



**ROSCOMMON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 2      ENTRY YEAR: 2010**

**Compartment Acreage: 1237      County: Roscommon**

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**Revision Date:** 1/7/08

**Stand Examiner:** D. Ekdorn

**Legal Description:** T24N R1W Section 12 and 13

**Management Goals:** Maintain current age and species diversity in a range of early and late successional ecosystems.

**Soil and Topography:** Terrain is rolling with some small hills and drainages. Soils are Ottawa and Ogemaw sandy loams in the upland areas and Greenwood and Rifle peat in the drainages.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Mostly state ownership within compartment except the NWNE and mostly surrounded by state land except to the east in Section 14.

**Unique, Natural Features:** Potential for T and E species exist based on occurrences on adjacent lands, however, none currently are known in the compartment.

**Archeological, Historical, and Cultural Features:** Potential for archaeological sites along drainages, however, none currently are known in the compartment.

**Special Management Designations or Considerations:** East Creek is a tributary to the South Branch of the Au Sable. Therefore stands and portions of stands adjacent to the creek are High Conservation Value Areas (HCVA's). The North Branch of East Creek is not part of the HCVA but some stands adjacent to it have potential to be designated as old growth SCA's and could be nominated to be added to the old growth plan now or at some future year-of-entry.

**Watershed and Fisheries Considerations:** East Creek and the North Branch of East Creek with numerous beaver dams and floodings on these drainages. Numerous small bogs and marshes scattered throughout compartment.

**Wildlife Habitat Considerations:** Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Marshall Sandstone. The Marshall was previously used as a building stone in other areas of the State. Most of the good gravel pits are associated with upland areas. A pit is located in Section 10 and potential is good on the uplands. St. Helen Field is located to the south of the Compartment. The field has produced over 8.7 million BO and 14.7 Bcf

gas from the Devonian Richfield Formation and is in secondary recovery operations currently. State minerals in the Compartment are not leased at this time.

**Vehicle Access:** Access is good to the entire compartment via seasonal county roads and forest two-tracks.

**Survey Needs:** None necessary at this time.

**Recreational Facilities and Opportunities:** No ORV or snowmobile trails in this compartment but the Midland to Mackinac Boy Scout trail does run north to south through this compartment.

**Fire Protection:** Compartment is in the Zone III fire dispatch area but there are no large areas of volatile fuel types in the compartment and there are a number of natural and man-made barriers to fire spread.

**Additional Compartment Information:** A R4077 (Desirable Lands to Acquire) has been submitted for the NWNE Section 12. Proposed treatments include 51 acres of final harvest in aspen types, 60 acres of final harvest in red pine types and 39 acres of red pine thinnings.

- **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

AUSABLE STATE FOREST

ROSCOMMON FOREST MGT UNIT

ROSCOMMON COUNTY

COMPARTMENT: 2

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		54	115	74	28	105	32												408
Bog or Marsh	4																		4
Grass	35																		35
Jack Pine				148															148
Lowlnd Brush	35										5								40
Marsh	43																		43
Oak						13					8								21
Red Pine			25						221	144	29								419
Spruce Fir										1									1
Swamp Hrdwds				8															8
Treed Bog	2																		2
Upland Hdwds									11									12	23
Water	29																		29
White Pine							29				27								56
<b>Total</b>	<b>148</b>	<b>54</b>	<b>140</b>	<b>230</b>	<b>28</b>	<b>118</b>	<b>61</b>		<b>232</b>	<b>145</b>	<b>69</b>							<b>12</b>	<b>1237</b>

