



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment #076 Entry Year: 2012
Compartment Acreage: 1,442 County: Marquette**

Revision Date: July 13, 2010

Stand Examiner: Theresa Sysol

Legal Description: T43N R25W Section(s) 1 - 3

Identified Planning Goals ('Management Area' or 'RMU', if applicable):

Management Goals: To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreational and environmental needs and concerns.

Soil and Topography: Emmet-Escanaba complex, Onaway fine sandy loam, Shoepac-Trenary silt loam mostly on the flat to gently rolling uplands. Croswell-Deford complex on some of the lower flat areas. Carbondale-Tawas muck in the low, mostly flat swamps.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Large private ownerships used as hunting camps in this compartment.

Unique, Natural Features: Potential for northern goshawk and red-shouldered hawk. Potential for 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. MNFI concern identified.

Archeological, Historical, and Cultural Features: Remains of old logging camps in at least 3 spots within compartment. HAL concern identified.

Special Management Designations or Considerations: Protection of riparian corridor(s) along Escanaba River and Sawmill Creek

Watershed and Fisheries Considerations: Escanaba River, Big West Branch, and Sawmill Creek

Wildlife Habitat Considerations: This compartment is located in the Ralph Ground Moraine Management Area. For all SCA, biodiversity maintenance stands-maintain as movement corridors for wildlife species and the protection of riparian areas along Escanaba River, the Little West Branch of the Escanaba River, and Sawmill Creek. Promote biological legacies such as snags, coarse woody debris, and intact nutrient cycles. Strive for best possible age class distribution in aspen stands. Maintain or increase biodiversity in northern hardwood stands through retention of associate species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of medium-textured till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien Group subgroups below the glacial drift. The PdC could be used for stone. Gravel pits are located over five miles to the south of the compartment, but there may be potential

in the east half of Section 1. Abandoned iron mines are located seven miles to the north, but this compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access: About 1/3 of the compartment has good access, although roads receive minimal to no maintenance. The rest of the compartment is blocked by large swamps or private lands.

Survey Needs: None

Recreational Facilities and Opportunities: This is an excellent area for fishing and hunting. The roads in this area are used heavily for canoe access to the Escanaba River – camping along the river is also popular. The Little West Road is also used as the snowmobile trail, which runs through a small part of this compartment.

Fire Protection: Considerable response time and suppression efforts would be required if any natural wildfires were to occur within the eastern two-thirds of the compartment.

Additional Compartment Information: There is a ford across the Escanaba River (at stand 457) that has been used for many years. Use of this ford is increasing.

- **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: 76

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		65	111	130	46	34	22		8										416
Cedar									8	33		387							428
Grass	26																		26
Hemlock																		7	7
Lowlnd Brush	29																		29
Lowlnd Poplr				6						14									20
Marsh	12																		12
Mx Swmp Cnfr									31	27	10	54					4		126
Red Pine					3														3
Spruce Fir				4		5													9
Swamp Hrdwds												20						27	47
Upland Hdwds																		299	299
Water	20																		20
Total	87	65	111	140	49	39	22		47	74	10	461					4	333	1442

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 76

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	416																										416
C Cedar				428																							428
G Grass					26																						26
H Hemlock						7																					7
L Lowlnd Brush									29																		29
P Lowlnd Poplr										20																	20
N Marsh											12																12
Q Mx Swmp Cnfr												126															126
R Red Pine																3											3
F Spruce Fir																			9								9
E Swamp Hrdwds																				47							47
M Upland Hdwds																								299			299
Z Water																									20		20
Total	416			428	26	7			29	20	12	126				3			9	47				299	20		1442

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **76**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8974 Cds	Hardwood	773 Cds
Hardwood	284 Mbf	Softwood	94 Cds
Softwood	9952 Cds	Sum CutVol	867 Cds
Softwood	175 Mbf		
Sum TotVol	19844 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	69
1442		Acres Meeting Silv Criteria.....	195
		Acres Not Meeting Silv Criteria.....	1247
		Acres Unable to Determine Silv Criteria For.....	

GWINN FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 76

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
29	M6	33	0	50	NORTHERN HARDWOOD	UNEVENAGE D	SELECTION	3		

TREATMENT LIMITING FACTORS: Road needed (resources not presently available)
 Inferior quality
 Regeneration technology inadequate

comnts Fmd : THINNED 1983-84 (T. sale # 023-80). NO NEED FOR THIN THIS CYCLE. 2000: Only fair quality. Sparse dead elm areas.wet area in center. Stand has poor access. 2010: Access to stand has deteriorated since last entry - old ice road X-ing drainage has been flooded, and surrounding cedar is now standing dead up to this point. Not sure if even winter access will be feasible. Stand has little to no regeneration since last cut; too much deer pressure? This is a main factor in limiting treatment. Lots of defects in the hardwood. Cedar, YB, beech, basswood all noted within stand. 2000 YOE: stand 27

38	A6	11	43	65	ASPEN (UPLAND)	IMMATURE	FINAL HARVEST	3		
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TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity

comnts Fmd : WELL-STOCKED Aspen 4-stick average. 2010: Stand is scheduled now in order to treat with adjacent compt (C.75 stand 25) when it is prescribed for treatment in 2018. Otherwise, treatment can be delayed one more cycle. Stand also includes G type (old stand 401). 2000 YOE: stand 35

59	R6	3	37	65	RED PINE	IMMATURE	THINNING	3		
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TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : SMALL RED PINE AREA PLANTED FOR POSSIBLE FUTURE CAMPGROUND. Some low forks. Possible to thin next cycle probably. 2010: Not much volume here for a marketable sale, but stand could use thinning. (Negotiate?) Also includes some intermixed A , which will help provide access through pine if it is cut at the same time. RP seedlings were hand planted at both 6x8 and 8x8 spacing, it appears. Rows can be identified, but since acreage is so small, each RP to cut should be marked. Mark for visual, (future recreation?), rather than for timber production. Stay out of adjacent WS, which was also planted at the same time. 2000 YOE: stand 51

Total Acres..... 47

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 76

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
48	A6	22	55	52	ASPEN (UPLAND)	MATURE	FINAL HARVEST	1			
comnts Fmd : A6F5A2,PATCHES OF A3, F2 and sparse areas.Variable age. 2010: Aspen is in decline and starting to break up - treat now. Was held for diversity last entry. Fairly open-grown spruce within - may be possible to leave some, as well as any cherry within stand. A few maple clumps noted. Hazel underbrush present. Soils are Nadeau-Mancelona. 2000 YOY: stand 45											
Total Acres.....		22									

