



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 008 ENTRY YEAR: 2011

Compartment Acreage: 1356 County: SCHOOLCRAFT

Revision Date: 10/21/09

Stand Examiner: R. Tylka

Legal Description: T44N R13W Sections 16-21, 30

RMU (if applicable):

Management Goals: Timber and wildlife management opportunities are the primary focus on state lands in this compartment, with additional emphasis on recreation.

Soil and Topography: Flat to rolling terrain generally featuring sandy soils on the uplands and heavier soils in the bottomlands. Drainage is frequently impeded on the lowland sites.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The state owned lands in sections 16 - 21 consist of several oddly-sized blocks of land mixed in with private ownership, including parcels featuring a number of permanent homes and hunting camps. Section 30 is wholly state-owned and features the Mead Creek State Forest Campground at the confluence of Mead Creek and the Manistique River. This compartment is just east of and immediately adjacent to the Seney National Wildlife Refuge.

Unique, Natural Features (include only non-site specific and non-sensitive information): Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: The Manistique River is classified as non-trout water. The fisheries community consists of walleye, smallmouth bass, northern pike, sunfish, yellow perch, sucker spp., and minnow spp. Mead Creek is also non-trout water and supports in the lower reaches a similar fish community like that found in the Manistique River. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations: This compartment lies east of the Manistique River on the northern end of the River Road and contains a variety of forest types ranging from aspen and northern hardwoods to upland pines and lowland conifers. Mead Creek flows across the middle of this compartment.

Wildlife goals include maintaining species and structural diversity within the northern hardwood stands, promoting super-canopy trees near the Manistique River, maintaining hemlock where present, maintaining lowland cedar stands, and providing age and structural diversity between aspen stands.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of lacustrine (lake) sand & gravel and coarse-textured till. The glacial drift thickness varies between 50 and 100 feet. The Silurian Manitoulin Dolomite and Ordovician Big Hill Dolomite and Queenston Shale subcrop below the glacial drift. The Manitoulin and Big Hill could be used for stone. Gravel pits are located in the area and there should be potential on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access:

County Road P436 runs north–south through the compartment, and numerous logging roads provide access to much of the state lands in this area. Some areas in the northeastern part of the compartment are only accessible across private lands.

Survey Needs:

Recreational Facilities and Opportunities:

Mead Creek State Forest Campground is located in section 30, on the banks of the Manistique River.

Fire Protection:

Access across low, wet terrain may be problematic in some areas.

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

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST MGT UNIT

SCHOOLCRAFT COUNTY

COMPARTMENT: 8

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		82	101	29	15		3												230
Black Spruce									28										28
Bog or Marsh	166																		166
Cedar									50		158	100							308
Grass	5																		5
Jack Pine		9	18	50						40									117
Lowlnd Brush	49																		49
Lowlnd Poplr									51										51
Mx Swmp Cnfr				4				1		22									27
Non Stocked	15																		15
Paper Birch			13																13
Red Pine		15						5		147									167
Upland Hdwds																		184	184
Water	4																		4
Total	239	106	132	83	15		3	6	129	209	158	100						184	1356

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

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST MGT UNIT

SCHOOLCRAFT COUNTY

COMPARTMENT: 8

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	230																										230
S Black Spruce		28																									28
V Bog or Marsh			166																								166
C Cedar				308																							308
G Grass					5																						5
J Jack Pine							117																				117
L LowInd Brush			12						37																		49
P LowInd Poplr										51																	51
Q Mx Swmp Cnfr												27															27
X Non Stocked													15														15
B Paper Birch															13												13
R Red Pine																167											167
M Upland Hdwds																								184			184
Z Water																									4		4
Total	230	28	178	308	5		117		37	51		27	15		13	167								184	4		1356

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST MGT UNIT

SCHOOLCRAFT COUNTY

COMPARTMENT: **8**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3981 Cds	Hardwood	1051 Cds
Hardwood	324 Mbf	Hardwood	11 Mbf
Softwood	6887 Cds	Softwood	1211 Cds
Softwood	854 Mbf	Softwood	328 Mbf
Sum TotVol	13224 Cds	Sum CutVol	2940 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	237
1356			