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

AUSABLE STATE FOREST

ROSCOMMON FOREST MGT UNIT

ROSCOMMON COUNTY

COMPARTMENT: 2

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	408																										408	
V Bog or Marsh			4																								4	
G Grass					35																						35	
J Jack Pine							148																				148	
L Lowlnd Brush									40																		40	
N Marsh											43																43	
O Oak														21													21	
R Red Pine																419											419	
F Spruce Fir																			1								1	
E Swamp Hrdwds																				8							8	
D Treed Bog																							2				2	
M Upland Hdwds																								23			23	
Z Water																									29		29	
W White Pine																										56	56	
<b>Total</b>	<b>408</b>		<b>4</b>		<b>35</b>		<b>148</b>		<b>40</b>		<b>43</b>			<b>21</b>		<b>419</b>			<b>1</b>	<b>8</b>			<b>2</b>		<b>23</b>	<b>29</b>	<b>56</b>	<b>1237</b>

AUSABLE STATE FOREST

ROSCOMMON FOREST MGT UNIT

ROSCOMMON COUNTY

COMPARTMENT: **2**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4308 Cds	Hardwood	656 Cds
Hardwood	228 Mbf	Hardwood	48 Mbf
Softwood	3587 Cds	Softwood	782 Cds
Softwood	4735 Mbf	Softwood	850 Mbf
Sum TotVol	17821 Cds	Sum CutVol	3234 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	150
1237			

**ROSCOMMON FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 2**

**Entry Year: 2010**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
<b>12</b>	<b>A5</b>	19	30	55	aspen (upland)	immature	final harvest	1			
comnts Fmd : POOR QUALITY MULTIPLE AGE ASPEN WITH HYPOXYLON CANCER STARTED, ANY COMBINATION OF A/J/O TO A FULLY STOCKED STAND IS ACCEPTABLE, PLANT JACK PINE IF NEW STAND IS NOT FULLY STOCKED, REQUIRE TOPS TO BE CHIPPED & NO RETENTION FOR HEALTH REASONS (HYPOXYLON CANCER)											
<b>13</b>	<b>A5</b>	13	54	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : MIX OF POOR QUALITY, MULTI-AGE A/J/O WITH SCATTERED R/W PINE, A6 CLONES INTERSPERSED WITH BRUSHY AREAS, SAVE SMALLER OAK AND SOME R/W PINE IF CUT, ANY COMBINATION OF A/O/J TO A FULLY STOCKED STAND IS ACCEPTABLE, PLANT JACK PINE IF NEW STAND IS NOT FULLY STOCKED, REQUIRE TOPS TO BE CHIPPED & NO RETENTION FOR HEALTH REASONS (HYPOXYLON CANCER IN ADJACENT STAND)											