* 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 H	Tot. BA								
1	M 6	M 1	5		9	90	62	northern hardwood	unevenaged	N		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Inferior quality Inadequate volume due to small acreage</p> <p>comnts Fmd : THIN WITH COMP TO NORTH. STAND IS SOMEWHAT THIN NOW. Not real good quality; fair potential. Already marked but never cut. 2010: too far from good road access and small acreage. Last cut under permit #13-67A (1967-70). Thin with C. 23, stand 68, when prescribed, and/or wait to treat with aspen stand (2) next entry to create a more marketable sale. Soils are Shoepac-Ensley. 2000 YOE: stand 1</p>														
2	A 6	F 2	17	42	8	80	70	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : 2000: A6 well-stocked 4 stick with thick Fir regeneration 10-15 foot tall understory. 2010: T. sale #13-67A - cut 1967-1970. Soils are Charlevoix-Ensley. Thin stand 1 when this stand is prescribed. 2000 YOE: stand 2</p>														
3	F 6	F 3	5	42	8	70	58	spruce-fir (uplands-including upland black spruce)	immature	N		10-19 years	0	
<p>comnts Fmd : 2000: Some mortality with F3 in gaps. Stream buffer. 2010: Cut under permit #13-67A, 1967-70. Soils are Charlevoix-Ensley.</p>														
4	L 0	L 0	8			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA: Riparian buffer- no treatment. Lowland brush along/including small creek. Soils are histosols and aquents, ponded. 2000 YOE: stand 61</p>														
5	F 3	P 2	4	24	2	0	58	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)	N		30-39 years	0	
<p>comnts Fmd : SCA in 2000: Stand not field checked this time. 2010: T. sale #010-85 "Yellow Submarine Block" (Unit 2,3) - cut winter, 1986 (access through PVT lands). Stand was proposed as old growth last entry; remove designation. Stand contains small acreage, but could still be treated in the future as long as Sawmill Creek buffer is retained and private landowner grants access. Possibly negotiate a sale when private landowner treats their land. Mixed stand composition is acceptable. 2000 YOE: stand 21</p> <p>Wld : SCA-Potential Old Growth Stand along Sawmill 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>														
6	C 6	F 1	33	80	7	80	25	cedar	old growth (potential or actual)	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Cedar or Hemlock cutting restraints Potential or designated old growth</p> <p>comnts Fmd : SCA: Riparian corridor which includes Sawmill Creek, surrounding lowland brush and buffer (previously broken out as individual stands). Larger cedar on more upland edges; WP noted with dead top. Mixed hardwood noted includes: RM, PB, A. Mixed softwood: BF, WS, WP, H. Maintain old growth designation - good protection for creek and corridor.. Soils are Evart-Pelkie-Sturgeon Complex. 2000 YOE: stand(s) 8,54-60,71</p> <p>Wld : SCA-Potential Old Growth Stand along Sawmill 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>														
7	A 3	F 1	33	15	2	0	73	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : CUT PERMIT NO. 20-92-01. Mostly well-stocked 10' tall but some sparse areas, especially on wetter ground. Some F1 areas of upland. 2010: Aspen is now ~ 20' height. Soils are Shoepac-Ensley. 2000 YOE: stand 7, 10</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								
8	E 6	F 2	27		10	80	55	swamp hardwoods	unevenaged	N		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Cedar or Hemlock cutting restraints														
Too wet														
Inferior quality														
comnts Fmd : 2000: Mostly upland but some lowland. Fir mostly dead and spruce mortality too. Ash swale with bigger cedar, maple, hemlock - patchy. Some fir (regen is 5 - 10' ht) also but overall E type. Poor quality hardwood. Real mix, treatment possible next time when hardwood is cut adjacent. Or could put in old growth due to stand diversity. Ash is too big and mature for site tree so used a fir. 2010: No treatment planned this entry. Soils are Charlevoix-Ensley. 2000 YOE: stands 4 and 5														
9	Q 6	Q 1	25	77	7	90	26	mixed swamp conifer	immature	N		10-19 years	0	
comnts Fmd : SMALL TIMBER HOLD 20 TO 30 YEARS. 2000: Stand not field checked this time. 2010: stand updated by remote call. Soils are Carbondale and Tawas. 2000 YOE: stand 11														
10	M 6	M 1	15		8	70	50	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : 2000: mostly poor timber quality. Fir mortality. Somewhat wet ground. Cedar, hemlock scattered throughout and in patches. 2010: W. spruce and B. Ash noted also. Soils are Charlevoix-Ensley. 2000 YOE: stand 69														
11	M 6	M 1	67		10	70	60	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : THINNED PERMIT 20-92-01 (Sawmill Creek Sale) - completed winter 1994 (Jan, Feb). 2000: Some parts were cut heavy. Some regen coming in but being browsed. A lot of this stand is M5M4. Not FDF quality. Wildlife will plan to underplant Hemlock. 2010: Stand still being heavily browsed; hazelbrush present. Where heavier cut occurred, regen is thicker (~ 10' ht). No visible WP seedlings (FTP W32-620) which were hand planted in June, 2004. Numerous overmature snag trees noted, also some cedar, spruce. Heavy defects - split forks, forking, stain, cankers. Old skid trails with P regeneration (~ 16' hts and 1-2" dbh). Stand now includes small patch of P3 (old stand 66), which is now 15-24' hts and 2-3" dbh, and M2 stand (old stand 64). Soils are Shoepac-Ensley. 2000 YOE: stands 6,66,64														
Wld : 2000: MESIC CONIFER INTERIM GUIDELINE - UNDERPLANT HEMLOCK.														
12	H 6	F 2	7		11	70	55	hemlock	low quality	N		not scheduled	0	
comnts Fmd : Hemlock/conifer area excluded from M type and previous cut. Low quality; misc. spp includes: YB, WS, BF														
13	P 2	F 2	6	23	2	0	58	balsam poplar & swamp aspen and swamp white birch	old growth (potential or actual)	N		30-39 years	0	
comnts Fmd : SCA NOT MUCH NATURAL REGEN. CHK IN 10 YEARS. 2000: Not field checked this cycle. 2010: T. sale #010-85 "Yellow Submarine Block" (U2,3) - cut winter, 1986 (access through private lands). Proposed as old growth last entry - remove designation. Stand contains small acreage, but could still be treated in the future as long as Sawmill Creek buffer is retained and private landowner grants access. Possibly negotiate a sale when private landowner treats their land. Mix of aspen and spruce/fir ~ 20-30 ft heights; some WP regeneration noted - mixed stand composition is acceptable. Soils are Emmett-Escanaba. 2000 YOE: stand 9														
Wld : SCA-Potential Old Growth Stand along Sawmill 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.														
14	C 6	C 1	8	77	8	160	30	cedar	old growth (potential or actual)	N		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Cedar or Hemlock cutting restraints														
Too wet														
Inadequate volume due to small acreage														
Potential or designated old growth														
comnts Fmd : SCA - adjacent riparian corridor and cedar restraints. Very well-stocked. Soils are Crosswell-Deford. 2000 YOE: stand 12														
Wld : SCA-Potential Old Growth Stand along Sawmill 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.														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
15	E 6	F 1	20	101	8	90	55	swamp hardwoods	old growth (potential or actual)	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Potential or designated old growth														
