



**Gwinn Forest Management Unit  
Compartment Review Presentation  
Compartment #003 Entry Year: 2012  
Compartment Acreage: 1755 County: Marquette**

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**Revision Date:** July 19, 2010

**Stand Examiner:** Kevin LaBumbard

**Legal Description:** T45N R23W Section(s) 20,29,32

**Identified Planning Goals ('Management Area' or 'RMU', if applicable):** Dead Horse Moraines MA.

**Management Goals:** This compartment lies south of Carlshend (Skandia) with rather poor access thru corporate and private lands. It consists of large wetland complexes with hardwood ridges and remote hardwood islands. Management goals of the scheduled hardwood stands are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. All harvest plans will also include considerations for conifer retention, coarse woody debris, and BMP's, with all hemlock, cedar, white pine and red pine to be retained where present. We will retain all species represented and all size classes including the large legacy trees. Special conservation area stands are included along the primary drainages to protect and enhance the riparian values and wildlife travel corridors. In addition, there are a few upland stands within this large wetland complex that have remained essentially untouched since the turn of the century that contain many special habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, and frequent large diameter downed trees.

**Soil and Topography:** Terrain is relatively level to lightly sloping with soils ranging widely from poorly drained mucks to well drained sandy loams. On the ridges and upland "islands". Major soil associations include Carbondale/Tawas mucks, Amasa, Munising-Skaneec Complex, and Garlic-Alcona-Voelker Complex.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is comprised of primarily State land with adjacent private ownership to the north and south.

**Unique, Natural Features:** Potential for northern goshawk and red-shouldered hawk. Potential for bald eagle, osprey, and great blue heron rookery. Potential for moose and wolf. Potential for wood turtle. Potential for auricled tway-blade, veiny meadow rue, western dock, Farwell's water-milfoil, alternate-leaved water-milfoil, and linear-leaved gentian along riparian areas. Potential for calypso orchid, rayless mountain ragwort, and ram's head lady's-slipper in conifer swamps.

**Archeological, Historical, and Cultural Features:** None identified with HAL

**Special Management Designations or Considerations:** There are several potential Special Conservation Area stands including: 6,15,16,18,20.

**Watershed and Fisheries Considerations:** Sucker Creek

**Wildlife Habitat Considerations:** This compartment lies within the Dead Horse Moraine management area. For all Special Conservation Area (SCA), biodiversity maintenance stands-maintain as movement corridors for wildlife species and the protection of riparian areas. Promote biological legacies such as snags,

coarse woody debris, and intact nutrient cycles. Maintain or increase diversity in northern hardwood stands through retention of associate species. Maintain thermal cover qualities in lowland conifer types.

**Mineral Resource and Development Concerns and/or Restrictions** Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Prairie du Chien and Black River Groups subcrop below the glacial drift. These have been quarried for stone/dolomite in other areas of the State. The nearest gravel pit is located to the west of the compartment and potential appears to be good. Abandoned iron mines are located eight miles to the west. This compartment has never been leased. There is no economic oil and gas production in the UP.

**Vehicle Access:** Access to the north and central part of the compartment is restricted through gated private land. Access to the south, while restricted, is better from Stack Grade.

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

**Recreational Facilities and Opportunities** Some deer hunting activities are available but opportunities are extremely limited due to poor access through gated private land.

**Fire Protection:** This compartment has a very low risk of wildfire.

#### **Additional Compartment Information:**

- **The following reports from the Inventory are attached:**
  - ◆ **Total Acres by Cover Type and Age Class**
  - ◆ **Proposed Treatment Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  - ◆ **Stand Details (Forested and Nonforested)**
  - ◆ **Dedicated and Proposed Special Conservation Areas**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand boundaries, cover types, and numbers**
  - ◆ **Proposed treatments**
  - ◆ **Details on the road access system**

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 3

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		6	5																11
Black Spruce										69									69
Grass			1																1
Mx Swmp Cnfr										917		14							931
Swamp Hrdwds													126						126
Upland Hdwds										99								443	542
Water	75																		75
<b>Total</b>	<b>75</b>	<b>6</b>	<b>6</b>							<b>1085</b>		<b>14</b>	<b>126</b>					<b>443</b>	<b>1755</b>

