



**SHINGLETON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 155    ENTRY YEAR: 2011**

**Compartment Acreage: 2477      County: SCHOOLCRAFT**

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**Revision Date: 10/23/09**

**Stand Examiner: R. Tylka**

**Legal Description: T46N R16W Sections 22-26**

**RMU (if applicable):**

**Management Goals:** Timber and wildlife management opportunities are the primary focus on state lands in this compartment.

**Soil and Topography:** Flat to gently rolling terrain generally featuring sandy to loamy soils on the uplands & ridges, and heavier muck soils in the bottomlands. Drainage is slow on the lowland sites, which comprise most of this compartment.

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

The area features large blocks of contiguous state ownership, and there are no private lands within this compartment. A power transmission line runs east-west through the compartment.

**Unique, Natural Features (include only non-site specific and non-sensitive information):**

This compartment includes significant acreage of the Creighton Marsh Patterned Fen Ecological Reference Area.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):**

**Special Management Designations or Considerations:**

The Creighton Marsh Patterned Fen ERA represents a high-quality example of a patterned fen. A management plan for it is currently being developed.

**Watershed and Fisheries Considerations:** The Creighton River, Marsh Creek, and Ducey Creek are warm-water streams. 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:** Bordered by Creighton River on the west and M-28 on the south, this compartment is dominated by the marsh/conifer ridge complex. Marsh Creek bisects this compartment on a Northwest/Southeast diagonal. A patterned fen ecological reference area covers a third to half of the compartment. Wolf and moose activity are common. Wildlife goals include protecting the marsh habitat, providing super-canopy pine trees for raptor nesting, maintaining some closed canopy conifer habitat, protecting stream bank corridors, and promoting regeneration of deciduous tree species.

**Mineral Resource and Development Concerns and/or Restrictions:**

Surface sediments consist of Lacustrine (lake) sand and gravel and peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River subcrops below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. Gravel pits are not found in the general area, and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

Logging roads and the powerline provide good access to much of section 26 and parts of sections 23 and 25. There is also limited access to parts of sections 24 & 25 via a woods road that originates in the compartment to the east (Compartment 153.) The rest of the compartment lacks vehicle access.

**Survey Needs:****Recreational Facilities and Opportunities:**

There are no developed recreational facilities in this compartment.

**Fire Protection:**

Access across low, wet terrain is extremely difficult in many 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: 155

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		8	141		14				8										171
Black Spruce		59							30	21	10								120
Bog or Marsh	3																		3
Cedar																		8	8
Grass	26																		26
Jack Pine		2	1	5			5												13
Lowlnd Brush	88																		88
Marsh	1419																		1419
Mx Swmp Cnfr			25	5			10	59	22	36	15							12	184
Non Stocked	7																		7
Paper Birch							10												10
Red Pine					5	2		29	48	37								2	123
Swamp Hrdwds			15			7	26	11	6									70	135
Treed Bog	16																		16
Upland Hdwds							3											7	10
Water	133																		133
White Pine		5								4		2							11
<b>Total</b>	<b>1692</b>	<b>74</b>	<b>182</b>	<b>10</b>	<b>19</b>	<b>9</b>	<b>54</b>	<b>99</b>	<b>114</b>	<b>98</b>	<b>25</b>	<b>2</b>						<b>99</b>	<b>2477</b>

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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: 155

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	167																									4	171	
S Black Spruce		120																										120
V Bog or Marsh			3																									3
C Cedar				8																								8
G Grass					26																							26
J Jack Pine							13																					13
L Lowlnd Brush									88																			88
N Marsh											1419																	1419
Q Mx Swmp Cnfr												184																184
X Non Stocked													7															7
B Paper Birch															10													10
R Red Pine																123												123
E Swamp Hrdwds																				135								135
D Treed Bog																						16						16
M Upland Hdwds	7																								3			10
Z Water																									133			133
W White Pine																										11		11
<b>Total</b>	174	120	3	8	26		13		88		1419	184	7		10	123				135		16			3	133	15	2477

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST MGT UNIT

SCHOOLCRAFT COUNTY

COMPARTMENT: **155**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2012 Cds	Hardwood	456 Cds
Softwood	2704 Cds	Softwood	1236 Cds
Softwood	355 Mbf	Softwood	64 Mbf
Sum TotVol	5426 Cds	Sum CutVol	1820 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	117
2477			

