



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

**COMPARTMENT 19 ENTRY YEAR: 2013**

**Compartment Acreage: 2202      County: Cheboygan**

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**Review Date:**

October 6, 2011

**Stand Examiner:**

Rick McDonald

**Legal Description:**

T34N - R01E Sections 19,20,29,30

**RMU (if applicable):**

Not Applicable

**Management Goals:**

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

**Soil and Topography:**

Terrain is flat to gently rolling with the uplands comprised of various soil Associations dominated by Rubicon Sands, except along the Milligan Creek swamp where it is Tawas-Lupton Association.

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

Primarily a contiguous block of state land with some private parcels along the north edge. North line borders Indian River Jurisdiction.

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

None identified.

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

None identified.

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

Milligan Creek, which is a tributary to the Black River, runs through the compartment.

**Wildlife Habitat Considerations:**

Please refer to Wildlife Biologist's comments.

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

Sections 19, 20, 29 & 30 T34N-R01E, Cheboygan County

Surface sediments consist of coarse textured glacial till and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 200 feet. Beneath the glacial drift is the Devonian Antrim Shale and Traverse Group, quarried for stone and cement products elsewhere in the State. The nearest gravel pit is three miles to the northeast, and potential is considered low in this area. No oil and gas leases remain after 2001. There is no oil and gas potential for known producing formations in this compartment.

**Vehicle Access:**

There is good access to most, if not all, of the compartment. Most of the forest roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

**Survey Needs:**

None required.

**Recreational Facilities and Opportunities:**

No developed recreational facilities or trails exist in this compartment and none are needed.

**Fire Protection:**

Access is generally good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential. Most road systems are closed with berms.

**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

CHEBOYGAN COUNTY

COMPARTMENT: 19

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		16	97	165	115	159	48		6										606
Black Spruce								22		16	2								40
Cedar													36				10		46
Grass	28																		28
Jack Pine		21	139	63	14	91	34	17	5										384
LowInd Brush	115																		115
LowInd Poplr				1															1
Marsh	11																		11
Mx Swmp Cnfr										46	50	29	406	50					581
Oak										26									26
Red Pine						10	97	40	18	12	11		8		1			22	219
Spruce Fir							2	8											10
Swamp Hrdwds										9									9
Treed Bog	2																		2
Upland Brush	9			1															10
Upland Hdwds								7		19								78	104
White Pine				10															10
<b>Total</b>	<b>165</b>	<b>37</b>	<b>236</b>	<b>240</b>	<b>129</b>	<b>260</b>	<b>181</b>	<b>94</b>	<b>29</b>	<b>128</b>	<b>63</b>	<b>29</b>	<b>450</b>	<b>50</b>	<b>1</b>		<b>10</b>	<b>100</b>	<b>2202</b>

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 19

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	606																										606
S Black Spruce		40																									40
C Cedar				46																							46
G Grass					28																						28
J Jack Pine							384																				384
L LowInd Brush									115																		115
P LowInd Poplr										1																	1
N Marsh											11																11
Q Mx Swmp Cnfr												581															581
O Oak														26													26
R Red Pine															219												219
F Spruce Fir																			10								10
E Swamp Hrdwds																				9							9
D Treed Bog																						2					2
U Upland Brush																							10				10
M Upland Hdwds																								104			104
W White Pine																									10	10	
<b>Total</b>	<b>606</b>	<b>40</b>		<b>46</b>	<b>28</b>		<b>384</b>		<b>115</b>	<b>1</b>	<b>11</b>	<b>581</b>		<b>26</b>		<b>219</b>			<b>10</b>	<b>9</b>		<b>2</b>	<b>10</b>	<b>104</b>		<b>10</b>	<b>2202</b>

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: **19**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	5448 Cds	Hardwood	1578 Cds
Hardwood	475 Mbf	Hardwood	73 Mbf
Softwood	16021 Cds	Softwood	1838 Cds
Softwood	878 Mbf	Softwood	24 Mbf
Sum TotVol	24175 Cds	Sum CutVol	3610 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	266
2202		Acres Meeting Silv Criteria.....	763
		Acres Not Meeting Silv Criteria.....	1439
		Acres Unable to Determine Silv Criteria For.....	

