



**PIGEON RIVER COUNTRY MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 50 ENTRY YEAR: 2011**

**Compartment Acreage: 879**

**County: Otsego**

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**Revision Date: 8/25/2009**

**Stand Examiner: Don Mittlestat**

**Legal Description: T31N R1W Sections 20, 21, and 22**

**RMU (if applicable):**

**Management Goals:**

Maintain the current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

**Soil and Topography:**

A large portion of this compartment is dominated by organic soils associated with lowland conifers. The east half of section 21 and other small isolated pockets are either Rubicon or Roselawn sands.

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

A large amount of private land / State land interface occurs in this compartment.

**Unique, Natural Features:**

None have been recorded.

**Archeological, Historical, and Cultural Features:**

None known

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

The Black River and numerous tributaries to it flow through sections 20 and 21.

**Wildlife Habitat Considerations:**

See wildlife comments.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Devonian Berea Sandstone and Bedford and Antrim Shales. The Antrim is quarried for cement products elsewhere in the State. Gravel pits are located to the west and potential is good on the upland areas. This area is partially leased for oil and gas development and some of the State lands have been developed for Guelph (Niagaran) reefs. The Antrim Shale is prospective in this area, but will not be developed under the Management plan.

Consistent with the objectives of the Concept of Management there are no plans to engage in mining activities (sand, gravel, stone, etc.), oil and gas development in this compartment. Non development oil and gas leasing may be considered.

**Vehicle Access:**

The existing road system is adequate. Barriers used to close roads in this compartment designated as closed have routinely been breached.

**Survey Needs:**

There is an established fence line on the east boundary of section 22 but there are no corners recorded. A survey of this line would be helpful in setting up the timber sales in this section.

**Recreational Facilities and Opportunities:**

The North Spur of the Shore-to-shore horse trail follows Tin Shanty Bridge and Sawdust Pile roads though this compartment. The Midland to Mackinaw hiking trail follows the same route as the horse trail though this compartment.

**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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 50

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			21	66	2	104			26	14	4								237
Bog or Marsh	3																		3
Cedar									31		146	16		49					242
Grass	9																		9
Jack Pine									11										11
LowInd Brush	93																		93
Mx Swmp Cnfr									26		34			29					89
Red Pine										7	7								14
Spruce Fir									12										12
Treed Bog	18																		18
Upland Brush						7													7
Upland Hdwds									42	21	10								73
White Pine										71									71
<b>Total</b>	<b>123</b>		<b>21</b>	<b>66</b>	<b>2</b>	<b>111</b>			<b>148</b>	<b>113</b>	<b>201</b>	<b>16</b>		<b>78</b>					<b>879</b>

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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 50

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	231											6															237
V Bog or Marsh			3																								3
C Cedar				242																							242
G Grass					9																						9
J Jack Pine																										11	11
L Lowlnd Brush									93																		93
Q Mx Swmp Cnfr												89															89
R Red Pine															14												14
F Spruce Fir																			12								12
D Treed Bog																						18					18
U Upland Brush																								7			7
M Upland Hdwds	5																								68		73
W White Pine																										71	71
<b>Total</b>	<b>236</b>		<b>3</b>	<b>242</b>	<b>9</b>				<b>93</b>			<b>95</b>			<b>14</b>				<b>12</b>			<b>18</b>	<b>7</b>	<b>68</b>		<b>82</b>	<b>879</b>

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: **50**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3594 Cds	Hardwood	1551 Cds
Hardwood	87 Mbf	Hardwood	4 Mbf
Softwood	5154 Cds	Softwood	292 Cds
Softwood	696 Mbf	Softwood	118 Mbf
Sum TotVol	10314 Cds	Sum CutVol	2087 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	110
879			

