



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 230 ENTRY YEAR: 2007

Compartment GIS acres 1379 County: 52 Marquette

Revision Date: 08/19/2005

Stand Examiner: Warren J Heikkila

Legal Description: T45N, R28W, Sec. 09, 10, 15, and 16 .

Management Goals: For the 10 yr. period beginning in 2007, we will strive to perpetuate or increase the component of oak, birch, and dry, mesic conifers in a non-plantation setting, where they now occur.

Soils and topography: Ranging from relatively level creek bottoms, swamp conifer, tag alder, and bog/marshlands, to upland which is only rolling to slightly hilly. Generally good logging chance throughout with exception of need for winter frozen road access at times.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership here is intermixed with relatively small private forest holdings, mostly non-industrial private owners with recreational objectives. An exception is the Michigan Northwoods Club with holdings of approx 10,000 acres bordering this compartment on the east. In addition to being a hunting club, they actively manage their forest resource with professional advisement and management. Development is very limited with a few seasonal cottages or hunting camps widely distributed. Production of forest products along with low key recreational activities such as hunting, mushroom & berry picking, trapping, and snowmobiling make up the land uses here.

Unique, Natural Features (include only non-site specific and non-sensitive information): The headwater tributaries for both the Wild West Creek and the Camp Eleven Creek have their origins in this compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): Historically, sharptail grouse habitat was managed in this compartment. The “pine days” logging left behind in addition to a legacy of pine stumps, a network of old railroad grades and spurs interconnecting to lead to the mills of the Escanaba/ Menominee area. “Ike” Stephenson was the foremost figure in the pine logging here and a private purchase of cutover land from his estate in the 1920’s became the present day Michigan Northwoods Club.

Special Management Designations or Considerations: Potential Biodiversity Management areas consists of stands 17, 18, 19, 26, 35, 36, 52, and 66.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions:

Compartment 230 Sections 9, 10, 15 & 16, T45N-R28W, Marquette County

Surface sediments consist of coarse-textured glacial till, glacial outwash sand and gravel and postglacial alluvium and peat and muck. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a dimension stone. Gravel pit are not located in the area, but there may be some potential. The abandoned Republic iron mine is located ten miles to the northwest. Section 16 was previously leased for metallic exploration and active leases are located one mile to the northwest. There is no economic oil and gas production in the UP.

Vehicle Access: County Road CAA (the Flat Rock Road) is the primary access from the north, leading eastward to Co.Rd. 581 and US-41, or westward to M-95. Interior smaller two track, narrow roads complete the access network. Most of these are in need of gravel and upgrading when budgets allow. Temporary roads are established for timber removal, but these are bermed, and often seeded for wildlife, or obliterated following timber sale completion.

Survey Needs: A survey request has been made to establish registered corners in Sec 10 at coded locations: G4, G5, F5, and interior locations #10 in Sec 10 and #2 in Sec 15.

Recreational Facilities and Opportunities: Only low key recreational opportunities for activities such as hunting, trapping, snowmobiling, mushroom & berry picking, etc. exist in this compartment.

Fire Protection: This compartment is included within the “581 Zone Dispatch” area which provides for a pre-planned dispatch of specified fire equipment from within the Gwinn and Crystal Falls Mgt. Units, dependent upon the severity of forecast burning conditions for a specific day. Areas of jack/red pine cover types with the encroachment of recreational seasonal and/or residential dwellings have warranted this pre-planning. Mutual aide agreements with local volunteer fire departments also provide critical fire suppression response, especially in the area of structural fire and/or protection, and evacuations.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 230

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	313																										313
S Black Spruce		60																									60
C Cedar				16																							16
G Grass					276																						276
J Jack Pine					22		69									4											95
L LowInd Brush									58																		58
P LowInd Poplr										52																	52
N Marsh											1																1
Q Mx Swmp Cnfr												164															164
O Oak														29													29
B Paper Birch															98												98
F Spruce Fir																			14								14
T Tamarack																					37						37
D Treed Bog																						57					57
U Upland Brush																								6			6
M Upland Hdwds	6																							95			101
Z Water																									2		2
Total	319	60		16	298		69		58	52	1	164		29	98	4			14		37	57	6	95	2	1379	