**Proposed Treatments  
With Limiting Factors**

**Compartment:**

**Entry Year:**

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

Total Acres..... #Error

**PIGEON RIVER COUNTRY MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 19**

**Entry Year: 2013**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>2</b>	<b>R6</b>	44	52	50	RED PINE	IMMATURE	THINNING	1		
<b>3</b>	<b>A6</b>	48	55	56	ASPEN (UPLAND)	MATURE	FINAL HARVEST	1		
comnts Fmd : Leave 2-3 uncut islands of Aspen, as well as Oak, throughout the sale. Cut some Oak. Aspen regeneration is the objective, but a mix of species will be acceptable for success. There is high probability of Aspen success in this area.										
<b>14</b>	<b>R6</b>	12	50	50	RED PINE	IMMATURE	THINNING	1		
comnts Fmd : Poor site quality. Stand may be ready next time. It's borderline now. South portion of stand is more scattered and open-grown.										
<b>18</b>	<b>R6</b>	40	59	50	RED PINE	IMMATURE	THINNING	1		
comnts Fmd : Plantation with alternating strips Red Pine and Jack Pine of varying widths. Red Pine doing better than Jack. Leave clumps of Red Pine/Oak and some better Jack Pine. Encourage scarification during cutting and manage for mixed stand.										
<b>21</b>	<b>J5</b>	19	47	50	JACK PINE	IMMATURE	SEED TREE	1		
<b>43</b>	<b>R6</b>	12	52	50	RED PINE	IMMATURE	THINNING	1		
<b>48</b>	<b>R6</b>	2	50	50	RED PINE	IMMATURE	THINNING	1		
<b>49</b>	<b>O6</b>	26	80	60	OAK	IMMATURE	SHELTERWOOD-SEED	1		
comnts Fmd : Leave clumps of Oak. Encourage tree length harvesting in order to scarify soil, but if not able during logging operations then prescribe post-harvest scarification to encourage Oak regeneration. A mix of species regeneration will be acceptable for success.										
<b>64</b>	<b>R6</b>	18	52	50	RED PINE	IMMATURE	THINNING	1		
<b>99</b>	<b>J6</b>	21	51	50	JACK PINE	MATURE	FINAL HARVEST	1		
comnts Fmd : Leave 2 retention islands and some scattered individual trees for a seed source. A mix of species regeneration will be acceptable for success.										
<b>100</b>	<b>A6</b>	24	46	55	ASPEN (UPLAND)	IMMATURE	FINAL HARVEST	1		
comnts Fmd : Leave some retention. Aspen should regenerate well, but a mix of species will be acceptable for regeneration success.										
<b>Total Acres.....</b>		<b>266</b>								

\* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type-Size Dnsty	Under Story-Stking Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
1	M 5	M 1	18	7	60	59	northern hardwood	unevenaged	N			10-19 years	0	
comnts Fmd : Mixed age class in the aspen. Quite a bit of 3-4" diameter trees.														
2	R 6	F 1	44	52	8	140	50	red pine	immature	N	thinning	within 0-9 years	1	
3	A 6	M 1	48	55	9	100	56	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : Leave 2-3 uncut islands of Aspen, as well as Oak, throughout the sale. Cut some Oak. Aspen regeneration is the objective, but a mix of species will be acceptable for success. There is high probability of Aspen success in this area.														
4	J 2	J 1	4	7		0	51	jack pine	immature	N		40-49 years	0	
comnts Fmd : About one acre of this stand extends into Comp. 211 in the Gaylord M.U.														
5	Q 6	Q 3	29	114	8	140	38	mixed swamp conifer	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Deer yards														
6	P 3	P 3	1	21	2	0	38	balsam poplar & swamp aspen and swamp white birch	immature	N		60-69 years	0	
comnts Fmd : Swamp strip cut in 1990. Very thick regeneration.														
7	R 8	R 1	1	136	18	60	55	red pine	mature	Y		40-49 years	0	
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : Stand was selectively cut in 2003. Stand 7 & 8 were combined, therefore, stand 8 was deleted.														
8	J 3	J 3	6	7		0	50	jack pine	immature	N		50-59 years	0	
9	R 9	F 1	2		13	140	58	red pine	unevenaged	N		not scheduled	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : Small pcket of Pine along the edge of the swamp. Leave alone for large Pine component and swamp edge diversity.														
10	A 3	A 3	55	26	3	0	56	aspen (upland)	immature	N		20-29 years	0	
11	D 0	D 0	2			0		treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Leatherleaf bog with small pond in the middle.														
12	S 5	S 1	22	66	7	60	40	black spruce-swamp	immature	N		not scheduled	0	
13	U 0	U 0	1	26		0	70	upland brush	nonstocked	N		not scheduled	0	



