



ESCANABA FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 038 ENTRY YEAR: 2011

Compartment Acreage: 1809 County: Menominee

Stand Examiner: Dan Racine, Forester, FMFM; Bill Rollo and Craig Albright, Wildlife Division

Legal Description: T36N R24W Sections 17, 18, 19, 20, 29 & 30

Management Goals: The majority of the cover types within this compartment consist of older age class Hemlock and Cedar stands. The majority of the upland cover types are Aspen and Upland Hardwoods. The age class of the Aspen cover type is younger with all acres within this compartment less than 40 years old. The Upland Hardwood stands are mostly larger diameter and have a component of Hemlock. There are three stands proposed for harvest within the Upland Hardwoods. The purpose of these treatments is to create opportunities for regeneration and improve the existing stand quality. There is one Black Spruce stand limited by access with a Seed Tree proposed harvest. The Special Conservation Areas are the Deer Creek Riparian Area Corridor and the Lake Michigan Watershed.

Soil and Topography: The topography within this compartment is nearly level. The majority of the soil complexes within this compartment are Deford-Wainola-Rousseau, Tawas-Deford, Pickford mucky silty clay loam, Solona loam, Johnswood-Detour, Lupton-cathrow, Cathro-Ensley.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Within the compartment is state land interspersed with private land. The compartment borders mostly private and some state land. There are permanent and temporary residences along the Lake Michigan shoreline and hunting land and camps within the compartment boundaries.

Unique, Natural Features: Deer Creek and Lake Michigan.

Archeological, Historical, and Cultural Features: Remnants of logging camp stone foundation within Stand 18.

Special Management Designations or Considerations: Deer Creek riparian area corridor and Lake Michigan shoreline.

Watershed and Fisheries Considerations: Lake Michigan borders the eastern side of the compartment and the Deer Creek transects the west side.

Wildlife Habitat Considerations: This compartment lies adjacent the Lake Michigan shoreline and contains a high proportion (43%) of cedar swamp and mixed swamp conifer. Hemlock forest is also prevalent in this area, with hemlock stands covering 111 acres. Due to the relatively modest age of most cedar and hemlock and the difficulty in regenerating these types, they will be maintained without treatment for the cover values they provide for wildlife. Likewise, upland cedar and hemlock will be safeguarded to the extent possible when northern hardwood stands are select cut in the northwest portion of the compartment.

In the uplands, aspen and balsam poplar predominate with most of it being less than 30 years old. These stands tend to have interspersed pockets that are poorly stocked with trees but support lush growths of goldenrod, raspberry, thimbleberry, and other herbaceous plants. Rather than planting these pockets to spruce, Wildlife Division requested they be maintained as grass/upland brush habitat for wildlife. They will gradually fill with conifers and aspen during the next harvest cycle.

Forest stands along Deer Creek and the Lake Michigan shoreline have been designated a "Special Conservation Area" (SCA) where natural processes will be allowed to operate. Most of these stands are hemlock or cedar that have an origin date in the mid to late 1800's. These stands will provide mature forest habitat (large trees, snags, den and cavity trees, dead woody debris) along the Deer Creek riparian corridor and the lake shore.

Mineral Resource and Development Concerns and/or Restrictions: Gravel in hardwood ridges in section 18.

Vehicle Access: Access off Highway M-35 in the Northeast portion. There is poor public access to the rest of the compartment.

Survey Needs: Approximately 2 miles of line work along the NW corner and SW corner.

Recreational Facilities and Opportunities: No facilities. Hunting and fishing are the two primary recreational uses.

Fire Protection: There is a good water source with Lake Michigan and Deer Creek. The cover types represented in this compartment do not pose a significant problem with Fire Protection. There are structures along the Lake Michigan Shoreline as well as camps interior to the compartment.