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 3

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	11																										11
S Black Spruce		69																									69
G Grass					1																						1
Q Mx Swmp Cnfr												931															931
E Swamp Hrdwds																				126							126
M Upland Hdwds																								542			542
Z Water																									75		75
<b>Total</b>	<b>11</b>	<b>69</b>			<b>1</b>							<b>931</b>								<b>126</b>				<b>542</b>	<b>75</b>	<b>1755</b>	

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 3

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	12109 Cds	Hardwood	337 Cds
Hardwood	406 Mbf	Hardwood	10 Mbf
Softwood	11727 Cds	Sum CutVol	357 Cds
Softwood	114 Mbf		
Sum TotVol	24876 Cds		
<b>Total Cmpnt Acres</b>		Acres Proposed For Cut.....	45
1755		Acres Meeting Silv Criteria.....	1171
		Acres Not Meeting Silv Criteria.....	584
		Acres Unable to Determine Silv Criteria For.....	

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 3**

**Entry Year: 2012**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
7	M6	6	0	59	NORTHERN HARDWOOD	UNEVENAGE D	SELECTION	3		Prescribed for FDF treatment

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Similar to stand 11. Fair quality mixed hardwood pole stand comprised of sugar maple, red maple, and cherry with scattered hemlock and yellow birch. Large remnants throughout the stand. Occasional upland cedar. Inaccessible due to beaver flooding and swamp crossing.

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**Total Acres..... 6**

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 3**

**Entry Year: 2012**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
11	M6	22	0	59	NORTHERN HARDWOOD	UNEVENAGE D	SELECTION	3		Prescribed for FDF treatment
<p>comnts Fmd : Fair quality mixed hardwood pole stand comprised of sugar maple, red maple, and cherry with scattered hemlock and yellow birch. Large remnants throughout the stand. Occasional upland cedar. Access will be difficult and limited to winter months. In addition, permission will be required from 3 landowners to cross their lands. Management goals of the scheduled hardwood stand are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. The harvest plan will also include considerations for conifer retention, coarse woody debris, and BMP's, with all hemlock, cedar, white pine or red pine to be retained. We will retain all species represented and all size classes including the large legacy trees.</p>										
13	M6	17	0	64	NORTHERN HARDWOOD	UNEVENAGE D	SELECTION	3		Stand with FDF potential
<p>comnts Fmd : ...2010- Fair quality hardwoods with a good component of cherry with the quality dropping going north to east. Access via winter road thru several private landowners. Schedule treatment with stand 11. Management goals of the scheduled hardwood stand are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. The harvest plan will also include considerations for conifer retention, coarse woody debris, and BMP's, with all hemlock, cedar, white pine to be retained. We will retain all species represented and all size classes including the large legacy trees.</p>										
<b>Total Acres.....</b>		<b>39</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-Stkng Level	Acrs	Age	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
1	M 6	M 2	9		16	100	55	northern hardwood	unevenaged	N		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Blocked by other physical obstacle														
comnts Fmd : Fair to poor quality peninsula of large remnant red maple, yellow birch, hemlock, and fir sawtimber and poles over red maple, fir, and hemlock saplings. No access due to beaver flooding west and south. Stand contains original yellow birch bearing tree still alive from 1852.														
2	Z 0	Z 0	75		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Old beaver flooding.														
3	M 6	M 2	1		8	100	55	northern hardwood	unevenaged	N		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Blocked by other physical obstacle														
comnts Fmd : Fair to poor quality peninsula of red maple, yellow birch, hemlock, and fir sawtimber and poles over red maple, fir, and hemlock saplings. No access due to beaver flooding west and south.														
4	Q 6	Q 2	14	103	6	80	35	mixed swamp conifer	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Cedar or Hemlock cutting restraints														
Too wet														
comnts Fmd : Swamp conifers stand with a fair amount of yellow birch. Low and wet.														
5	M 9	M 2	28		12	100	63	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : High quality mixed hardwood stand of sugar maple, cherry, and soft maple. Scattered super canopy white pine and hemlock. Cut in 2004 under permit # 001-02-01. Good hardwood regen from the the cutting in 2004 with excellent red maple stump sprouts.														
6	Q 6	F 2	349	83	8	100	64	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Potential or designated old growth														
comnts Fmd : SCA Former potential old growth. Q5E5. This stand is a mix of swamp conifers black ash, and red maple with islands of upland hardwoods and large conifers. Low and wet. Understory ranges from fir to black ash. It has not had any activity since the turn of the century, and therefore contains many of stand level attributes of an old growth stand including large diameter hardwoods, hemlock, and white pine. Recommend retaining this stand as potential old growth..														
Wld : SCA-Potential Old Growth Stand. No treatment is recommended to allow for natural processes to occur, maintain snow intercept and thermal qualities of conifer for wildlife during winter, and provide down woody debris forest structure for mammals, amphibians, birds, and insects.														
7	M 6	M 1	6		10	120	59	northern hardwood	unevenaged	Y	selection	within 0-9 years	3	
<u>Treatment Limiting Factors:</u>														
Blocked by other physical obstacle														
comnts Fmd : Similar to stand 11. Fair quality mixed hardwood pole stand comprised of sugar maple, red maple, and cherry with scattered hemlock and yellow birch. Large remnants throughout the stand. Occasional upland cedar. Inaccessible due to beaver flooding and swamp crossing.														
8	M 6	F 2	3		8	100	55	northern hardwood	low quality	N		not scheduled	0	
comnts Fmd : Small upland "island" of poor quality soft maple, hemlock, and fir surrounded by swamp conifers.														
9	A 3	X 0	2	11	1	0	62	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Former grass opening created in 1999, the stand has converted to fully stocked aspen and white birch saplings about 10' tall.														

