



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 74

ENTRY YEAR: 2010
Compartment Acreage: 1,202
County: Charlevoix

Revision Date: 4/22/2008

Stand Examiner: Kimberly Lentz, Tim Greco and Ric Barta

Legal Description: T37N R10W Sec. 14, 15, 16, 17, 20 & 21

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and Topography: Terrain is primarily level with some low ridges of dune origin near the lake. Soils vary from Kalkaska Sand on the uplands to Deer Park Fine Sands on and near the Lake Michigan shoreline to Carbondale Muck in the lowlands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: For the most part the state ownership is in one big block with some small private holdings in Section 17. The state ownership in Sections 14 & 15 is much smaller and fragmented especially in Section 14.

Unique, Natural Features: A small portion of the compartment is adjacent to Lake Michigan with its associated sand dune habitat.

Archeological, Historical, and Cultural Features: There are at least two historical points of interest in this compartment. One being the cement piers which may have supported part of or all of the Wildwood Inn, designed by the builder of the Grand Hotel, located in section 15 close to the beach. There was also a Late Woodland (prehistoric) camp noted south of Cable Creek.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: Fisheries Division's Central Lake Michigan Management Unit. A portion of this compartment is on the west shoreline of Lake Geneserath. There are several creeks noted in the compartment including Cable Creek which flows into Lake Michigan.

Wildlife Habitat Considerations: This area is largely northern hardwoods with a significant 10-20 year old understory. There are no treatments recommended in the forested stands at this time. If phragmites becomes established along the beach areas, it will be treated as part of an island wide phragmites eradication project.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and dune sand. The glacial drift thickness is approximately 310 feet based on a well drilled in Section 19. Beneath the glacial drift is the Devonian Detroit River Group. The Detroit River is mined for salt in other areas in the State. A gravel pit is located in Section 11 and gravel potential appears to be good. Oil and gas potential appears to be limited. The well in Section 19 was drilled in 1961 as a dry hole down to the Precambrian. None of the State land is currently leased in the compartment.

Vehicle Access: The trails within the compartment consist primarily of old logging trails that require regular maintenance in order to be suitable for two wheel drive vehicles. No road closures at this time.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: There is a hiking trail which crosses over a foot bridge and Cable Creek, and leads to the public beach in section 15 along Cable Bay.

Fire Protection:

Additional Compartment Information: There are no prescribed treatments at this time.

- **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

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHARLEVOIX COUNTY

COMPARTMENT: 74

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								7											7
Bog or Marsh	5																		5
Cedar									37	8		52							97
Hemlock												3							3
Lowlnd Poplr								55				17							72
Marsh	27																		27
Mx Swmp Cnfr									14	30		22	13			33		14	126
Paper Birch										47									47
Sand Dune	15																		15
Swamp Hrdwds									9			8						16	33
Upland Hdwds			4						47	111	317							238	717
White Pine								16										37	53
Total	47		4					78	107	196	317	102	13			33		305	1202

MACKINAW STATE FOREST

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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	7																										7
V Bog or Marsh			5																								5
C Cedar				97																							97
H Hemlock						3																					3
P Lowlnd Poplr										72																	72
N Marsh											27																27
Q Mx Swmp Cnfr												126															126
B Paper Birch															47												47
Y Sand Dune																		15									15
E Swamp Hrdwds																				33							33
M Upland Hdwds																								717		717	
W White Pine																									53	53	
Total	7		5	97		3				72	27	126			47			15		33				717	53	1202	

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

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Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY	
TOTAL VOLUME	CUT VOLUME
Hardwood 5913 Cds	
Hardwood 2862 Mbf	
Softwood 3222 Cds	
Softwood 1013 Mbf	
Sum TotVol 16885 Cds	
Total Cmpnt Acres	Acres Proposed For Cut..... 0
1202	

**Proposed Treatments
With NO Limiting Factors**

Compartment: 74

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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Total Acres..... 0