Additional Compartment Information:

****** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

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 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

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 38

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		72	113	133	28														346
Black Spruce											19								19
Cedar							4				8	51	110	258	397	5			833
Grass	6																		6
Hemlock														5	61		56		122
Lowlnd Poplr			23	33	17	25													98
Marsh	78																		78
Mx Swmp Cnfr		14												33					47
Non Stocked	16																		16
Spruce Fir				13				9											22
Swamp Hrdwds					6			14			8	4	12		18			7	69
Tamarack																		8	8
Upland Hdwds											18	47						78	143
Water	2																		2
Total	102	86	136	179	51	25	4	23			53	102	122	296	476	5	56	93	1809

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

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MENOMINEE COUNTY

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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	346																										346
S Black Spruce		19																									19
C Cedar				833																							833
G Grass					6																						6
H Hemlock						122																					122
P Lowlnd Poplr										98																	98
N Marsh											78																78
Q Mx Swmp Cnfr												47															47
X Non Stocked													16														16
F Spruce Fir																			22								22
E Swamp Hrdwds																				69							69
T Tamarack																					8						8
M Upland Hdwds																								143			143
Z Water																									2		2
Total	346	19		833	6	122				98	78	47	16						22	69	8				143	2	1809

ESCANABA RIVER STATE FOREST

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MENOMINEE COUNTY

COMPARTMENT: **38**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6894 Cds	Hardwood	479 Cds
Hardwood	399 Mbf	Hardwood	66 Mbf
Softwood	24618 Cds	Softwood	341 Cds
Softwood	34 Mbf	Sum CutVol	952 Cds
Sum TotVol	32378 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	
1809		104	