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

Stand	Cover Type-Dnsty	Under Story-Stknng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
10	M 6	M 1	3		8	100	63	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : A small island of soft maple, hard maple, hemlock, and fir. Since access to stand 11 cuts through the center of this stand, a very light selection cut will be scheduled. Management goals of the scheduled hardwood stand are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. The harvest plan will also include considerations for conifer retention, coarse woody debris, and BMP's, with all hemlock, cedar, white pine or red pine to be retained. We will retain all species represented and all size classes including the large legacy trees.</p>														
11	M 6	M 1	22		10	120	59	northern hardwood	unevenaged	Y	selection	within 0-9 years	3	
<p>comnts Fmd : Fair quality mixed hardwood pole stand comprised of sugar maple, red maple, and cherry with scattered hemlock and yellow birch. Large remnants throughout the stand. Occasional upland cedar. Access will be difficult and limited to winter months. In addition, permission will be required from 3 landowners to cross their lands. Management goals of the scheduled hardwood stand are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. The harvest plan will also include considerations for conifer retention, coarse woody debris, and BMP's, with all hemlock, cedar, white pine or red pine to be retained. We will retain all species represented and all size classes including the large legacy trees.</p>														
12	S 4	V 0	21	84	5	10	15	black spruce-swamp	sparse	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too wet Inadequate volume due to low stocking/small diameter/etc.</p>														
<p>comnts Fmd : Essentially a treed bog with a few spruce poles.</p>														
13	M 6	M 1	17		8	120	64	northern hardwood	unevenaged	Y	selection	within 0-9 years	3	
<p>comnts Fmd : ...2010- Fair quality hardwoods with a good component of cherry with the quality dropping going north to east. Access via winter road thru several private landowners. Schedule treatment with stand 11. Management goals of the scheduled hardwood stand are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. The harvest plan will also include considerations for conifer retention, coarse woody debris, and BMP's, with all hemlock, cedar, white pine to be retained. We will retain all species represented and all size classes including the large legacy trees.</p>														
14	S 4	S 2	18	84	6	30	55	black spruce-swamp	sparse	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too wet Inadequate volume due to low stocking/small diameter/etc.</p>														
<p>comnts Fmd : Poorly stock black spruce pocket, almost a treed bog.</p>														
15	M 6	M 2	5		9	100	60	northern hardwood	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA Former potential old growth. Another island of hardwoods surrounded by swamp conifers. The stand consists primarily of soft maple poles with large remnant soft maple and yellow birch sawtimber, hemlock, and cherry. It has not had any activity since the turn of the century, and therefore contains many of stand level attributes of an old growth stand including large diameter hardwoods, hemlock, and white pine. Recommend retaining this stand as potential old growth..</p> <p>Wld : SCA-Potential Old Growth Stand. No treatment is recommended to allow for natural processes to occur and provide down woody debris forest structure for mammals, amphibians, birds, and insects.</p>														
16	M 6	M 1	4		8	100	52	northern hardwood	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA Former potential old growth. H7H5M5H2M2 Hemlock sawtimber, poles, and saplings with red maple, upland cedar, large yellow birch and an occasional large white pine. Located on a small mound surrounded by swamp conifers. It has not had any activity since the turn of the century, and therefore contains many of stand level attributes of an old growth stand including large diameter hardwoods, hemlock, and white pine. Recommend retaining this stand as potential old growth..</p> <p>Wld : SCA-Potential Old Growth Stand. No treatment is recommended to allow for natural processes to occur, maintain snow intercept and thermal qualities of conifer for wildlife during winter, and provide down woody debris forest structure for mammals, amphibians, birds, and insects.</p>														