**PIGEON RIVER COUNTRY MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 50**

**Entry Year: 2011**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
<b>33</b>	<b>F6</b>	3	70	60	spruce-fir (uplands-including upland black spruce)	mature	final harvest	3		
comnts Fmd : 2009 ASPEN, SPRUCE, FIR PINE AND RED MAPLE WOULD BE ACCEPTABLE FOR REGENERATION. FISH DIVISION REQUESTED THAT THE TIMBER SALE STAY 300 FT. FROM THE RIVER. RETENTION WILL BE THE 300 FT FROM THE IVER.										
<b>34</b>	<b>A6</b>	43	46	65	aspen (upland)	immature	final harvest	1		
comnts Fmd : 2009 ASPEN, SPRUCE, FIR PINE AND RED MAPLE WOULD BE ACCEPTABLE FOR REGENERATION. Leave a couple areas for retention FISH DIVISION REQUESTED THAT THE TIMBER SALE STAY 300 FT. FROM THE RIVER.										
<b>39</b>	<b>R9</b>	7	80	60	red pine	immature	shelterwood-seed	2		
comnts Fmd : 2009 RED AND WHITE PINE , ASPEN, RRED MAPLE AND SPRUCE AND FIR WOULD BE ACCEPTABLE REGENERATION.										
<b>44</b>	<b>R9</b>	7	91	60	red pine	immature	shelterwood-seed	2		
comnts Fmd : 2009 Nice red and white pine. Red, white and jack pine as well as fir, red maple and aspen would be expected to regenerate the stand										
<b>46</b>	<b>J6</b>	11	73	50	white pine	mature	seed tree	2		
comnts Fmd : 2009 LEAVE ABOUT HALF THE WHITE PINE SAWLOG TREES FOR SEED AND RETENTION AS WELL AS RED PINE PULP AND SAWLOG TREES. JACK, RED AND WHITE PINE, SPRUCE AND FIR , AS WELL AS ASPEN AND RED MAPLE WOULD BE EXPECTED TO RERGENERATE THE STAND.										
<b>64</b>	<b>A5</b>	6	76	65	mixed swamp conifer	mature	final harvest	3		
comnts Fmd : 1999 WINTER CUT ONLY IN TEN YEARS IN CONJUNCTION WITH STANDS 63 AND 67. 2009 DO NOT LEAVE ANY RETENTION DUE TO SMALL ACREAGE.										
<b>72</b>	<b>A5</b>	14	80	65	aspen (upland)	two aged	final harvest	2		
comnts Fmd : 1999 THIS STAND APPEARS TO HAVE BEEN "THINNED" UNDER PREVIOUS OWNERSHIP. 2009 leave no retention due to small acreage.										
<b>401</b>	<b>G0</b>	5			grass	nonstocked		0	opening maintenance	
comnts Fmd : 1999 THIS OPENING WAS CREATED BY WILDLIFE IN 1983. IT HAS NOT BEEN MAINTAINED IN RECENT YEARS. WILDLIFE TREATMENTS MAY INCLUDE MECH. TREATMENT AS WELL AS PLANTING.										
<b>402</b>	<b>G0</b>	1			grass	nonstocked		0	opening maintenance	
comnts Fmd : 1999 PRESCRIBE BURN TO SET BACK THE ENCROACHING HARDWOODS AND PINE.										
<b>403</b>	<b>G0</b>	1			grass	nonstocked		0	opening maintenance	
comnts Fmd : 1999 PRESCRIBE BURN TO SET BACK THE ENCROACHING ASPEN REGENERATION.										
<b>Total Acres.....</b>		<b>98</b>								

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
1	M6	5	87	65	northern hardwood	immature	selection	3		

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : 1999 AT THE REVIEW LAURIE DECIDED THIS STAND SHOULD BE PRESCRIBED SO THAT WE CAN TREAT IT IF AND WHEN WE GET ACCESS ACROSS PRIVATE PROPERTY TO CUT STAND #2. DUE TO THE OVERALL LOW VOLUME AND THE COMPLEXITIES OF OBTAINING PERMISSION AND ADMINISTERING THIS SALE, WE DECIDED NOT TO PURSUE MARKETING THIS STAND. 2009 THERE IS STILL NO ACCESS.