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
4	M6	19		55	northern hardwood	unevenaged	selection	3		
comnts Fmd : [8/20/03] Prepped for sale 41- 009-02-01. Residual BA/acre: r.maple = 64, y.birch = 4, cedar = 2, b. fir = 1, w.spruce = 3 [02/07/06] Sale is now closed incomplete TCR dtd 02/02/06 - this stand was not cut. YOE 2011 - attempt to sell this stand along with stands 10, 11 & 12.										
10	S6	4	72	37	black spruce-swamp	immature	final harvest	3		
comnts Fmd : Cut along with stand 12 - reserve any hemlock encountered in the stand. Acceptable regeneration includes all conifers plus aspen & birch.										
11	S6	7	72	37	black spruce-swamp	immature	final harvest	3		
comnts Fmd : Cut along with stand 12 - reserve any hemlock encountered in the stand. Acceptable regeneration includes all conifers plus aspen & birch.										
12	P6	34	74	60	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3	natural regeneration	
comnts Fmd : Buffer the stream in the south end of the stand and stay away from the adjacent wet areas that may be inoperable; doing this will also provide for retention guidelines. Acceptable regeneration includes all species present. If any hemlock or white pine is encountered, reserve it.										
33	A6	3	49	50	aspen (upland)	mature	final harvest	3		
comnts Fmd : Ready to cut.										
38	R9	54	82	60	red pine	mature	shelterwood-seed	2	natural regeneration	
comnts Fmd : Ready for a seed-tree cut & prescribed fire to regenerate the stand. Retain the largest, healthiest pine as seed sources. Mixed softwood includes spruce & fir. Red pine regen is desirable/acceptable; if stocking of natural red pine regen is inadequate, plant more red pine before the benefit of burning is lost.										
41	R9	32	84	65	red pine	mature	shelterwood-seed	2	natural regeneration	
comnts Fmd : Ready for a seed-tree cut & prescribed fire to regenerate the stand. Retain the largest, healthiest pine as seed sources. Red pine regen is desirable/acceptable; if stocking of natural red pine regen is inadequate, plant more red pine before the benefit of burning is lost.										
46	R9	4	84	60	red pine	mature	seed tree	3	natural regeneration	
comnts Fmd : Ready for a seed-tree cut. Retain the healthiest trees to provide a seed source, and scarify for natural regeneration. Wld : Leave some deciduous trees in the stand if present for diversity.										
49	J6	6	84	40	jack pine	immature	final harvest	1		
comnts Fmd : Slow-growing jack pine/spruce mix - harvest now or lose it. Retention guidelines will be met during sale preparation: jack pine and all other conifers are acceptable regeneration. Wld : Retention should include leaving trees along the west side of the stand next to the Q stand for a travel corridor, and scattered trees across the stand.										
51	J6	8	84	40	jack pine	immature	final harvest	1		
comnts Fmd : Slow-growing jack pine/spruce mix - harvest now or lose it. Retention guidelines will be met during sale preparation: jack pine and all other conifers are acceptable regeneration. Wld : Retention should include leaving some trees on the north end of the stand between the adjacent Q stands, and leaving some scattered trees through the rest of the stand.										
56	J6	15	84	40	jack pine	immature	final harvest	1		
comnts Fmd : Slow-growing jack pine/spruce mix - harvest now or lose it. Retention guidelines will be met during sale preparation: jack pine and all other conifers are acceptable regeneration.										
57	R9	24	84	65	red pine	mature	shelterwood-seed	2	natural regeneration	
comnts Fmd : Semi-open red pine thinned in 1996 - ready for a seed-tree cut & prescribed fire to regenerate the stand. Retain the largest, healthiest pine as seed sources. Red pine regen is desirable/acceptable; if stocking of natural red pine regen is inadequate, plant more red pine before the benefit of burning is lost. Retention guidelines will be met during sale prep. Wld : Leave deciduous trees if present for diversity.										

SHINGLETON FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 8

Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
58	R9	13	84	65	red pine	mature	shelterwood-seed	2	natural regeneration	
comnts Fmd : Thinned in 1996 - ready for a seed-tree cut & prescribed fire to regenerate the stand. Retain the largest, healthiest pine as seed sources. Red pine regen is desirable/acceptable; if stocking of natural red pine regen is inadequate, plant more red pine before the benfit of burning is lost. Retention guidelines will be met during sale prep. Wld : Leave deciduous trees if present for stand diversity.										
59	M6	4		50	northern hardwood	unevenaged	selection	3		
Wld : Leave a component of beech if present. Leave one or more wolffy trees for diversity, and maintain species and structural diversity in the stand.										
60	R9	10	84	65	red pine	mature	seed tree	2	natural regeneration	
comnts Fmd : Thinned in 1996 - ready for a seed-tree cut & prescribed fire to regenerate the stand. Retain the largest, healthiest pine as seed sources. Red pine regen is desirable/acceptable; if stocking of natural red pine regen is inadequate, plant more red pine before the benfit of burning is lost. Retention guidelines will be met during sale prep. Wld : Leave deciduous trees if present for diveristy.										
Total Acres.....		237								