**Proposed Treatments
With Limiting Factors**

Compartment: 74

Entry Year: 2010

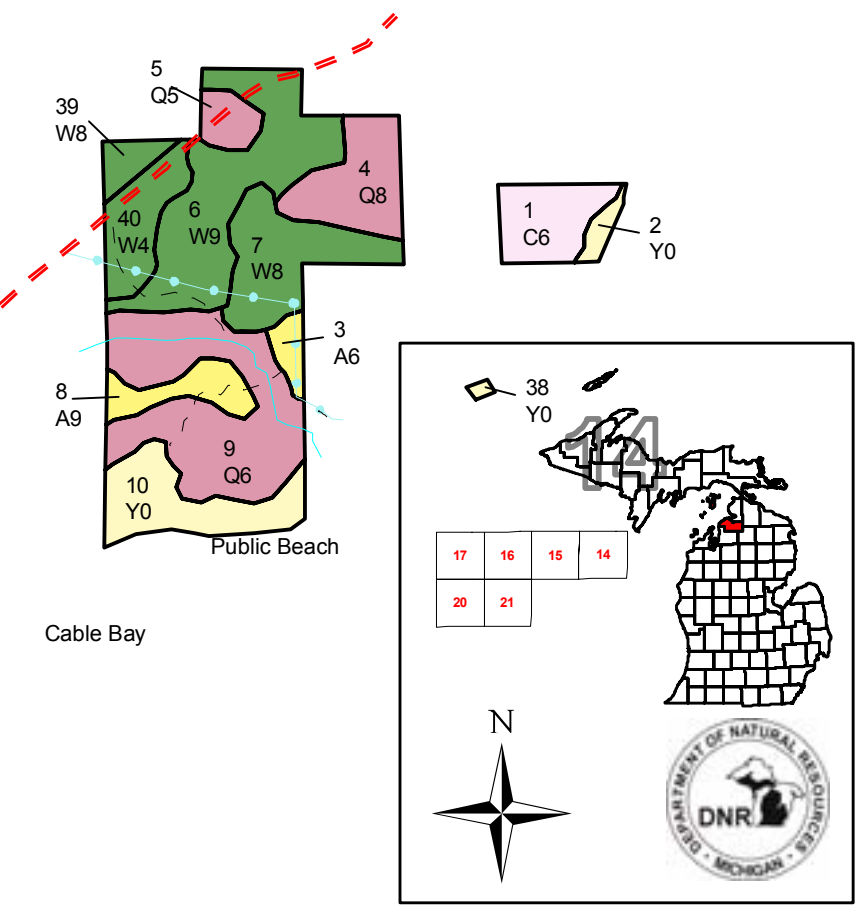
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