comnts Fmd : SCA: extension of riparian corridor; natural processes may be used to manage site, due to vernal areas. 2000:Swale areas are Q but a lot of upland in this stand contains cedar, hardwood, fir and some Hemlock. Ash too large and mature to core so used a fir for site index. 2010: Quite a bit of PB in stand also. Soils are Crowell-Deford. 2000 YOE: stand 15														
Wld : SCA-Potential Old Growth Stand along Sawmill 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.														
16	Q 6	Q 1	23	98	9	110	30	mixed swamp conifer	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Cedar or Hemlock cutting restraints														
Too wet														
Inadequate volume due to low stocking/small diameter/etc.														
comnts Fmd : 2000: W SIDE GOOD FIR CEDAR EAST. SMALL POOR CEDAR mixed with Balm, fir etc. throughout. Small patch of fir can be harvested next cycle when adjacent stands are cut. Some patches of fir mortality esp. west edge. Stand fades to Q ecotone. 2010: Mix of lowland conifers and M/E type as stand transitions to upland. Old F stand (stand 70) included here. Soils are Carbondale-Tawas. 2000 YOE: stand 13,70														
17	M 6	F 1	45		10	80	60	northern hardwood	unevenaged	N		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Inadequate volume due to low stocking/small diameter/etc.														
comnts Fmd : THINNED PERMIT 20-92-01 "Sawmill Creek Sale". 2000: Areas of big gaps. Some regen 4' in spots but mostly rubus. Most of stand good quality but some spots poorly stocked with poor trees. Wildlife will underplant Hemlock. 2010: Numerous overmature snag trees. Regeneration is mainly ironwood. Wildlife WP hand planting (FTP W32-620) completed 6/2004 - no regeneration noted (~ 1 foot snow-covered ground). Soils are Shoepac-Ensley. 2000 YOE: stand 14														
Wld : 2000: MESIC CONIFER INTERIM GUIDELINE - UNDERPLANT HEMLOCK.														
18	A 1	X 0	2	18	2	0	56	aspen (upland)	sparse	N		not scheduled	0	
comnts Fmd : A1 10' tall cut for a wildlife opening, mostly grass and rubus. 2010: Stand still open. Soils are Shoepac-Ensley. 2000 YOE: stand 65														
19	A 6	F 1	2	30	6	80	70	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : 2000: CUT IN 1980 WITH STAND TO EAST (C. 77). 4-6" average dbh, almost A6, some 2-3 stick. Sparse area in center of stand. 2010: Treat stand with C. 77 stand 58 when prescribed (part of t. sale #17-73A). Soils are Shoepac-Ensley. 2000 YOE: stand 17														
20	Q 6	Q 1	6	76	8	80	38	mixed swamp conifer	immature	N		20-29 years	0	
<u>Treatment Limiting Factors:</u>														
Cedar or Hemlock cutting restraints														
Too wet														
Inadequate volume due to low stocking/small diameter/etc.														
comnts Fmd : 2000: Stand not visited this entry period. 2010: Mix of lowland conifers (fir, spruce, H) and M/E type as stand transitions to upland. Soils are Charlevoix-Ensley.. 2000 YOE: stand 16														
21	A 2	F 1	14	22	3	0	56	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : 2000: Some sparse areas with patches of fir and aspen. Lowland areas have alder, upland has raspberry. Mostly medium stocked 2-3" A2 with fir in patches. 2010: T. sale #010-85 "Yellow Submarine Block" (unit 1) - cut W, 1987. Low ground and wet areas. More of a F2 on the north side of road and A in patchy clones, south side tends to be more pure A. Some cherry within, which has black knot. Soils are Sagola-Rubicon. BF averages 16 - 30' hts and aspen ~25 - 30'. 2000 YOE: stand 23														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	B	Tot. BA							
22	C 6	F 1	387	100	7	110	30	cedar	immature	N		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Cedar or Hemlock cutting restraints														
Too wet														
Influence zones														
comnts Fmd : 2000: Mostly Cedar poor quality in center of stand but mix of species. Stream in SE part. 2010: Agree with last entry comments. Areas visited were browsed to ~5 - 6' hts (cedar ~40-50' tall). Old ice trails are brushed in with tagalder and small BF (6 - 10' hts). No real cedar regeneration noted. Dead, flooded cedar in the SE portion at old ice road x-ing (beaver activity at adjacent pond?). Soils are Carbondale-Tawas. 2000 YOE: stand 34														
23	M 6	M 1	12		9	100	60	northern hardwood	unevenaged	N		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Inadequate volume due to small acreage														
Neighbor														
comnts Fmd : M6 DEAD ELM AREAs. 2000: Only fair quality but good in small wood. Thin when adjacent aspen is cut. 2010: Part of t. sale #17-74 - cut 1974-76 (only removed A, large WS and BF). Should treat with adjacent aspen when harvested (stand 24). 2000 YOE: stand 18														
24	A 6	A 1	44	33	9	80	60	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : A6 CUT 1977 (T. sale #17-74). 4-5 stick trees mostly well-stocked. Some sparse areas, and stand now includes several small G areas. Treat adjacent M type when cut. 2000 YOE: stand 19														
25	A 3	F 1	65	7	1	0	64	aspen (upland)	immature	N		40-49 years	0	
<u>Treatment Limiting Factors:</u>														
Adjacent landowner denies access														
comnts Fmd : Sale cut under permit # 013-02-01 "Trails End Aspen" - cut summer, 2002. New access road was created (and bermed) for harvest, due to denied private access. Some balsam poplar within, as well as a few low areas, swales, scattered residual spruce, and interior S/C retention patch. Some black curled/dead leaders noted on aspen. Regeneration is now ~ 10 - 20' in height. 2000 YOE: stand 20														
26	M 6	X 0	4		9	80	64	northern hardwood	unevenaged	N		20-29 years	0	
<u>Treatment Limiting Factors:</u>														
Neighbor														
comnts Fmd : POOR HDWD. Selectively cut under permit # 013-02-01 "Trails End Aspen" (Unit 1) summer, 2002. Mainly sugar maple; lots of clumps/forked trees yet, stain and other defects. No regeneration noted, except for some ironwood. Leatherwood present. No Wildlife underplanting completed?? 2000 YOE: stand 22														
Wld : 2000: MESIC CONIFER INTERIM GUIDELINE - UNDERPLANT HEMLOCK.														
27	L 0	L 0	13		0	0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Tagalder, willow, ash, dead PB. Soils are Cathro-Ensley. 2000 YOE: stand 36														
28	A 3	F 1	57	25	4	0	67	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : T. sale #026-82 "Sawmill Creek" (unit 1) - cut summer, 1984. Contains retention patch w/A,P,B,M - hazelbrush. Also includes G types (former stands 402,403). Hypoxylon present. Aspen ranges from 3 - 6" dbh. Soils are Shoepac-Trenary. 2000 YOE: stand 24														
29	M 6	X 0	33		9	120	50	northern hardwood	unevenaged	Y	selection	within 0-9 years	3	
<u>Treatment Limiting Factors:</u>														
Road needed (resources not presently available)														
Inferior quality														
Regeneration technology inadequate														
comnts Fmd : THINNED 1983-84 (T. sale # 023-80). NO NEED FOR THIN THIS CYCLE. 2000: Only fair quality. Sparse dead elm areas.wet area in center. Stand has poor access. 2010: Access to stand has deteriorated since last entry - old ice road X-ing drainage has been flooded, and surrounding cedar is now standing dead up to this point. Not sure if even winter access will be feasible. Stand has little to no regeneration since last cut; too much deer pressure? This is a main factor in limiting treatment. Lots of defects in the hardwood. Cedar, YB, beech, basswood all noted within stand. 2000 YOE: stand 27														

