



ESCANABA FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 014 ENTRY YEAR: 2011

Compartment Acreage: 1000 County: Menominee

Revision Date: August 5, 2009

Stand Examiner: Joe Durbin, Forester FMFM , Bill Rollo and Craig Albright, Wildlife Division

Legal Description: T36N R27W Sections 10, 11, 14, 15 and 22.

Management Goals: This compartment is part of a block of land located about 7 miles north of Stephenson, MI; about 1 mile west of US-41 in central Menominee County. It is a mix of lowland and upland forest and non-forested types. Lowland types are primarily cedar, swamp conifer, lowland hardwoods and lowland brush. Upland types are mostly aspen, spruce-fir and northern hardwoods. Much of the compartment has organic soils supporting mature stands of cedar and swamp conifer. Cedar also occurs in many of the upland stands. Proposed for treatment are 112 acres which include 9 stands. No prescribed stands are factor limited. Of the proposed treatments, 56 acres (2 stands) are northern hardwoods to be select cut followed by scarification and treatment to breakup the sedge groundcover, 32 acres (4 stands) of aspen and lowland conifer type to be final harvested with reserves, 14 acres (1 stand) of lowland conifer type to be seed-tree harvested and 10 acres (2 stands) of northern hardwoods to be under-planted sparsely with spruce for diversity. The Little Cedar River flows through the east portion of the compartment.

Soil and Topography: The topography is mostly level to gently rolling with some eskers. The soils are primarily poorly-drained muck and peat, poorly-drained sands and well-drained sands. The major soil series are Lupton, Cathro, Onaway, Rousseau, Nadeau and Tawas.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is well blocked with a few scattered private in-holdings. The Little Cedar River flows through the eastern portion of the compartment separating portions of several forties. Private land near this compartment is used mainly for farming and recreation--mainly hunting, trapping, ORV riding and fishing. Several private landowners reside near the compartment however there are also many absentee owners. In-holdings are owned by absentee owners with access over roads on state land.

Unique, Natural Features: The MNFI GIS layer indicates that no known element occurrences are within or near this compartment.

Archeological, Historical, and Cultural Features: None are known within the compartment, however, potential is reported in nearby areas.

Special Management Designations or Considerations: Stands along the Little Cedar River are considered for Special Conservation Areas - Little Cedar River riparian corridor and habitat for wildlife species that utilize mature forest conditions.

Watershed and Fisheries Considerations: Design road access and harvesting to protect the Little Cedar River and tributaries from impediments and sedimentation.

Wildlife Habitat Considerations: This compartment is located at the west edge of the central Menominee County farm belt and is primarily a lowland conifer landscape. Nearly half of this compartment is cedar

swamp and mixed swamp conifer. Most of this acreage will simply be maintained for wildlife cover due to the difficulty in achieving cedar regeneration, but 32 acres will be harvested and regenerated to a mixture of spruce, fir, and tamarack.

Uplands of aspen, spruce-fir, and northern hardwood make up the remainder of the compartment. Nearly all of the aspen is less than 30 years old and will be allowed to mature. Two northern hardwood stands will be select cut and possibly treated with anchor chains or herbicide to reduce the sedge mat which is impeding regeneration. Wildlife Division may consider underplanting spruce in 2 hardwood stands which lack diversity.

The Little Cedar River flows through the east edge of the compartment. Forest stands adjacent the river have been designated a "Special Conservation Area" to promote mature forest conditions. Natural processes will be allowed to operate in these stands to increase the volume of snags, cavity trees, den trees, and dead woody debris on the forest floor

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured till in drumlins and glacial outwash sand & gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Prairie du Chien group and Cambrian Trempealeau Formation underlie the glacial drift. The PdC and Trempealeau could be quarried for dolostone. This Compartment has not been previously leased for metallic exploration. A gravel pit is located in Section 13 and potential is good on the upland drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access: Access into this compartment is from the north through Compartment 15 using county road Zemba Lane and Klatt Road or Homestead Lane. Access is also available from the south using County Road 360 and crossing various private ownerships along a gated woods road.

Survey Needs: Six survey corners are needed for the recommended treatments.

