



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment #047 Entry Year: 2012
Compartment Acreage: 1909 County: Marquette**

Revision Date: July 19, 2010

Stand Examiner: Kevin LaBumbard

Legal Description: T44N R25W Section(s) 19,30,31

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Ralph Ground Moraine MA.

Management Goals: Located just a few miles south of Gwinn, this compartment contains a variety of timber types and is a very popular recreational area, primarily for hunting. Much of the compartment contains dry mesic forest and as a result, a couple of the larger poor quality aspen stands were allowed to convert to white pine naturally last treatment period and they continue to move in that direction. Most of the aspen types are being managed for age class distribution with three stands scheduled for final harvest while maintaining white pine and other valuable conifers. One birch stand and one upland black spruce stand are also scheduled. Two northern hardwood stands are scheduled for selective harvest but regeneration will be an issue. Considerations for species diversity, retention, coarse woody debris, and BMP's will be included with every harvest plan. Special conservation area stands are included along Wilson Creek to protect and enhance the riparian, wildlife, and vegetative values contained within.

Soil and Topography: Terrain is relatively level to lightly sloping with soils ranging from mucks in the bog areas to excessively drained sands in the southeast portion of the compartment. Major soil associations include the Sagola-Rubicon Complex, Emmet-Escanaba, Paquin-Finch sand, and Rubicon sand.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is surrounded by additional State lands except for the extreme southwestern corner where the adjacent ownership is in private holdings.

Unique, Natural Features: Potential for northern goshawk, red-shouldered hawk, spruce grouse, and black-backed woodpecker. Potential for eagle, osprey, and great blue heron rookery. Potential for moose and wolf. Potential for frigga fritillary, freija fritillary and red-disked alpine in bogs. 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: Stands 29 and 35 are designated Special Conservation Areas along Wilson Creek. Stand 1 is proposed to be removed from SCA status.

Watershed and Fisheries Considerations: Wilson Creek.

Wildlife Habitat Considerations: This compartment lies within the Ralph Ground Moraine Management Area. There are Special Conservation Areas along Wilson Creek and Bob's Creek to maintain wildlife

corridors and protect wetland areas. This area receives a fair amount of hunting and trapping recreation so strive for best possible age class distribution in aspen habitat.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist primarily of glacial outwash sand and gravel and postglacial alluvium, and minor amounts of medium-textured glacial till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau Formation subcrops below the glacial drift. The Trempealeau could be used for stone. Gravel pits are located to the west of the compartment, and there may be some potential in west half of Section 19. Abandoned iron mines are located five miles to the north, but this compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access is excellent from the east via County Road 557 and from the north via County Road 438. In addition, there are several 2-tracks leading into the compartment.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: No developed recreational sites but the compartment lies just 2 miles south of Anderson Lake State Forest Campground. Hunting opportunities are excellent for deer and upland small game. Stand 10 contains the start of a hunter walking trail.

Fire Protection: There is a moderate risk of wildfire in this compartment but the excellent access should make suppression relatively easy.

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: 47

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			69	333	385			33	23									30	873
Black Spruce								25		25		6			4				60
Bog or Marsh	16																		16
Cedar									113										113
Grass	78																		78
Lowlnd Brush	17																		17
Marsh	44																		44
Mx Swmp Cnfr												258							258
Non Stocked	19																		19
Paper Birch									29										29
Red Pine					36				5										41
Spruce Fir			12	9	20							9							50
Swamp Hrdwds											10								10
Tamarack			5																5
Upland Brush	36																		36
Upland Hdwds											14							48	62
Water	4																		4
White Pine				5			189												194
Total	214		86	347	441		189	58	170	25	24	273			4			78	1909

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 47

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	873																										873
S Black Spruce		60																									60
V Bog or Marsh			16																								16
C Cedar				113																							113
G Grass					78																						78
L Lowlnd Brush									17																		17
N Marsh											44																44
Q Mx Swmp Cnfr												258															258
X Non Stocked													19														19
B Paper Birch	29																										29
R Red Pine															41												41
F Spruce Fir																			50								50
E Swamp Hrdwds																				10							10
T Tamarack																					5						5
U Upland Brush																								36			36
M Upland Hdwds																								62			62
Z Water																									4		4
W White Pine																										194	194
Total	902	60	16	113	78				17		44	258	19		41				50	10	5		36	62	4	194	1909

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **47**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7180 Cds	Hardwood	1360 Cds
Hardwood	154 Mbf	Hardwood	32 Mbf
Softwood	6731 Cds	Softwood	510 Cds
Softwood	820 Mbf	Sum CutVol	1934 Cds
Sum TotVol	15859 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	149
1909		Acres Meeting Silv Criteria.....	452
		Acres Not Meeting Silv Criteria.....	1457
		Acres Unable to Determine Silv Criteria For.....	