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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							
14	R 6	X 0	12	50	8	100	50	red pine	immature	N	thinning	within 0-9 years	1	
comnts Fmd : Poor site quality. Stand may be ready next time. It's borderline now. South portion of stand is more scattered and open-grown.														
15	A 3	A 3	3	26	3	0	65	aspen (upland)	immature	N		20-29 years	0	
16	U 0	U 0	9		0	0		upland brush	nonstocked	N		not scheduled	0	
17	R 5	F 1	5	51	8	50	50	red pine	immature	N		20-29 years	0	
comnts Fmd : Planted in 1960, but never caught well. Now is rather open grown.														
18	R 6	M 1	40	59	8	120	50	red pine	immature	N	thinning	within 0-9 years	1	
comnts Fmd : Plantation with alternating strips Red Pine and Jack Pine of varying widths. Red Pine doing better than Jack. Leave clumps of Red Pine/Oak and some better Jack Pine. Encourage scarification during cutting and manage for mixed stand.														
19	A 6	A 2	85	45	7	70	60	aspen (upland)	immature	N		10-19 years	0	
20	A 3	A 3	13	26	3	0	60	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Wildfire set this stand back, but Aspen regeneration came in strong. Scattered Oak throughout.														
21	J 5	F 1	19	47	8	60	50	jack pine	immature	N	seed tree	within 0-9 years	1	
22	J 4	J 1	29	41	4	10	50	jack pine	immature	N		30-39 years	0	
comnts Fmd : Stand is a bog-type dominated by leatherleaf and other wetland shrubs.														
23	Q 6	Q 1	47	95	8	90	49	mixed swamp conifer	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Too wet														
comnts Fmd : South end has been killed off due to beaver flooding.														
24	M 5	M 2	7	63	8	60	55	northern hardwood	immature	N		10-19 years	0	
comnts Fmd : Small hardwood ridge sandwiched between to pieces of private property														
25	A 3	A 3	2	20	2	0	58	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : New land acquisition in 1992. This stand was cut in either 1990 or 1991.														
26	R 8	R 1	4	92	14	60	55	red pine	mature	Y		50-59 years	0	
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : Small stand between private property. Land acquired in 1992. Stand was selectively cut in 2004.														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
27	J 3	J 3	4	7		20	58	jack pine	immature	N		50-59 years	0	
comnts Fmd : Stand was clearcut in 2004 with a residual of just 20 sq. ft. of Red Pine left. JP starting to fill in nicely.														
28	A 3	A 3	1	7		0	62	aspen (upland)	immature	N		50-59 years	0	
29	A 3	A 3	56	28	2	0	60	aspen (upland)	immature	N		20-29 years	0	
30	R 8	W 1	4	92	15	60	57	red pine	mature	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : Stand was selectively cut in 2004.														
31	J 6	W 1	13	59	8	70	46	jack pine	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Inadequate volume due to low stocking/small diameter/etc.														
comnts Fmd :														
32	R 6	M 2	1	45	9	120	60	red pine	immature	N		10-19 years	0	
comnts Fmd : Stand was thinned in 2006.														
33	R 6	M 2	8	45	9	140	60	red pine	immature	N		10-19 years	0	
comnts Fmd : Stand was thinned in 2006.														
34	R 6	M 1	1	45	8	200	60	red pine	immature	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u> Inadequate volume due to small acreage														
comnts Fmd : Tiny pocket of planted RP surrounded by young Aspen. Wait for aspen to be harvested and cut then.														
35	M 6	M 2	36		9	110	58	northern hardwood	unevenaged	N		10-19 years	0	
36	M 6	M 1	24		10	110	58	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd :														
37	R 6	W 1	18	71	9	80	50	red pine	immature	N		10-19 years	0	
38	R 8	A 2	12	80	12	50	66	red pine	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : Stand had all but pine removed in 1984. Selection cut in 2004.														
39	R 9	J 1	3	92	16	80	58	red pine	mature	Y		30-39 years	0	
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														

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St a n d	Cover Type- Size Dnsty	Under Story- Stkg Level	A c r e s	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA								
40	A 3	A 3	3	17	0	0	60	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd :														
41	J 3	J 3	6	17		0	51	jack pine	immature	N		40-49 years	0	
42	A 3	A 3	16	25	2	0	58	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Red Pine was row planted, but Aspen has taken over and is dominating the site.														
43	R 6	M 1	12	52	8	160	50	red pine	immature	N	thinning	within 0-9 years	1	
44	A 3	A 3	11	17		0	51	aspen (upland)	immature	N		30-39 years	0	
45	J 3	J 3	18	17		0	52	jack pine	immature	N		40-49 years	0	
46	R 5	M 1	4	50	9	60	50	red pine	immature	N		20-29 years	0	
comnts Fmd : Stand was row thinned in 2004.														
47	J 3	J 3	7	7		10	60	jack pine	immature	N		40-49 years	0	
comnts Fmd : Oak residual. Too early to get a handle on reproductive success.														
48	R 6	O 1	2	50	8	110	50	red pine	immature	N	thinning	within 0-9 years	1	
49	O 6	M 1	26	80	10	90	60	oak	immature	Y	shelterwood- seed	within 0-9 years	1	
comnts Fmd : Leave clumps of Oak. Encourage tree length harvesting in order to scarify soil, but if not able during logging operations then prescribe post-harvest scarification to encourage Oak regeneration. A mix of species regeneration will be acceptable for success.														
50	A 5	A 2	30	45	6	50	51	aspen (upland)	immature	N		10-19 years	0	
51	J 4	J 1	40	43	6	30	50	jack pine	sparse	N		30-39 years	0	
comnts Fmd : Heavy Blueberry groundcover.														
52	Q 6	F 2	377	115	8	70	35	mixed swamp conifer	mature	Y		not scheduled	0	