Recreational Facilities and Opportunities: Popular recreation includes hunting, trapping and fishing. No developed recreational facilities exist at present. The potential for developed recreational activities within this compartment may include cross-country skiing, snowmobiling and ORV trail riding or canoeing on the Little Cedar River.

Fire Protection: The compartment has a low risk for wildfire due to the current timber types and extent of poorly drained soils. However, if wildfires do occur, access could be improved to most of the compartment with minimal road improvements including some widening and placement of fill and a few culverts.

Additional Compartment Information: None.

****** 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: 14

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		18	84	57	6	6	3	2			3								179
Cedar									7		6	4	122	45	173				357
Lowlnd Brush											34								34
Lowlnd Poplr				26	6	6													38
Mx Swmp Cnfr		8	6	8	47	6	1				18		14					10	118
Paper Birch									8										8
Spruce Fir		12	23	17	35	9			13									3	112
Swamp Hrdwds										23	13							2	38
Upland Hdwds								5	13		13							76	107
Water	9																		9
Total	9	38	113	108	94	27	4	7	41	23	87	4	136	45	173			91	1000

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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: 14

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	179																										179
C Cedar				357																							357
L Lowlnd Brush									34																		34
P Lowlnd Poplr										38																	38
Q Mx Swmp Cnfr												118															118
B Paper Birch															8												8
F Spruce Fir																			112								112
E Swamp Hrdwds																				38							38
M Upland Hdwds																								107			107
Z Water																									9		9
Total	179			357					34	38		118			8				112	38				107	9	1000	

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **14**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4732 Cds	Hardwood	641 Cds
Hardwood	94 Mbf	Hardwood	31 Mbf
Softwood	12848 Cds	Softwood	976 Cds
Softwood	202 Mbf	Sum CutVol	1679 Cds
Sum TotVol	18172 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	102
	1000		

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 14

Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
8	M6	43		65	northern hardwood	unevenaged	selection	2	natural regeneration		
comnts Fmd : Nice quality hardwood poles. Selectcut to 70-80 residual BA. Leave some larger beech. Long term MO is M. Follow in-stand retention guidelines. Acceptable regeneration includes a mixture of the current species. Encourage scarification to breakup thick grass ground cover. ##After Pre-review: Post harvest scarify with anchor chains and followup with herbicide.											
20	Q6	14	116	40	mixed swamp conifer	mature	seed tree	1			
comnts Fmd : Fir and spruce seedling emerging from moss and geround cover under current overstory. Harvest now before more timber blows over or breaks. Site is wet with occasional islands of high ground. Clearcut with reserves--leave seed trees along the boundary of the north, west and south edges. Long term MO is Q. Leave no retention in the middle of the stand. Acceptable regeneration is a mixture of spruce, fir, tamarack and cedar. ##After pre-review: Change MOC to seed tree harvest and leave 10 BA of mixed species--mostly cedar.											