* 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								
30	A 3	F 1	18	25	4	0	65	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : CUT 1984 (T. sale #023-80) .3"DBH,30"TALL.WELL-STOCKED.2000: Some Balm areas. Wet areas have F2F1+ alder,willow,etc. Residual M in areas. 2010: A/P now ~ 38 - 45' hts. Soils are Shoepac-Ensley. 2000 YOY: stand 28														
31	A 4	A 2	10	26	4	10	65	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : CUT 1983 - T. sale #026-82 "Sawmill Creek" (Unit 4). 1"DBH TO 15"TALL.WELL-STOCKED MOST AREAS. 2010: Fairly thick F regeneration, A in clones with patchy distribution. Some flooding from adjacent N/Z type occurring. Soils are Shoepac-Ensley and Croswell-Deford. 2000 YOY: stand 30														
32	N 0	N 0	12		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : beaver pond on small creek and surrounding low ground, flooded timber. 2000 YOY: stand 68														
33	M 6	X 0	18		10	100	74	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : THINNED 1984 (#026-82 - Unit 2). No regen. Grass mat. Nice quality but some low forks, canker etc. Gaps have no trees. Thinned again 2004, LaFleur Logging contract #14-02-01 "Sawmill West Hardwood". 2010: Still no regeneration noted. Wait one more cycle to thin. 2000 YOY: stand 26														
34	A 4	A 3	29	25	5	20	62	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : 2000: CUT 1983-84. Almost A6 4" average well-stocked. 2010: T. sale #026-82 "Sawmill Creek" (unit 3). Some ironwood, PB within; 6 - 10' BF in understory, hazel. Soils are Shoepac-Trenary. 2000 YOY: stand(s) 25,31														
35	M 6	X 0	19		10	100	74	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : THINNED 1984 (#026-82 - Unit 2). No regen. Grass mat. Nice quality but some low forks, canker etc. Gaps have no trees. Thinned again 2004, LaFleur Logging contract #14-02-01 "Sawmill West Hardwood". 2010: Still no regeneration noted. Wait one more cycle to thin. Soils are Shoepac-Trenary. 2000 YOY: stand 26														
38	A 6	X 0	11	43	9	80	65	aspen (upland)	immature	N	final harvest	within 0-9 years	3	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : WELL-STOCKED Aspen 4-stick average. 2010: Stand is scheduled now in order to treat with adjacent compt (C.75 stand 25) when it is prescribed for treatment in 2018. Otherwise, treatment can be delayed one more cycle. Stand also includes G type (old stand 401). 2000 YOY: stand 35														
39	L 0	L 0	8		0	0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Alder. 2000 YOY: stand 75														
40	P 4	L 2	14	85	6	30	30	balsam poplar & swamp aspen and swamp white birch	sparse	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet Inadequate volume due to low stocking/small diameter/etc. Harvesting technology inadequate														
comnts Fmd : LOW,WET,NON-MERCH. AREA 2010: Mixed aspen includes quaking and balsam poplar. Stand includes patch of spruce/fir, and occasional C, T. S/F anywhere from 10 - 40' in height. Soils are Shoepac-Ensley and Carbondale-Tawas. 2000 YOY: stand 38														
41	A 3	X 0	57	13	2	0	65	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : 2000: Area treated under timber sale # 021-92-01 "Trails End Block (unit 1,2,4) - cut fall, 1996. 1" dbh average well-stocked. 2010: Some residual SM, small BF/S, ash swale, and old G type (stand 409) within. Scattered patches left (retention) of S/F - various heights. Aspen ranges in heights from 24 - 45'. 2000 YOY: stand 40														