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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	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
17	M 6	F 2	2	8	100	70	northern hardwood	old growth (potential or actual)	N			not scheduled	0	
<p>comnts Fmd : SCA Very small island of hardwood converting to fir. It has not had any activiity since the turn of the century, and therefore contains many of stand level attributes of an old growth stand including large diameter hardwoods, hemlock, and white pine. Recommend retaining this stand as potential old growth.</p> <p>Wld : SCA-Potential Old Growth Stand. No treatment is recommended to allow for natural processes to occur, maintain snow intercept and thermal qualities of conifer for wildlife during winter, and provide down woody debris forest structure for mammals, amphibians, birds, and insects.</p>														
18	Q 6	Q 1	103	83	8	70	48	mixed swamp conifer	old growth (potential or actual)	Y			not scheduled	0
<p><u>Treatment Limiting Factors:</u> Too wet Potential or designated old growth</p> <p>comnts Fmd : SCA Former potential old growth. Retain as special conservation area to protect the riparian and wildlife values along the creek. Q5E5 a mix of swamp conifers and lowland hardwoods.</p> <p>Wld : SCA-Potential Old Growth Stand. Riparian and wildlife corridor. No treatment is recommended to allow for natural processes to occur, maintain snow intercept and thermal qualities of conifer for wildlife during winter, and provide down woody debris forest structure for mammals, amphibians, birds, and insects.</p>														
19	M 6	M 2	8	8	100	64	northern hardwood	unevenaged	N			10-19 years	0	
<p>comnts Fmd : ...2010- Fair quality hardwoods with a good component of cherry. Scattered hemlock, and yellow birch.</p>														
20	E 6	Q 1	126	111	8	70	50	swamp hardwoods	old growth (potential or actual)	Y			not scheduled	0
<p><u>Treatment Limiting Factors:</u> Too wet</p> <p>comnts Fmd : SCA Former potential old growth. Retain as special conservation area to protect the riparin values along the creek and provide for wildlife travel corridor. E5Q5 Poor black ash with pockets of swamp conifers.</p> <p>Wld : SCA-Potential Old Growth Stand. Riparian and wildlife corridor. No treatment is recommended to allow for natural processes to occur, maintain snow intercept and thermal qualities of conifer for wildlife during winter, and provide down woody debris forest structure for mammals, amphibians, birds, and insects.</p>														
21	S 4	S 2	30	84	6	30	55	black spruce-swamp	sparse	Y			not scheduled	0
<p><u>Treatment Limiting Factors:</u> Too wet Inadequate volume due to low stocking/small diameter/etc.</p> <p>comnts Fmd : Poorly stock black spruce pocket, almost a treed bog.</p>														
22	Q 6	F 2	90	83	8	100	64	mixed swamp conifer	immature	Y			not scheduled	0
<p><u>Treatment Limiting Factors:</u> Too wet</p> <p>comnts Fmd : Q5E5. This stand is a mix of swamp conifers black ash, and red maple. Low and wet. Understory ranges from fir to black ash.</p>														
23	M 5	M 3	99	82	7	60	55	northern hardwood	immature	N			20-29 years	0
<p>comnts Fmd : M4Q4, Treated under permit # 2-92-1, sale completed in 1996. Good soft maple regeneration.</p>														
24	M 6	F 2	57	11	80	58	northern hardwood	unevenaged	N				20-29 years	0
<p>comnts Fmd : A mix of fair to poor quality hardwoods on a long sand ridge. Soft maple poles predominate with aspen and several hemlock inclusions. Cut by Kanerva under permit # 002-02-01</p>														