GWINN FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 47

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
39	M6	19	0	63	NORTHERN HARDWOOD	UNEVENAGE D	SELECTION	3		

TREATMENT LIMITING FACTORS: Regeneration technology inadequate

comnts Fmd : SELECT CUT IN 1984-2010-12"-16" basswood sawtimber over 6-10" sugar maple poles. Stems are of high quality. Site quality is also high but there is a lack of regeneration from the previous cutting. Although the stand is scheduled for treatment, a limiting factor for inadequate regeneration is applied as I do not believe we can regenerate this stand. We will try large 1/2 acre group selections when harvesting this stand followed by a regeneration survey after 4 years.

43	M6	6	0	79	NORTHERN HARDWOOD	UNEVENAGE D	SELECTION	2		
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TREATMENT LIMITING FACTORS: Regeneration technology inadequate

comnts Fmd : Good quality sugar maple with scattered basswood , occasional red maple and upland cedar. A few twins and triplet stems. Could hold this stand for 10 years and cut with stand 41, or treat this entry with stand 39. Understory composed of a light stocking of 3-4" dbh hard maple saplings.

Total Acres..... 25

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 47

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
6	A5	30	0	60	ASPEN (UPLAND)	MATURE	FINAL HARVEST	2		
comnts Fmd : Variable stand of aspen, red pine, white birch, red maple, black spruce, and fir. Small pockets of white pine saplings and poles. The harvest will retain all the pines, with aspen or pine as acceptable species for regeneration.										
15	A5	23	71	64	ASPEN (UPLAND)	IMMATURE	FINAL HARVEST	1		
comnts Fmd : A4M4F4W4 Medium stocked aspen, soft maple, fir and white birch with occasional large white pine and white spruce. Dense 1-3" fir understory. Numerous 1/10 acre "openings" throughout the stand. Retain all pines and large supercanopy white spruce.										
17	A6	33	60	60	ASPEN (UPLAND)	MATURE	FINAL HARVEST	1		
comnts Fmd : Well stocked stand of larger aspen with fir, soft maple, and scattered supercanopy white spruce. Retain all pines, the supercanopy spruce, and the small hardwood island in the interior for retention and diversity.										
25	B6	29	75	63	ASPEN (UPLAND)	MATURE	FINAL HARVEST	2		
comnts Fmd : B5S4F4A4M4W4R4H4. Call it a birch and aspen stand with mixed upland conifers over 1-3" fir and black spruce regen. Remove all species except the red and white pine. Any species mix is acceptable for regeneration.										
49	F6	9	107	34	SPRUCE-FIR (UPLANDS- INCLUDING UPLAND BLACK SPRUCE)	MATURE	FINAL HARVEST	2		
comnts Fmd : Upland black spruce with scattered white pine sawtimber. Most of the fir is dead and down. Stand contains a soft maple component but less than 10 ba. Small pocket of D within the stand.										
Total Acres.....		124								

* 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	S 6	Q 1	4	129	6	130	22	black spruce-swamp	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Potential or designated old growth Inadequate volume due to small acreage</p> <p>comnts Fmd : SCA Former potential old growth. A mix of black spruce and other swamp conifers, primarily cedar. Very low site productivity.</p> <p>Wld : SCA-Potential Old Growth Stand along Bob's Creek. Recommend no harvest to maintain wildlife corridor and protect riparian area, allow for natural processes to occur, protect mature conifer for snow intercept and thermal protection for wildlife, and increase forest structure in the form of down woody debris for mammals, amphibians, birds, and insects.</p>														
2	M 6	F 3	4		9	80	54	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Poor quality soft maple over fir saplings and poles. Stand is converting to fir.</p>														
3	W 6	W 3	189	57	10	70	55	white pine	immature	N		20-29 years	0	
<p>comnts Fmd : Formerly an A5 stand that has converted to a fairly young white pine stand. Dry Mesic. The aspen is short, 1-2 stick over white pine poles with a low stocking of red and white pine sawtimber trees. Pockets of good W regeneration. Scattered jack pine and soft maple.</p> <p>Wld : MESIC CONIFER INTERIM GUIDELINE - CONVERT TO WHITE PINE LONG-TERM MO.</p>														
4	F 2	X 0	3	21	3	0	26	spruce-fir (uplands-including upland black spruce)	immature	N		40-49 years	0	
<p>comnts Fmd : CUT PERMIT NO. 15-83-1 Fir and black spruce saplings and seedlings with a few white pine saplings growing on a narrow sandy ridge.</p>														
5	X 0	X 0	19			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : County roads 438 AND 557 R.O.W.'S</p>														
6	A 5	F 3	30		10	50	60	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<p>comnts Fmd : Variable stand of aspen, red pine, white birch, red maple, black spruce, and fir. Small pockets of white pine saplings and poles. The harvest will retain all the pines, with aspen or pine as acceptable species for regeneration.</p>														
7	Z 0	Z 0	3			0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Small bog pond in stand 9.</p>														
8	V 0	V 0	7			0		bog or muskeg	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Bog</p>														
9	S 2	V 0	25	80	4	0	23	black spruce-swamp	immature	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 : Stunted black spruce with a fringed of black spruce poles surrounding a bog lake.</p>														
10	A 3	F 1	35	17	3	10	65	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Treated under permit #015-92-01. 2-4" aspen saplings 20'-40' tall over fir with a W7 overstory in the southeast portion of the stand. This stand also contains a small 1 acre hard and soft maple "island".</p>														