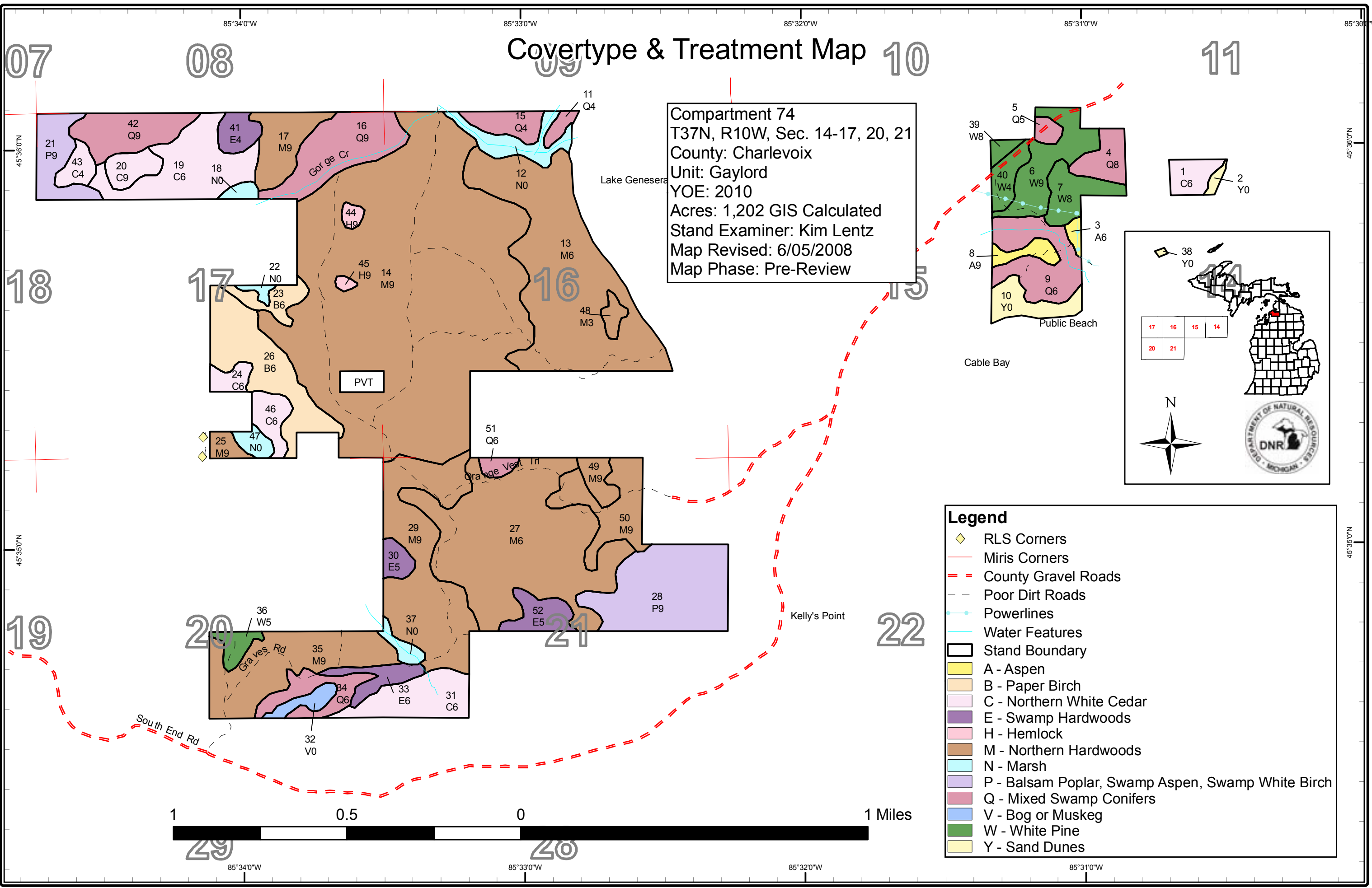
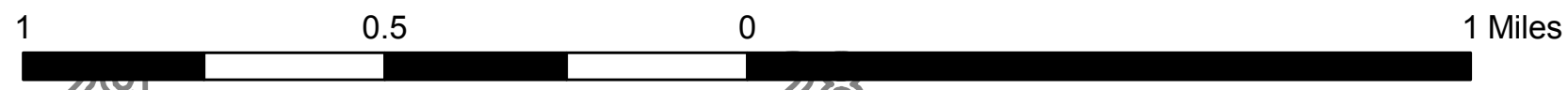
Total Acres..... 0