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

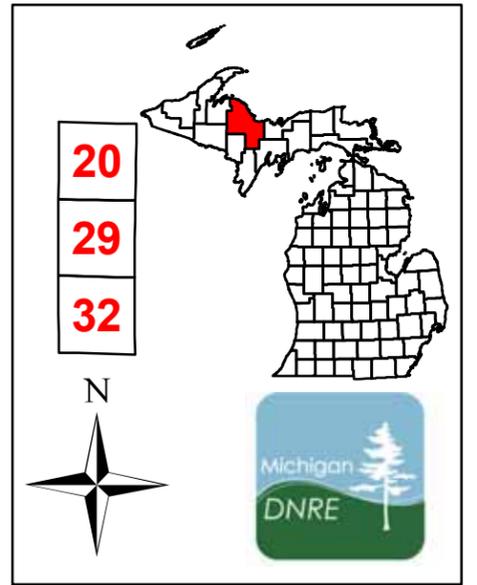
Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
25	A 3	F 2	6	5	1	0	73	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : Cut by Kanerva under permit # 002-02-01. Fully stocked 10-15' aspen saplings.														
26	M 6	M 3	43		11	90	65	northern hardwood	unevenaged	N		20-29 years	0	
comnts Fmd : Stand treated by Kanerva under permit # 002-02-01. Fairly good quality mixed hardwoods of soft maple, hard maple, yellow birch, and hemlock. Occasional cherry and large white pine. Red maple stump sprouts and hard maple seedlings are being browsed very heavily, probably a result of the heavy deer migration route.														
27	Q 6	L 0	375	83	8	70	48	mixed swamp conifer	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet														
comnts Fmd : Q5E5 a mix of swamp conifers and lowland hardwoods. Extremely wet. Understory consists of tag alder and small fir.														
28	M 6	M 3	132		11	90	65	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : FDF,. ACCESS FROM EAST. CUT UNDER PRMT.# 1-92-1, FINISHED IN 1999 2010 - Long east/west ridge of mixed hardwoods, fairly steep in places. Excellent sugar maple regeneration. The stand is primarily sugar maple with red maple and yellow birch. Wld : TWO G-OPENINGS MADE IN 1998-99 2010- These openings have converted to aspen saplings.														
29	M 6	M 2	11		12	110	58	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Smallish island of hardwood surrounded by swamp conifers and lowland hardwoods. The hardwoods consist of red maple, hard maple, and cherry with scattered yellow birch, hemlock, and super canopy white spruce. Some of the yellow birch are huge, as are a few soft maple.														
30	M 6	F 2	13		11	80	58	northern hardwood	two aged	N		20-29 years	0	
comnts Fmd : Even aged stand of fair quality hardwoods. Scattered large yellow birch and soft maple. Occasional large white pine. Cut winter of 2005 by Kanerva under permit # 003-02-01.														
31	M 6	M 3	25		13	90	50	northern hardwood	unevenaged	N		20-29 years	0	
comnts Fmd : A true mixed hardwood standof cherry, soft and hard maple, yellow birch. The stand contains scattered large remnant yellow birch and soft maple, and a nice hemlock inclusion. Stand treated by Kanerva under permit # 002-02-01. Wld : Mesic conifer interim guideline - Underplant hemlock.														
32	M 6	M 1	8		8	70	60	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Fair quality soft maple with hemlock and fir. Treated under sale # 003-92-01.														
33	M 6	F 2	1		9	100	55	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : A small island of poor quality red maple, fir, spruce, and cedar.														
34	M 6	F 2	2		12	80	55	northern hardwood	two aged	N		20-29 years	0	
comnts Fmd : Fair to poor quality soft maple on a peniinsulay that extends inot a conifer swamp. Sale cut by Kanerva winter 2005 under permit # 003-02-01. Wld : Mesic conifer interim guideline - stand scheduled for hemlock underplanting. 2010 no planted hemlock seedlings noted.														
35	M 6	M 2	16		10	70	50	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Treated under sale # 003-92-01. This is a mixed stand of hardwoods with a mix of sugar maple, red maple, and cherry with scattered hemlock, yellow birch and upland cedar. Good maple regen from the previous treatment with fir seedlings and saplings also in the understory.														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg.		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	Tot. BA								
36	M 6	M 2	21	8	80	60	northern hardwood	unevenaged	N			20-29 years	0	
<p>comnts Fmd : Access is from the south thru Mead land. Cut by Kanerva under permit # 003-02-01. Decent quality hardwoods with sugar and red maple, occasional cherry, hemlock, and large spruce.</p> <p>Wld : Mesic conifer interim guideline - underplant with hemlock. Access is too poor so the stand will not be underplanted with hemlock this treatment period.</p>														
37	M 6	F 3	6	10	100	62	northern hardwood	unevenaged	N			10-19 years	0	
<p>comnts Fmd : Poor quality red maple sawtimber and poles over dense 4'-8' fir regeneration. The stand also contains scattered hemlock and yellow birch, large super canopy white spruce, and fir poles. Low and wet with numerous swales.</p>														
38	A 3	X 0	3	11	1	0	62	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Former grass opening created in 1999, the stand has converted to fully stocked aspen and white birch saplings about 10' tall.</p>														
401	G 0	G 0	1	12	0	0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Grass opening created in 1998-99. Filling in with conifers.</p>														
<b>Total Acres.....</b>			<b>1755</b>											

