



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 18 ENTRY YEAR: 2010

Compartment Acreage: 1255 County: Roscommon

Revision Date: 07-28-2008

Stand Examiner: J. Hartman

Legal Description: T24N R4W sections 3 and 4

Management Goals: Maintain forest health and wildlife habitat throughout the compartment. Provide for aesthetic considerations along US 127.

Soil and Topography: Soils are composed of outwash deposits on the northwest part of the compartment. The water table is higher to the east and to the south. Terrain is generally flat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment has numerous seasonal homes in the vicinity. Some very small inholdings still exist from the Michigan Central Park Subdivision.

Unique, Natural Features: Potential for bald eagle, eastern massasauga, prairie warbler, and kirtland's warbler.

Archeological, Historical, and Cultural Features: An archeological site is located in the northwest part of section 3.

Special Management Designations or Considerations: Some old natural pine stands along Big Creek have been identified as SCA's due to their structural complexity.

Watershed and Fisheries Considerations: Big Creek is a tributary of Higgins Lake that is located on the southern edge of the compartment. There a couple of beaver dams that did not appear to be active during inventory.

Wildlife Habitat Considerations: There is one maintained wildlife opening.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium and minor ice-contact sand and gravel. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is located just to the southeast and potential appears to be limited. East Norwich Field is located two miles to the west. The field has produced over 5.9 million BO and 15.7 Bcf gas primarily from the Devonian Richfield Formation. It is in secondary recovery operations currently. All of the State lands in the Compartment are nominated for the May 2008 oil & gas lease auction.

Vehicle Access: There is good access throughout the compartment utilizing various forest roads and county roads.

Survey Needs: May need a survey to locate the private line along the treatment boundary of stand 18. Stand 62 could be done without a survey, but it may be wise to set the official boundary here as well.

Recreational Facilities and Opportunities: The snowmobile trail crosses the northwest corner of the compartment. Some good hunting opportunities exist throughout.

Fire Protection: Potential for large fire growth exists in the thick jack pine plantations that are approaching pole size and in the more difficult to access portions of the compartment.

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

AUSABLE STATE FOREST

ROSCOMMON FOREST MGT UNIT

ROSCOMMON COUNTY

COMPARTMENT: 18

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			59	41	7	77			14										198
Black Spruce								5											5
Cedar												42							42
Grass	5																		5
Hemlock															14				14
Jack Pine			32		253	9													294
Lowlnd Brush	109																		109
Marsh	2																		2
Mx Swmp Cnfr												50							50
Non Stocked	7																		7
Oak									5	8	44	16							73
Red Pine					30				4	33	7								74
Swamp Hrdwds		21						11	10	71	26								139
Tamarack												16							16
Upland Brush			10																10
White Pine									11	13	25	168							217
Total	123	21	101	41	290	86		16	44	125	102	292			14				1255

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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: 18

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	198																										198
S Black Spruce		5																									5
C Cedar				42																							42
G Grass											5																5
H Hemlock						14																					14
J Jack Pine							294																				294
L Lowlnd Brush									109																		109
N Marsh											2																2
Q Mx Swmp Cnfr												50															50
X Non Stocked													7														7
O Oak														73													73
R Red Pine		7												15	52												74
E Swamp Hrdwds																			139								139
T Tamarack																				16							16
U Upland Brush																							10				10
W White Pine																										217	217
Total	205	5		42		14	294		109		7	50	7	88	52				139	16			10			217	1255

AUSABLE STATE FOREST

ROSCOMMON FOREST MGT UNIT

ROSCOMMON COUNTY

COMPARTMENT: **18**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2906 Cds	Hardwood	1030 Cds
Hardwood	711 Mbf	Hardwood	152 Mbf
Softwood	3043 Cds	Softwood	155 Cds
Softwood	2598 Mbf	Softwood	271 Mbf
Sum TotVol	12567 Cds	Sum CutVol	2031 Cds
Total Cmpnt Acres		Acres Proposed For Cut.....	103
1255			