25	M6	13	89	65	northern hardwood	mature	selection	2	natural regeneration		
comnts Fmd : Selectcut this stand with stand 8 M6. Selectcut to 70-80 residual BA. Long term MO is M. Follow in-stand retention guidelines. Acceptable regeneration includes a mixture of the current species. Encourage scarification to breakup thick grass ground cover to help regeneration. ##After Pre-review: Post harvest scarify with anchor chains and followup with herbicide.											
38	M6	6	74	65	northern hardwood	immature		0	planting		
comnts Fmd : Stand on a NE-SW ridge. Fair quality HM poles but good quality basswood. Several basswood poles are wind damaged. Last treated on contract 038-97-01 in 1998-2001. Treat next entry. Wld : GLO notes from 1852 had white pine, hemlock, lynnwood, fir, beech, and ironwood in the hardwood stands. Would like to plant the canopy gaps and edge of stand with a limited amount of suitable pine/spruce species (white spruce/white pine/hemlock). BA is 110, so I will be concentrating on gaps and the edges. Approximately 250-500 trees.											
99	A6	3	50	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : Stand on NE-SW ridge. Stand variable--A6, B6 and F6. Final harvest now with thinning of stand 25 M6. Some hemlock in stand. Clearcut with reserves--retain all hemlock, white pine and yellow birch to meet retention guidelines. Long term MO is A. Acceptable regeneration includes aspen or a mixture of current species.											
102	M6	4	74	65	northern hardwood	immature		0	planting		
comnts Fmd : very little M regen. Some beech poles in stand. Stand last treated on contract 038-97-01. Wld : GLO notes from 1852 had white pine, hemlock, lynnwood, fir, beech, and ironwood in the hardwood stands. Would like to plant the canopy gaps and edge of stand with a limited amount of suitable pine/spruce species (white spruce/white pine/hemlock). BA is 110, so I will be concentrating on gaps and the edges. Approximately 250-500 trees. Sedge is dominant ground cover. White spruce is the most suitable pine species for this stand.											
126	A6	2	66	65	aspen (upland)	mature	final harvest	1			
comnts Fmd : Narrow ridge along property line. Cut now before more falls down. Aspen is blowing over and has conks. Fir is also dying out. Treat with nearby stands 127 and 128. Final harvest. Stand is only two acres-- recommend no in-stand retention. Long term MO is A. Acceptable regeneration is aspen or a mixture of current species.											
127	E6	9	95	50	swamp hardwoods	mature	final harvest	1			
comnts Fmd : Stand variable. E5 and E6 in east part; T6 in center and B6 along west side.; Treat with nearby stands. Clearcut with reserves. Retain cedar in pockets in the SE and SW portions of the stand. Also retain a some paper and yellow birch for seed source. Long term MO is E, T or B, or a mixture of the current species. Acceptable regeneration is a mixture of current species.											
128	Q6	18	95	45	mixed swamp conifer	mature	final harvest	1			
comnts Fmd : Mostly tam. Treat with nearby stands. Clearcut with reserves Retain a 1 acre pocket/strip along the southeast edge of the stand. This pocket/strip is a mixture of species but has a greater component of cedar. Long term MO is Q. Acceptable regeneration includes a mixture of the current species.											
Total Acres.....		112									