## SHINGLETON FOREST MGT UNIT

Proposed Treatments  
With NO Limiting Factors

Compartment: 155 Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
16	S6	10	71	48	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Ready to cut - some breakup/blowdown is beginning to occur. Reserve scattered white pine and cedar; retention guidelines will be met during sale preparation. Acceptable regen will include all conifer species. Mixed volume includes paper birch, red maple and aspen. Wld : Leave some large white pines where present.										
19	R7	11	61	48	red pine	in process of regeneration		0	natural regeneration	
comnts Fmd : Leave birch seed source. Remove undesirable white pine. May plant red pine if desirable. [4/04/03] This stand is now under contract TS #010-01 Creighton River Mix . See also FTP #C41-1055. [7/30/07] Sale is completed TCR dtd 7-23-07. [8-09] Ops inventory for YOE 2011 - approx. 20 sq.ft/acre red pine and a few white pine & cedar were left after the cut. Some aspen & red maple sprouts + a few spruce saplings are the only regen present at this time.										
24	S6	2	69	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Ready to cut - evidence of stand break-up is becoming apparent. Mixed volume includes red pine, tamarack and paper birch. Retention guidelines will be met during sale prep; acceptable regen includes all conifer spp.										
25	S6	5	69	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Ready to cut - evidence of stand break-up is becoming apparent. Mixed volume includes red pine, tamarack and paper birch. Retention guidelines will be met during sale prep; acceptable regen includes all conifer spp. Wld : Leave a component of mature birch in the stand.										
26	R7	33	69	48	red pine	in process of regeneration		0	natural regeneration	
comnts Fmd : [4/04/03] This stand is now under contract TS #010-01 Creighton River Mix . See also FTP #C41-1055. [7/30/07] Sale is completed TCR dtd 7-23-07. [8-09] Ops inventory for YOE 2011 - no regen yet except a few aspen & red maple sprouts.										
31	S6	13	69	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Ready to cut - evidence of stand break-up is becoming apparent. Retention guidelines will be met during sale prep; acceptable regen includes all conifer spp.										
39	S6	1	80	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Ready to cut - evidence of stand break-up is becoming apparent. Retention guidelines will be met during sale prep; acceptable regen includes all conifer spp. Mixed hardwood includes birch & red maple; mixed softwood consists of tamarack, cedar , fir and a few pine.										
40	Q5	4	80	40	mixed swamp conifer	mature	final harvest	3		
comnts Fmd : Wet ground - cut w/adjoining spruce. Retention guidelines will be met during sale prep; acceptable regen includes all conifer spp. Mixed softwood includes tamarack & cedar.										
49	M6	7		46	aspen (upland)	unevenaged	final harvest	2		
comnts Fmd : [01/07/09] Prescribed for treatment in YOE 2001 - Cut along with adjacent stand in C.153 (41153273, YOE 2009.) Leave any red & white pine, and hemlock.										
67	S6	2	80	50	black spruce-swamp	mature	final harvest	3		
comnts Fmd : Ready to cut - evidence of stand break-up is becoming apparent. Retention guidelines will be met during sale prep; acceptable regen includes all conifer spp. and aspen clones.										
68	A6	1	72	46	aspen (upland)	mature	final harvest	3		
comnts Fmd : Mix of aspen, red maple & conifers. Cut now - retention guidelines will be met during sale preparation. Acceptable regeneration will include aspen & all conifers.										
76	A6	7	72	60	aspen (upland)	mature	final harvest	3		
comnts Fmd : Ready to cut. Keep any red pine, white pine, hemlock and cedar; other retention guidelines will be met during sale prep. Acceptable regen includes aspen, red maple and all conifer spp. Site indices vary with slight elevation changes - the SI shown here was carried forward from the previous inventory.										
77	E6	10		46	swamp hardwoods	unevenaged	final harvest	3		
comnts Fmd : Year of origin was listed as 1937, but unevenaged characteristics are developing. Ready to cut. Retention guidelines will be met during sale prep; acceptable regen includes red maple, aspen and all conifer spp. Site index is a rough estimate only.										