ROSCOMMON FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 18

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
18	A6	70	43	60	aspen (upland)	immature	final harvest	2		
comnts Fmd : Nice big-tooth aspen overtopped by northern red oak. Turns into smaller and lower quality stems along private line. Some white oak, white pine, red pine, and birch mixed in. Considering cutting aspen early to help balance age classes. It is stagnant where overtopped right now anyway. Would leave some pockets heavy to fir along north line and scattered big oak and pine within. May need a survey. Look at in spring. Records indicate potential for northern hardwoods.										
19	R9	7	92	60	aspen (upland)	mature	final harvest	3		
comnts Fmd : Harvest with stand 18 and leave heavy red pine retention consisting of windfirm leave trees. Short-term management objective would be to let aspen spread into the stand. Long-term objective would be to let red pine gradually regenerate in pockets and beneath aspen through natural regen.										
62	W9	11	76	60	white pine	immature	final harvest	3		
comnts Fmd : Has components of mature jack pine and aspen. Regenerate aspen and jack pine and leave heavy reserves of red and white pine. Winter harvest preferable. X-ray road gets plowed. Mixed regen of white pine. aspen, jp, rp, oak, and red maple is acceptable. Could include small 1/2 piece on road leftover from sale during last entry.										
157	R9	15	78	60	oak	immature	shelterwood-prep	6		
comnts Fmd : Being set up with a 2007 sale from compartment 21										
401	G0	5			marsh	nonstocked		0	opening maintenance	
comnts Fmd : Managed opening. Deadstream #1										
Total Acres.....		108								

**Proposed Treatments
With Limiting Factors**

Compartment: 018

Entry Year: 2010

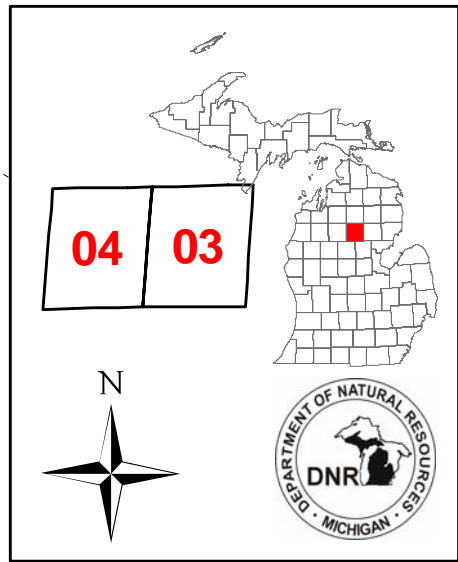
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