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Stand	Cover Type-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								
11	V 0	V 0	6			0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : BOG														
12	A 3	F 1	13	24	4	0	57	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Cut in 1986 # 015-83-1. Aspen saplings 25-40' tall just starting to move into the pole class, over fir saplings.														
13	F 5	A 2	12	16	8	60	50	spruce-fir (uplands-including upland black spruce)	immature	N		40-49 years	0	
comnts Fmd : This stand was an aspen stand harvested under permit # 14-92-01., with all conifers retained. While there is aspen regeneration, the stand is a mix of small fir and jack pine poles over aspen saplings with red pine and white pine sawtimber- F4J4A1R7W7.														
14	A 5	A 3	63	37	5	60	65	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Aspen poles and saplings with fir, jack pine, spruce poles, and scattered white pine sawtimber over fir, red and white pine, and jack pine seedlings and saplings. The stand is fully stocked and just starting to transition from a sapling stand to a pole stand.														
15	A 5	F 3	23	71	10	70	64	aspen (upland)	immature	Y	final harvest	within 0-9 years	1	
comnts Fmd : A4M4F4W4 Medium stocked aspen ,soft maple,fir and white birch with occasional large white pine and white spruce. Dense 1-3" fir understory. Numerous 1/10 acre "openings" throughout the stand. Retain all pines and large supercanopy white spruce.														
16	Q 5	Q 2	204	99	6	50	21	mixed swamp conifer	low quality	Y		not scheduled	0	
Treatment Limiting Factors: Too wet Water quality/bmps														
comnts Fmd : Extremely variable swamp conifer stand ranging from Q6 to Q4. Very wet and unproductive. A mix of cedar, tamarck, black spruce, and fir over small swamp conifers and tag alder.														
17	A 6	F 2	33	60	10	90	60	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : Well stocked stand of larger aspen with fir, soft maple, and scattered supercanopy white spruce. Retain all pines, the supercanopy spruce, and the small hardwood island in the interior for retention and diversity.														
18	Q 4	Q 1	7	100	6	30	19	mixed swamp conifer	sparse	Y		50-59 years	0	
Treatment Limiting Factors: Too wet Inadequate volume due to low stocking/small diameter/etc.														
comnts Fmd : Essentially a small treed bog.														
19	S 2	S 2	16	67	3	0	27	black spruce-swamp	sparse	N		not scheduled	0	
comnts Fmd : Medium stocked black spruce bog with scattered tamarack.														
20	F 4	A 2	6	18	6	20	50	spruce-fir (uplands-including upland black spruce)	immature	N		30-39 years	0	
comnts Fmd : Treated under contract # 14-92-01 with all conifers retained. Stand is currently a W7F4A3F1. The aspen is 1-2" dbh 10-15' tall. Long term M:O will be aspen or white pine.														
21	S 2	S 2	9	67	3	0	27	black spruce-swamp	sparse	N		not scheduled	0	
comnts Fmd : Medium stocked black spruce bog with scattered tamarack.														