## SHINGLETON FOREST MGT UNIT

Proposed Treatments  
With NO Limiting Factors

Compartment: 155 Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
79	S6	2	88	46	black spruce-swamp	mature	final harvest	3		
comnts Fmd : Ready to cut - evidence of stand break-up is becoming apparent. paper Retention guidelines will be met during sale prep; acceptable regen includes all conifer spp.										
80	S6	2	88	46	black spruce-swamp	mature	final harvest	3		
comnts Fmd : Ready to cut - evidence of stand break-up is becoming apparent. paper Retention guidelines will be met during sale prep; acceptable regen includes all conifer spp.										
84	S6	6	88	46	black spruce-swamp	mature	final harvest	3		
comnts Fmd :										
119	Q6	30	80	49	mixed swamp conifer	mature	final harvest	2		
comnts Fmd : Ready to cut. Retain red & white pine plus any cedar and hemlock encountered in the stand. Acceptable regeneration includes all species currently present in the stand.										
120	S0	55	2	40	black spruce-swamp	in process of regeneration		0	other - specify in remarks	
comnts Fmd : Cut in 2007 - mix of residual white pine, red pine & cedar. Schedule regen survey.										
124	J0	2	2	47	jack pine	in process of regeneration		0	natural regeneration	
comnts Fmd : See FTP #C41-1056.										
126	J6	2	54	43	jack pine	mature	final harvest	2	natural regeneration	
128	J6	3	54	43	jack pine	mature	final harvest	2	natural regeneration	
133	S6	3	80	44	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Ready to cut - acceptable regen includes all conifer spp. Retention guidelines will be met at the time of sale preparation.										
144	S0	4	2	44	black spruce-swamp	in process of regeneration		0	other - specify in remarks	
comnts Fmd : Cut in 2007 - Schedule regen survey. Some pine were retained for diversity. Site index is a rough estimate based on similar stands nearby.										
146	W7	5	2	48	white pine	in process of regeneration		0	other - specify in remarks	
comnts Fmd : Cut in 2007 - Pine seed trees were retained. Schedule regen survey.										
148	W7	4	80	48	white pine	in process of regeneration		0	other - specify in remarks	
comnts Fmd : Cut in 2007 - Pine seed trees were retained. Schedule regen survey.										
Total Acres.....		224								

SHINGLETON FOREST MGT UNIT

Proposed Treatments  
With Limiting Factors

Compartment: 155 Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
88	S6	7	78	40	black spruce-swamp	mature	final harvest	3		

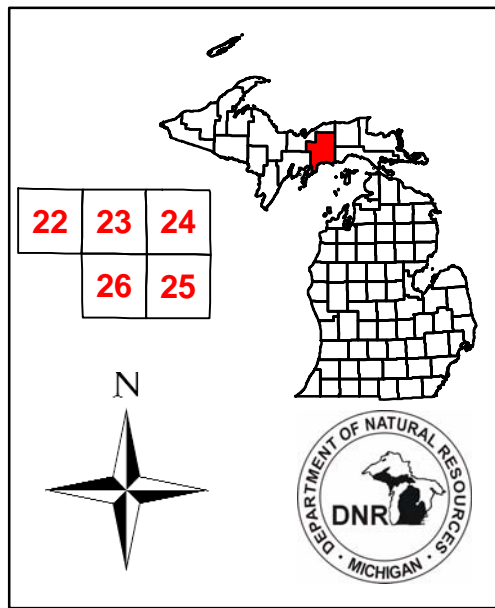
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity

comnts Fmd : Cut along with stand 41153245 (adjacent to the east) when it is prescribed in YOE 2019.

Total Acres..... 7

# Covertime & Treatment Map

Compartment 155  
 T46N, R16W, Sec.22-26  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2011  
 Acres: 2,477 GIS Calculated  
 Stand Examiner: Robert Tylka  
 Map Revised: 11/12/2009  
 Map Phase: Pre-Review