<b>14</b>	<b>R9</b>	29	71	55	red pine	immature	thinning	2			
comnts Fmd : REMOVED H.W'S IN 1995, THIN TO 120SF BY INDIV. TREE MARKING FROM BELOW, MANAGE FOR UTILITY POLES, LEAVE OUT HEAVY TO OAK/ASPEN REGEN. FROM PREVIOUS CUT, WEST OF M.T.M. TRAIL IS PART OF ORIGNAL OLD GROWTH PLAN, REMOVAL WILL NEED TO BE APPROVED AT REVIEW											
<b>16</b>	<b>A6</b>	19	54	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : OLD LOGGERS CHOICE CUT, MIX OF ASPEN AGES/SIZES, YOUNGEST IS 1980'S, OLDEST IS 1950'S, MOST IS 1970'S. CUT TO EQUALIZE ASPEN DISTRIBUTION IN THE COMPT., SOME HYPOX. CANCER STARTING, WEST OF M.T.M. TRAIL WAS IN ORIGINAL OLD GROWTH PLAN , REMOVAL WILL NEED TO BE APPROVED AT REVIEW, REQUIRE TOPS TO BE CHIPPED AND NO RETENTION FOR HEALTH REASONS (HYPOXYLON CNAKER).											
<b>35</b>	<b>R9</b>	3	88	60	red pine	mature	thinning	1		prescribed for fdf treatment	
comnts Fmd : STAND IS PLANTED (ROWS STILL VISIBLE), JP/RP PLANTING, RED PINE IS POOR QUALITY, JACK PINE IS PRETTY WELL GONE, THIN BY REMOVING EVERY THIRD ROW AND REMOVING DOUBLES/POORLY FORMED TREES IN BETWEEN ROWS, S.C.A. = POTENTIAL OLD GROWTH STAND BUT NEEDS SOME TS.I. TO BRING STAND TOWARDS OLD GROWTH CONDITIONS											
<b>38</b>	<b>R9</b>	33	71	50	red pine	immature	final harvest	1	planting		
comnts Fmd : PROPOSED AS PART OF RED PINE PROJECT, CUT WITH STAND #29 COMPT 47, FINAL HARVEST AND PLANT RED PINE, EAST PART OF THIS STAND WAS THINNED IN 1995, RETAIN HARDWOODS (ESPECIALLY OAK) WHERE FEASIBLE, TRENCH AROUND AREAS OF HEAVY HARDWOOD/OAK U.S. AND MANAGE FOR A MIXED STAND OF OAK AND PINE, KOTAR = PaRVVb, LEAVE 3 - QUARTER TO HALF ACRE RETENTION ISLANDS WHERE OAK U.S. IS HEAVY											
<b>45</b>	<b>R9</b>	7	96	50	red pine	immature	thinning	2			
comnts Fmd : NICE NATURAL RP STAND, THIN TO RETAIN CHARAC. OF NAT. RP, SCATTERED OAK COULD BE RETAINED FOR MAST											
<b>46</b>	<b>R8</b>	27	79	65	red pine	immature	final harvest	1	planting		
comnts Fmd : GOOD RED PINE SITE, FINAL HARVEST AND PLANT RED PINE, MAY NEED SOME SORT OF SITE PREP (HERBICIDE OR BURN) TO HANDLE U.S. CREATED WHEN HARDWOODS/JP WERE REMOVED IN 1995, CURRENTLY TOO MUCH O.S. FOR O/A TO DO WELL CURRENTLY EITHER, KOTAR = PaRVVb, LEAVE 2 HALF ACRE ISLANDS AS RETENTION											
<b>Total Acres.....</b>		<b>150</b>									