**Proposed Treatments
With Limiting Factors**

Compartment: 14

Entry Year: 2011

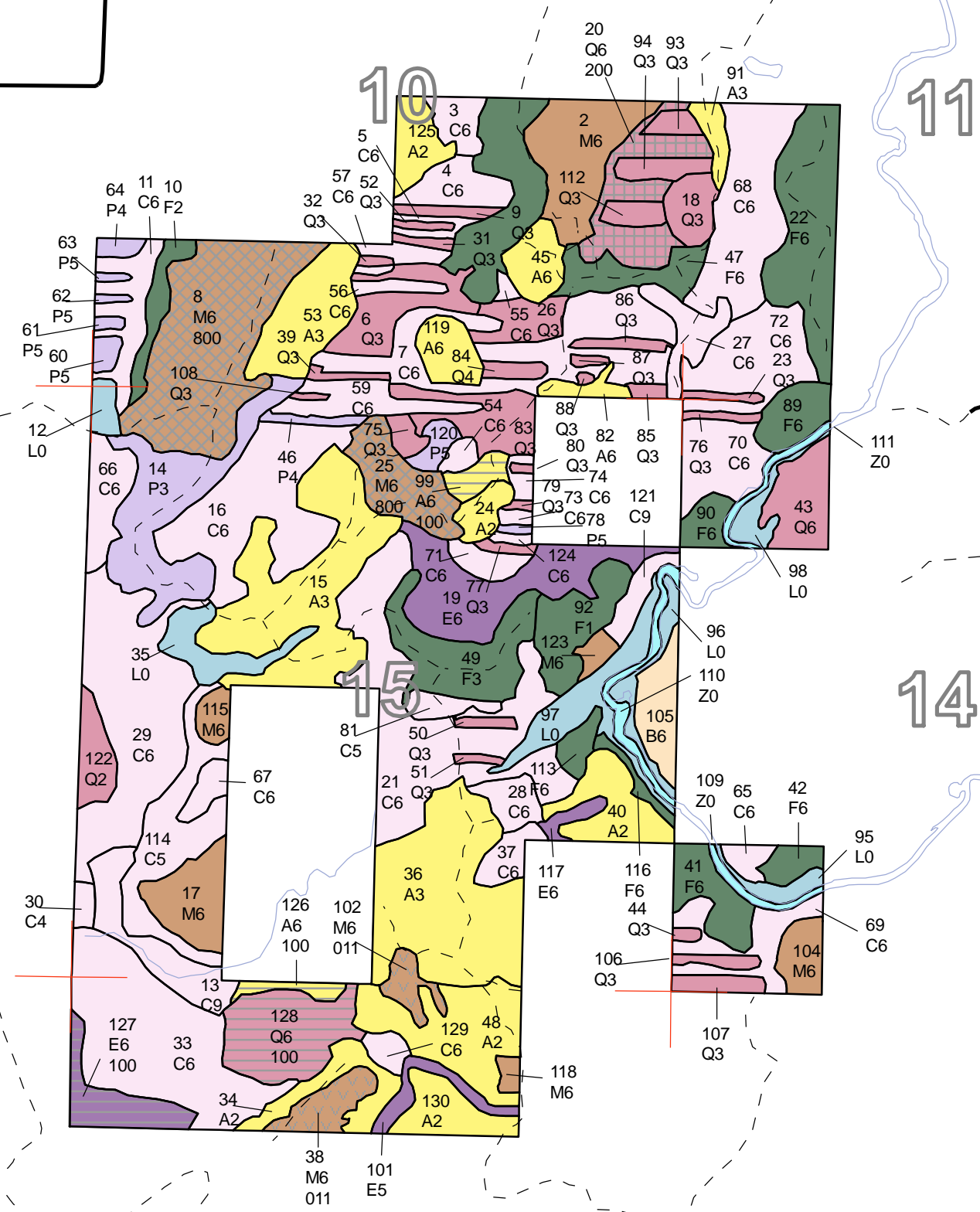
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Compartment 14
 T36N, R27W, Sec. 10, 11, 14, 15, 22
 County: Menominee
 Unit: Escanaba
 YOE: 2011
 Acres: 1,000 GIS Calculated
 Stand Examiner: Joe Durbin
 Map Revised: 8/04/2009
 Map Phase: Pre-Review