**Proposed Treatments
With Limiting Factors**

Compartment: 8

Entry Year: 2011

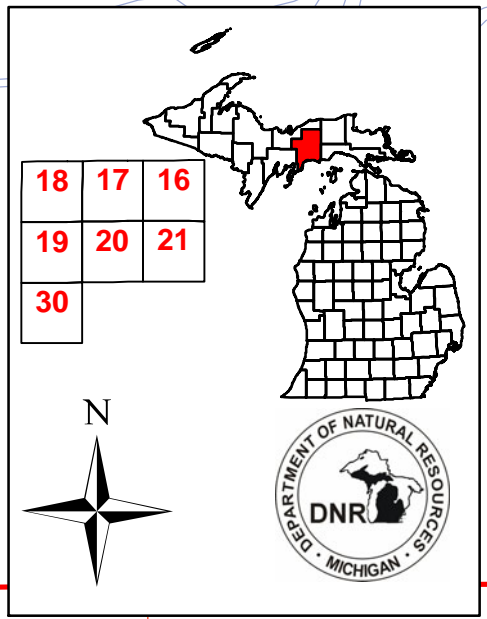
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

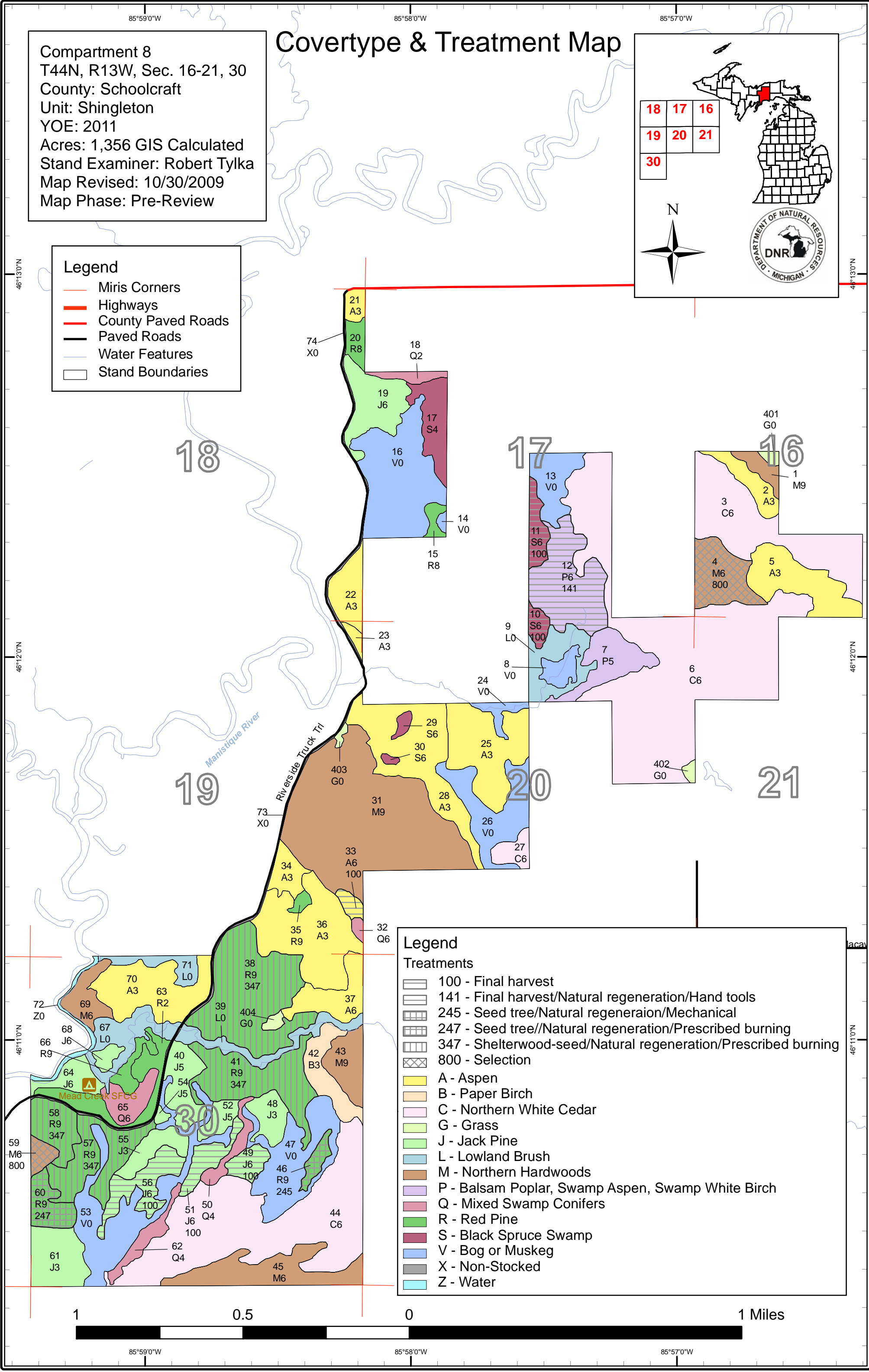
Total Acres..... 0

Compartment 8
 T44N, R13W, Sec. 16-21, 30
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2011
 Acres: 1,356 GIS Calculated
 Stand Examiner: Robert Tylka
 Map Revised: 10/30/2009
 Map Phase: Pre-Review

Covertime & Treatment Map



- Legend**
- Miris Corners
 - Highways
 - County Paved Roads
 - Paved Roads
 - Water Features
 - Stand Boundaries



- Legend**
- Treatments**
- 100 - Final harvest
 - 141 - Final harvest/Natural regeneration/Hand tools
 - 245 - Seed tree/Natural regeneration/Mechanical
 - 247 - Seed tree//Natural regeneration/Prescribed burning
 - 347 - Shelterwood-seed/Natural regeneration/Prescribed burning
 - 800 - Selection
- Species**
- A - Aspen
 - B - Paper Birch
 - C - Northern White Cedar
 - G - Grass
 - J - Jack Pine
 - L - Lowland Brush
 - M - Northern Hardwoods
 - P - Balsam Poplar, Swamp Aspen, Swamp White Birch
 - Q - Mixed Swamp Conifers
 - R - Red Pine
 - S - Black Spruce Swamp
 - V - Bog or Muskeg
 - X - Non-Stocked
 - Z - Water



Stand Boundary Map

Compartment 8
 T44N, R13W, Sec. 16-21, 30
 County: Schoolcraft
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 Stand Examiner: Robert Tylka
 Map Revised: 10/30/2009
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18	17	16
19	20	21
30		