**Proposed Treatments  
With Limiting Factors**

**Compartment: 2**

**Entry Year: 2010**

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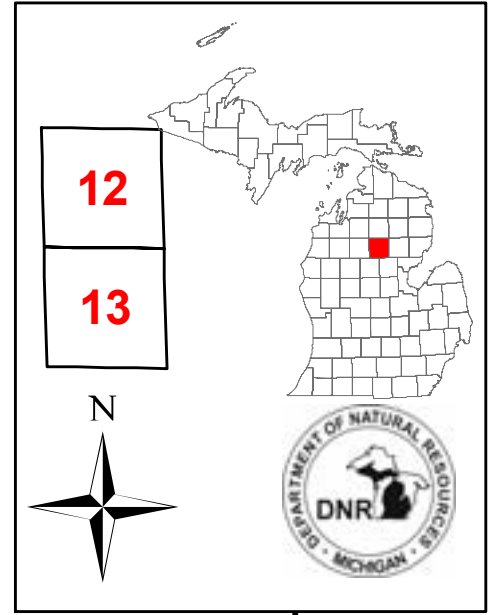
TREATMENT LIMITING FACTORS:

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**Total Acres..... 0**

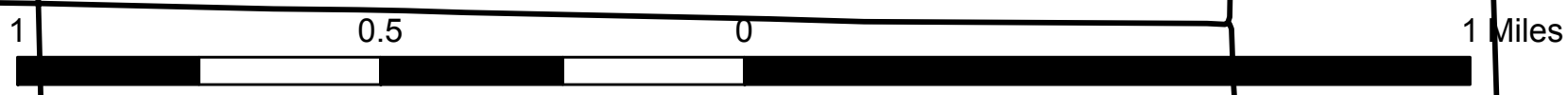
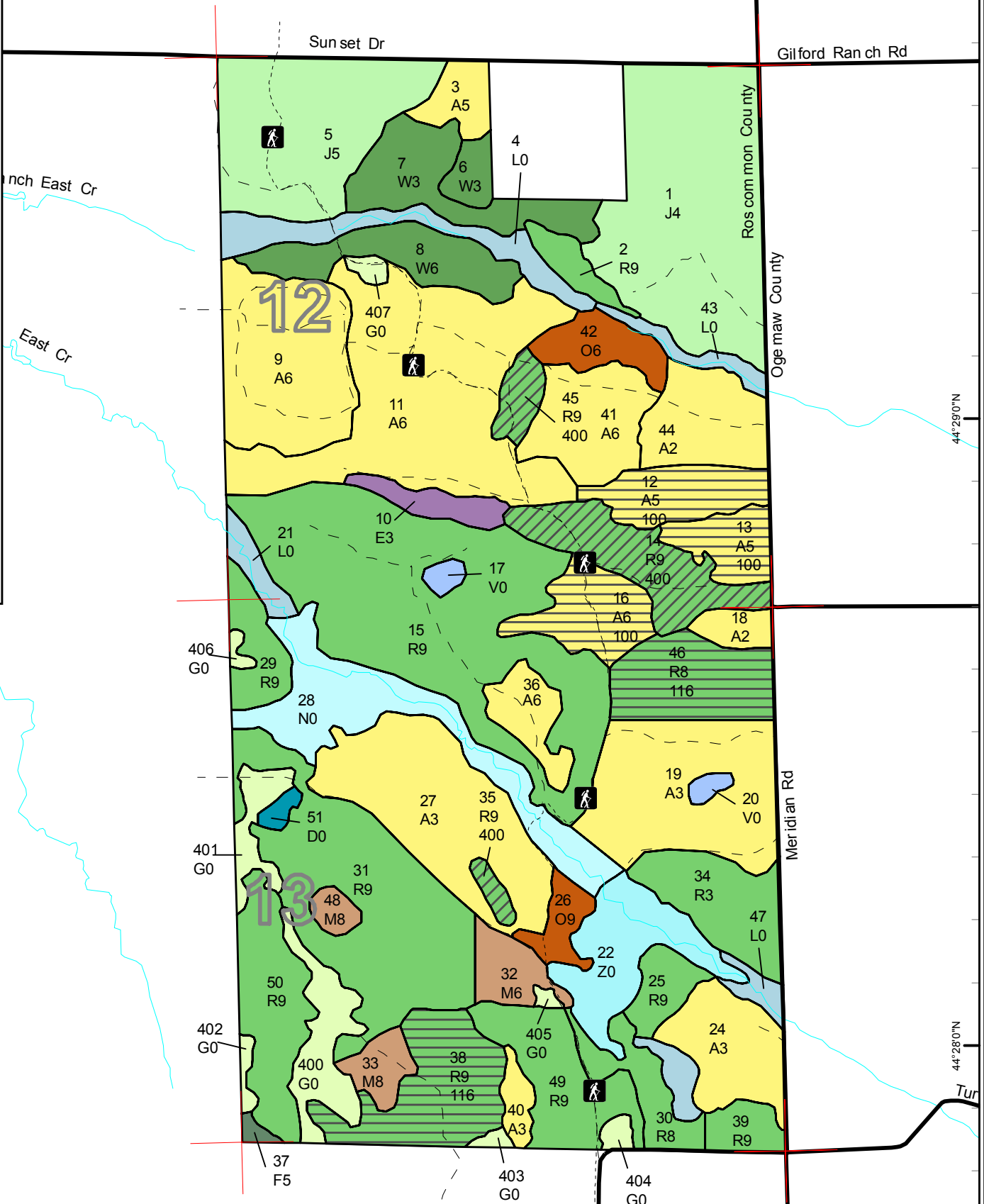
# Covertime & Treatment Map