* 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
22	M 9	M 3	15		14	90	79	northern hardwood	immature	N		10-19 years	0	
<p>comnts Fmd : Cut hard under contract #019-92-01. Stand consists of low quality large sugar maple and basswood sawtimber with a few small poles. Most of the trees are of multiple stems, low forks, and basswood clumps. Good site potential with medium to high hard maple and ironwood regeneration.</p>														
23	A 3	F 1	19	18	3	0	62	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Cut under contracti# 016-92-01. Aspen 2-4" dbh, 2-40' tall.</p>														
24	A 4	A 3	59	27	4	20	65	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : Cut in 1983, the stand is transitioning to an A6 pole stand. It is fully stocked, with 1-2 stick poles over well stocked aspen saplings.</p>														
25	B 6	F 3	29	75	9	90	63	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<p>comnts Fmd : B5S4F4A4M4W4R4H4. Call it a birch and aspen stand with mixed upland conifers over 1-3" fir and black spruce regen. Remove all species except the red and white pine. Any species mix is acceptable for regeneration.</p>														
26	T 3	X 0	5	16	2	0	50	tamarack	immature	N		40-49 years	0	
<p>comnts Fmd : Nice pocket of tamarack regeneration. SI from stand 16.</p>														
27	W 7	F 3	5	18	16	20	50	white pine	immature	N		20-29 years	0	
<p>comnts Fmd : Cut under contractT#019-92-01. W7F3T3W3. The stand has regenerated well to fir, white pine , and tamarack saplings, as well as soft maple stump sprouts. All the saplings are 1-2" in dbh and 8-30' tall, with the fir the tallest followed by tamarack, then white pine.</p>														
28	M 6	F 3	14	92	9	80	50	northern hardwood	immature	N		10-19 years	0	
<p>comnts Fmd : Low quality red maple poles with hemlock, upland cedar, and super canopy white spruce. Dense fir understory 5'-10' tall. Remote, no access.</p>														
29	C 6	C 2	78	70	7	100	26	cedar	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA Cedar poles with associated swamp conifers. Contains the headwaters for Wilson Creek. Former potential old growth, retain as an SCA to protect the riparian values along the creek.</p> <p>Wld : SCA-Potential Old Growth Stand along Wilson Creek. Recommend no harvest to maintain wildlife corridor and protect riparian area, allow for natural processes to occur, protect mature conifer for snow intercept and thermal protection for wildlife, and increase forest structure in the form of down woody debris for mammals, amphibians, birds, and insects.</p>														
30	A 3	F 2	34	16	3	0	55	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : Cut in 1993 under contract # 17-92-01. 2-4" aspen saplings over small fir and pockets of jack pine.</p>														
31	R 6	X 0	24	28	6	130	65	red pine	immature	N		10-19 years	0	
<p>comnts Fmd : Machine planted in 1982. Stand is now a fully stocked 1-2 stick pole stand.</p>														
32	A 3	J 3	176	26	4	0	61	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : AREA CUT 1984 PERMIT NO. 24-82-1. THERE ARE A FEW AREAS THAT DID NOT REGENERATE WELL. 2010- Short, off site Aspen saplings with a few poles. Dry mesic site. Approximately 50% of the stand is in aspen, with conifers the remainder. Conifer content consists of a blend of white pine, red pine, jack pine and white spruce. Pockets of dense jack pine saplings.</p>														
33	R 6	X 0	12	28	6	130	65	red pine	immature	N		10-19 years	0	
<p>comnts Fmd : Machine planted in 1982. Stand is now a fully stocked 1-2 stick pole stand.</p>														

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

Stand	Cover Type-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								
34	N 0	N 0	44		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Non stocked former L and cedar types flooded out from beaver activity in Wilson Creek.. Numerous standing dead cedar.														
35	C 6	C 2	23	70	7	100	26	cedar	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : SCA Cedar poles with associated swamp conifers. The stand borders Wilson Creek. Former potential old growth, retain as an SCA to protect the riparian values along the creek. Wld : SCA-Potential Old Growth Stand along Wilson Creek. Recommend no harvest to maintain wildlife corridor and protect riparian area, allow for natural processes to occur, protect mature conifer for snow intercept and thermal protection for wildlife, and increase forest structure in the form of down woody debris for mammals, amphibians, birds, and insects.														
36	A 3	F 1	66	26	4	0	64	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : CUT 1984 PERMIT NO. 25-82-1. 2010- 3"-6" aspen saplings over small fir. The aspen is 25-30' tall just transitioning to a pole stand.														
37	Q 6	Q 1	47	104	7	80	45	mixed swamp conifer	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet														
comnts Fmd : Low wet mixed swamp conifers with black spruce predominating.														
38	S 3	X 0	6	99	4	0	30	black spruce-swamp	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet Inadequate volume due to low stocking/small diameter/etc.														
comnts Fmd : Low, wet black spruce bog.														
39	M 6	U 1	19		10	120	63	northern hardwood	unevenaged	Y	selection	within 0-9 years	3	
<u>Treatment Limiting Factors:</u> Regeneration technology inadequate														
comnts Fmd : SELECT CUT IN 1984-2010-12"-16" basswood sawtimber over 6-10" sugar maple poles. Stems are of high quality. Site quality is also high but there is a lack of regeneration from the previous cutting. Although the stand is scheduled for treatment, a limiting factor for inadequate regeneration is applied as I do not believe we can regenerate this stand. We will try large 1/2 acre group selections when harvesting this stand followed by a regeneration survey after 4 years.														
40	F 5	A 2	20	33	5	40	53	spruce-fir (uplands-including upland black spruce)	immature	N		40-49 years	0	
comnts Fmd : ASPEN REMOVED 1977 . A MIX OF FIR, SPRUCE, ASPEN AND RED MAPLE REGEN. OCCASSIONAL UPLAND BLACK SPRUCE AND CEDAR. SCAT SWALES MANAGE WITH STAND 41. 2010-See above stand description. The stand has transitioned to a pole stand with variable stocking from low to high.														
41	A 6	A 3	322	33	5	70	70	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : Young aspen pole stand, 5" dbh, 3-4 sticks tall with pockets of red pine sawtimber in places. Stocking ranges from low to high.														
42	C 5	Q 2	12	71	6	60	38	cedar	immature	N		not scheduled	0	
comnts Fmd : Small cedar stand with associated swamp conifers, ie black spruce, fir.														

