



**SHINGLETON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 121    ENTRY YEAR: 2011**

**Compartment Acreage: 2,526    County: Schoolcraft**

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**Revision Date:** August 25, 2009

**Stand Examiner:** Kristen Matson

**Legal Description:** T46N, R14W, sec. 19, 20, 29, 30.

**RMU (if applicable):**

**Management Goals:** To manage the compartment in accordance with the principles of sustainable forest eco-system management.

**Soil and Topography:** Low, wet ground with low ridges of pine. Soils include: Rousseau-Neconish-Deford Complex 0-25% slopes, Deford-Meehan-Seney Complex 0-3% slopes, Kinross-AuGres-Rubicon Complex 0-15% slopes, Rubicon Sand 0-25% slopes, and Deford Muck.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The majority of the land surrounding the compartment is State owned land, with private land to the northeast, and the Seney National Wildlife Refuge to the southeast.

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

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

**Special Management Designations or Considerations:** SCA – Potential Old Growth in the northeast portion of section 20.

**Watershed and Fisheries Considerations:** No fisheries concerns.

**Wildlife Habitat Considerations:** This compartment lies east of the Driggs River and north of M-28. The land cover is dominated by upland and lowland conifer stands, with several small drainages and marshy patches interspersed. Conifer stands have been managed on a rotational system, providing various age classes across the compartment and landscape. Wildlife management goals in this area are to maintain age and structural diversity between stands in such a pattern so as to create travel corridors with a basic north/south orientation. Species use of the compartment includes wolves, black bear, coyote, red fox, American marten, Nashville warbler, and kinglets.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Group subcrops below the glacial drift. The Trenton is quarried for dolostone in the UP. Gravel pits are not found in the area and potential appears to be limited. There is no commercial oil and gas

production in the UP.

**Vehicle Access:** There are few dirt two-track roads within the compartment; large portions of the compartment are inaccessible by vehicles.

**Survey Needs:** None at this time.

**Recreational Facilities and Opportunities:** Although there are no recreational facilities in the compartment at this time, the area is often used for hunting.

**Fire Protection:**

**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: 121

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
S Black Spruce		288																									288
J Jack Pine							1048																				1048
L Lowlnd Brush									184																		184
N Marsh											435																435
R Red Pine																472											472
T Tamarack																					66						66
Z Water																									27		27
W White Pine																										6	6
<b>Total</b>		288					1048		184		435					472					66				27	6	2526

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST MGT UNIT

SCHOOLCRAFT COUNTY

COMPARTMENT: **121**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	443 Cds	Hardwood	210 Cds
Softwood	11480 Cds	Softwood	5685 Cds
Softwood	662 Mbf	Softwood	93 Mbf
Sum TotVol	13247 Cds	Sum CutVol	6081 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	291
2526			