Covertypes & Treatment Map



Legend

- Miris Corners
- Highway
- County Paved Roads
- County Gravel Roads
- Paved Roads
- Poor Dirt Roads
- Water Features
- Stand Boundaries

Treatments

- 011 - Planting/Hand tools
- 100 - Final harvest
- 200 - Seed tree
- 846 - Selection/Natural regeneration

- A - Aspen
- B - Paper Birch
- C - Northern White Cedar
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- L - Lowland Brush
- M - Northern Hardwoods
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers
- Z - Water

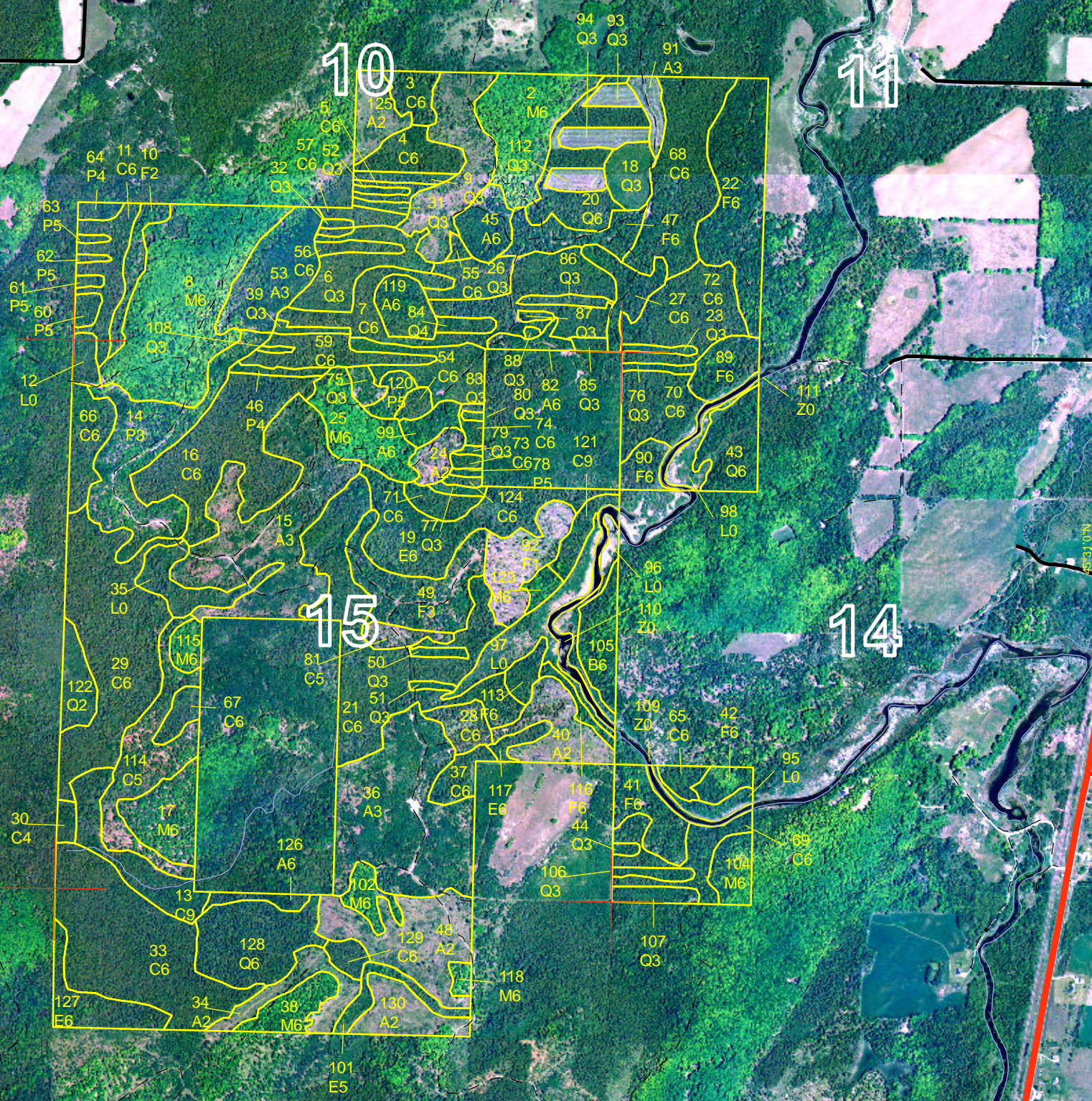
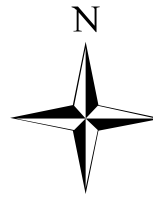


87°38'0"W 87°37'0"W 87°36'0"W

Stand Boundary Map

Compartment 14
 T36N, R27W, Sec. 10, 11, 14, 15, 22
 County: Menominee
 Unit: Escanaba
 YOE: 2011
 Acres: 1,000 GIS Calculated
 Stand Examiner: Joe Durbin
 Map Revised: 8/04/2009
 Map Phase: Pre-Review

