



**GRAYLING FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW REPRESENTATION**

COMPARTMENT # 2 ENTRY YEAR: 2010

GIS Compartment Acreage: 1781 County: Oscoda

Revision Date: September 12, 2008

Stand Examiner: Craig Farrer

Legal Description: T26N, R1E, Section 1 and T27N, R1E, Sections 25, 26, 27, 28, 35, and 36.

Management Goals: To maintain species diversity while also addressing sustainability, forest health, productivity, wildlife requirements, aesthetics, best management practices and recreational opportunities throughout the compartment.

Soils and Topography: Compartment is primarily Grayling sands, Rubicon-Roselawn sands, and Chelsea soils. Terrain is mostly flat to rolling hills.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment is State land intermixed with private land. There are residences scattered throughout the compartment.

Unique, Natural Features: The AuSable River, a designated Natural River.

Archeological, Historical, and Cultural Features: None.

Special Management Designations or Considerations: A small portion of stand 44, in the south part of the compartment, borders the AuSable River.

Watershed and Fisheries Considerations: Beaver Creek and the AuSable River (a Natural River and coldwater trout stream) run through the compartment.

Wildlife Habitat Considerations: To maintain and manage the existing forest cover types for Ruffed Grouse, Woodcock, White-tailed Deer, Wild Turkey, Black Bear and Squirrel, along with non-game species that exist within the compartment. There have been sightings of the Massasauga Rattle Snake and Wood Turtle within the compartment.

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 400 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not a current economic use for the Coldwater Shale. A gravel pit is located in Section 1 and potential is good on the uplands. Section 34 is leased for oil and gas development.

Vehicle Access: Compartment is accessible from Ruth Road, Townline Road, Cherry Creek Road, Kneeland Road, Hanson Road and Seeley Road. Several two-tracks branch off of these roads into the compartment.

Survey Needs: None

Recreational Facilities and Opportunities: The Meadows MCCCT Trail traverses through portions of the compartment. The compartment provides opportunities for hunting, fishing, mushrooming, and wildlife watching.

Fire Protection: Compartment falls under the protection of the Red Oak Volunteer Fire Department and the Michigan Department of Natural Resources. The nearest water sources are the AuSable River and Beaver Creek.

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

GRAYLING FOREST MGT UNIT

OSCODA 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		78	32	146	90	72			11									26	455
Black Spruce		21																	21
Bog or Marsh	78																		78
Grass	59																		59
Jack Pine		89	28		15					113									245
LowInd Brush	17																		17
Mx Swmp Cnfr										10									10
Oak							73			64	150							98	385
Red Pine			30	26	10			100	18									16	200
Treed Bog								17											17
Upland Brush	37																		37
Upland Hdwds									20										20
White Pine		127		23	46			7			13							21	237
Total	191	315	90	195	161	72	73	124	49	187	163							161	1781

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

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA 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	455																										455
S Black Spruce		21																									21
V Bog or Marsh			78																								78
G Grass					59																						59
J Jack Pine							150									95											245
L Lowlnd Brush									17																		17
Q Mx Swmp Cnfr												10															10
O Oak														385													385
R Red Pine		8														192											200
D Treed Bog																						17					17
U Upland Brush																								37			37
M Upland Hdwds																								20			20
W White Pine																										237	237
Total	463	21	78		59		150		17			10		385		287						17	37	20		237	1781

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA COUNTY

COMPARTMENT: 2

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7453 Cds	Hardwood	1733 Cds
Hardwood	2022 Mbf	Hardwood	415 Mbf
Softwood	6869 Cds	Softwood	2287 Cds
Softwood	2838 Mbf	Softwood	356 Mbf
Sum TotVol	24042 Cds	Sum CutVol	5562 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1781		343	