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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								
43	M 6	M 1	6		10	120	79	northern hardwood	unevenaged	Y	selection	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Regeneration technology inadequate														
comnts Fmd : Good quality sugar maple with scattered basswood , occasional red maple and upland cedar. A few twins and triplet stems. Could hold this stand for 10 years and cut with stand 41, or treat this entry with stand 39. Understory composed of a light stocking of 3-4" dbh hard maple saplings.														
44	E 5	F 1	10	89	6	50	46	swamp hardwoods	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
comnts Fmd : Black ash swale.														
45	L 0	L 0	5			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Small pocket of willow.														
46	R 9	U 2	5	71	12	120	65	red pine	immature	N		10-19 years	0	
comnts Fmd : THINNED IN 77 OR 78 2010-Predominantly a red pine sawtimber stand with heavy brush in the understory.														
47	M 6	M 1	4		9	70	67	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Small island of fair quality hardwoods surrounded by aspen poles.														
48	L 0	L 0	12			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : LOWLAND BRUSH														
49	F 6	F 2	9	107	9	70	34	spruce-fir (uplands-including upland black spruce)	mature	Y	final harvest	within 0-9 years	2	
comnts Fmd : Upland black spruce with scattered white pine sawtimber. Most of the fir is dead and down. Stand contains a soft maple component but less than 10 ba. Small pocket of D within the stand.														
50	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Small bog pond in stand 29.														
51	U 1	G 0	36			0		upland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Powerline R.O.W.														
52	V 0	V 0	3			0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Bog														
400	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Local camping spot.														
401	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : small grass opening														

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

Stand	Cover Type-Dnsty	Under Story-Stkng Level	Age	Acrs	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
402	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Natural grass opening filling in with jack pine and white pine.														
403	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Small grass opening														
404	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
405	G 0	G 0	8			0		grass	nonstocked	N		within 0-9 years	0	
comnts Fmd : Larger opening with cherry and a few pines.														
406	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : 1990 2.2 ACRES DISC & SEEDED FTP W-32-319														
407	G 0	G 0	4			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : 1980--DISC & SEEDED ACTUAL ACRES 3.2 FTP W-32-322														
408	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
409	G 0	G 0	5			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
410	G 0	G 0	4			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
411	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
412	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
413	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
414	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
415	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														