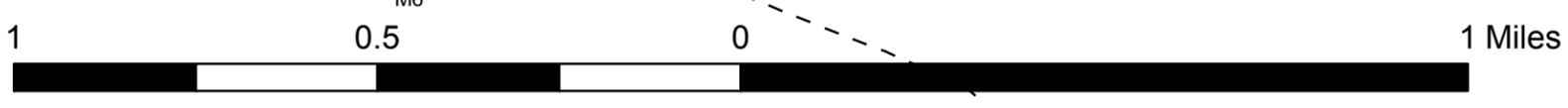
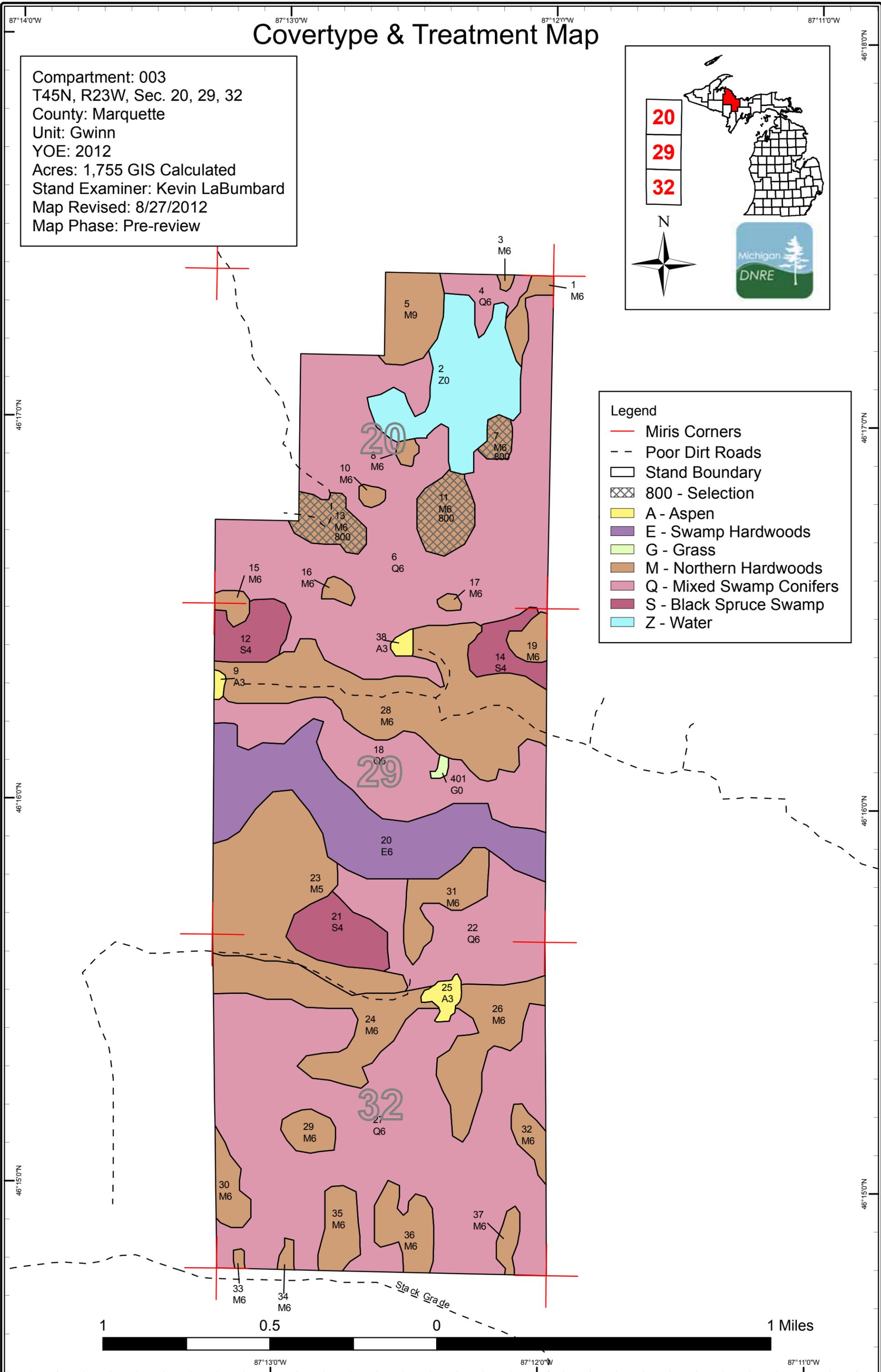
# Covertime & Treatment Map