Covertypes & Treatment Map 10

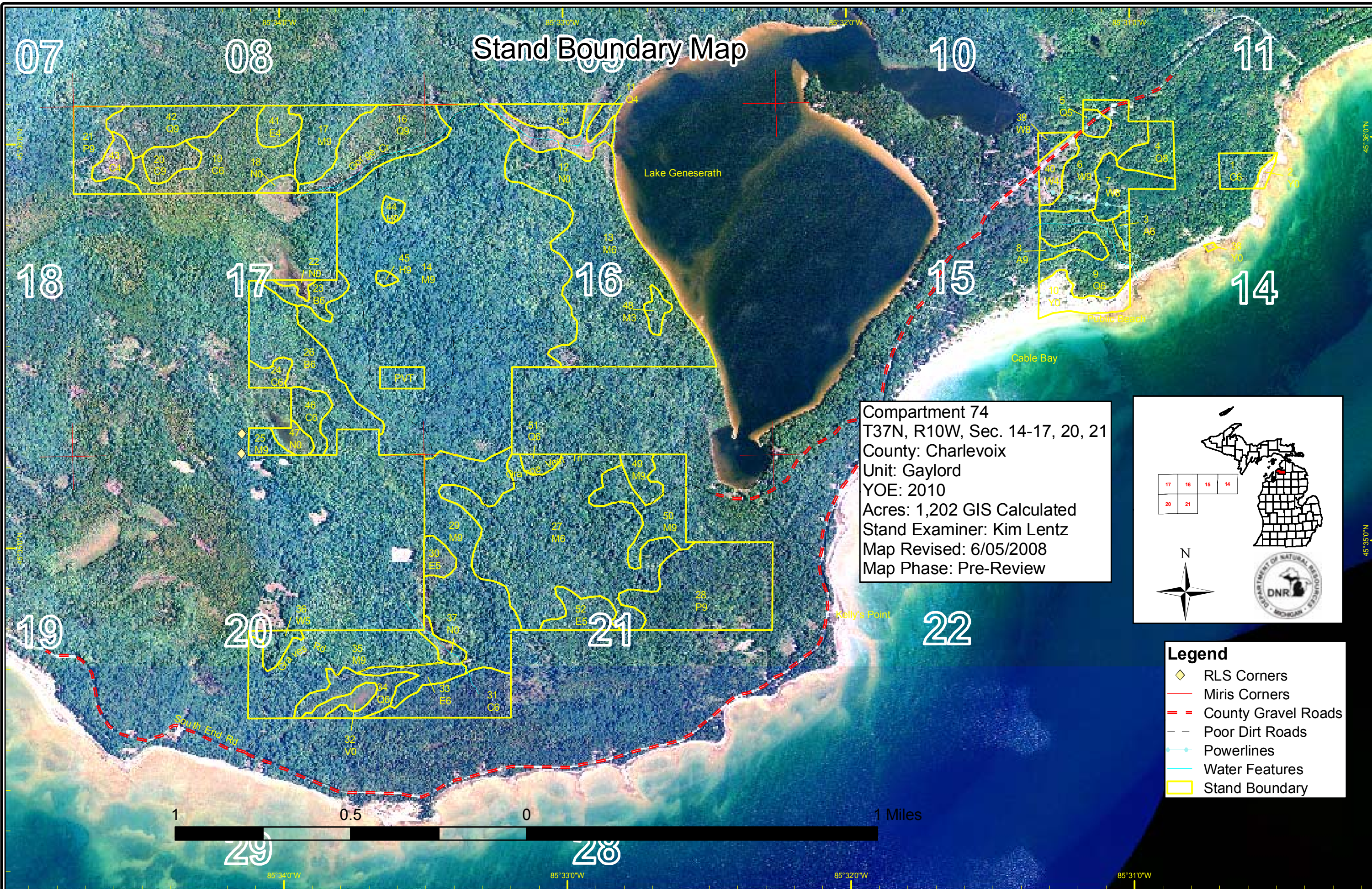
Compartment 74
 T37N, R10W, Sec. 14-17, 20, 21
 County: Charlevoix
 Unit: Gaylord
 YOE: 2010
 Acres: 1,202 GIS Calculated
 Stand Examiner: Kim Lentz
 Map Revised: 6/05/2008
 Map Phase: Pre-Review



- Legend**
- ◆ RLS Corners
 - Miris Corners
 - - - County Gravel Roads
 - - - Poor Dirt Roads
 - Powerlines
 - Water Features
 - Stand Boundary
 - A - Aspen
 - B - Paper Birch
 - C - Northern White Cedar
 - E - Swamp Hardwoods
 - H - Hemlock
 - M - Northern Hardwoods
 - N - Marsh
 - P - Balsam Poplar, Swamp Aspen, Swamp White Birch
 - Q - Mixed Swamp Conifers
 - V - Bog or Muskeg
 - W - White Pine
 - Y - Sand Dunes