* 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								
42	Q 6	F 2	31	104	8	70	70	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Potential or designated old growth Influence zones</p> <p>comnts Fmd : SCA - Riparian corridor for Escanaba River. MIXTURE OF EVERYTHING ON BANK OF ESC RIVER. Mostly F type with aspen harvested occasionally by Beaver. 2010: Aspen is dying out and/or being removed by beaver. Quite a bit of blowdown in stand. Various sizes and heights of S/F. Camping spot just off roadway at bend in the river. Mixed softwood includes: BF, BS, WP. Some PB and RM noted also, esp. near river edge. Soils are Sundell and Nahma muck. Keep SCA designation. 2000 YOE: stand 41</p> <p>Wld : SCA-Potential Old Growth Stand along Escanaba River. 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>														
43	Z 0	Z 0	20				0	water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Escanaba River and Big West branch. 2000 YOE: stand 72</p>														
45	Q 6	F 3	27	83	8	80	40	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Potential or designated old growth Influence zones</p> <p>comnts Fmd : SCA: Riparian Zone to protect - steeper slopes determine boundaries. ADJOINS ESCANABA RIVER. Some areas of Upland types but most lowland, however real mix of species and types. (old stand 74 comments):Spruce-fir seeding in former open area. Seedlings and saplings up to 20 feet tall with some larger. Some sparse areas of grass. 2010: Well defined slope edge dropping to river at north end of stand; south transition is more gradual, and includes old G type (stand 414) with bracken, sedge, grasses, WS/BF, cherry and old F type (stand 74) with both WS, BF, 3 - 5" dbh and 30 - 40' heights. NOTE:** Upland aspen at north end could be harvested, but is too small to type out - should be OK to treat with adjacent comp't (65), if need be and when scheduled, while still retaining main riparian buffer.** Illegal ORV trails can be found running north to south along slope and then down to river edge. Keep SCA designation for river buffer and visual mgmt. Camp spot can be found right on rivers' edge/confluence. Soils are Nahma-Sundell. 2000 YOE: stand(s) 46,74,414</p> <p>Wld : SCA-Potential Old Growth Stand along Escanaba River. 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>														
46	M 6	F 1	6			7	70	53	northern hardwood	unevenaged	N	20-29 years	0	
<p>comnts Fmd : POOR QUALITY,SMALL. 2000: Steep slope west side towards River. Thick Fir regen. in areas. Stand cut Oct,Nov, 2004 C.J. logging permit #11-02-01 "North Confluence Sale" (unit 1) with part of stand in C .65. 2010: Residual hardwood with stain, seams, crook; snags and large woody debris noted . Not much for regeneration (mostly ironwood), but some established 2-3 "dbh M, 25 -30' in height, in places. Treat with adjacent C. 65 whenever prescribed again. Soils are Emmett-Escanaba. 2000 YOE: stand 47</p>														
47	M 6	F 1	2			7	100	60	northern hardwood	old growth (potential or actual)	N	not scheduled	0	
<p>comnts Fmd : SCA: riparian buffer and corridor - small dispersed camping site. Small patch of hardwood near confluence of river and west branch. Cedar and Hemlock mixed throughout but mostly hardwood and upland. 2010: Cedar fringe to stand and some within. Maple with crook, stain, forks, seam - very low quality. Not much regeneration at all; what little there is is ~ 3 - 4" dbh and 40' tall. Quite a bit of woody debris on ground - large YB, H noted. Campsite on river is accessed through this stand. Soils are Evart-Pelkie-Sturgeon complex. Maintain SCA designation. 2000 YOE: stand 48</p> <p>Wld : SCA-Potential Old Growth Stand along Escanaba River. 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>														
48	A 6	F 1	22	55	9	70	52	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : A6F5A2,PATCHES OF A3, F2 and sparse areas.Variable age. 2010: Aspen is in decline and starting to break up - treat now. Was held for diversity last entry. Fairly open-grown spruce within - may be possible to leave some, as well as any cherry within stand. A few maple clumps noted. Hazel underbrush present. Soils are Nadeau-Mancelona. 2000 YOE: stand 45</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. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
49	M 6	X 0	18	18	9	80	60	northern hardwood	unevenaged	N		20-29 years	0	
<p>comnts Fmd : ASP CUT OUT 1971.GRASS GROUND COVER. 2000: No regeneration. Good access. Wildlife will underplant Hemlock. Cut under permit #32-012-02-01 "Motorhead Sale" (unit 1) sept 2005 by Giguere(Benard). 2010: No W/H noted in understory (~1 foot snow on ground, though). Retention patch/spps within and on edges (scattered S/F, aspen clone, cherry, cedar). Still no hardwood regeneration present. Soils are Emmett and Paquin-Finch. 2000 YOE: stand 42</p> <p>Wld : 12,000 hemlock seedlings and 250 white pine seedlings were planted within the Motorhead sale boundary (#32-012-02) in May, 2006. Stands 32 and 42 within this compartment make up the sale area. The planting rate was approximately 454 seedlings/acre.</p>														
51	A 6	X 0	2	39	8	100	63	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : A3 6" DBH.WELL-STOCKED,CUT 1971. 2010: Small stand which could be harvested now, if desired, otherwise cut next entry at rotation age. Previously cut under sale #012-69 with A,P, WS >12" and BS >8" removed. Stand contains a few scattered mature BF/S and some clumps (which could be retained when harvested). Ground cover noted includes leatherwood, hazel. 2000 YOE: stand 44</p>														
52	Q 6	S 1	4	150	8	90	25	mixed swamp conifer	low quality	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too wet Cedar or Hemlock cutting restraints</p> <p>comnts Fmd : Poor timber quality. 2010: with hemlock; snags. Serves as nice retention patch of lowland conifers, which joins private Q6/C6 type also - low and wet. Soils are Paquin-Finch. 2000 YOE: stand 43</p>														
53	A 3	X 0	21	13	2	0	62	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Area treated under timber sale # 021-92-01 "Trails End Block" (unit 3) - cut 1996. A3 10' tall well-stocked. 2010: A3 now 20 - 30' hts; stand also contains some S, F WP, elm. Low type contained within stand, as well as an intermittent creek/drainage, which feeds out of stand 52 towards Escanaba River. 2000 YOE: stand 53</p>														
54	M 6	M 1	24	8	80	65		northern hardwood	unevenaged	N		20-29 years	0	
<p>comnts Fmd : T. sale #023-83 - select cut Fall, 1983. 2000: Well-stocked small trees, Good quality. Thinned Sept, 2005 Giguere (Benard) permit #32-012-02-01 "Motorhead Sale" (units 2,3,4). 2010: Aspen leave trees and edge inclusions left for retention/diversity within stand. Rolling terrain. 2000 YOE: stand 32</p> <p>Wld : 12,000 hemlock seedlings and 250 white pine seedlings were planted within the Motorhead sale boundary (#32-012-02) in May, 2006. FTP # W32-660. Stands 32 and 42 within this compartment make up the sale area. The planting rate was approximately 454 seedlings/acre.</p>														
56	A 5	X 0	4	38	7	60	70	aspen (upland)	two aged	N		10-19 years	0	
<p>comnts Fmd : A3 4"DBH CUT 1971. 2000: Almost merchantable. 2010: Stand includes roadway corridor. North end of stand contains larger diameter aspen (both BTA and QA), which was treated in 1971 - southern portion was set up as sale #023-83-2 and cut in the F/W, 1983 (part of G improvement?). The aspen here is now 6 - 8" dbh. Some ironwood and small BF present. Some hypoxylon and breakage visible. Treat next entry, or when adjacent hardwood stand is thinned again. 2000 YOE: stand 29</p>														
58	M 6	M 2	1	8	90	64		northern hardwood	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : SCA: riparian buffer, visual. THINNED PERMIT 22-92-01. 2010: Maple with lots of defects, clumps; regeneration ironwood. Not a high quality stand. Contains SM, BC, basswood, aspen. Soils are a mix of Emmett-Escanaba, Onaway-Nadeau, and Nadeau-Mancelona. Nominated as old growth SCA last entry; not really needed, as long as riparian and visual guidelines are followed - suggest removing designation. 2000 YOE: stand 37</p>														
59	R 6	S 1	3	37	9	200	65	red pine	immature	Y	thinning	within 0-9 years	3	
<p><u>Treatment Limiting Factors:</u> Inadequate volume due to small acreage</p> <p>comnts Fmd : SMALL RED PINE AREA PLANTED FOR POSSIBLE FUTURE CAMPGROUND. Some low forks. Possible to thin next cycle probably. 2010: Not much volume here for a marketable sale, but stand could use thinning. (Negotiate?) Also includes some intermixed A , which will help provide access through pine if it is cut at the same time. RP seedlings were hand planted at both 6x8 and 8x8 spacing, it appears. Rows can be identified, but since acreage is so small, each RP to cut should be marked. Mark for visual, (future recreation?), rather than for timber production. Stay out of adjacent WS, which was also planted at the same time. 2000 YOE: stand 51</p>														