10	11
15	14
22	

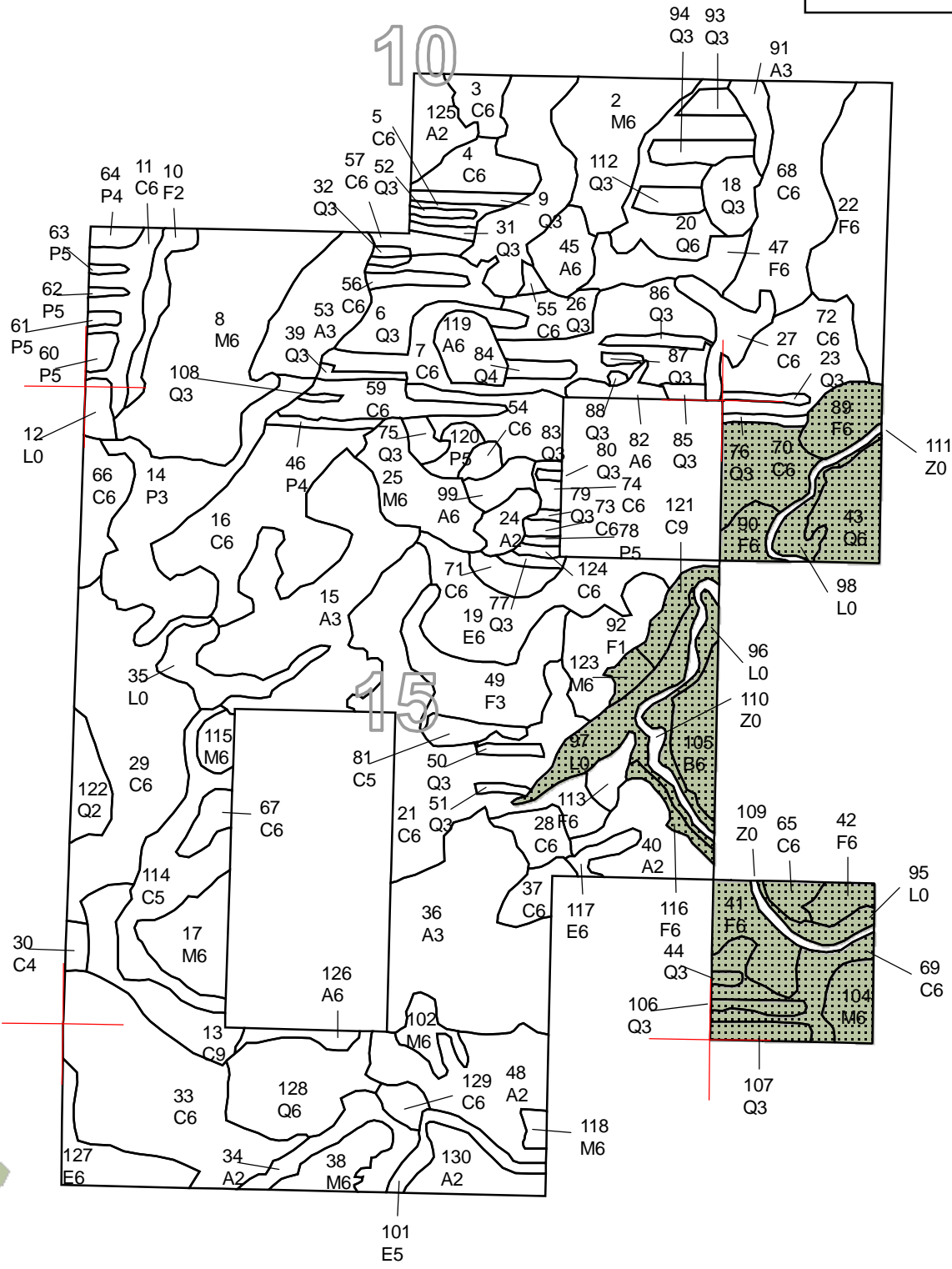
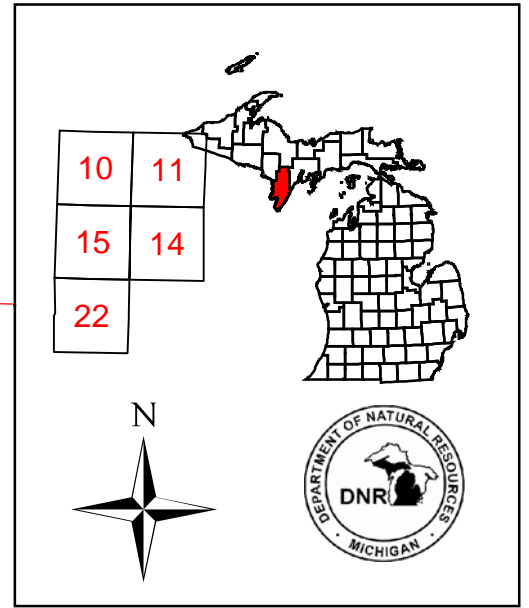


- Legend**
- Miris Corners
 - Highway
 - County Paved Roads
 - County Gravel Roads
 - Paved Roads
 - Poor Dirt Roads
 - Water Features
 - Stand Boundaries



Dedicated & Proposed Special Conservation Area Map

Compartment 14
 T36N, R27W, Sec. 10, 11, 14, 15, 22
 County: Menominee
 Unit: Escanaba
 YOE: 2011
 Acres: 1,000 GIS Calculated
 Stand Examiner: Joe Durbin
 Map Revised: 8/04/2009
 Map Phase: Pre-Review



Legend

- Miris Corners
- Dedicated Special Conservation Areas
- Old Growth Special Conservation Areas
- Potential Old Growth Stands
- Cold Water Streams



87°38'0"W 87°37'0"W 87°36'0"W

45°32'0"N

45°31'0"N

45°30'0"N

45°32'0"N

45°31'0"N

45°30'0"N



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
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