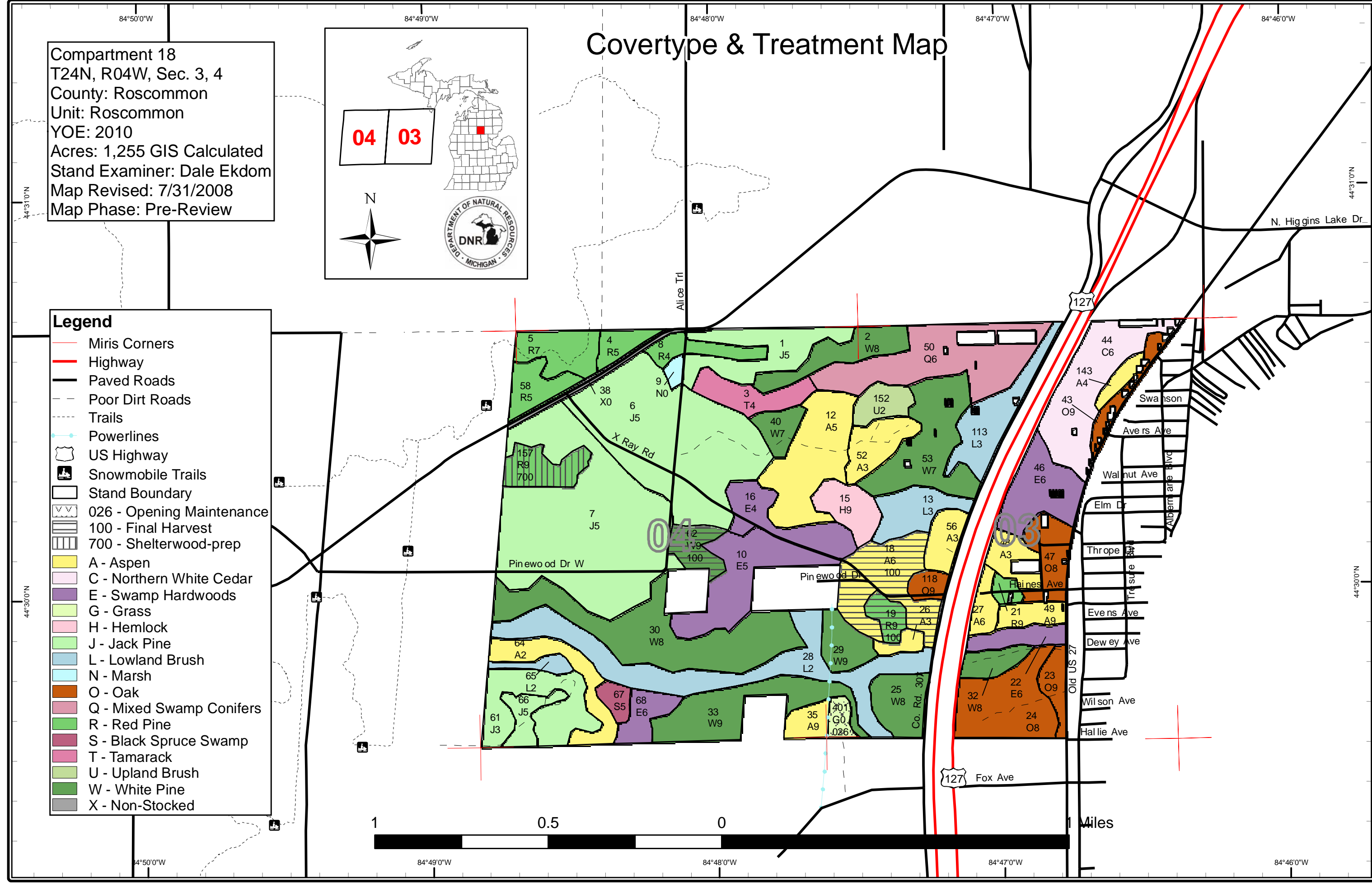
Total Acres..... 0

Covertypes & Treatment Map

Compartment 18
 T24N, R04W, Sec. 3, 4
 County: Roscommon
 Unit: Roscommon
 YOY: 2010
 Acres: 1,255 GIS Calculated
 Stand Examiner: Dale Ekdorn
 Map Revised: 7/31/2008
 Map Phase: Pre-Review

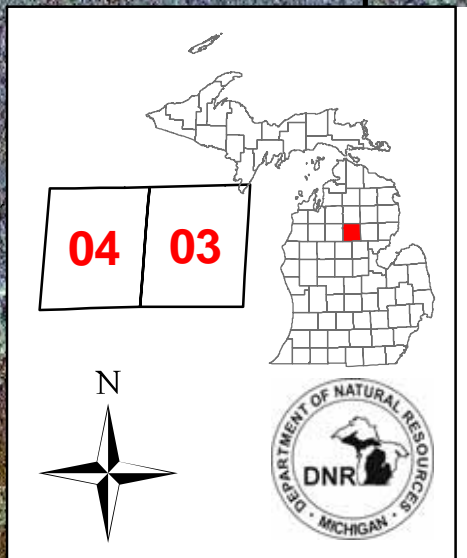


- Legend**
- Miris Corners
 - Highway
 - Paved Roads
 - Poor Dirt Roads
 - Trails
 - Powerlines
 - US Highway
 - Snowmobile Trails
 - Stand Boundary
 - 026 - Opening Maintenance
 - 100 - Final Harvest
 - 700 - Shelterwood-prep
 - A - Aspen
 - C - Northern White Cedar
 - E - Swamp Hardwoods
 - G - Grass
 - H - Hemlock
 - J - Jack Pine
 - L - Lowland Brush
 - N - Marsh
 - O - Oak
 - Q - Mixed Swamp Conifers
 - R - Red Pine
 - S - Black Spruce Swamp
 - T - Tamarack
 - U - Upland Brush
 - W - White Pine
 - X - Non-Stocked