Treatment Limiting Factors:

Deer yards

\* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type-Size Dnstry	Under Story-Stking Level	Acres	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
53	L 0	L 0	96			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Milligan Creek Floodplain														
54	Q 5	L 0	12	106	8	60	35	mixed swamp conifer	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet														
comnts Fmd :														
55	A 3	A 3	26	30	3	0	60	aspen (upland)	immature	N		20-29 years	0	
56	Q 6	L 0	46	78	7	70	28	mixed swamp conifer	low quality	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet														
57	J 3	J 3	49	17		10	56	jack pine	immature	N		40-49 years	0	
comnts Fmd : Red Pine seed trees scattered around														
58	J 4	J 2	14	36	4	30	60	jack pine	immature	N		20-29 years	0	
comnts Fmd : Stand was roller chopped in 1975.														
59	J 6	F 1	2	66	8	80	48	jack pine	immature	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u> Inadequate volume due to small acreage														
60	C 6	L 0	32	111	9	180	35	cedar	immature	N		10-19 years	0	
61	J 4	J 1	2	51	9	20	52	jack pine	sparse	N		30-39 years	0	
62	A 5	A 2	12	36	5	40	65	aspen (upland)	immature	N		20-29 years	0	
63	A 5	A 2	2	45	6	50	50	aspen (upland)	immature	N		10-19 years	0	
64	R 6	X 0	18	52	9	170	50	red pine	immature	N	thinning	within 0-9 years	1	
65	A 3	A 3	7	17	0	0	58	aspen (upland)	immature	N		40-49 years	0	

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Stand	Cover Type-Size Dnsty	Under Story-Stking Level	Acrs	Age	avg. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
66	A 6	M 1	10	45	8	90	58	aspen (upland)	immature	N		10-19 years	0	
67	J 3	J 3	43	17		0	52	jack pine	immature	N		40-49 years	0	
68	J 3	J 3	26	26		0	60	jack pine	immature	N		30-39 years	0	
69	A 5	A 2	8	45	7	60	58	aspen (upland)	immature	N		10-19 years	0	
70	L 0	L 0	19			0		lowland brush	nonstocked	N		not scheduled	0	
71	J 3	J 3	6	17		0	52	jack pine	immature	N		40-49 years	0	
72	A 3	A 3	46	25	3	0	50	aspen (upland)	immature	N		20-29 years	0	
73	A 3	A 3	21	17		0	58	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Stand has suffered some browse damage from Elk and Deer. Scattered Oak residual.														
74	N 0	N 0	11			0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Grass Lake														
75	J 6	F 1	5	76	8	100	55	jack pine	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Too wet														
comnts Fmd : Buffer stand along marsh edge. Part of a larger stand to the east.														
76	A 3	A 3	31	15		0	65	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd :														
77	A 3	A 3	15	7		10	55	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Oak residual.														
78	C 6	L 0	10	157	9	90	30	cedar	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Water quality/bmps														
comnts Fmd : Intermittent Creek runs through stand.														

\* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand ID	Cover Type- Size Dnsty	Under Story- Stkg Level	A c r e s	Age	avg. D			Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	H								
79	A 3	A 3	30	25	3	0	68	aspen (upland)	immature	N		30-39 years	0		
80	E 5	L 0	9	87	6	60	50	swamp hardwoods	immature	Y		not scheduled	0		
<u>Treatment Limiting Factors:</u>															
Military use/easement/lease/long-term agreement															
81	F 6	F 1	8	66	8	80	55	spruce-fir (uplands- including upland black spruce)	immature	Y		10-19 years	0		
<u>Treatment Limiting Factors:</u>															
Inadequate volume due to small acreage															
Bridge needed (portable bridge not available or inadequate)															
82	C 6	X 0	4	117	6	110	30	cedar	mature	N		not scheduled	0		
comnts Fmd : Wet stand															
83	M 6	F 1	19	79	8	110	58	northern hardwood	mature	N		10-19 years	0		
<u>Treatment Limiting Factors:</u>															
Bridge needed (portable bridge not available or inadequate)															
Delayed treatment for age/size class diversity															
comnts Fmd : Access difficult due to intermittent creek															
84	J 5	J 1	3	41	6	40	55	jack pine	immature	N		30-39 years	0		
85	R 9	F 1	8	115	16	160	62	red pine	mature	Y		10-19 years	0		
<u>Treatment Limiting Factors:</u>															
Bridge needed (portable bridge not available or inadequate)															
86	A 3	A 3	24	14		0	60	aspen (upland)	immature	N		40-49 years	0		
comnts Fmd : Heavily browsed by elk and deer															
87	F 4	F 1	1	52	6	20	60	spruce-fir (uplands- including upland black spruce)	immature	Y		not scheduled	0		
<u>Treatment Limiting Factors:</u>															
Inadequate volume due to small acreage															
comnts Fmd : High spot in the swamp															
88	F 4	F 1	1	52	6	10	50	spruce-fir (uplands- including upland black spruce)	immature	Y		not scheduled	0		
<u>Treatment Limiting Factors:</u>															
Inadequate volume due to small acreage															
comnts Fmd : High spot in swamp															
89	Q 6	Q 1	3	94	9	110	60	mixed swamp conifer	mature	Y		10-19 years	0		
<u>Treatment Limiting Factors:</u>															
Too wet															
90	J 6	F 1	2	61	8	80	55	jack pine	immature	Y		10-19 years	0		
<u>Treatment Limiting Factors:</u>															
Inadequate volume due to small acreage															