## SHINGLETON FOREST MGT UNIT

Proposed Treatments  
With NO Limiting Factors

Compartment: 121 Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status	
<b>23</b>	<b>J6</b>	66	51	55	jack pine	mature	final harvest	1	natural regeneration		
comnts Fmd : Mix of jack pine and black spruce. Low, wet areas within the stand. Scattered red pine, white pine, and tamarack. Cut all trees except red pine, white pine, oak and paper birch; leaving retention areas as necessary. A combination of jack pine and b.spruce will be acceptable regeneration. Soil type is Kinross-AuGres-Rubicon Complex, 0-15% slopes.											
Wld : In addition to FMFM comments, leave a retention strip along the boundary with stand 46 for a travel corridor.											
<b>27</b>	<b>J6</b>	13	67	53	jack pine	mature	final harvest	1	natural regeneration		
comnts Fmd : Jack pine with b.spruce and other tree species, along M-28. Low, wet areas within the stand. Cut all trees except Red Pine, White Pine, Oak and Paper Birch. Jack pine is the preferred regeneration species, but a mix with other species currently on site is acceptable. Soil type is Kinross-AuGres-Rubicon, Deep Water Table, 0-15% slopes.											
<b>29</b>	<b>J6</b>	73	67	55	jack pine	mature	final harvest	1	natural regeneration		
comnts Fmd : Mix of jack pine and b.spruce along M-28. Low, wet areas within the stand. Cut all trees except red pine, white pine, oak and paper birch; leaving retention areas as necessary, especially on the west side. A combination of jack pine and b.spruce will be acceptable regeneration. Soil type is Kinross-AuGres-Rubicon, Deep Water Table, 0-15% slopes.											
Wld : In addition to FMFM comments, leave retention areas west of the road through the stand along the boundary with stand 44 for a travel corridor.											
<b>38</b>	<b>J6</b>	69	59	52	jack pine	mature	final harvest	1	natural regeneration		
comnts Fmd : Jack pine on higher ground, b.spruce on lower ground. Scattered red pine, white pine, paper birch, and tamarack. Cut all trees except red pine, white pine, paper birch and oak. Other retention trees may be left in groups, especially near the marshes. Acceptable regeneration is any combination of species currently on site. Soil=Kinross-AuGres-Rubicon Complex, 0-15% slopes.											
Wld : In addition to FMFM comments, leave some retention along the boundary with stand 46 for a travel corridor along the wetland edge.											
<b>41</b>	<b>J6</b>	12	64	53	jack pine	mature	final harvest	1	natural regeneration		
comnts Fmd : Jack pine with b.spruce and other tree species mixed in, along M-28. Low, wet areas within the stand. Cut all trees except red pine, white pine, oak and paper birch. Jack Pine is the preferred regeneration species, but a mix with other species currently on site is acceptable. Soil type is Kinross-AuGres-Rubicon, Deep Water Table, 0-15% slopes.											
<b>Total Acres.....</b>		<b>233</b>									

**SHINGLETON FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 121**    **Entry Year: 2011**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
<b>3</b>	<b>R9</b>	18	79	50	red pine	mature	shelterwood-seed	3	planting	

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : Thin red and white pine where needed, cut all else except oak. Narrow ridge within marsh; difficult access. Cut with c122 to north. Hand plant with red pine. Red Pine is the preferred regeneration species, but a combination of species currently on site will be acceptable. 99/2=oak and paper birch. Soil=Rubicon Sand 15-35% slopes. Habitat type=PArV. Contact MNFI for guidelines when setting up this sale.

<b>16</b>	<b>J6</b>	40	61	50	jack pine	mature	final harvest	1	natural regeneration	
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TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity

comnts Fmd : Cut with c122 s 16 to north in 2015 YOY. Jack pine on higher ground, and b.spruce on lower ground. Cut all trees except red pine, white pine, oak and paper birch. Leave retention areas around marsh edges. Acceptable regeneration is any combination of species currently on site. Soil=Kinross, AuGres, Rubicon complex, 0-15% slopes. 35/1=red and white pine