GWINN FOREST MGT UNIT

Stand Level Information

Compartment: 47

Entry Year: 2012

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

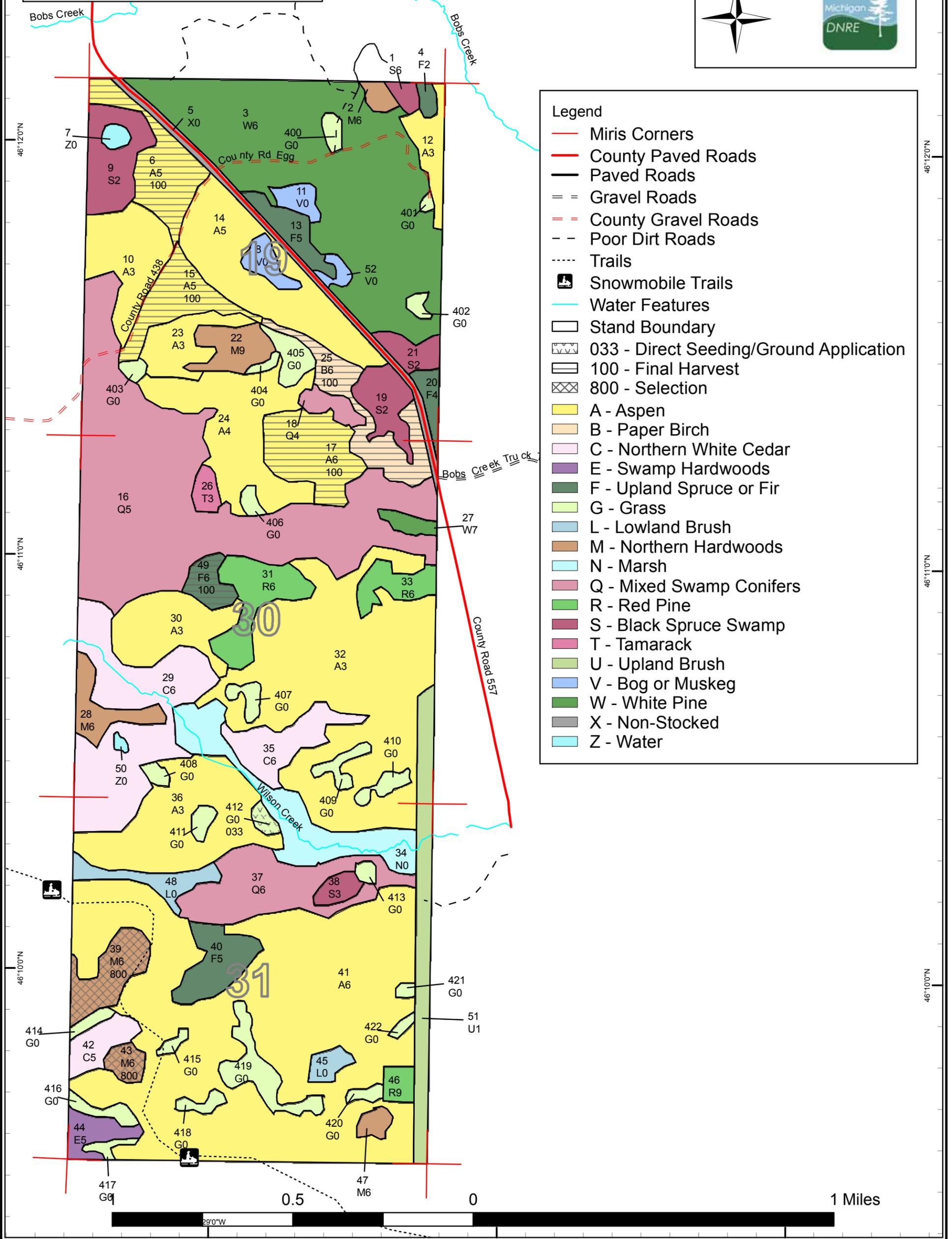
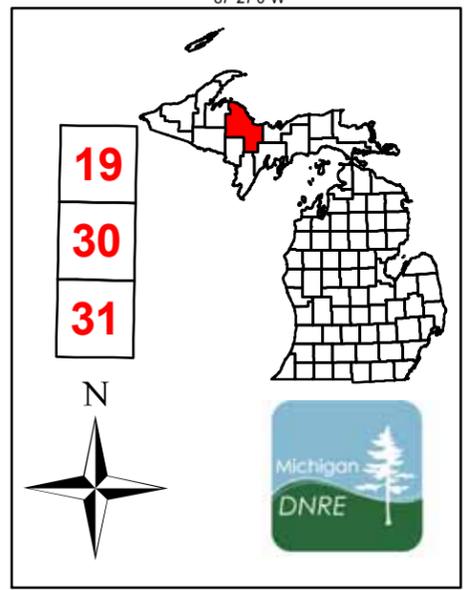
Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acres	Age	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
416	G 0	G 0	5			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
417	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
418	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : WEST END SEEDED TO RYE FALL 1979														
419	G 0	G 0	16			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
420	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
421	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
422	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
Total Acres.....			1909											

87°29'0"W

Covertypes & Treatment Map

87°27'0"W

Compartment 47
 T44N, R25W, Sec. 19, 30, 31
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 1,909 GIS Calculated
 Stand Examiner: Kevin LaBumbard
 Map Revised: 8/27/2010
 Map Phase: Pre-review



- Legend**
- Miris Corners
 - County Paved Roads
 - Paved Roads
 - Gravel Roads
 - County Gravel Roads
 - Poor Dirt Roads
 - Trails
 - Snowmobile Trails
 - Water Features
 - Stand Boundary
 - 033 - Direct Seeding/Ground Application
 - 100 - Final Harvest
 - 800 - Selection
 - A - Aspen
 - B - Paper Birch
 - C - Northern White Cedar
 - E - Swamp Hardwoods
 - F - Upland Spruce or Fir
 - G - Grass
 - L - Lowland Brush
 - M - Northern Hardwoods
 - N - Marsh
 - Q - Mixed Swamp Conifers
 - R - Red Pine
 - S - Black Spruce Swamp
 - T - Tamarack
 - U - Upland Brush
 - V - Bog or Muskeg
 - W - White Pine
 - X - Non-Stocked
 - Z - Water