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Stand	Cover Type-Dnsty	Under Story-Stkg Level	Acres	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							
91	R 5	W 1	20		8	70	50	red pine	low quality	N		10-19 years	0	
92	Q 6	L 0	50	121	8	90	44	mixed swamp conifer	immature	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u>														
Deer yards														
93	A 6	W 1	6	68	9	100	50	aspen (upland)	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Inadequate volume due to small acreage														
comnts Fmd : Part of larger stand in Compartment 20. Manage with stand in that comp.														
94	S 6	F 1	16	79	8	120	47	black spruce-swamp	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Deer yards														
95	J 5	F 1	11	51	7	60	50	jack pine	immature	N		10-19 years	0	
96	W 2	W 2	10	26		0	55	white pine	immature	N		40-49 years	0	
97	J 5	J 2	20	26	5	40	60	jack pine	immature	N		20-29 years	0	
98	J 4	J 2	17	26	5	30	60	jack pine	immature	N		30-39 years	0	
99	J 6	R 1	21	51	9	100	50	jack pine	mature	N	final harvest	within 0-9 years	1	
comnts Fmd : Leave 2 retention islands and some scattered individual trees for a seed source. A mix of species regeneration will be acceptable for success.														
100	A 6	A 1	24	46	8	80	55	aspen (upland)	immature	N	final harvest	within 0-9 years	1	
comnts Fmd : Leave some retention. Aspen should regenerate well, but a mix of species will be acceptable for regeneration success.														
101	Q 6	F 1	17	105	8	150	26	mixed swamp conifer	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
102	A 4	A 2	21	28	5	30	60	aspen (upland)	immature	N		20-29 years	0	
103	J 3	J 3	17	17		0	45	jack pine	immature	N		50-59 years	0	
comnts Fmd :														

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Stand	Cover Type-Size Dnsty	Under Story-Stking Level	Acrs	Age	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
104	S 5	Q 2	2	97	8	60	30	black spruce-swamp	low quality	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Inadequate volume due to small acreage														
comnts Fmd : Part of larger stand to the west														
400	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
401	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Old township dump														
402	G 0	G 0	4			0		grass	nonstocked	N		not scheduled	0	
403	G 0	G 0	6			0		grass	nonstocked	N		not scheduled	0	
404	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
405	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
406	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Grassy island in the middle of the swamp														
407	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
408	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
409	G 0	G 0	5			0		grass	nonstocked	N		not scheduled	0	