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

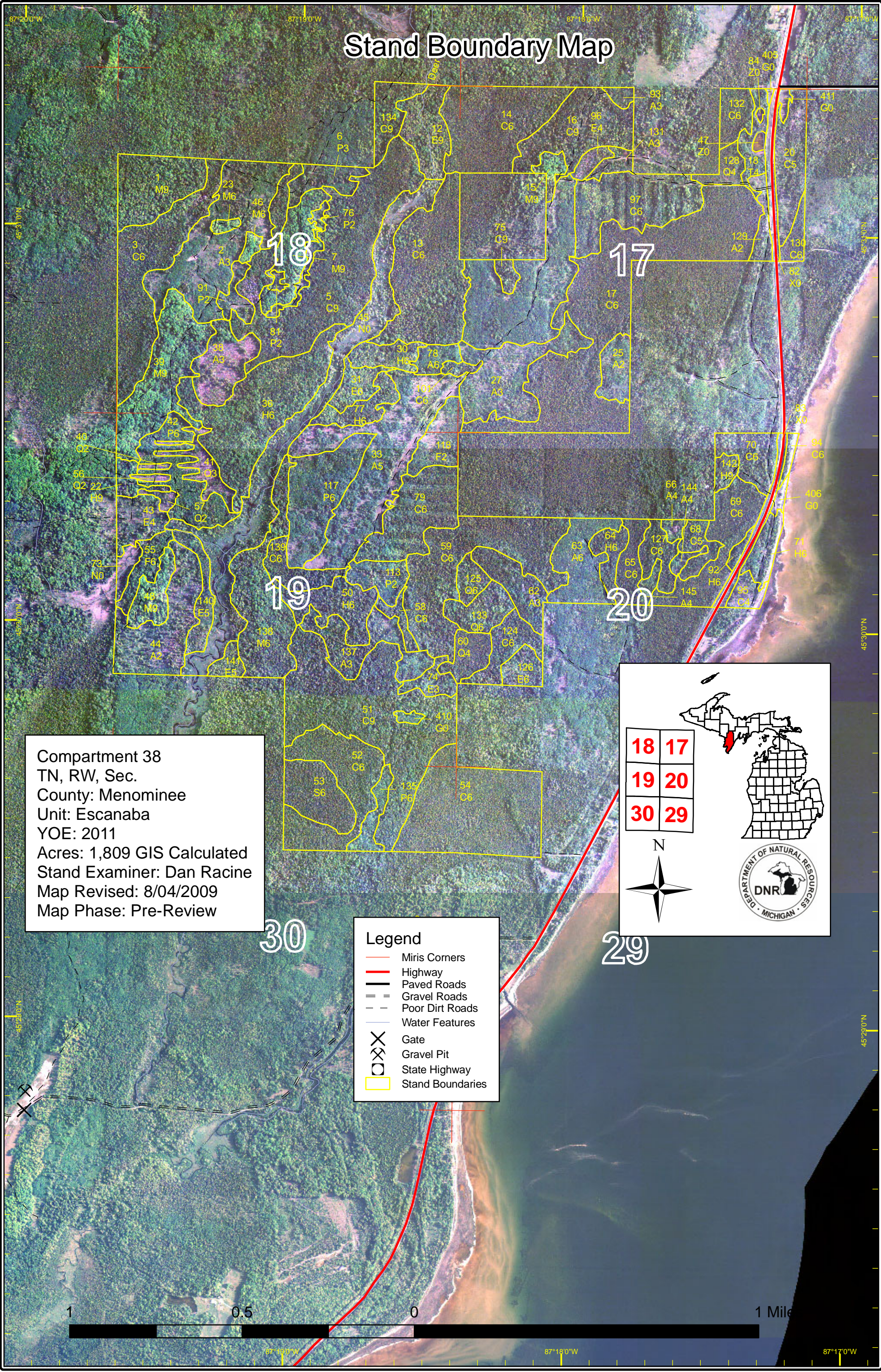
Compartment: 38

Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
1	M9	28		52	northern hardwood	unevenaged	selection	2	natural regeneration		
comnts Fmd : General Comments: This stand contains M,C,H, Yellow Birch, and some other minor species. The H is heavy in some pockets. The BA is less than stand 39 but both were cut under the shinglebolt block sale. Lots of blowdown. Treatment: Selection harvest. Harvest down to the 70 BA mark and harvest around the heavier H inclusions leaving all species within these inclusions. Create regeneration openings where possible. Meet with wildlife division at some point to ensure hemlock marking is in appropriate amounts. The Long term MO is to improve the quality of the existing stand. Retention will be both 3-10% acreage and BA within the inclusion areas.											
7	M9	18	91	57	northern hardwood	mature	thinning	1			
comnts Fmd : General Comments: This stand is a mix of maple and basswood. There is a significant amount of both on the ground. The blowdown could be salvaged for firewood. This stand was cut under the Deer Creek Block sale. Treatment: Thinning harvest down to the 70 BA focusing on adding quality to the existing stand. Salvage the downed material. The long term MO is to manage for single tree selection uneven aged condition. The retention will be 3-10% BA leaving possible wildlife trees and minor component species.											
39	M9	39	99	58	northern hardwood	mature	selection	2	natural regeneration		
comnts Fmd : General Comments: This stand is part of the Shinglebolt block. The stand is large diameters with a fair amount of blowdown. Higher BA's of hemlock in locations throughout the stand. There is C,H,M,Basswood,YB. There is a significant amount of raspberries in this stand. Treatment: Selection harvest. Mark around the high BA hemlock pockets. Harvest the stand to the 70-80 BA throughout all species excluding the H/C inclusions. Create regeneration openings where feasible. Meet with wildlife division at some point to discuss wether the hemlock is marked in appropriate amounts. Long term MO is to improve the existing stand quality of the hardwoods and enhance regeneration of F/M types. Retention will be leaving the H inclusions with other species in these inclusions at 3-10% acreage and 3-10% BA.											
Total Acres.....		85									

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status	
53	S6	19	94	38	black spruce-swamp	mature	seed tree	2	natural regeneration		
<p>TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity Adjacent landowner denies access Too wet</p> <p>comnts Fmd : General Comments: The majority of this stand is comprised of black spruce with white pine, Tamarack, Birch recorded here as well. Treatment: Seed tree harvest leaving enough seed trees of any species throughout the stand for seed dispersal. Leave good quality seed trees. This harvest will be limited by access through private. Look to secure access prior to setting up the sale. Retention is > 3% retention of BA of seed trees left. Long term MO of Black spruce.</p>											
Total Acres.....		19									