2	A6	14	76	65	aspen (upland)	mature	final harvest	3		
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TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage



























comnts Fmd : 1999 AT THE REVIEW WILDLIFE DIVISION DECIDED THAT THEY WANTED THIS STAND CUT. IF WE DO NOT GET ACCESS ACROSS PRIVATE PROPERTY, WILDLIFE WOULD LIKE TO TRY TO CUT IT NON-COMMERCIALY. DUE TO THE OVERALL LOW VOLUME AND THE COMPLEXITIES OF OBTAINING ACCESS AND ADMINISTERING THIS SALE, WE DECIDED NOT TO PURSUE MARKETING THIS STAND. 2009 STILL NO ACCESS. If this stand is cut aspen, spruce, fir and red maple would be expected regen. Leave no retention due to the small size of the stand.

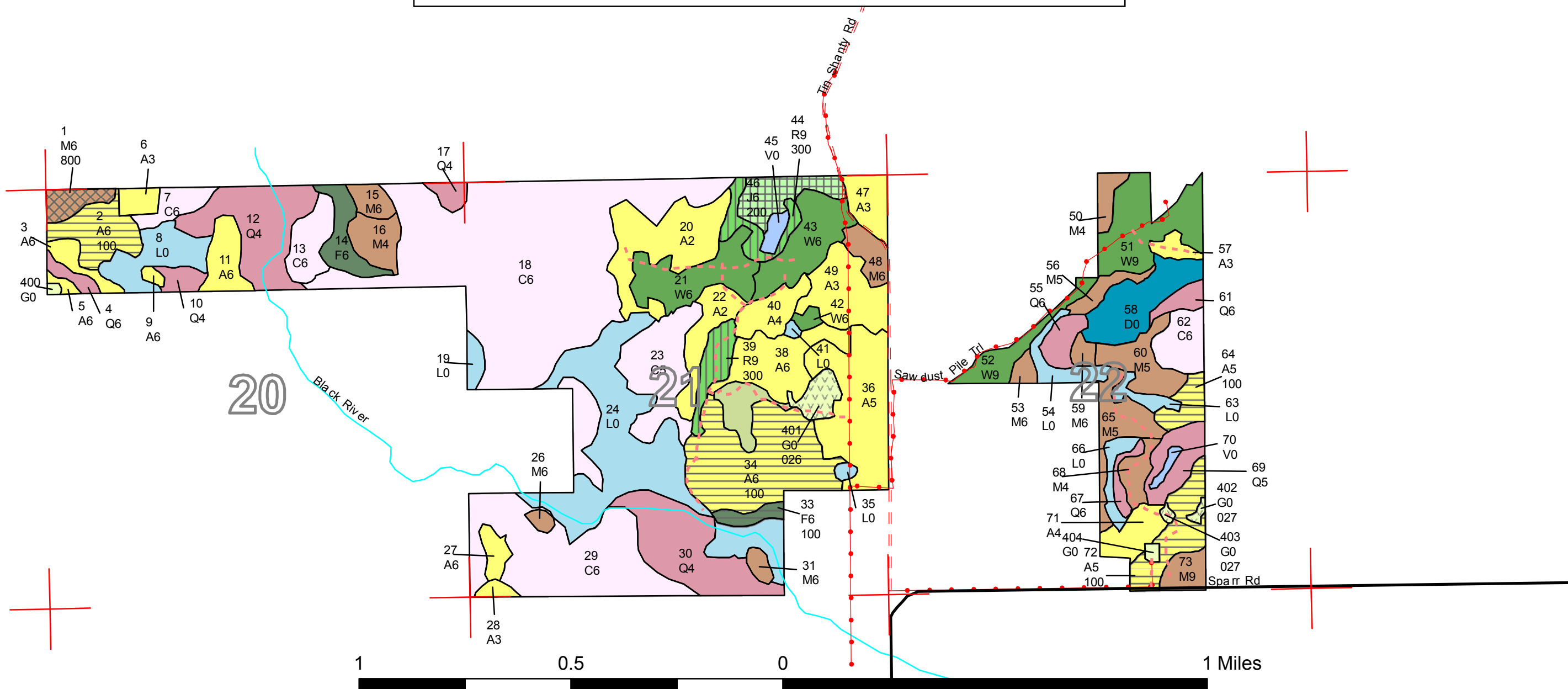
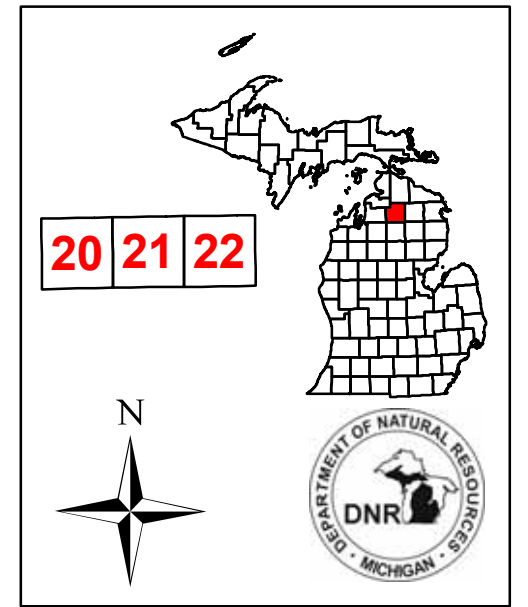
**Total Acres..... 19**