Compartment: 003  
 T45N, R23W, Sec. 20, 29, 32  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2012  
 Acres: 1,755 GIS Calculated  
 Stand Examiner: Kevin LaBumbard  
 Map Revised: 8/27/2012  
 Map Phase: Pre-review



**Legend**

- Miris Corners
- - - Poor Dirt Roads
- Stand Boundary
- ▨ 800 - Selection
- A - Aspen
- E - Swamp Hardwoods
- G - Grass
- M - Northern Hardwoods
- Q - Mixed Swamp Conifers
- S - Black Spruce Swamp
- Z - Water



87°13'0"W 87°12'0"W 87°11'0"W

46°17'0"N

46°16'0"N

46°15'0"N

46°17'0"N

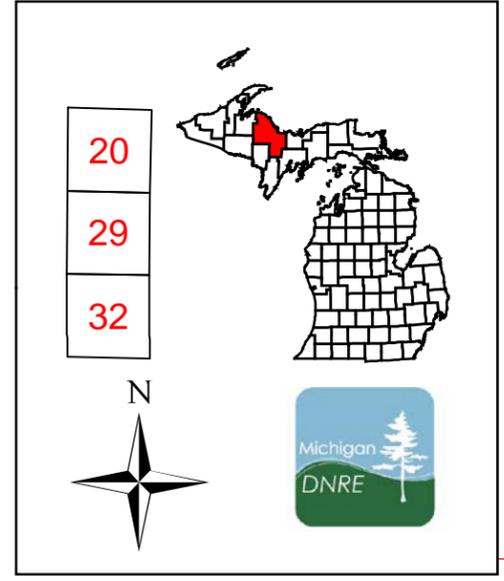