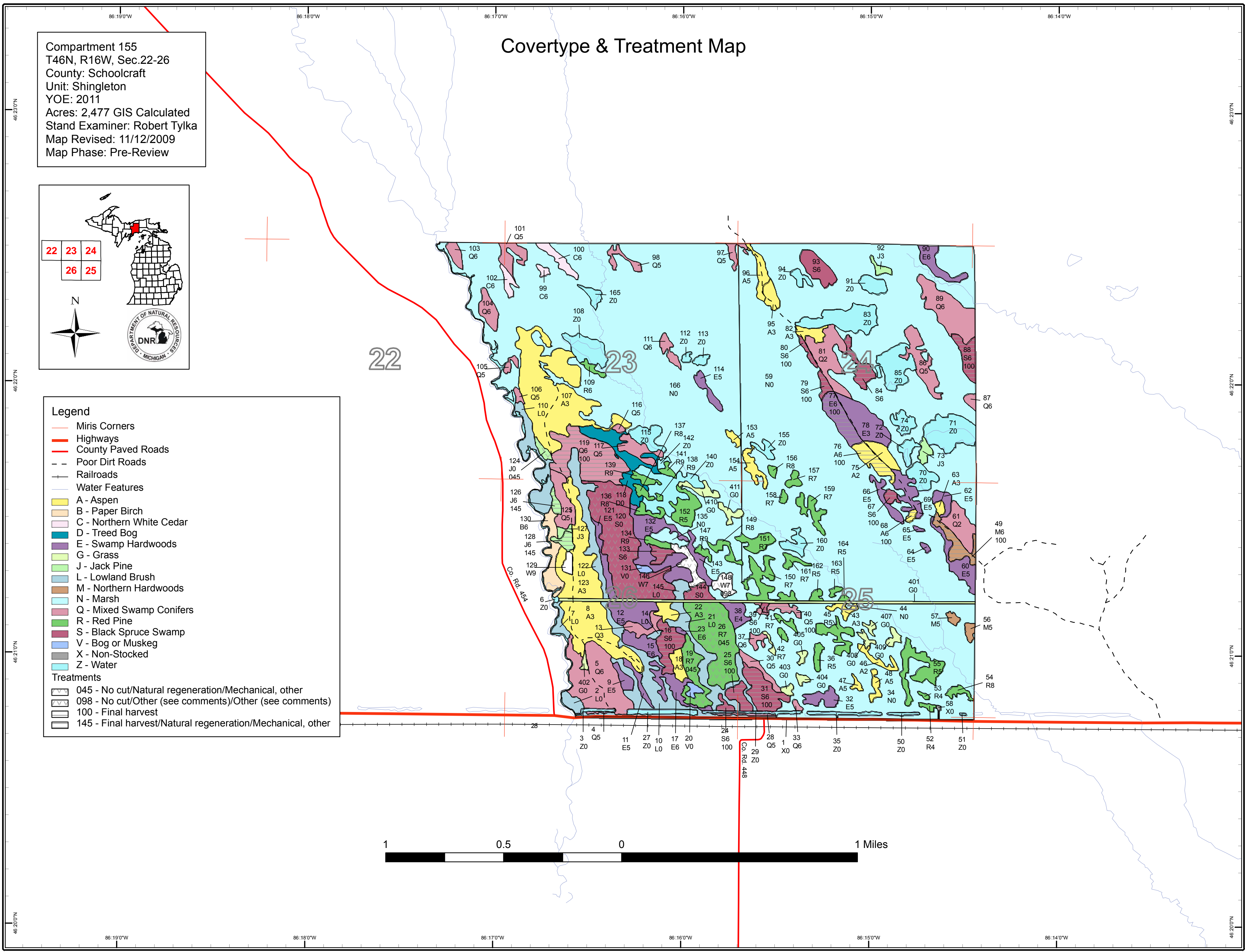
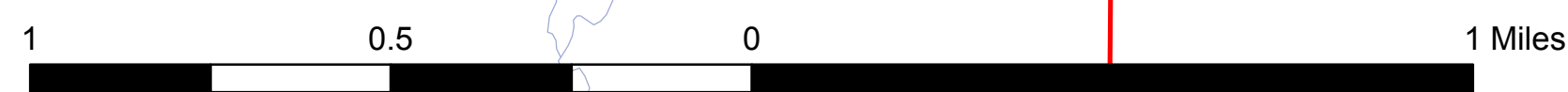
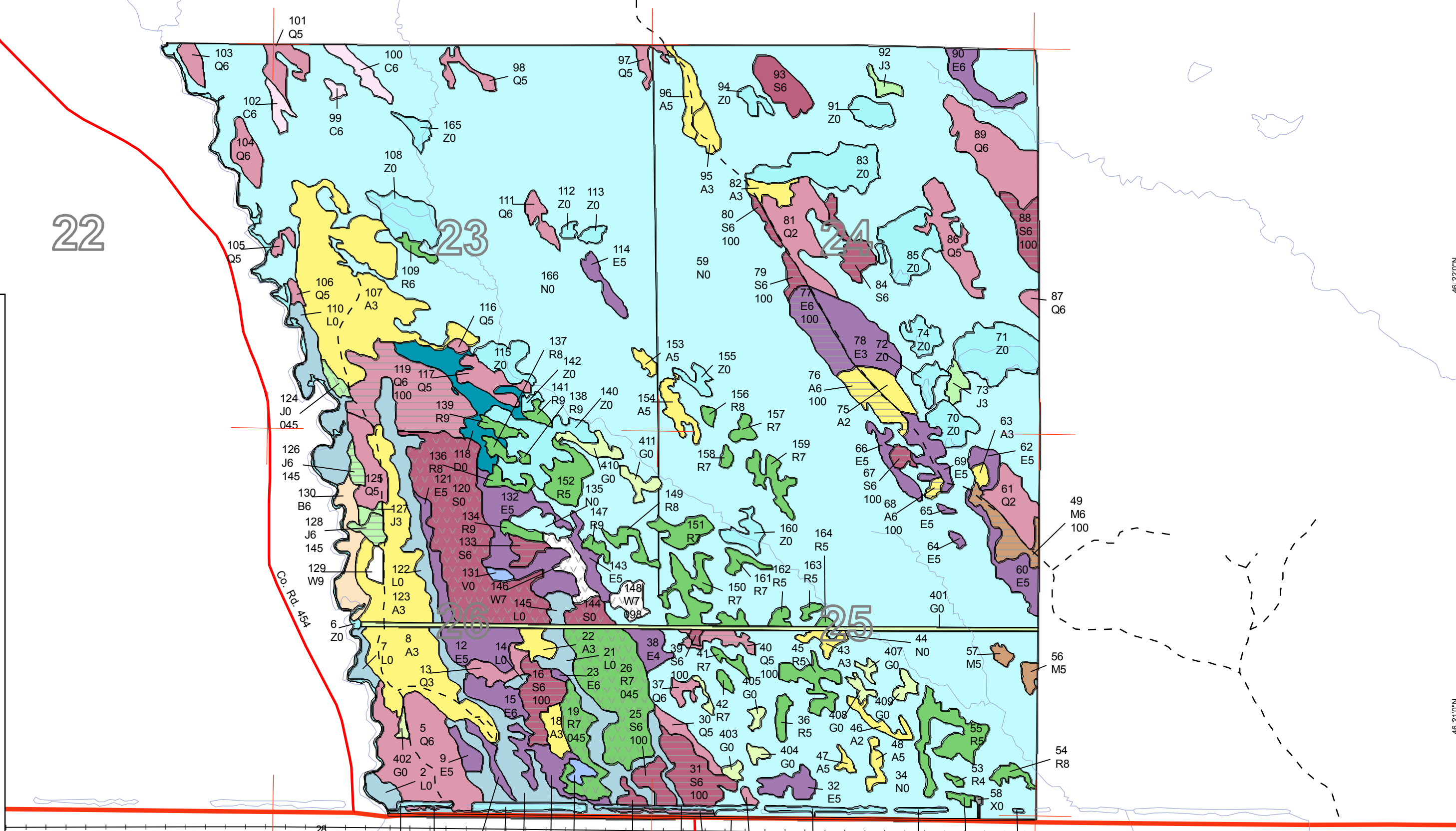