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

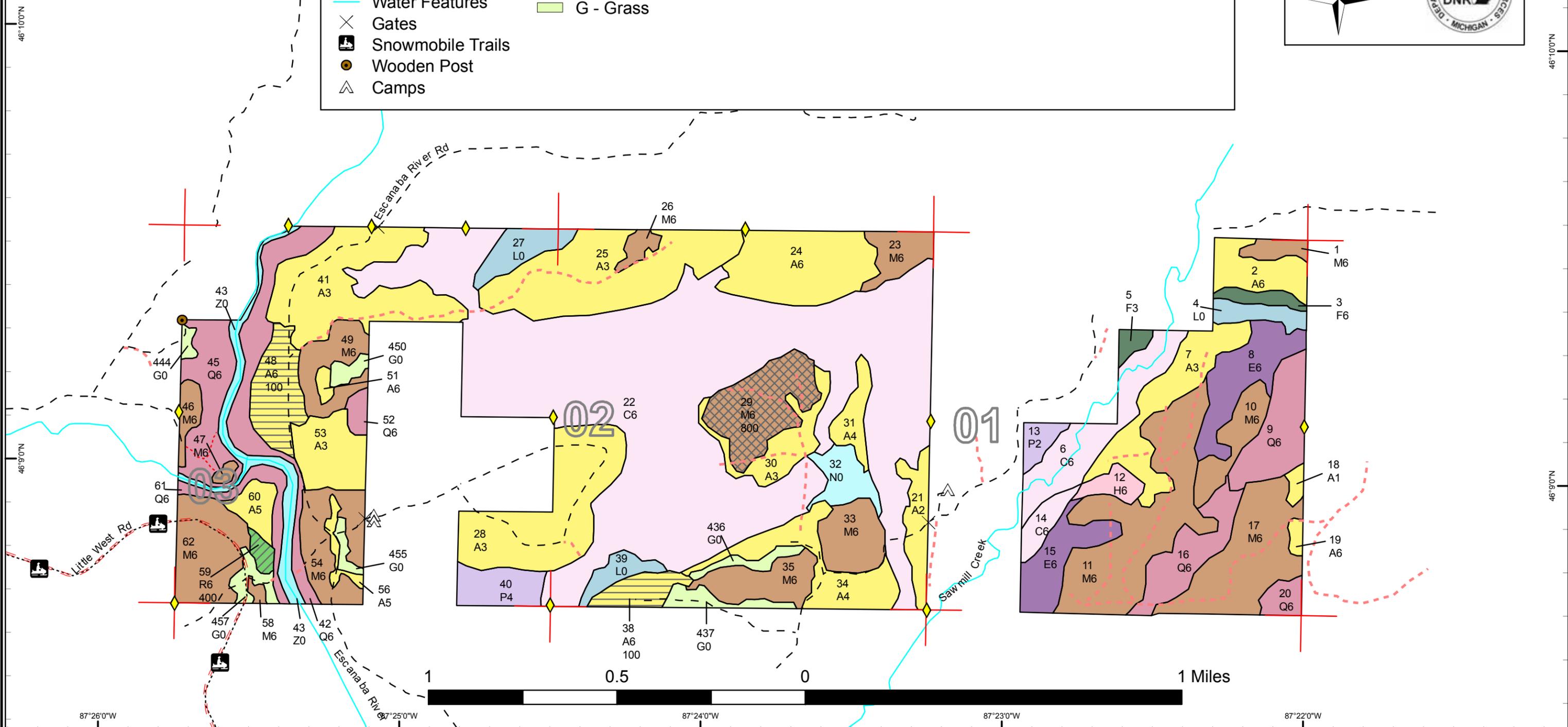
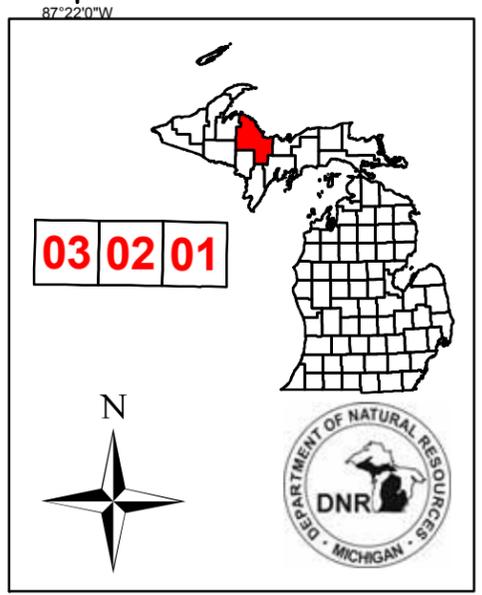
Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
60	A 5	F 2	8	71	9	60	62	aspen (upland)	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Potential or designated old growth Influence zones</p> <p>comnts Fmd : SCA - Riparian corridor - no treatment within limits defined by Fisheries Division for Escanaba River. Aspen is 3-5 stick. Thick 1-2 stick fir understory. Sparse areas of aspen have thick fir regen. North part of stand more open with upland brush but overall well-stocked. 2010: Same comment as last entry. More dead BF, A now. Mixed spp include black ash, red maple. Nominated for SCA last entry - not sure if needed, as long as riparian guidelines are followed. Stand could be treated, but wet soils (floodplains) will create difficulties. Soils are Evert-Pelkie-Sturgeon complex. 2000 YOE: stand 49</p> <p>Wld : SCA-Potential Old Growth Stand along Escanaba River. 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>														
61	Q 6	F 2	10	94	7	70	40	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Potential or designated old growth Influence zones</p> <p>comnts Fmd : SCA - riparian buffer for Escanaba River and Big West Branch. Numerous non- merchantable elm, black ash stems with occasional PB, A, RM. Cedar along river, also S/F. Soils are Evert-Pelkie-Sturgeon complex. 2000 YOE: stand(s) 50,73</p> <p>Wld : SCA-Potential Old Growth Stand along Escanaba River. 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>														
62	M 6	M 1	30		9	90	64	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : THINNED PERMIT 22-92-01 "Confluence Block" - Fall, 1994. Good quality but no regeneration. 2010: Still no regeneration -some ironwood (too much deer pressure?). Leatherwood present. Occasional BC, WS within. Soils are Emmett-Escanaba. 2000 YOE: stand 52</p>														
436	G 0	G 0	5			0	60	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Shoepac-Trenary soils. 2000 YOE: stand 400</p>														
437	G 0	G 0	7			0	60	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Shoepac-Trenary soils. 2000 YOE: stand 400</p>														
444	G 0	G 0	2			0	60	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Bracken fern, sedge, grasses - some S/F encroachment. Soils are Emmett-Escanaba. 2000 YOE: stand 415</p>														
450	G 0	G 0	3			0	64	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Contains some S/F. 2000 YOE: stand 412</p>														
455	G 0	G 0	3			0	50	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Some encroachment of S/F, A; cherry, raspberry brush. 2000 YOE: stand 413</p>														
457	G 0	G 0	6			0	66	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Opening near Escanaba River - small campspot at edge. Some cherry, F/S, grasses and bracken fern. Soils are Emmett-Escanaba and Onaway-Nadeau. 2000 YOE: stand 411</p>														
<p>Total Acres..... 1442</p>														