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 2

Entry Year: 2000

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
4	R9	18	80	61	red pine	immature	thinning	1		stand with fdf potential
comnts Fmd : 2008 Notes: Red Pine stand mixed with some White Pine. W2 understory. Recommend thinning the stand to 70 to 90 BA. North end of stand borders private as well as the west side of stand.										
9	O9	22	98	67	oak	mature	shelterwood-seed	1		
comnts Fmd : Mature Oak stand. Understory consists of White Pine and some Red Maple. Two tracks access private property throughout the stand. One of these is maintain year around and gated at the private property. North side of the stand and the south side of the stand border private property. The west side of the stand borders Seeley Road and private property. Recommend a shelterwood seed cut (40% Crown closure - Mark to leave) Leave the 10BA of Red Pine and Leave 30/40 BA of Oak. Will accept what ever species will regenerate. Should get some Oak stump sprouts , White pine and Red Maple.										
10	M9	20	84	50	northern hardwood	mature	thinning	1		
comnts Fmd : 2008 Notes: Northern Hardwood stand (over mature timber within stand) with a couple of small Hemlock pockets. Stand previously had a lot of Paper Birch, but is dying out now. Stand was probably pastured in the past. And, the stand has very little regeneration throughout the stand. Recommend thinning stand to 90 BA with regeneration holes scattered throughout and leave and protect all Hemlock. Treat the stand in the summer or late fall to disturb the soil for seeding to occur the next spring.										
13	O9	41	88	45	oak	mature	final harvest	1		
comnts Fmd : Mature stand of Oak mixed with White Pine (Stand also has Red Maple and Aspen throughout it). Small drainage (intermittent) down through the middle of the stand and running east and west. East side of the stand borders Ruth Road. The south side of the stand borders state land and the remaining side border private property. Recommend a final harvest with reserves. Retention along roads - leave patches of Oak. Leave all Pine and hardwood along and within the drainage area out of the sale. Will accept a mix of regeneration. Old Notes from previous inventory :OVERSTORY TO BE LEFT TO PROTECT W3 FROM WEEVIL Treat in 2010										
20	R9	8		42	aspen (upland)	two aged	final harvest	1		
comnts Fmd : Small Red Pine plantation mixe with other spieces. Recommend final harvest. Do not replant to Red Pine. Stand should regenerate to Aspen and Balsam. Will accept a mix of species at a minimum stocking level. R8 stand w/A2 understory.										
39	A6	38	38	57	aspen (upland)	mature	final harvest	1		
comnts Fmd : 2008 Notes: Large Aspen stand mixed with White Pine. Recommend final harvest and winter cut only. Do not protect White Pine in stand. Cut with stand 73. Natural regeneration expected. Old notes: A3 stand in transition to A6										
41	J6	95	91	51	red pine	mature	final harvest	1	planting	
comnts Fmd : 2008 Notes: Mature Jack Pine stand with some scattered Oak. South west portion of the stand borders private property. Recommend final harvest and replant to Red Pine/ Jack Pine. Leave appropriate retention in pockets, especially along the road for visual management also. Old notes: Treat in 2010 when trees are larger										
45	O9	63	98	55	oak	immature	final harvest	1		
comnts Fmd : 2008 Notes: Oak stand with some Aspen, Red Maple and Pine mixed in. Medium stocking of White Pine in the understory. Drainage in the south half of the stand. Recommend final harvest with reserves. Leave pockets of Oak throughout the stand. Old notes: Treat in 2010 when white pine is larger and less likely to be damaged										
59	J6	18	91	51	jack pine	mature	final harvest	1	planting	
comnts Fmd : 2008 Notes: Jack Pine stand mixed with Oak and Red Pine. Stand borders Cherry Creek Road. Recommend final harvest of the stand but leave all Red Pine. Replant to Jack Pine. For retention, leave two healthy pockets along road for visual management as well.										
61	U2	18			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : U2, upland brush type. Wildlife recommended prescribed burn with adjacent stand 405. Burn the upland portions. Some lowland brush site within the stand.										
69	O9	5	98	67	oak	mature	shelterwood-seed	1		
comnts Fmd : Mature Oak stand. Understory consists of White Pine and some Red Maple. Two tracks access private property throughout the stand. One of these is maintain year around and gated at the private property. North side of the stand and the south side of the stand border private property. The west side of the stand borders Seeley Road and private property. Treat stand with a final harvest with retention.										