**Total Acres..... 58**

# Covertypes & Treatment Map

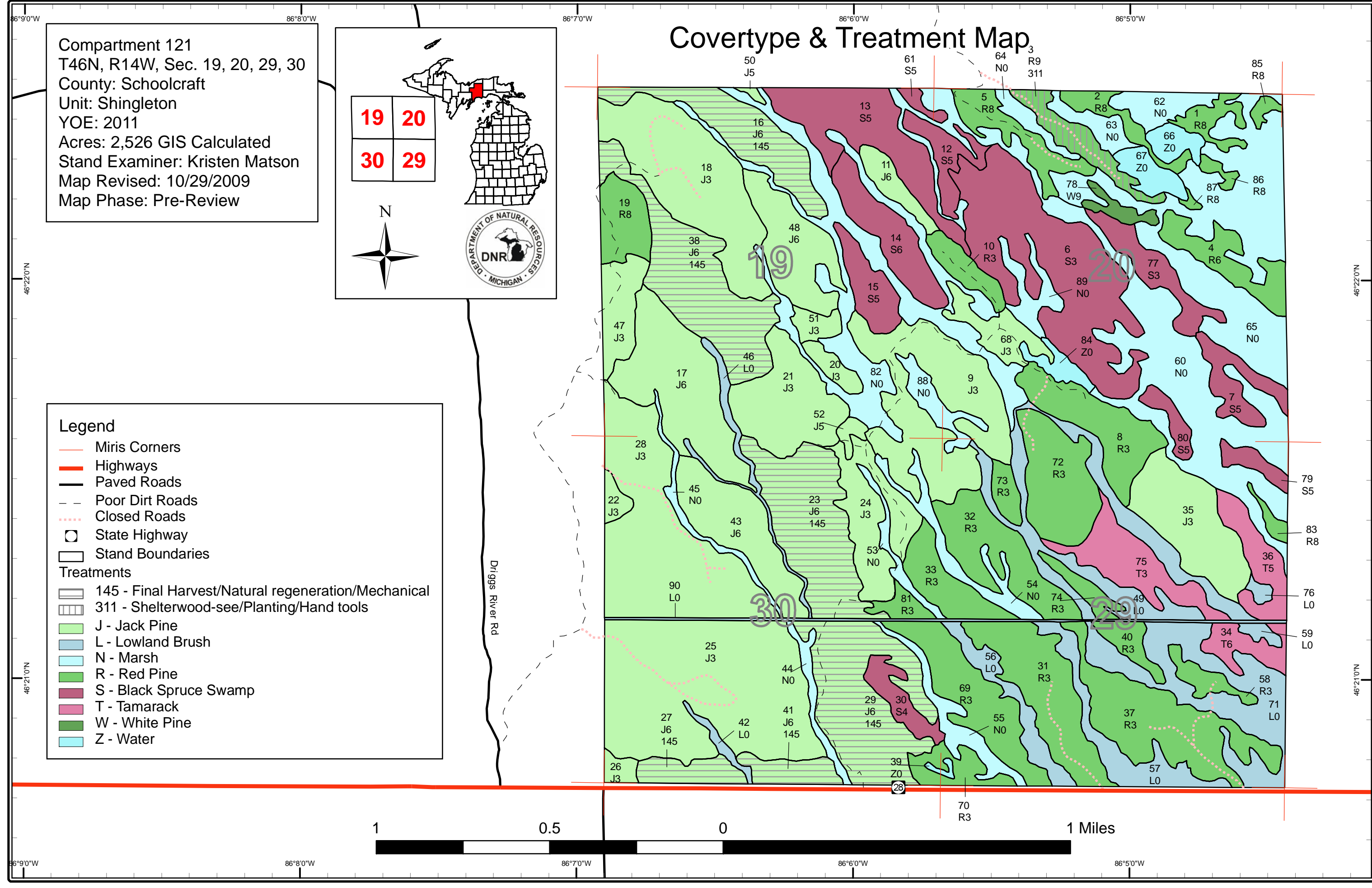
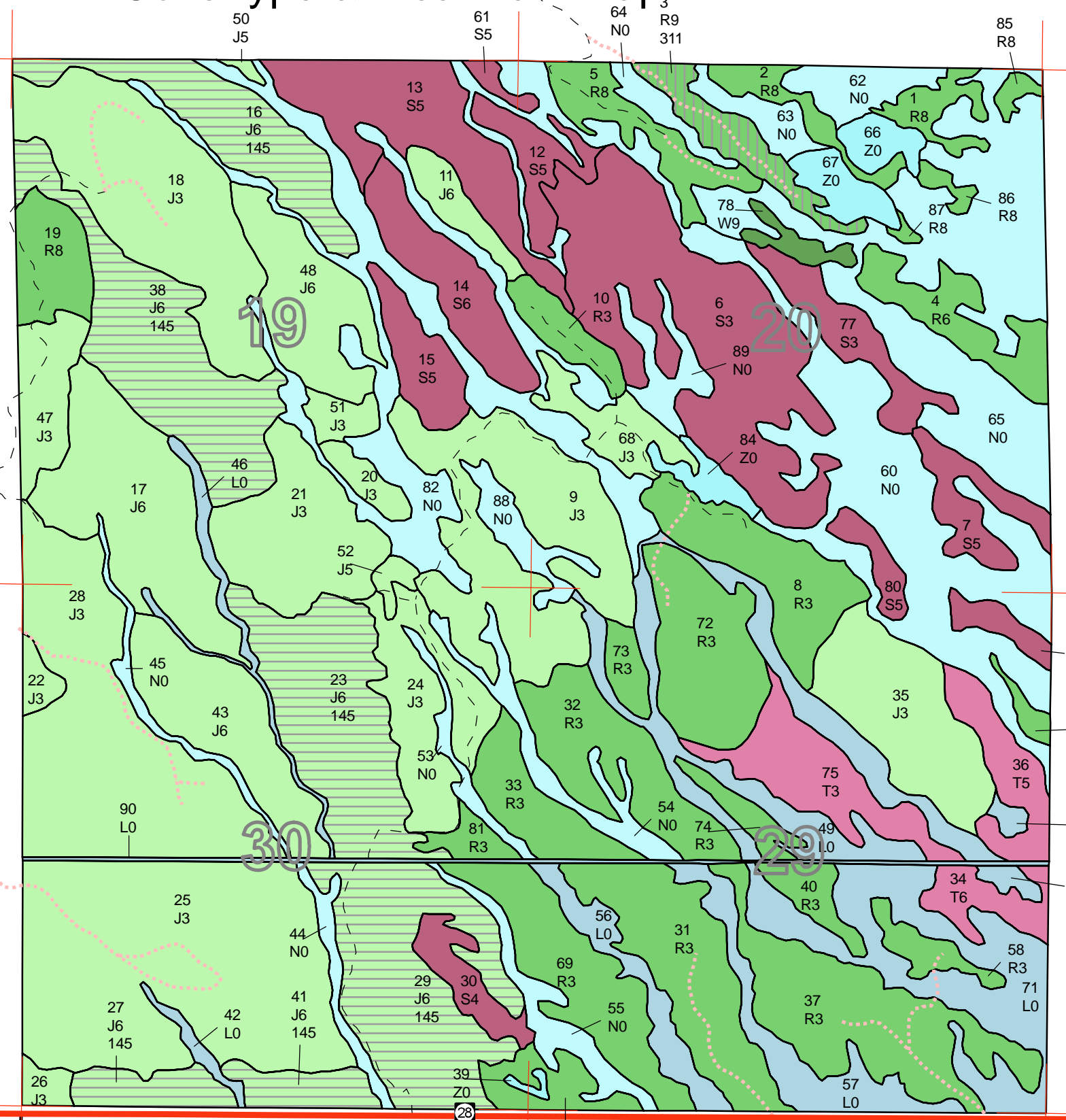
Compartment 121  
 T46N, R14W, Sec. 19, 20, 29, 30  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2011  
 Acres: 2,526 GIS Calculated  
 Stand Examiner: Kristen Matson  
 Map Revised: 10/29/2009  
 Map Phase: Pre-Review