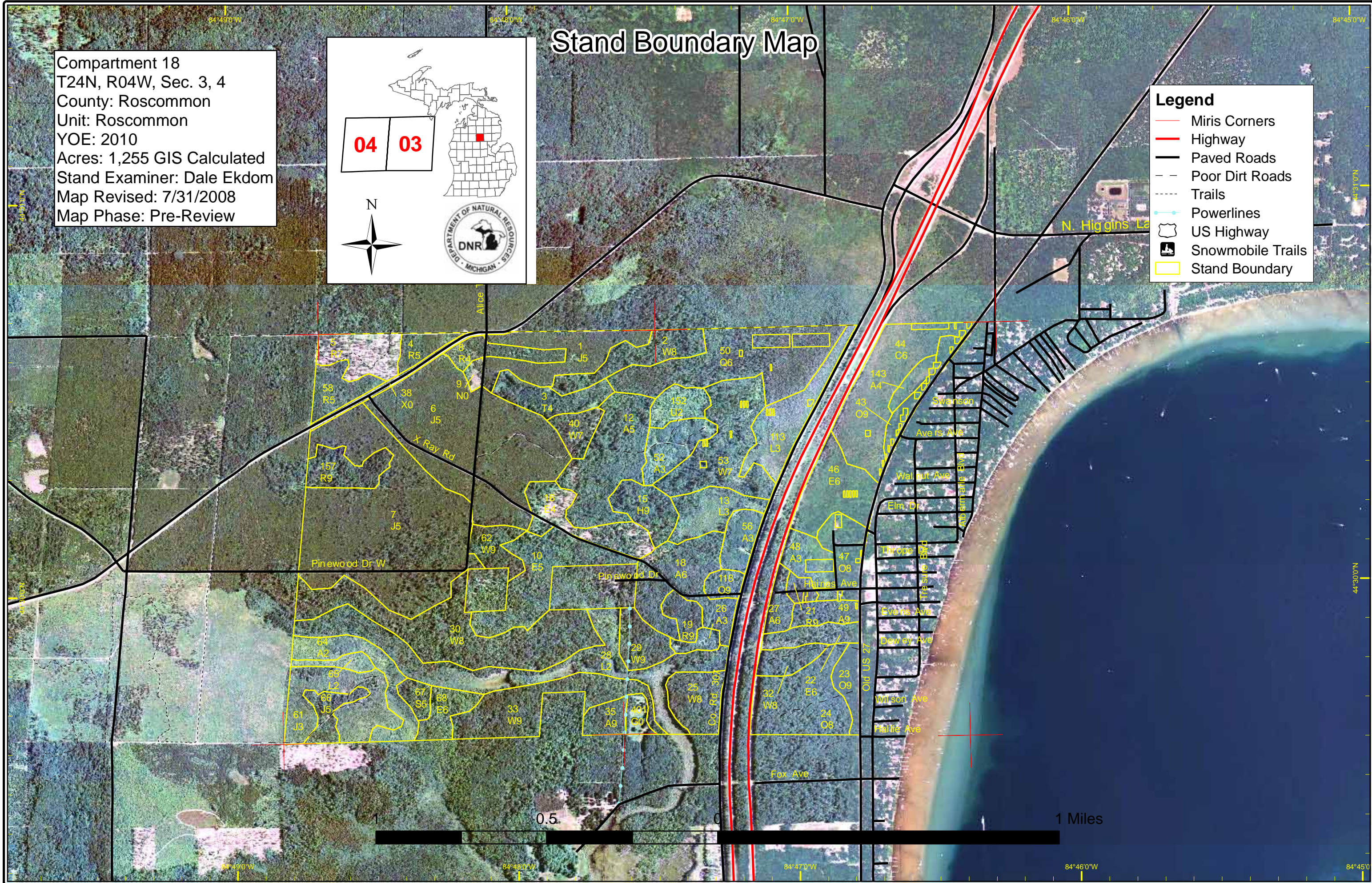
Stand Boundary Map

Compartment 18
 T24N, R04W, Sec. 3, 4
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 Stand Examiner: Dale Ekdorn
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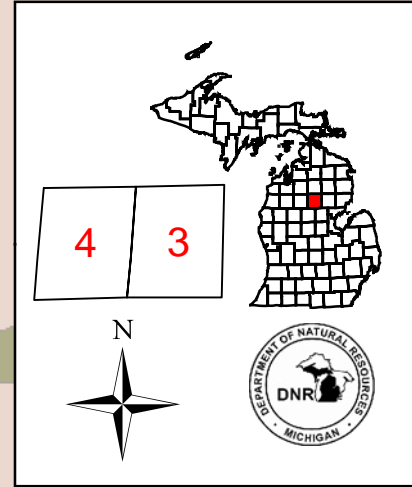
Legend

- Miris Corners
- Highway
- Paved Roads
- - - Poor Dirt Roads
- - - Trails
- Powerlines
- US Highway
- Snowmobile Trails
- Stand Boundary