87°29'0"W

46°12'0"N

46°11'0"N

46°10'0"N

46°12'0"N

46°11'0"N

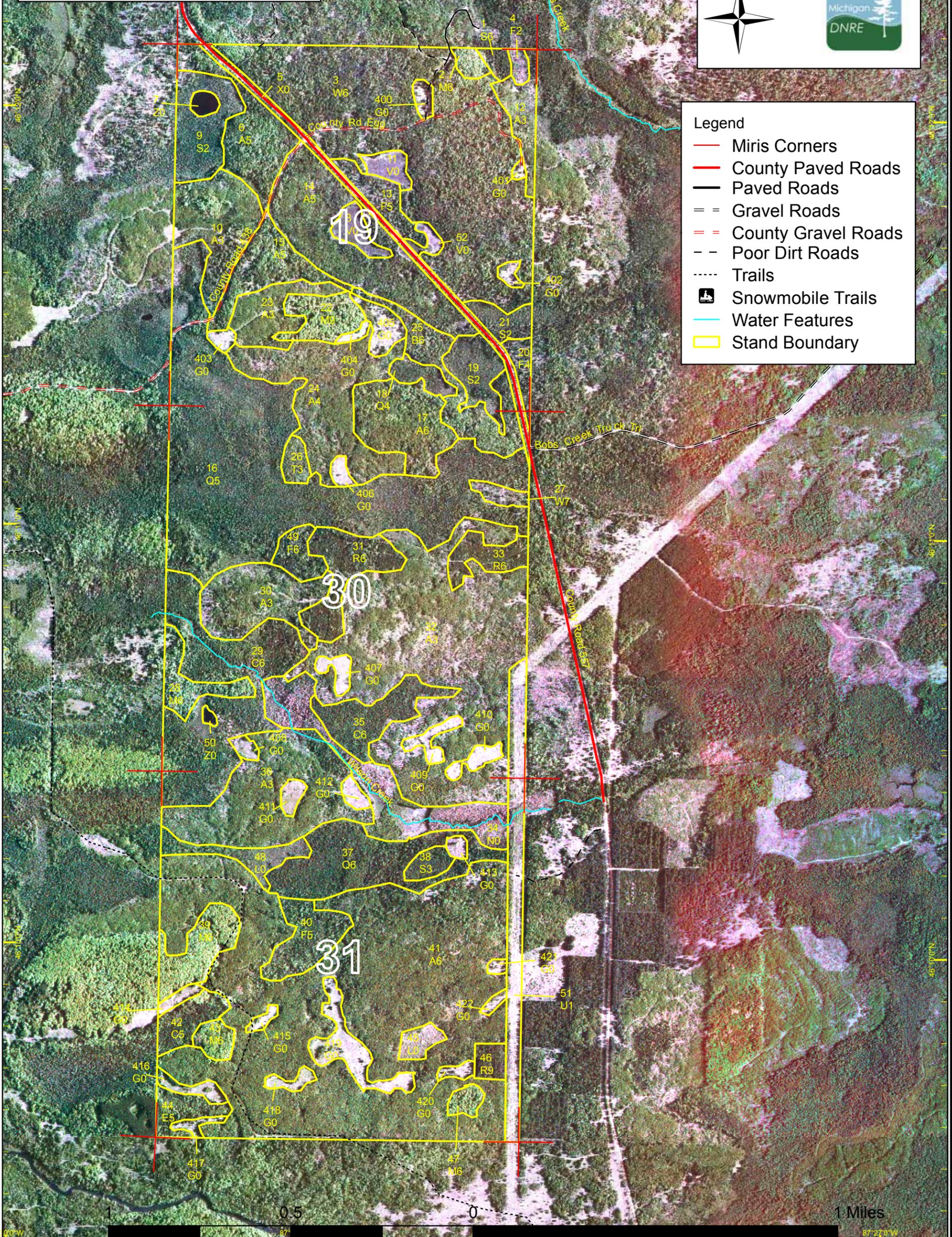
46°10'0"N

Stand Boundary Map

Compartment 47
 T44N, R25W, Sec. 19, 30, 31
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 1,909 GIS Calculated
 Stand Examiner: Kevin LaBumbard
 Map Revised: 8/27/2010
 Map Phase: Pre-review

Legend

- Miris Corners
- County Paved Roads
- Paved Roads
- = = Gravel Roads
- - County Gravel Roads
- - Poor Dirt Roads
- - - - Trails
- Snowmobile Trails
- Water Features
- Stand Boundary