Compartment 2  
 T24N, R01W, Sec. 12, 13  
 County: Roscommon  
 Unit: Roscommon  
 YOY: 2010  
 Acres: 1,237 GIS Calculated  
 Stand Examiner: Dale Ekdorn  
 Map Revised: 7/29/2008  
 Map Phase: Review



## Legend

- Miris Corners
- Paved Roads
- Poor Dirt Roads
- Trails
- Water Features
- Hiking Trails
- Stand Boundary
- 100 - Final Harvest
- 116 - Final Harvest/Planting
- 400 - Thinning
- A - Aspen
- D - Treed Bog
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- O - Oak
- R - Red Pine
- V - Bog or Muskeg
- W - White Pine
- Z - Water



84°24'0"W      84°23'0"W      84°22'0"W

44°29'0"N

44°28'0"N

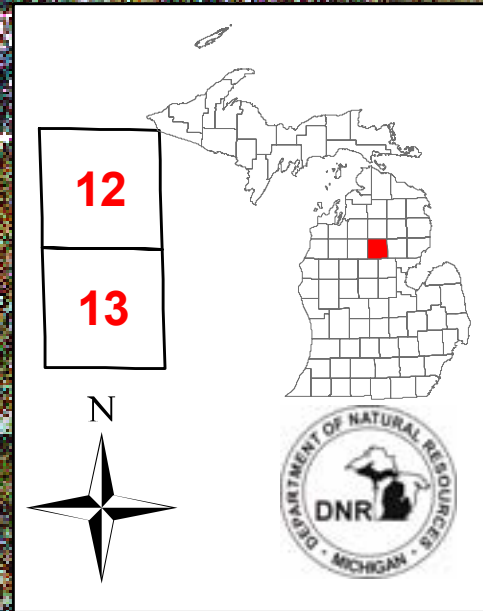
44°30'0"N

44°29'0"N

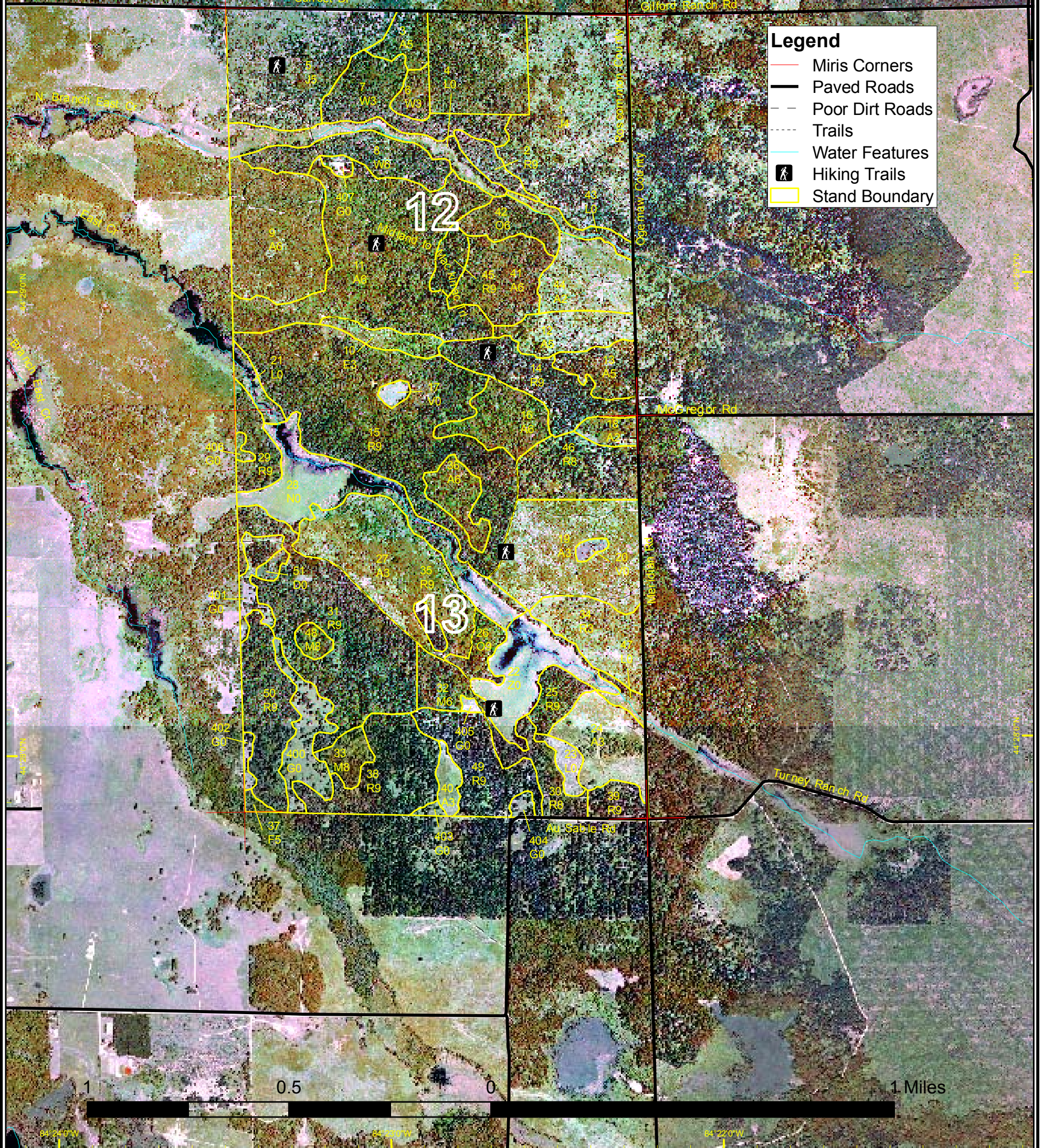
44°28'0"N

# Stand Boundary Map

Compartment 2  
 T24N, R01W, Sec. 12, 13  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2010  
 Acres: 1,237 GIS Calculated  
 Stand Examiner: Dale Ekdorn  
 Map Revised: 7/29/2008  
 Map Phase: Review

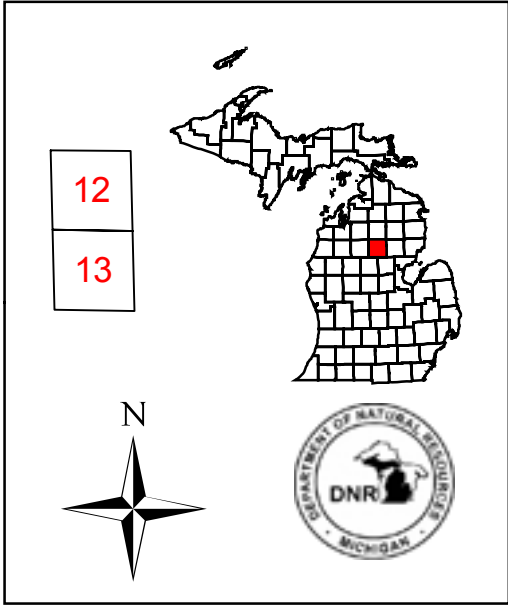


- Legend**
- Miris Corners
  - Paved Roads
  - Poor Dirt Roads
  - Trails
  - Water Features
  - Hiking Trails
  - Stand Boundary