N

18

17

16

19

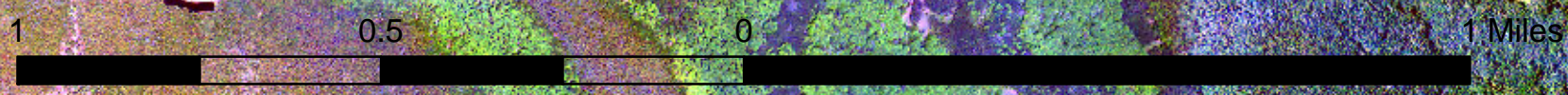
20

21

30

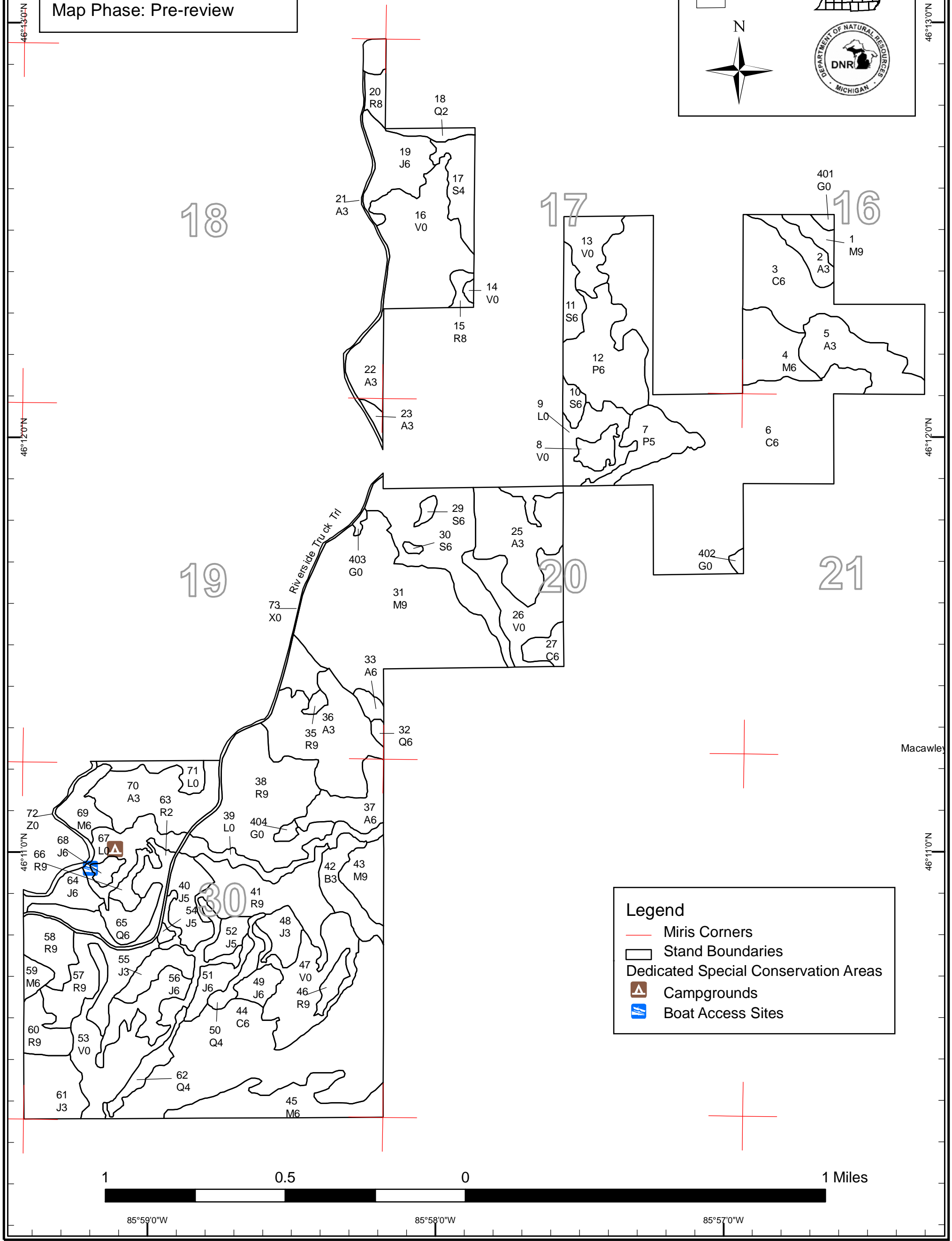
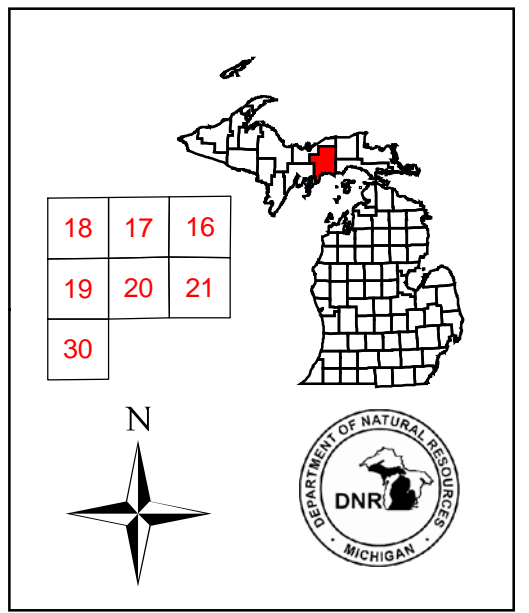
Legend

- Miris Corners
- Highways
- County Paved Roads
- Paved Roads
- Water Features
- Stand Boundaries



Dedicated & Proposed Special Conservation Area Map

Compartment 8
 T44N, R13W, Sec. 16-21, 30
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2011
 Acres: 1,356 GIS Calculated
 Stand Examiner: Robert Tylka
 Map Revised: 10/30/2009
 Map Phase: Pre-review



Legend

- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas**
- Campgrounds
- Boat Access Sites



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	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.