Total Acres..... 2202



# Covertypes & Treatment Map

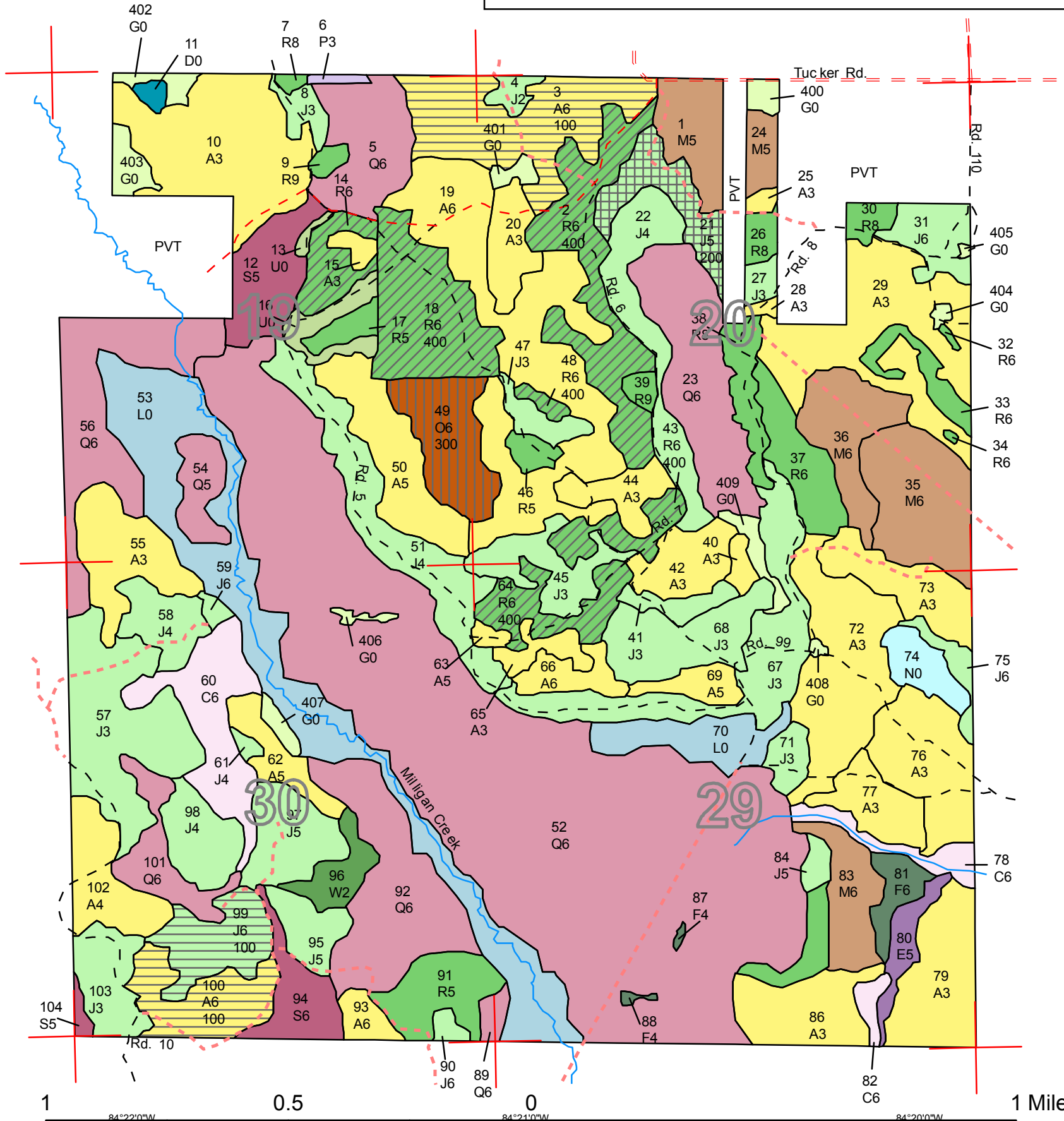
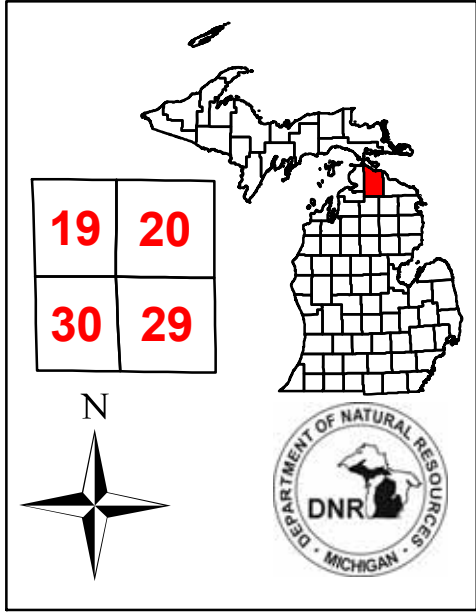
84°22'0"W

84°20'0"W

Compartment 19  
 T34N, R01E, Sec. 19, 20, 29, 30  
 County: Cheboygan  
 Unit: Pigeon River Country  
 YOE: 2013  
 Acres: 2,202 GIS Calculated  
 Stand Examiner: Rick McDonald  
 Map Revised: 3/08/2011  
 Map Phase: Pre-review

## Legend

- Miris Corners
- - County Gravel Roads
- - County Dirt Roads
- - Open Forest Roads
- - Closed Roads
- Water Features
- Stand Boundary
- ▨ 100 - Final Harvest
- ▩ 200 - Seed Tree
- ▧ 300 - Shelterwood - seed
- ▦ 400 - Thinning
- A - Aspen
- C - Northern White Cedar
- D - Treed Bog
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- O - Oak
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers
- R - Red Pine
- S - Black Spruce Swamp
- U - Upland Brush
- W - White Pine