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 2

Entry Year: 2000

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
73	A6	15	38	57	aspen (upland)	mature	final harvest	1			
comnts Fmd : 2008 Notes: Large Aspen stand mixed with White Pine. Recommend final harvest. Natural regeneration expected. Use hare specifications on edges of the stand.										Old notes: A3 stand in transition to A6	
401	G0	3			grass	nonstocked		0	opening maintenance		
comnts Fmd : Wildlife maintained with mowing.											
404	G0	17			grass	nonstocked		0	opening maintenance		
comnts Fmd : Grassy opening maintained by wildlife. Recommended by Wildlife Division a prescribed burn with stands 405 and 61 (U2). Continue mowing.											
405	G0	6			grass	nonstocked		0	opening maintenance		
comnts Fmd : Wildlife Maintained. Wildlife Division recommended a prescribed burn with stand 404 and 61 (U2). Continue mowing also.											
407	G0	3			grass	nonstocked		0	opening maintenance		
comnts Fmd : Wildlife maintained. Continue mowing.											
408	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : Grassy opening. Wildlife maintained. Continue mowing.											
409	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : Wildlife maintained Continue mowing.											
410	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : wildlife maintained continue mowing.											
411	G0	2			grass	nonstocked		0	opening maintenance		
comnts Fmd : wildlife maintained continue mowing											
412	G0	2			grass	nonstocked		0	opening maintenance		
comnts Fmd : wildlife maintained continue mowing.											
Total Acres.....		397									

**Proposed Treatments
With Limiting Factors**

Compartment: 2

Entry Year: 2010

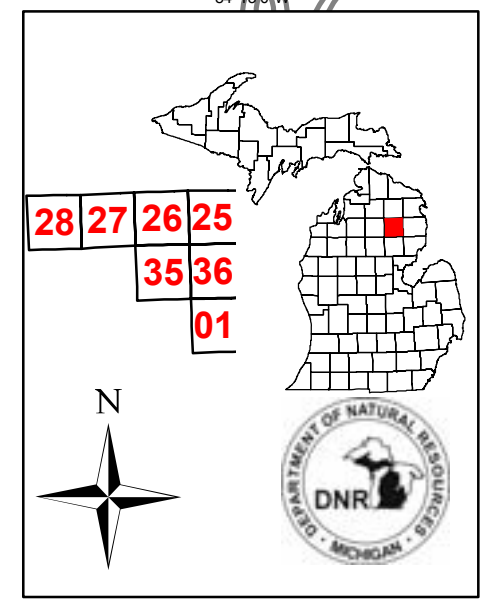
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