Compartment 76
 T43N, R25W, Sec. 1, 2, 3
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 1,442 GIS Calculated
 Stand Examiner: Theresa Sysol
 Map Revised: 8/27/2010
 Map Phase: Pre-review

Coverture & Treatment Map

Legend

- | | | |
|----------------------------|----------------------------|---|
| ◆ Rls Corners | □ Stand Boundary | ■ H - Hemlock |
| — Miris Corners | ▬ 100 - Final Harvest | ■ L - Lowland Brush |
| == County Gravel Roads | ▨ 400 - Thinning | ■ M - Northern Hardwoods |
| - - Poor Dirt Roads | ▩ 800 - Selection | ■ N - Marsh |
| - - - Closed Roads | ■ A - Aspen | ■ P - Balsam Poplar, Swamp Aspen, Swamp White Birch |
| ⋯ Trails | ■ C - Northern White Cedar | ■ Q - Mixed Swamp Conifers |
| - · - · Illegal ORV Trails | ■ E - Swamp Hardwoods | ■ R - Red Pine |
| — Water Features | ■ F - Upland Spruce or Fir | ■ Z - Water |
| × Gates | ■ G - Grass | |
| 🚙 Snowmobile Trails | | |
| ● Wooden Post | | |
| △ Camps | | |



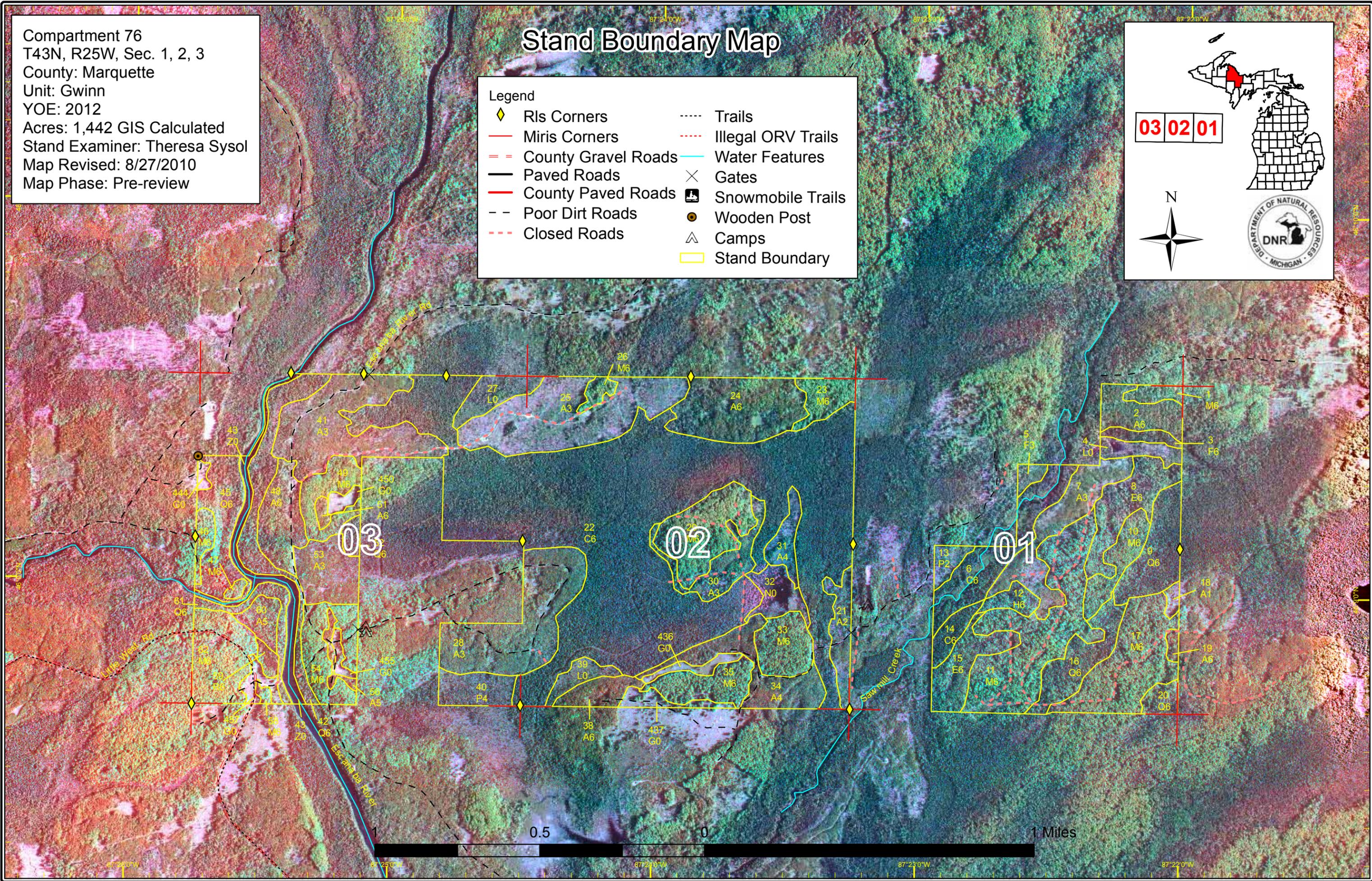
Compartment 76
 T43N, R25W, Sec. 1, 2, 3
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 1,442 GIS Calculated
 Stand Examiner: Theresa Sysol
 Map Revised: 8/27/2010
 Map Phase: Pre-review