### Legend

- Miris Corners
- Highways
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- State Highway
- Stand Boundaries

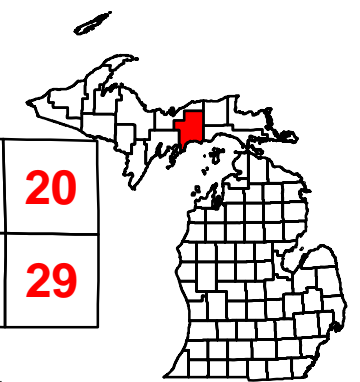
### Treatments

- 145 - Final Harvest/Natural regeneration/Mechanical
- 311 - Shelterwood-see/Planting/Hand tools
- J - Jack Pine
- L - Lowland Brush
- N - Marsh
- R - Red Pine
- S - Black Spruce Swamp
- T - Tamarack
- W - White Pine
- Z - Water



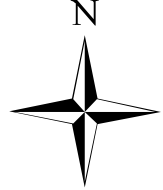

# Stand Boundary Map








Compartment 121  
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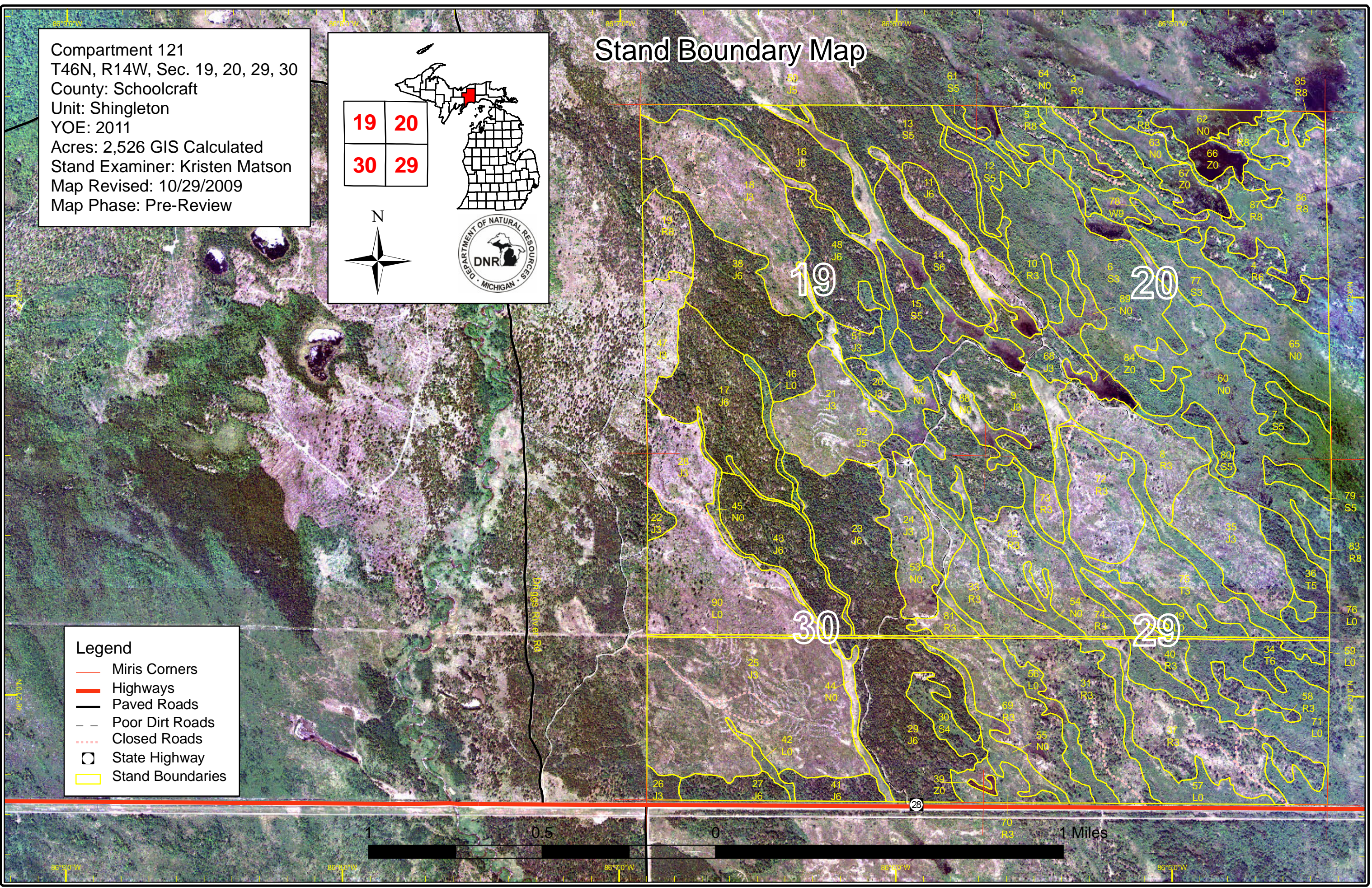


19	20
30	29

N

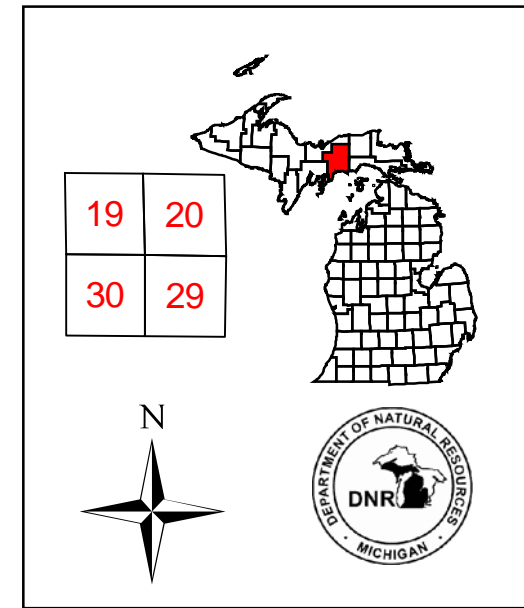



- Legend**
-  Miris Corners
  -  Highways
  -  Paved Roads
  -  Poor Dirt Roads
  -  Closed Roads
  -  State Highway
  -  Stand Boundaries