Stand Boundary Map

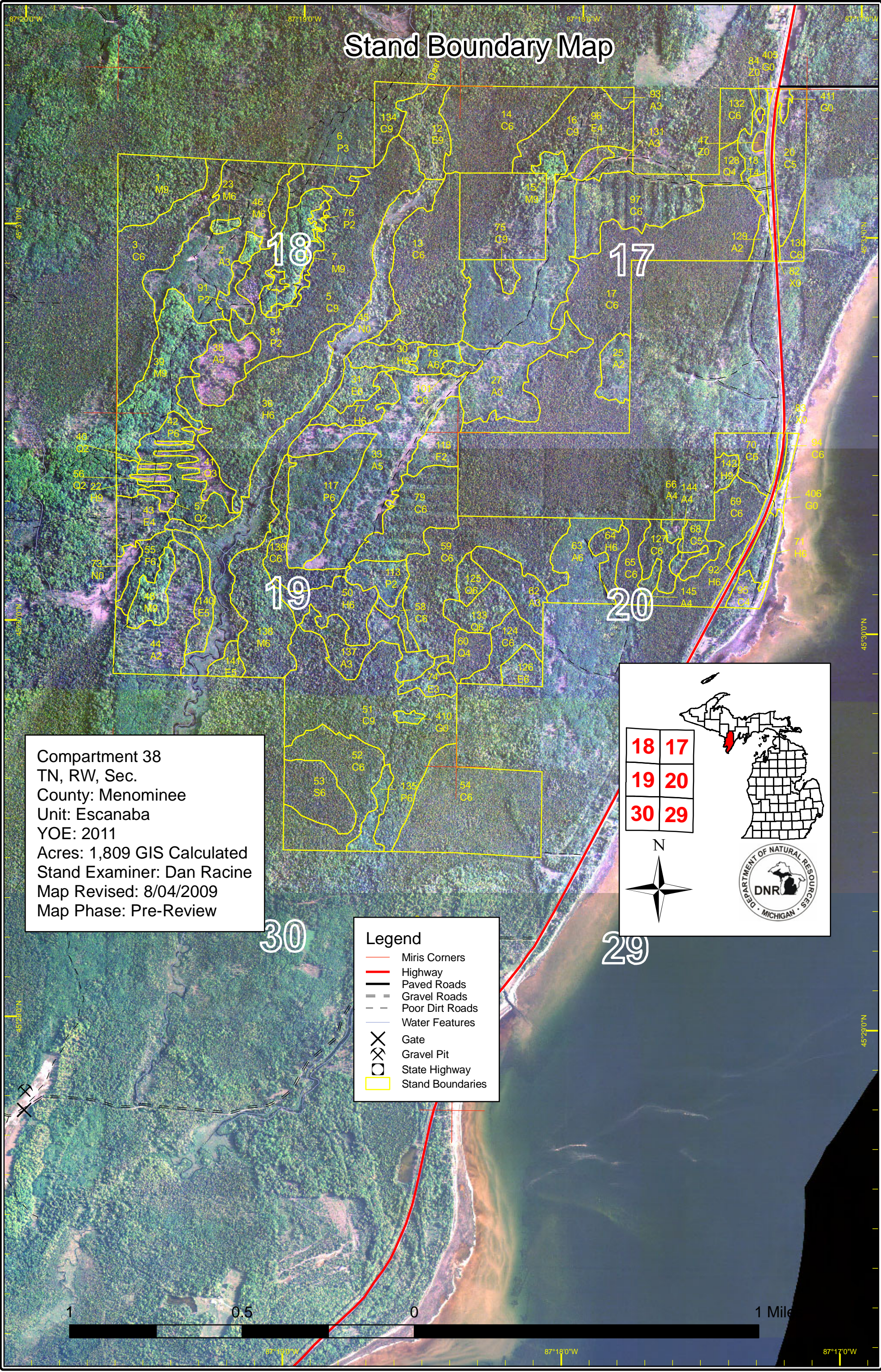


Compartment 38
 TN, RW, Sec.
 County: Menominee
 Unit: Escanaba
 YOY: 2011
 Acres: 1,809 GIS Calculated
 Stand Examiner: Dan Racine
 Map Revised: 8/04/2009
 Map Phase: Pre-Review