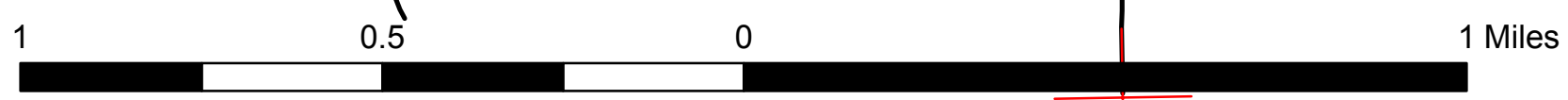
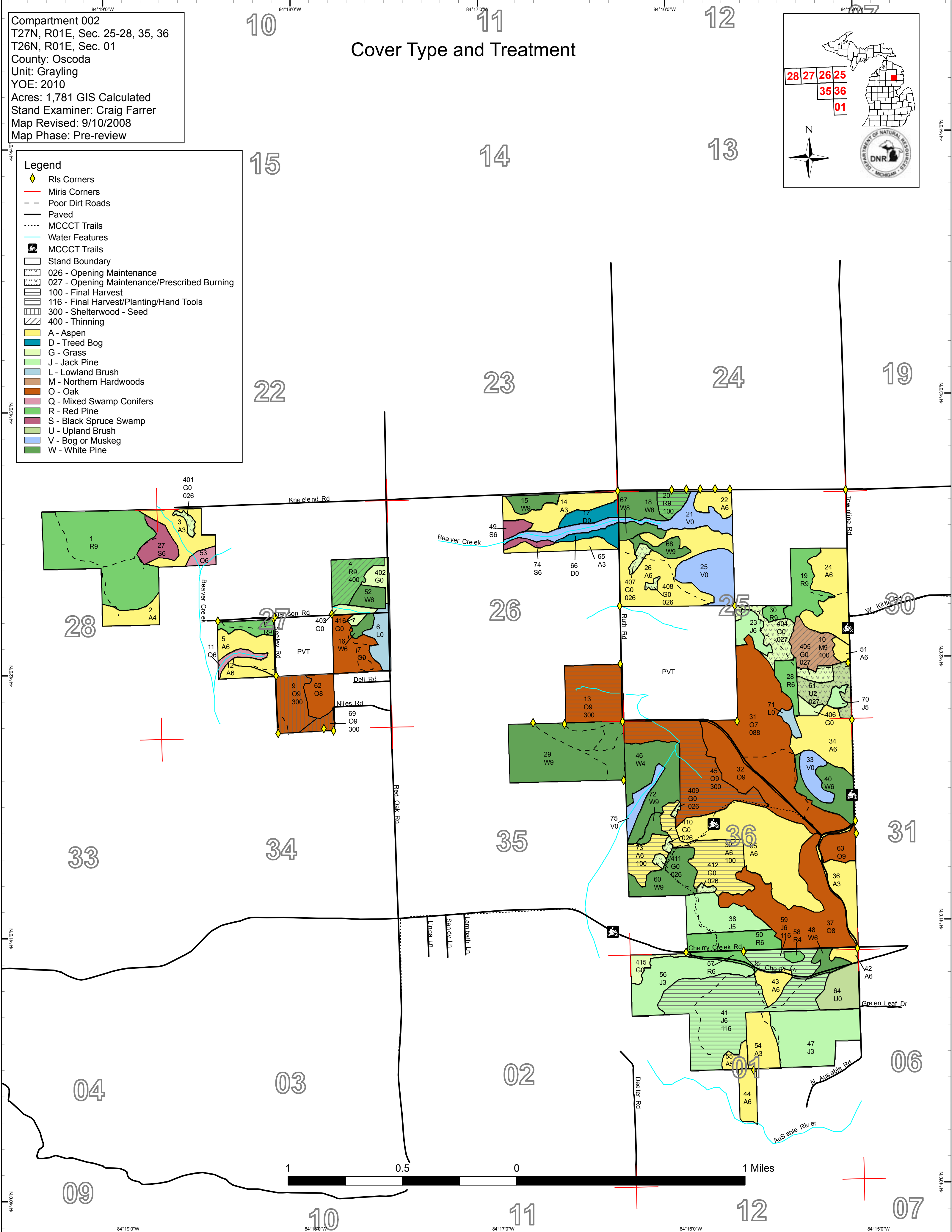
Compartment 002
 T27N, R01E, Sec. 25-28, 35, 36
 T26N, R01E, Sec. 01
 County: Oscoda
 Unit: Grayling
 YOE: 2010
 Acres: 1,781 GIS Calculated
 Stand Examiner: Craig Farrer
 Map Revised: 9/10/2008
 Map Phase: Pre-review

Cover Type and Treatment



Legend

- ◆ RIs Corners
- Miris Corners
- - - Poor Dirt Roads
- Paved
- MCCCT Trails
- Water Features
- Ⓜ MCCCT Trails
- Stand Boundary
- ▨ 026 - Opening Maintenance
- ▨ 027 - Opening Maintenance/Prescribed Burning
- ▨ 100 - Final Harvest
- ▨ 116 - Final Harvest/Planting/Hand Tools
- ▨ 300 - Shelterwood - Seed
- ▨ 400 - Thinning
- A - Aspen
- D - Treed Bog
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- O - Oak
- Q - Mixed Swamp Conifers
- R - Red Pine
- S - Black Spruce Swamp
- U - Upland Brush
- V - Bog or Muskeg
- W - White Pine



Map coordinates: 84°19'0"W, 84°18'0"W, 84°17'0"W, 84°16'0"W, 84°15'0"W
 44°44'0"N, 44°43'0"N, 44°42'0"N, 44°41'0"N, 44°40'0"N