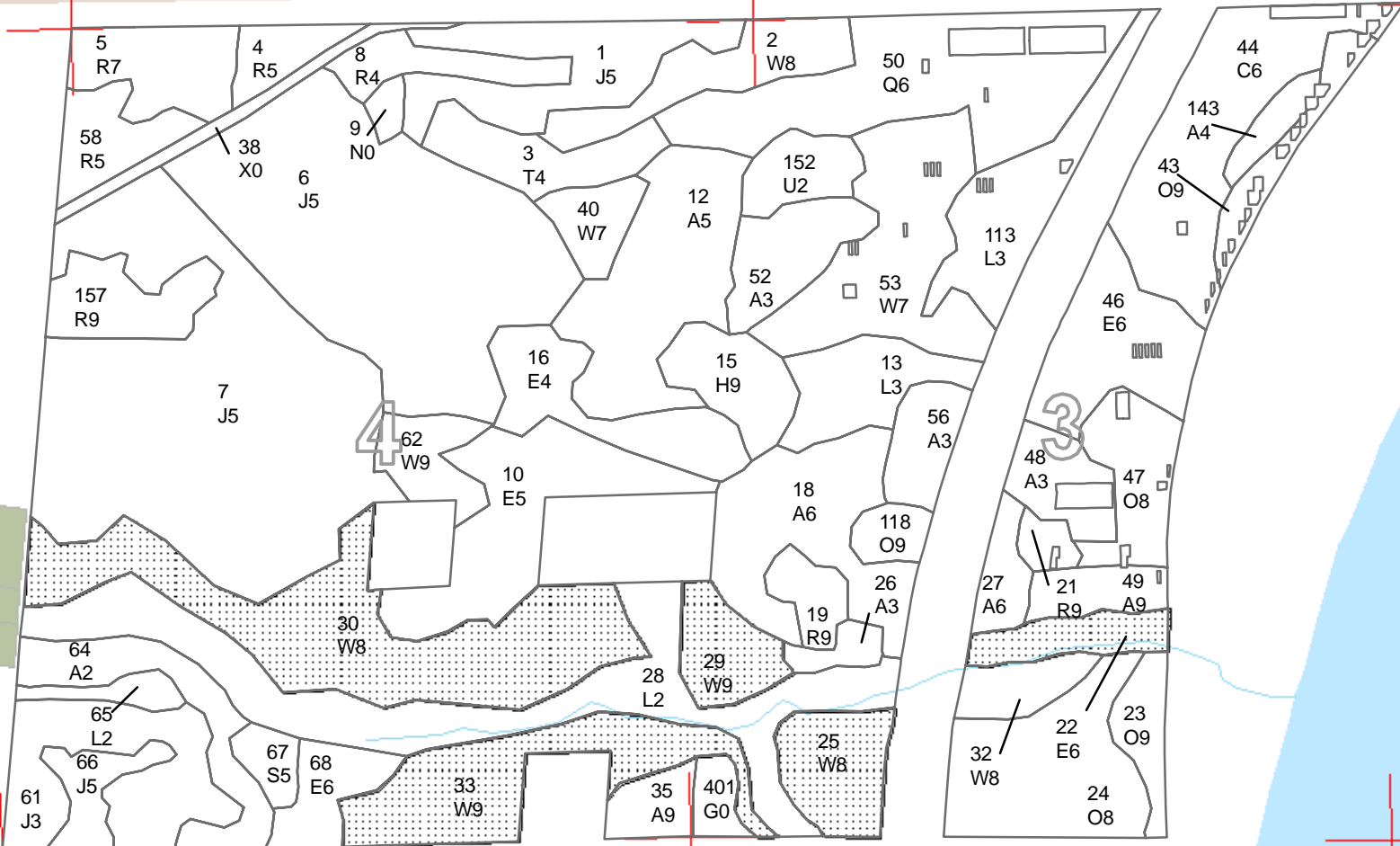


Dedicated & Proposed Special Conservation Area Map

Compartment 18
 T24N, R04W, Sec. 3, 4
 County: Roscommon
 Unit: Roscommon
 YOE: 2010
 Acres: 1,255 GIS Calculated
 Stand Examiner: Dale Ekdom
 Map Revised: 7/31/2008
 Map Phase: Pre-Review



- Legend**
- Miris Corners
 - Boat Access Sites
 - Stand Boundaries
 - Special Conservation Areas
 - Cold Water Streams
 - Cold Water Lakes
 - OI Special Conservation Areas
 - Potential Old Growth Stands
 - Research, Development, and Military Lands



84°49'0"W 84°48'0"W 84°47'0"W 84°46'0"W

44°31'0"N

44°30'0"N

44°30'0"N

84°49'0"W 84°48'0"W 84°47'0"W 84°46'0"W



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.
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.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.