18	17
19	20
30	29

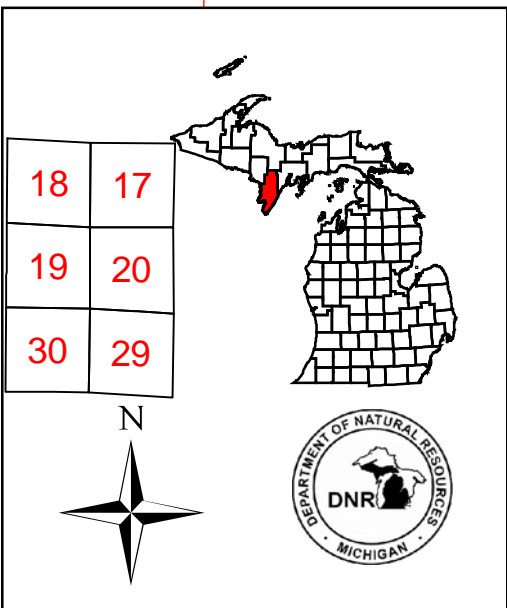
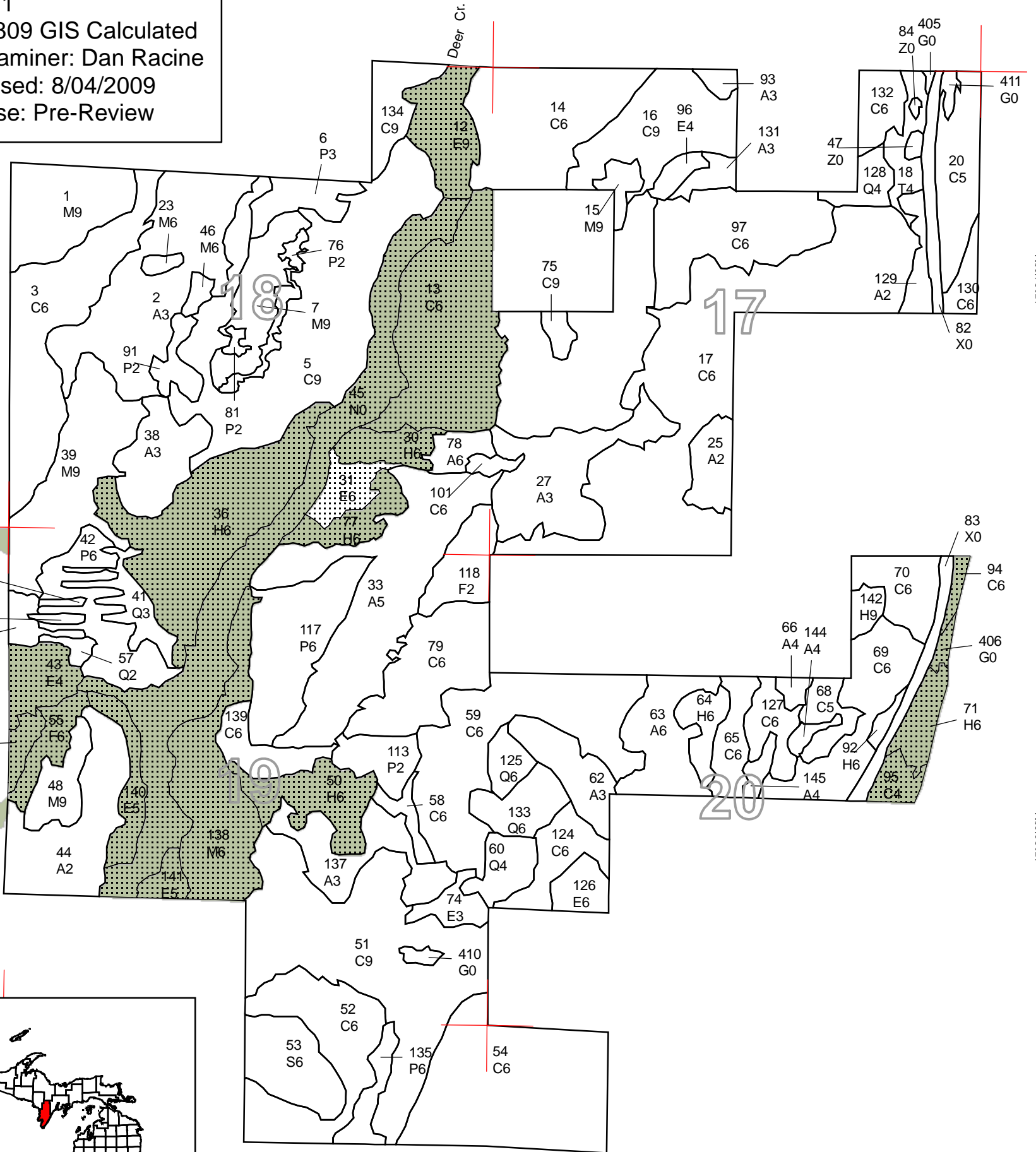
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- Legend**
- Miris Corners
 - Highway
 - Paved Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Water Features
 - Gate
 - Gravel Pit
 - State Highway
 - Stand Boundaries



Dedicated & Proposed Special Conservation Area Map

Compartment 38
 TN, RW, Sec.
 County: Menominee
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Legend

- Miris Corners
- Stand Boundaries
- Proposed SCA
- ▤ Proposed SCA - Special Conservation Area
- Dedicated Special Conservation Areas
- OI Special Conservation Areas





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	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.