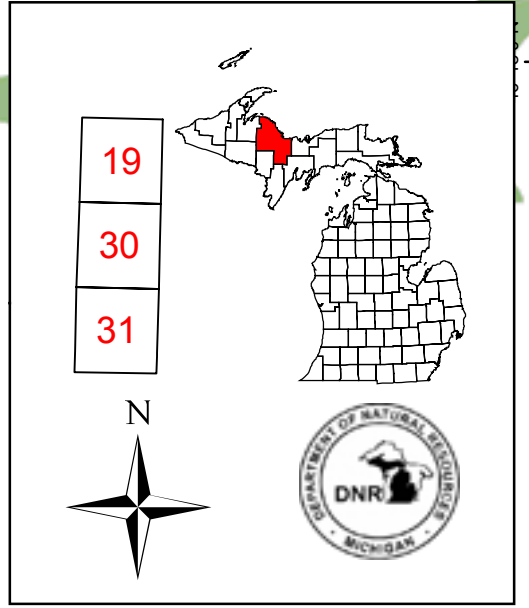
- Miris Corners
- Paved
- Poor Dirt Roads
- Trails
- MCCCT Trails
- Stand Boundary



02 01 0.5 0 06 05 1 Miles

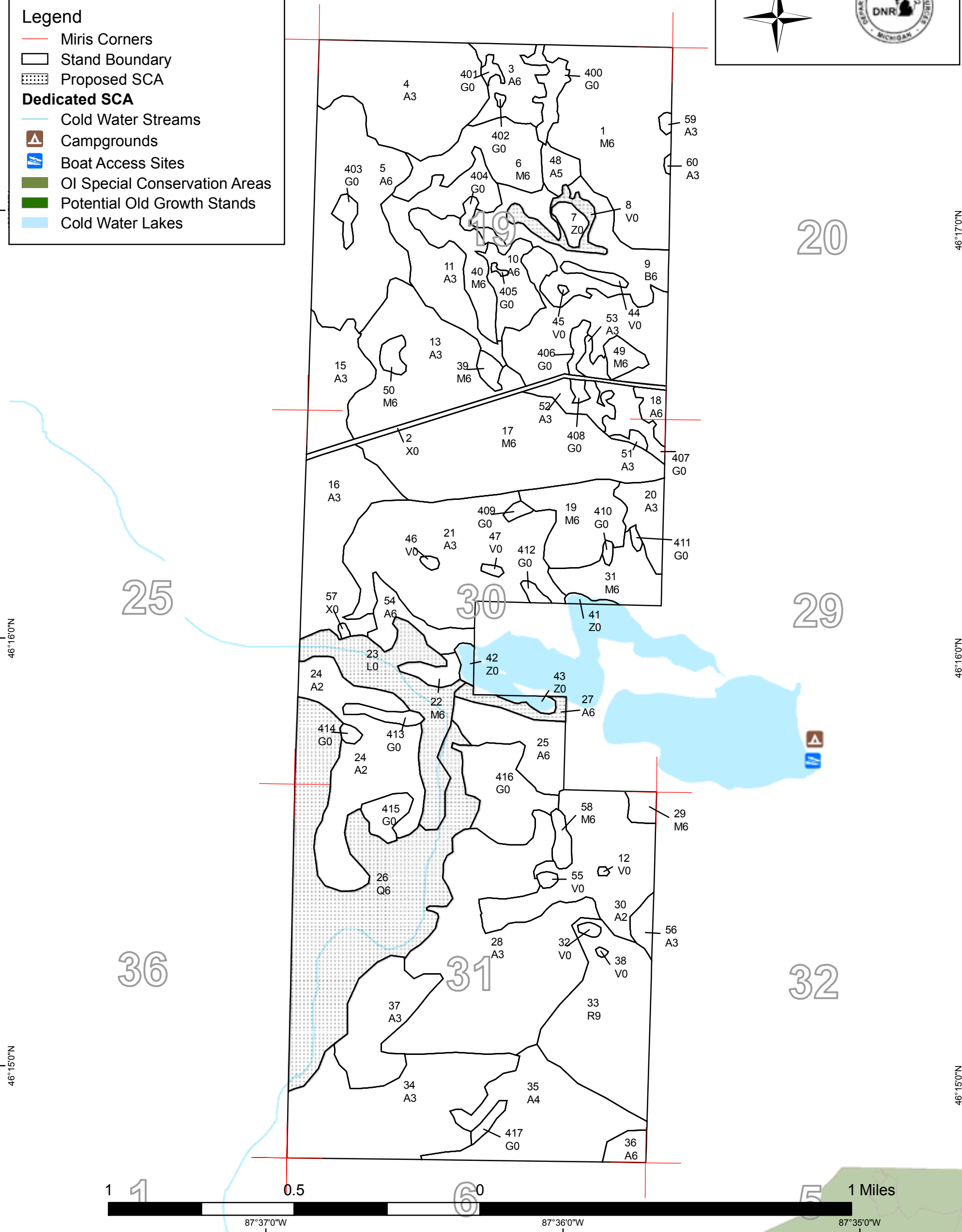
Dedicated & Proposed Special Conservation Area Map

Compartment 36
 T45N, R26W, Sec. 19, 30, 31
 County: Marquette
 Unit: Gwinn
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Legend

- Miris Corners
- Stand Boundary
- Proposed SCA
- Dedicated SCA**
- Cold Water Streams
- Campgrounds
- Boat Access Sites
- Old Special Conservation Areas
- Potential Old Growth Stands
- Cold Water Lakes





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	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.