46°16'0"N

46°15'0"N



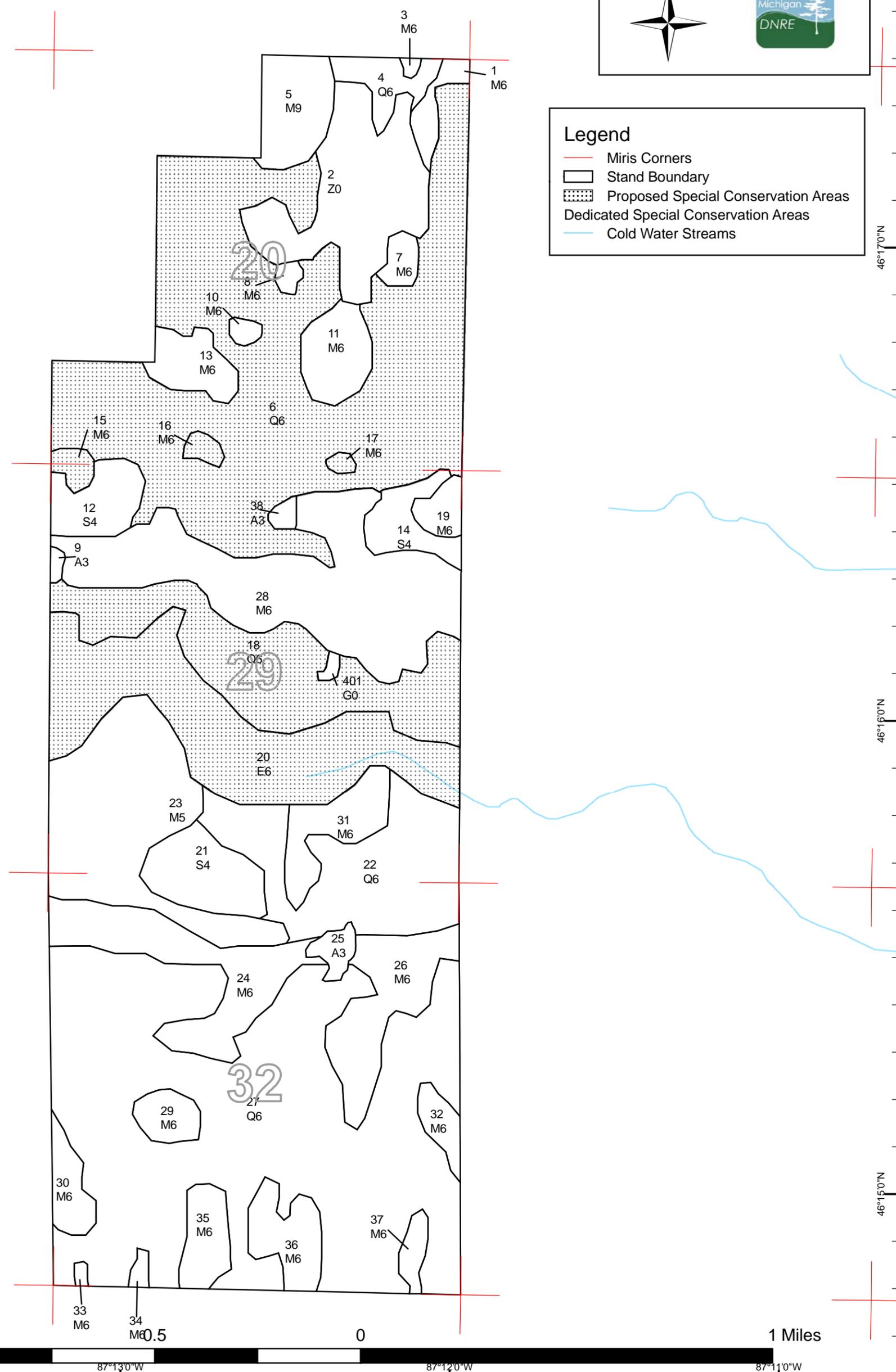
# Dedicated & Proposed Special Conservation Area Map

Compartment: 003  
 T45N, R23W, Sec. 20, 29, 32  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2012  
 Acres: 1,755 GIS Calculated  
 Stand Examiner: Kevin LaBumbard  
 Map Revised: 5/07/2012  
 Map Phase: Pre-review



**Legend**

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





**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.
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.