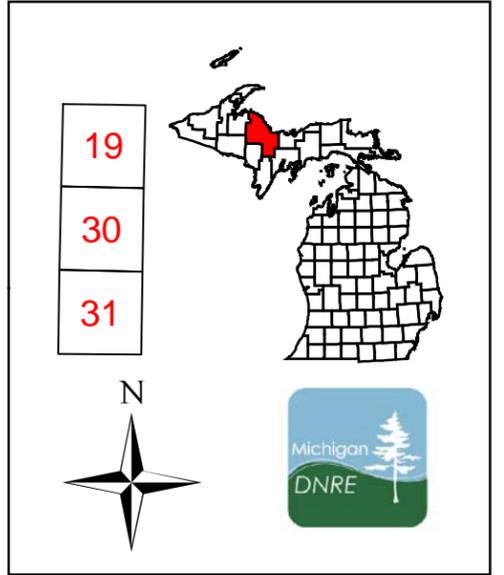


87°30'0"W

87°27'0"W

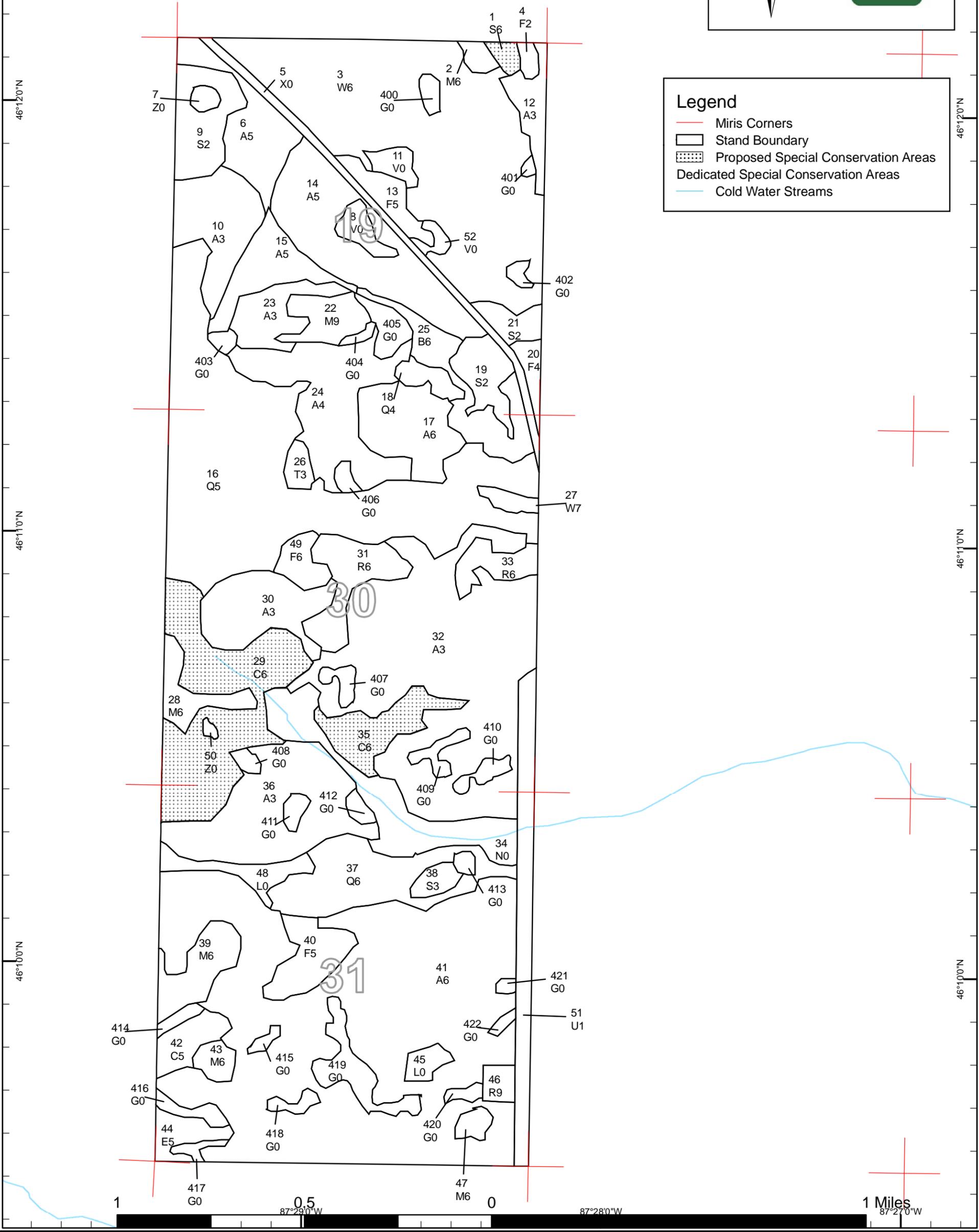
Dedicated & Proposed Special Conservation Area Map

Compartment 47
 T44N, R25W, Sec. 19, 30, 31
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 1,908 GIS Calculated
 Stand Examiner: Kevin LaBumbard
 Map Revised: 7/15/2010
 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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.