Stand Boundary Map

Legend

- | | |
|------------------------|----------------------------|
| ◆ RIs Corners | ----- Trails |
| — Miris Corners | - - - - Illegal ORV Trails |
| == County Gravel Roads | — Water Features |
| — Paved Roads | × Gates |
| — County Paved Roads | ⊞ Snowmobile Trails |
| - - Poor Dirt Roads | ● Wooden Post |
| - - - Closed Roads | △ Camps |
| | □ Stand Boundary |

03 02 01



Compartment 76
 T43N, R25W, Sec. 1, 2, 3
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 1,442 GIS Calculated
 Stand Examiner: Theresa Sysol
 Map Revised: 5/19/2010
 Map Phase: Pre-review

Dedicated & Proposed Special Conservation Area Map

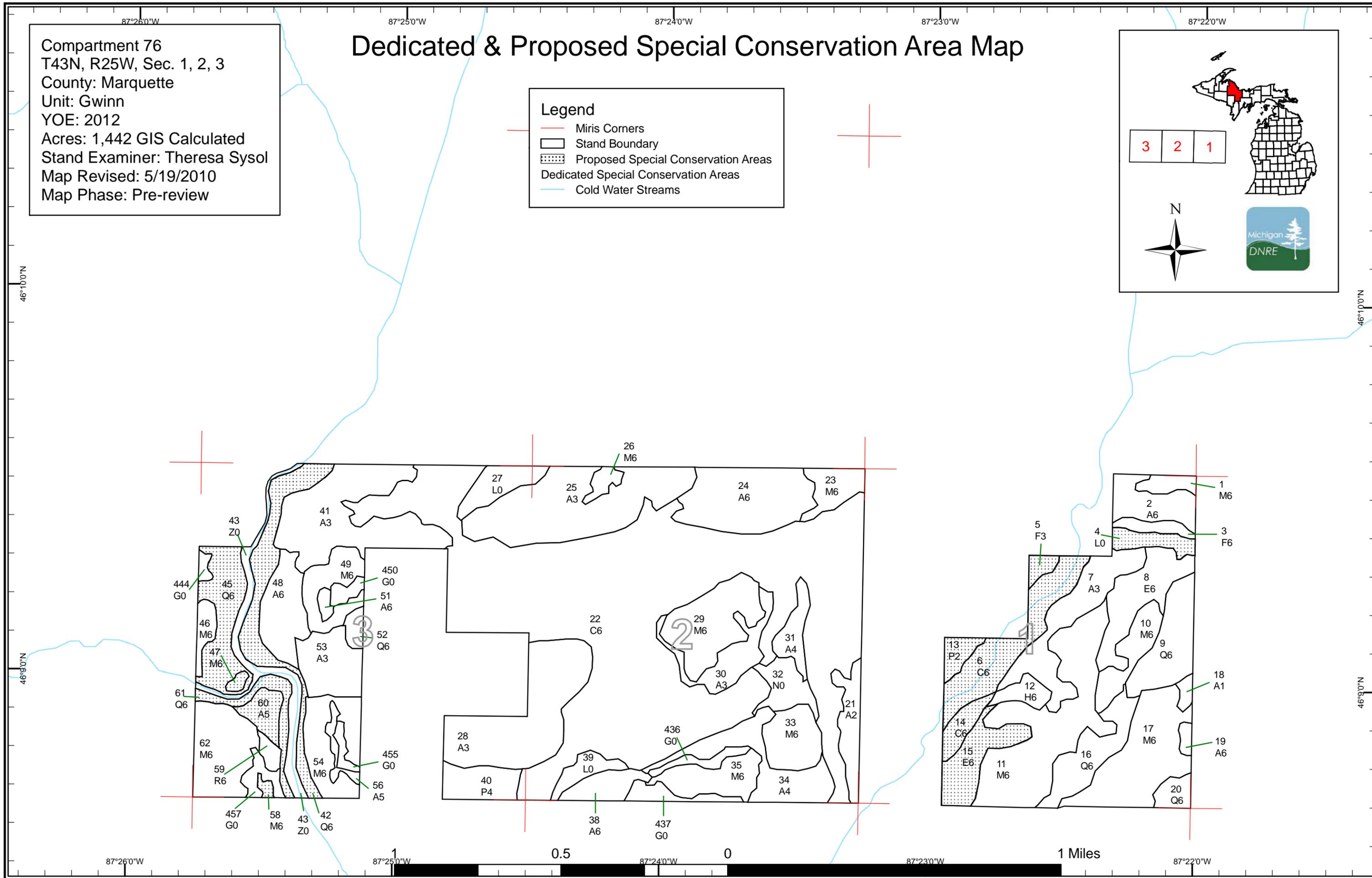
Legend

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



3 2 1







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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.