**Legend**

- Miris Corners
- Highways
- County Paved Roads
- - - Poor Dirt Roads
- - - Railroads
- Water Features
- A - Aspen
- B - Paper Birch
- C - Northern White Cedar
- D - Treed Bog
- E - Swamp Hardwoods
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- Q - Mixed Swamp Conifers
- R - Red Pine
- S - Black Spruce Swamp
- V - Bog or Muskeg
- X - Non-Stocked
- Z - Water

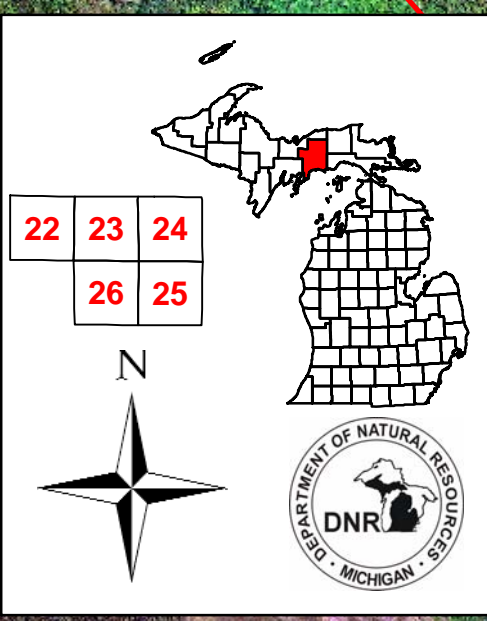
**Treatments**

- 045 - No cut/Natural regeneration/Mechanical, other
- 098 - No cut/Other (see comments)/Other (see comments)
- 100 - Final harvest
- 145 - Final harvest/Natural regeneration/Mechanical, other



# Stand Boundary Map

Compartment 155  
T46N, R16W, Sec.22-26  
County: Schoolcraft  
Unit: Shingleton  
YOE: 2011  
Acres: 2,477 GIS Calculated  
Stand Examiner: Robert Tylka  
Map Revised: 11/12/2009  
Map Phase: Pre-Review



- Legend**
- Miris Corners
  - Highways
  - County Paved Roads
  - Railroads
  - Poor Dirt Roads
  - Stand Boundaries

22

23

24

26

25







**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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
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.