Compartment 50  
 T31N, R01W, Sec. 20, 21, 22  
 County: Otsego  
 Unit: Pigeon River Country  
 YOE: 2011  
 Acres: 879 GIS Calculated  
 Stand Examiner: Don Mittlestat  
 Map Revised: 7/03/2009  
 Map Phase: Pre-review

# Covertime & Treatment Map

## Legend

- |   |  |
|---|--|
|  Miris Corners                                |  A - Aspen                |
|  Paved Roads                                  |  C - Northern White Cedar |
|  County Gravel Roads                          |  D - Tred Bog             |
|  Closed Roads                                 |  F - Upland Spruce or Fir |
|  Pipelines                                    |  G - Grass                |
|  Water Features                               |  J - Jack Pine            |
|  Stand Boundary                               |  L - Lowland Brush        |
|  026 - Opening Maintenance                    |  M - Northern Hardwoods   |
|  027 - Opening Maintenance/Prescribed Burning |  Q - Mixed Swamp Conifers |
|  100 - Final Harvest                          |  R - Red Pine             |
|  200 - Seed Tree                              |  U - Upland Brush         |
|  300 - Shelterwood - Seed                     |  V - Bog or Muskeg        |
|  800 - Selection                              |  W - White Pine           |

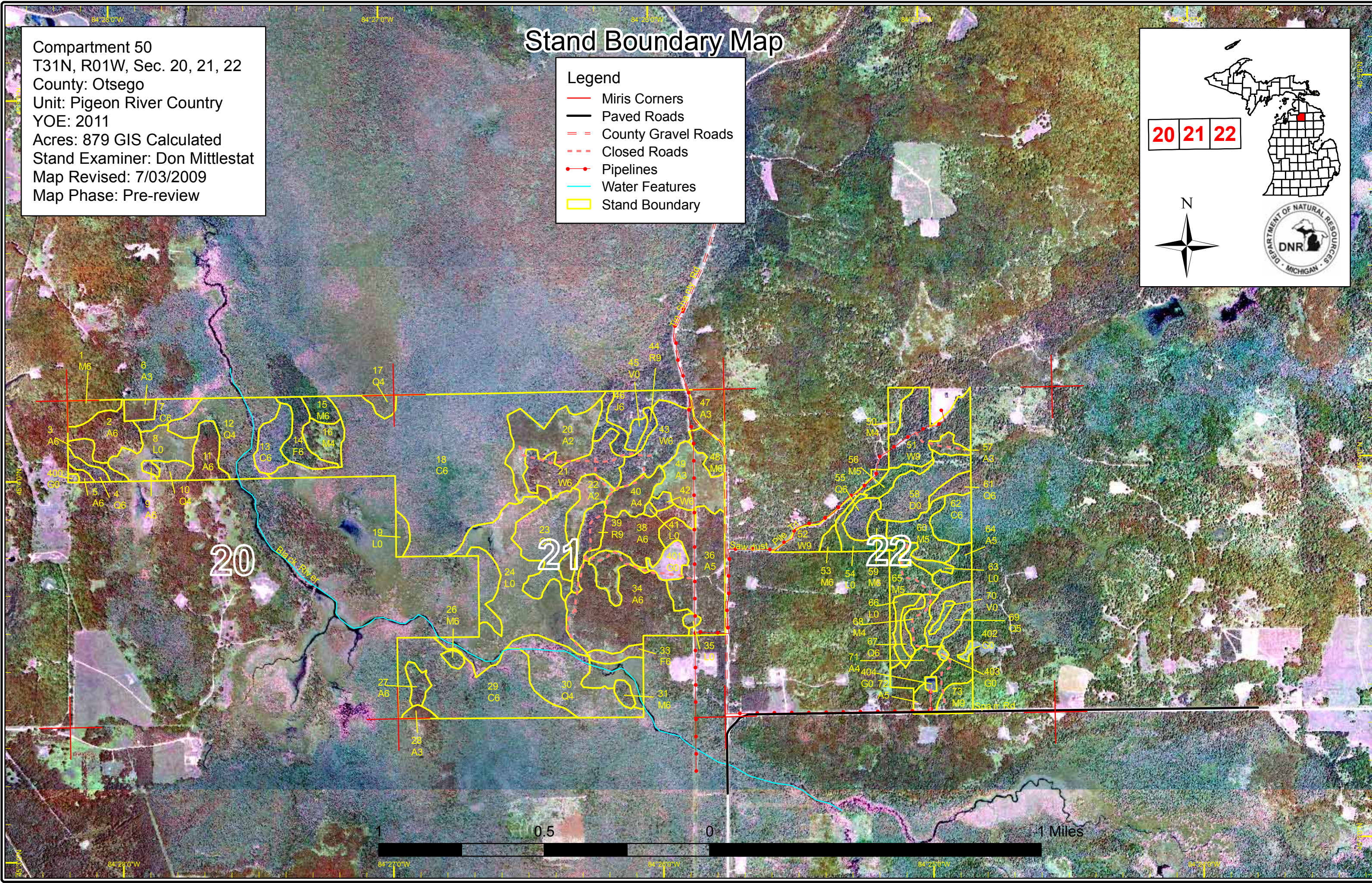


# Stand Boundary Map

Compartment 50  
T31N, R01W, Sec. 20, 21, 22  
County: Otsego  
Unit: Pigeon River Country  
YOE: 2011  
Acres: 879 GIS Calculated  
Stand Examiner: Don Mittlestat  
Map Revised: 7/03/2009  
Map Phase: Pre-review

- Legend**
- Miris Corners
  - Paved Roads
  - County Gravel Roads
  - Closed Roads
  - Pipelines
  - Water Features
  - Stand Boundary

20 21 22




Compartment 50  
 T31N, R01W, Sec. 20, 21, 22  
 County: Otsego  
 Unit: Pigeon River Country  
 YOE: 2011  
 Acres: 879 GIS Calculated  
 Stand Examiner: Don Mittlestat  
 Map Revised: 3/09/2009  
 Map Phase: Pre-review

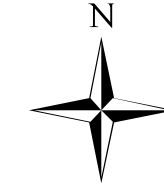
# Dedicated & Proposed Special Conservation Area Map

**Legend**


- Miris Corners
- Stand Boundary
- Cold Water Streams
- Potential Old Growth Stands