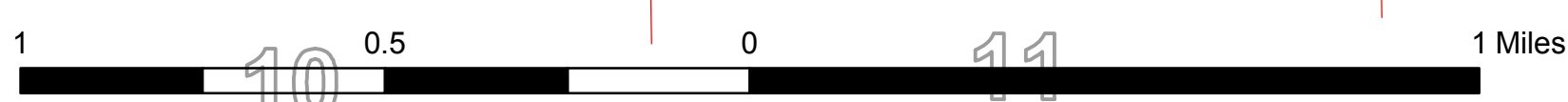
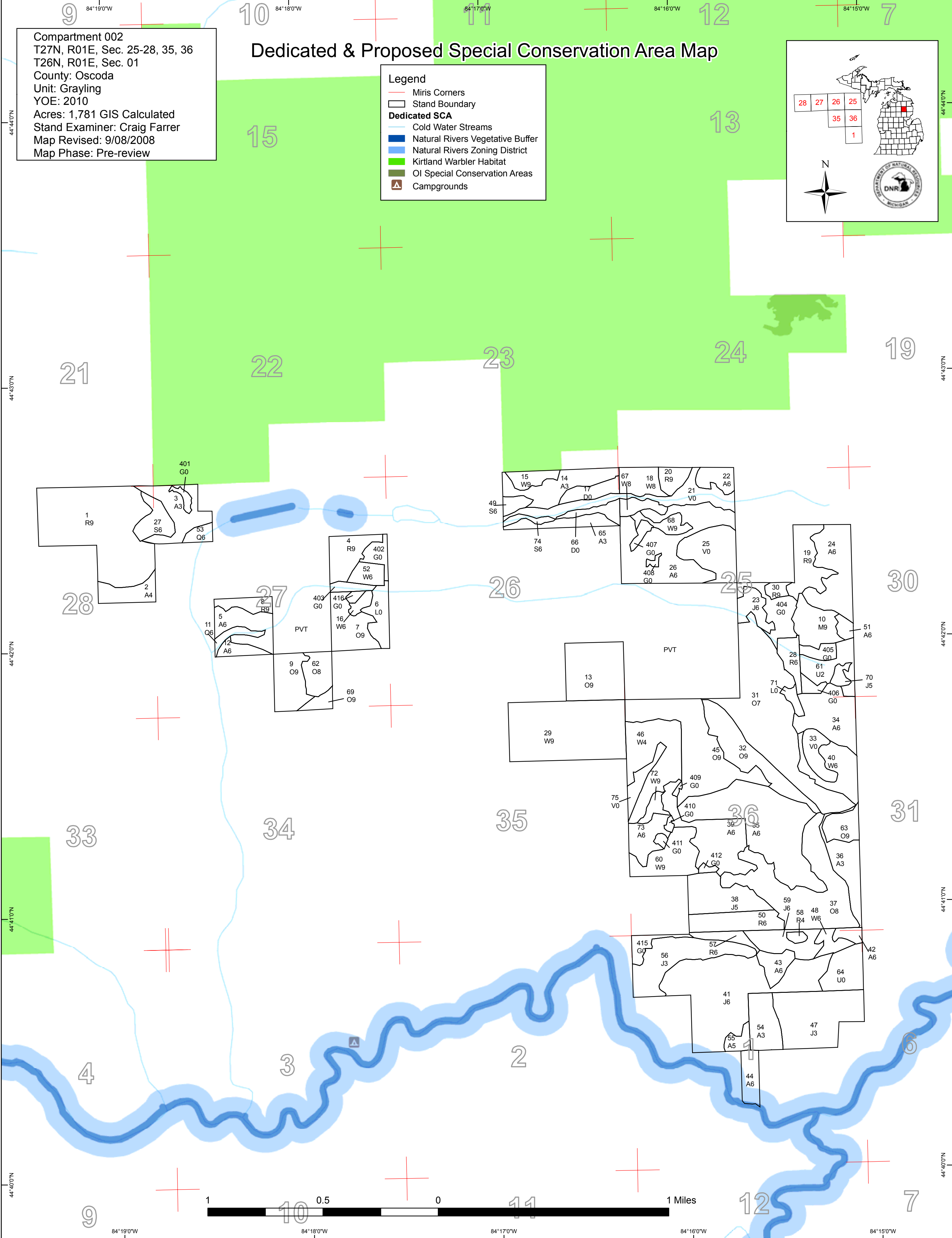
Compartment 002
T27N, R01E, Sec. 25-28, 35, 36
T26N, R01E, Sec. 01
County: Oscoda
Unit: Grayling
YOE: 2010
Acres: 1,781 GIS Calculated
Stand Examiner: Craig Farrer
Map Revised: 9/08/2008
Map Phase: Pre-review

Dedicated & Proposed Special Conservation Area Map

Legend

- Miris Corners
- Stand Boundary
- Dedicated SCA**
- Cold Water Streams
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- OI Special Conservation Areas
- Campgrounds

Michigan Department of Natural Resources





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	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.