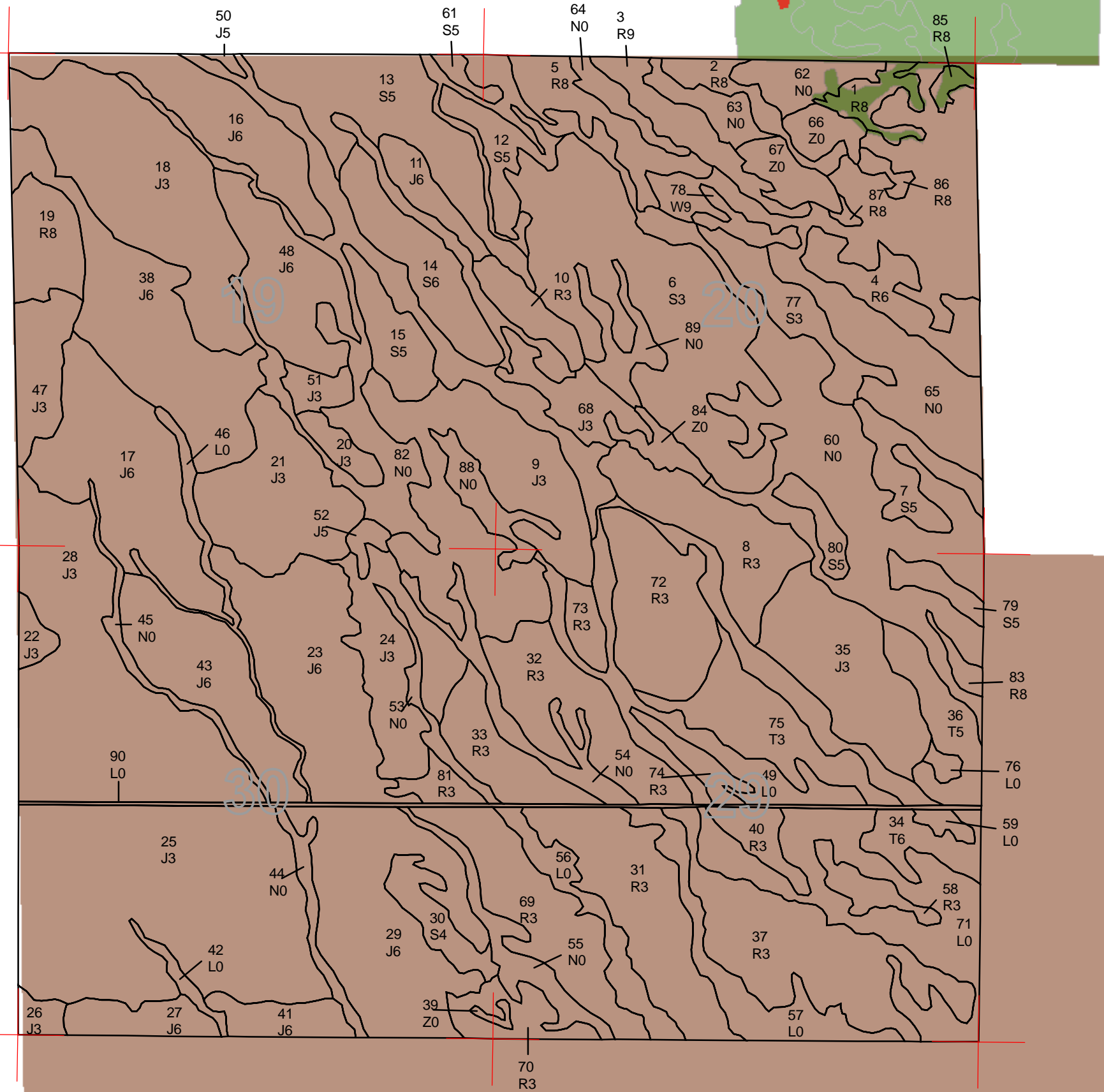
# Dedicated & Proposed Special Conservation Area Map

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**Legend**

- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas**
- Ecological Reference Areas
- Potential Old Growth Stands
- Cold Water Streams
- Wildlife Management Areas





**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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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.