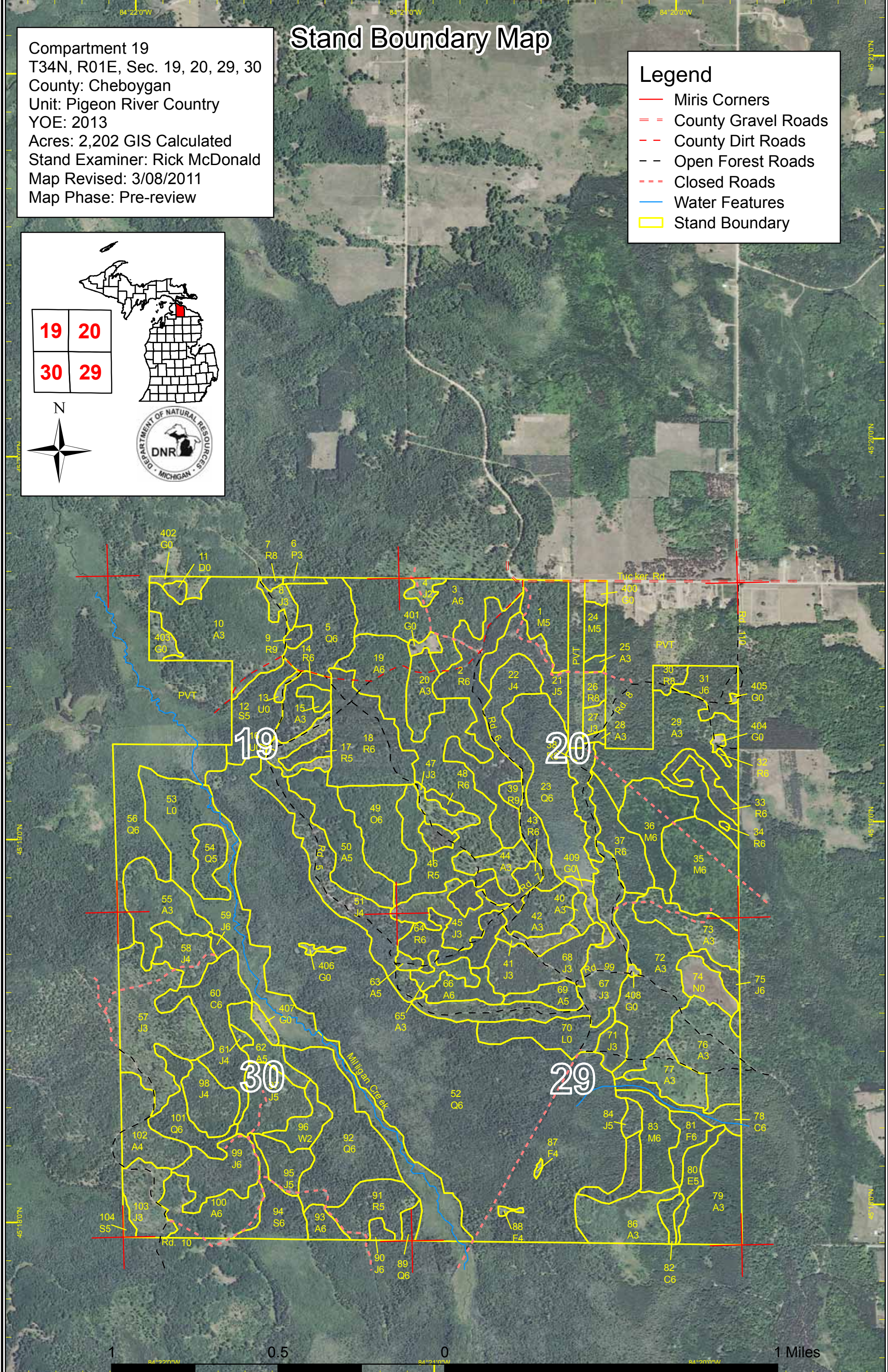
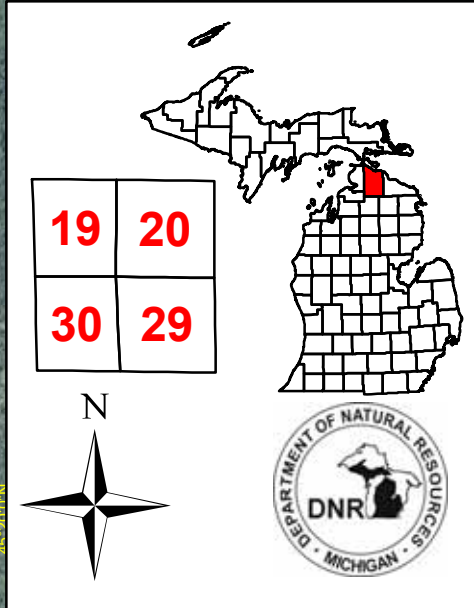


# Stand Boundary Map

Compartment 19  
 T34N, R01E, Sec. 19, 20, 29, 30  
 County: Cheboygan  
 Unit: Pigeon River Country  
 YOE: 2013  
 Acres: 2,202 GIS Calculated  
 Stand Examiner: Rick McDonald  
 Map Revised: 3/08/2011  
 Map Phase: Pre-review

## Legend

- Miris Corners
- = County Gravel Roads
- - County Dirt Roads
- - Open Forest Roads
- - - Closed Roads
- Water Features
- Stand Boundary