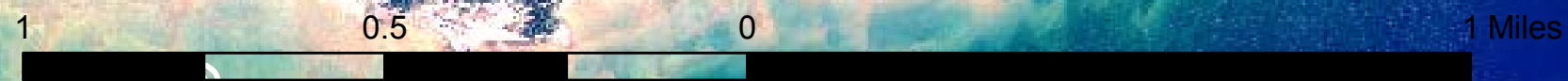


Stand Boundary Map



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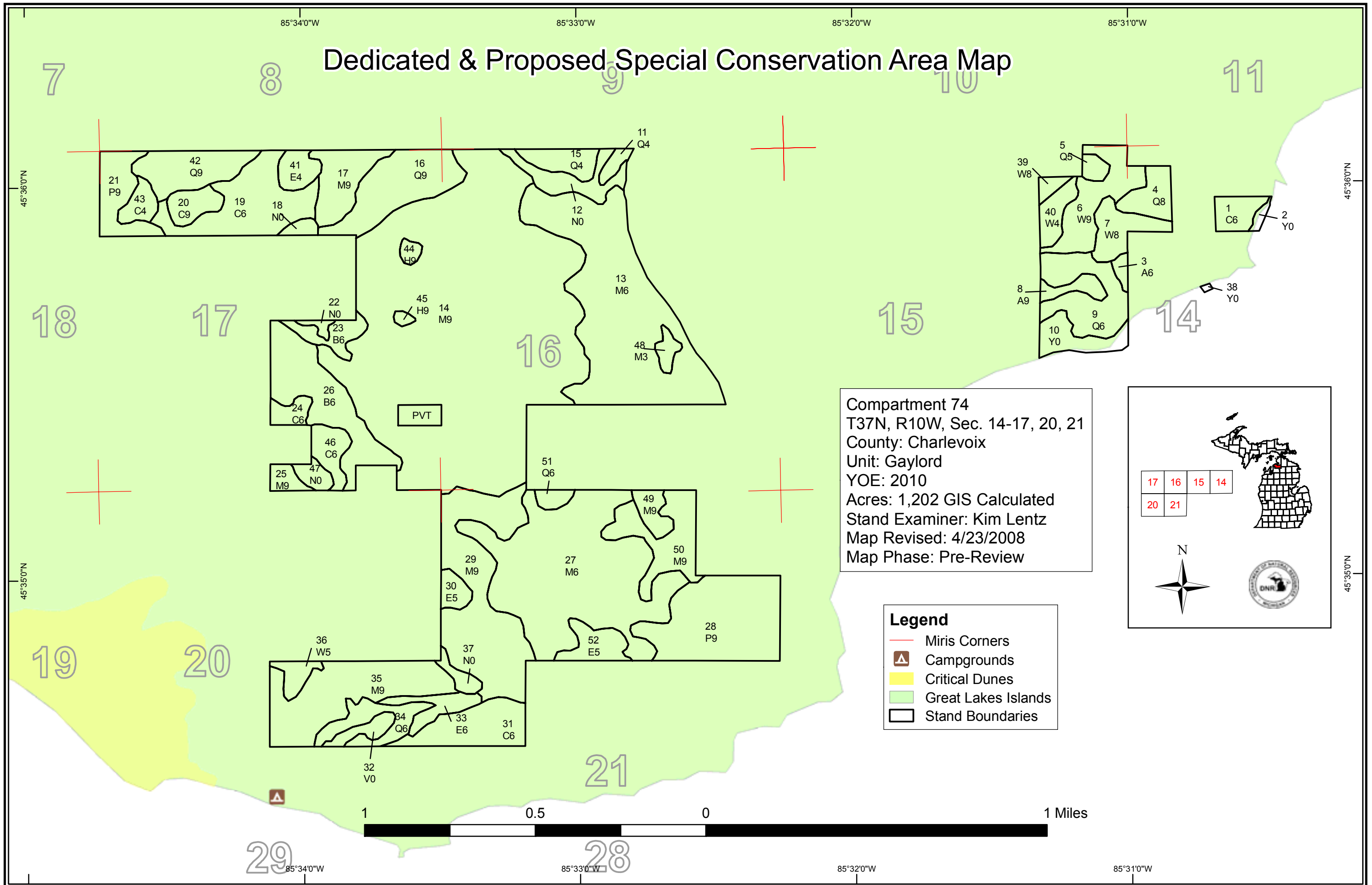
29 28

85°34'0"W 85°33'0"W 85°32'0"W 85°31'0"W






45°36'0"N

45°35'0"N

Dedicated & Proposed Special Conservation Area Map



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- Legend**
-  Miris Corners
 -  Campgrounds
 -  Critical Dunes
 -  Great Lakes Islands
 -  Stand Boundaries





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	Critical Dunes	Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas.
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	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.
SCA	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.