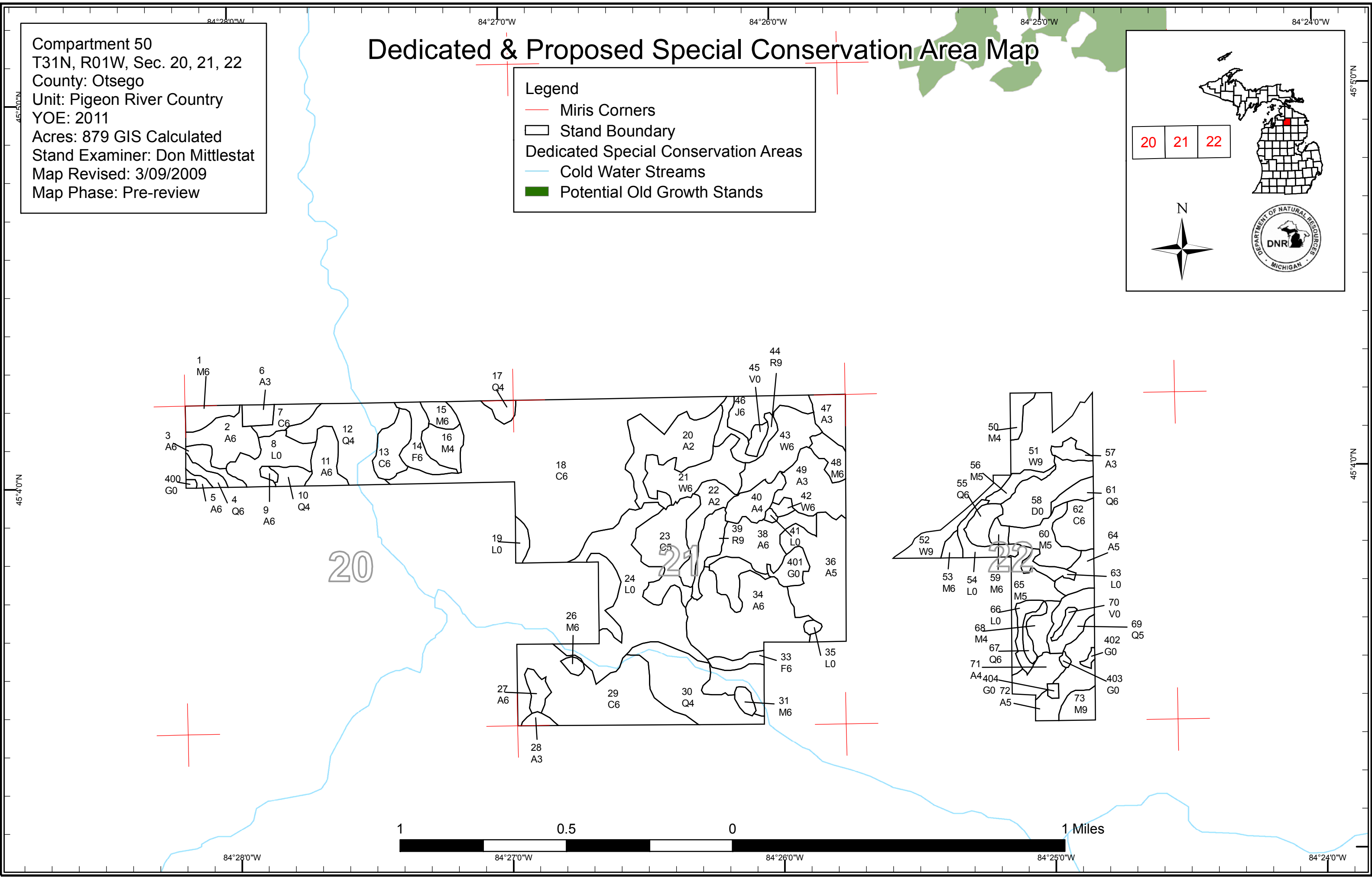
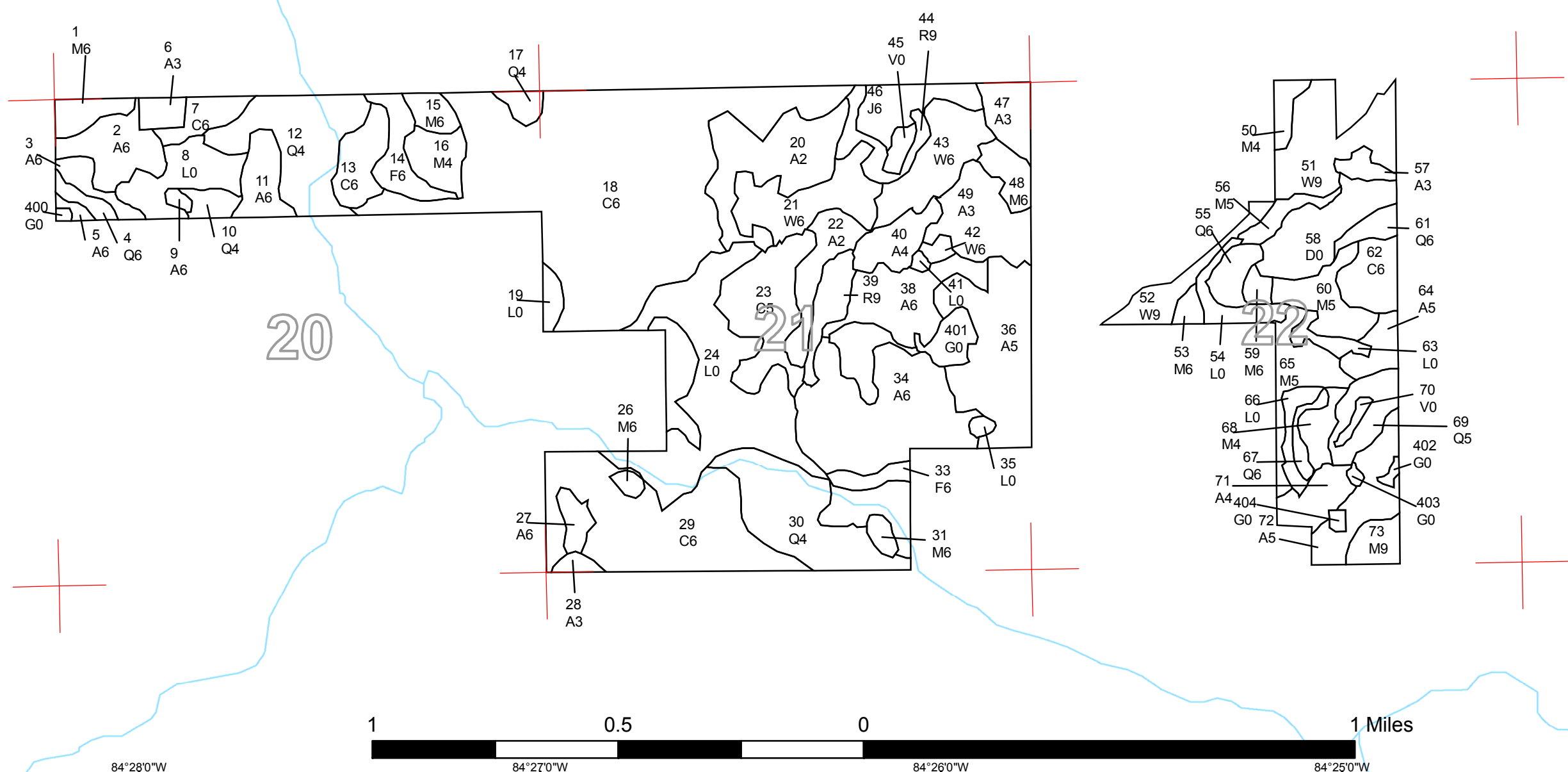
20	21	22
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**DEDICATED CONSERVATION AREA DETAILS**

\* 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	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.