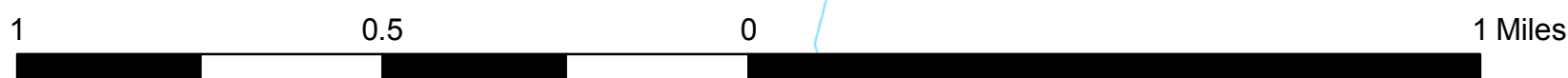
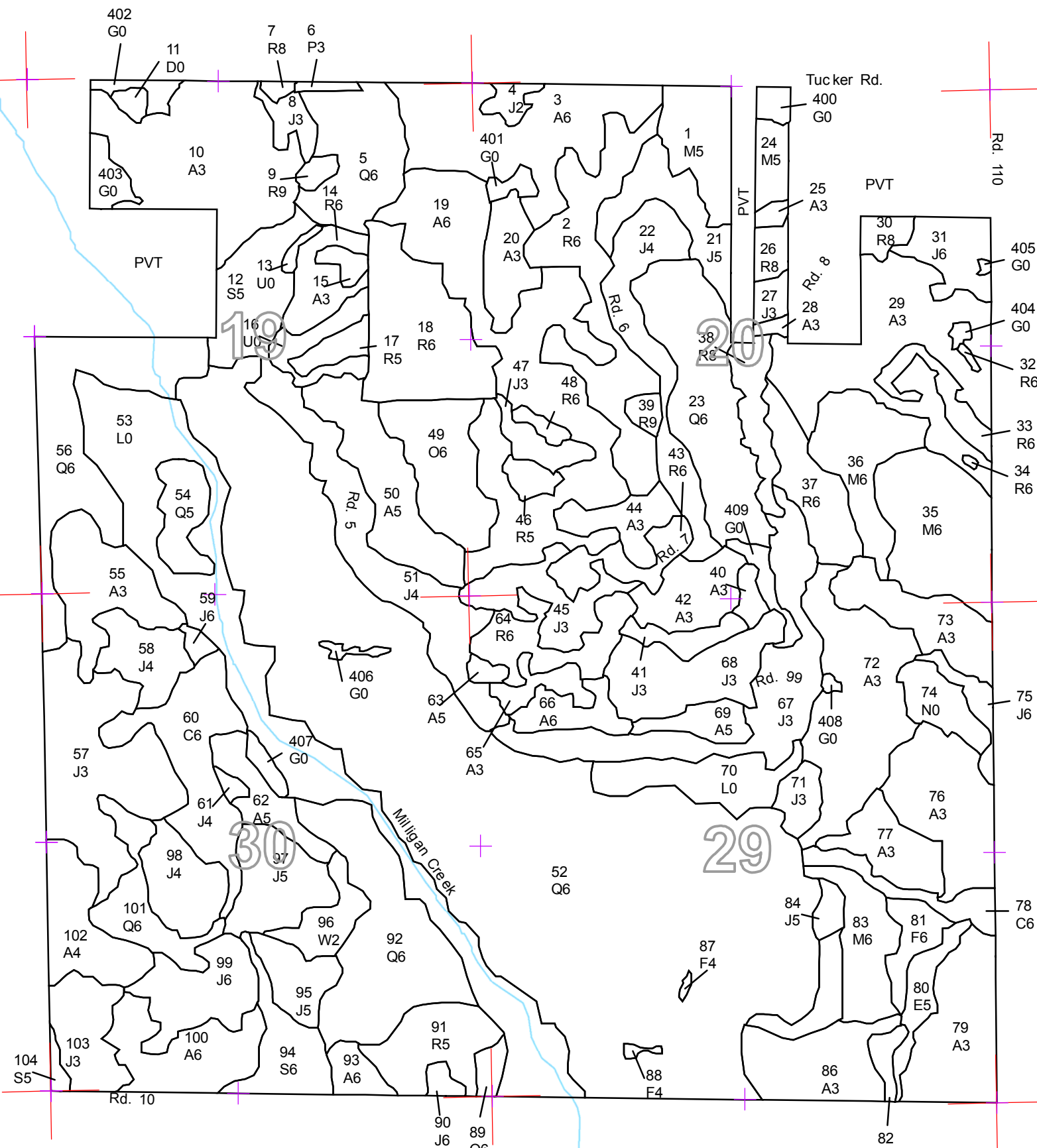
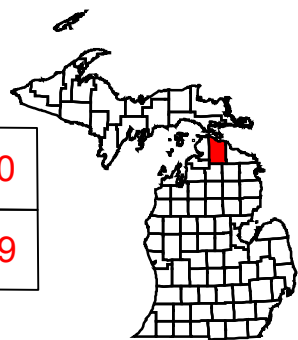
# Dedicated & Proposed Special Conservation Area Map

Compartment 19  
 T34N, R01E, Sec. 19, 20, 29, 30  
 County: Cheboygan  
 Unit: Pigeon River Country  
 YOE: 2013  
 Acres: 2,202 GIS Calculated  
 Stand Examiner: Rick McDonald  
 Map Revised: 3/21/2011  
 Map Phase: Pre-review

## Legend

- Miris Corners
- Stand Boundary
- Dedicated Special Conservation Areas**
- Cold Water Streams

19	20
30	29



84°22'0"W      84°21'0"W      84°20'0"W



### 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.