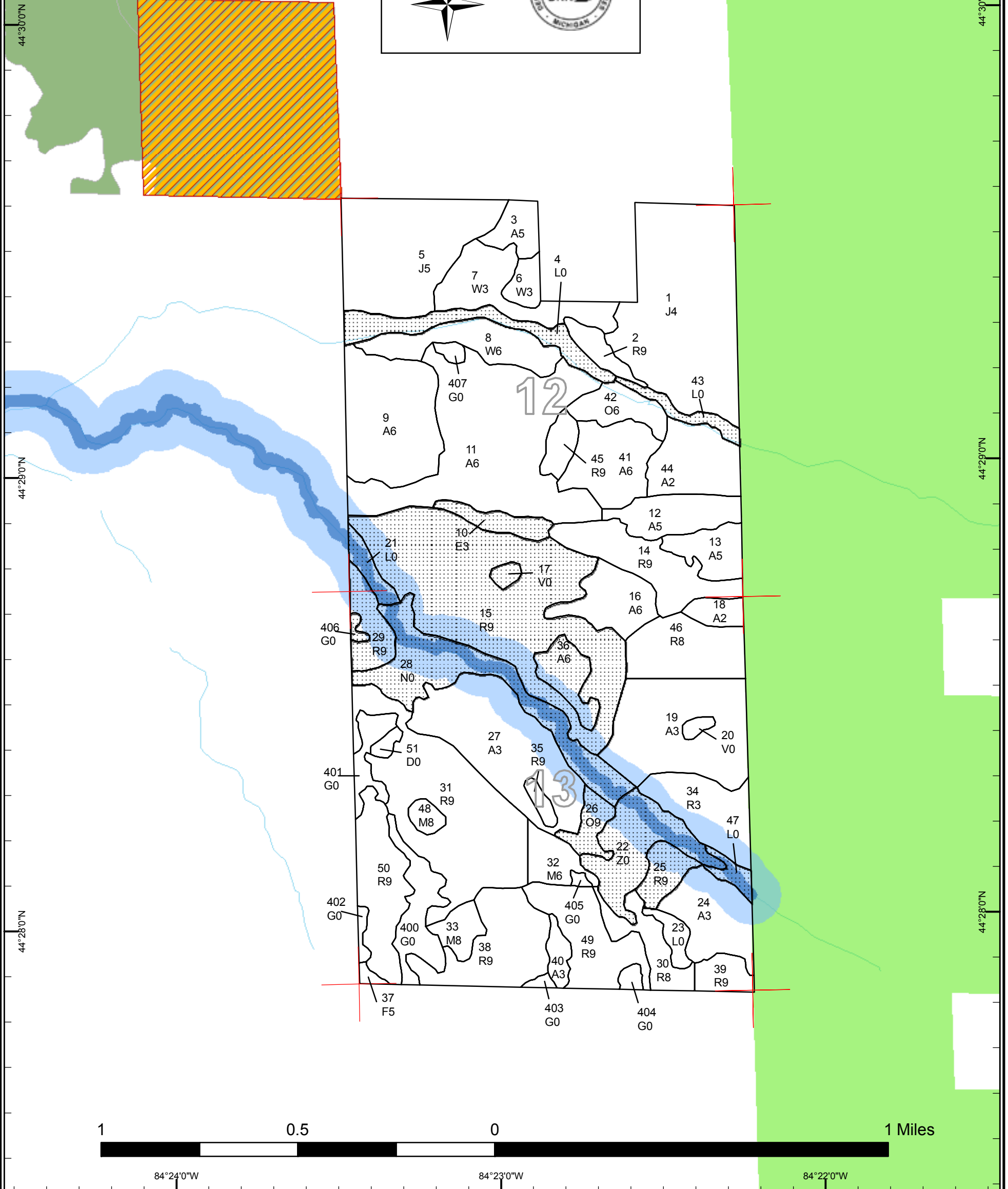


# Dedicated & Proposed Special Conservation Area Map

Compartment 2  
 T24N, R01W, Sec. 12, 13  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2010  
 Acres: 1,237 GIS Calculated  
 Stand Examiner: Dale Ekdorn  
 Map Revised: 7/29/2008  
 Map Phase: Review



- Legend**
- Miris Corners
  - Stand Boundaries
  - Special Conservation Areas
  - Cold Water Streams
  - Cold Water Lakes
  - Natural Rivers Vegetative Buffer
  - Natural Rivers Zoning District
  - Kirtland Warbler Habitat
  - Natural Areas Legally Dedicated
  - Potential Old Growth Stands





## 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
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.
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	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.