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **230**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

TOTAL VOLUME		CUT VOLUME	
Hardwood	7308 Cds	Hardwood	1822 Cds
Hardwood	156 Mbf	Hardwood	4 Mbf
Softwood	4844 Cds	Softwood	1197 Cds
Softwood	33 Mbf	Sum CutVol	3027 Cds
Sum TotVol	12530 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1379		151	

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 230 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	PDF Status
5	B6	63	66	65	paper birch	mature	seed tree	1		
<p>comnts Fmd : Stand is generally located on a rather low east-west ridge. Leave all oak as well as marked birch seed trees. Require logging when the ground is unfrozen & snow free for better scarification. Also cut all maple 2 inch & larger in diameter at DBH. Follow commercial logging with disk trenching by Dept. skidder. This is warranted because the adjacent stand #30 to the east was not successful for birch regeneration, thus we need to try something different to encourage birch regeneration. Southwest end of stand is heavier to maple and hazel brush with numerous old white pine stumps (no seed source remains for white pine). If birch regeneration proves to be unsuccessful, we will accept a new stand that in addition to the 20 sq.ft/acre of oak residual, contains an adequate stocking of red maple and aspen, and possibly a trace component of conifer (pine, fir, etc.). Also, at our Mini-review held on 9/14/05, Mike Koss suggested that planting white pine in this stand is also an acceptable alternative if birch is unsuccessful here. Jim Ferris said that with the disk trenching operation, we are most likely to establish a good stocking of oak here, which is of course acceptable as an alternative and even preferable over planting white pine if stocking of oak is adequate.</p> <p>Wld : Located in the SW1/4 of Sec 10, NWNW of Sec 15, and NENE of Sec 16.</p>										
10	J6	14	69	63	jack pine	high risk	final harvest	1	direct seeding	
<p>comnts Fmd : Some red pine present on northern fringe - save red pine. Access from the west off Camp Hope Rd.</p> <p>Wld : Located in the E1/2NW &NWNE of Sec 16, north of swamp.</p>										
15	Q6	28	90	37	mixed swamp conifer	mature	final harvest	1		
<p>comnts Fmd : We will leave all cedar per Wildlife Division policy. Also, provision will be made to ensure an adequate seed source is left for spruce & tamarack, eg. Leaving smaller merchantable trees by stump diameter limit, making patch clearcuts of larger trees, or leaving individual or patches of marked seed trees. Stand is sparse in places, thus we need to have some flexibility in actual layout of sale area -- attempting to harvest those areas with larger conifer and heaviest stocking. A definite visible browse line exists on the cedar present.</p> <p>Wld : Located primarily in the SWSW of Sec 16.</p>										
25	F6	9	70	55	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1		
<p>comnts Fmd : The most practical option is to cut this stand with the adjacent State timber to the south (stand #1 - B6 in cmpt 238). This will be a 2008 yr of entry.</p> <p>Wld : Located in the SESE of Sec 15.</p>										
32	J6	3	67	65	jack pine	mature	final harvest	1	direct seeding	
<p>comnts Fmd : Patch of mature jack pine. Treat with either stand 10 or 5 for sale purposes. Both of these stands are scheduled for 2007 treatment.</p> <p>Wld : Located in the NWNE of Sec 16, north of swamp.</p>										
33	J6	4	40	65	red pine	immature	thinning	1		
<p>comnts Fmd : Stand was planted to red pine about 1965, with jack pine volunteers seeding in soon after (furrow rows oriented north-south). Jack pine now outnumber red pine, but red pine are of good form, etc. Thin stand in 2007 to benefit the red pine, leaving some jack pine also for optimum stocking of 60 sq.ft/A or above. Site index for red pine (70) exceeds that for jack pine (65). This stand will provide aesthetic benefits as seen from Camp Hope Road and this may be a reason it was originally planted here. I found a planting form No. 112 for machine planting red pine here in Oct. 1965.</p> <p>Wld : Located in the NWSW of Sec 16, east of Camp Hope Road.</p>										
47	J2	22	21	56	grass	immature		0	other - specify in remarks	
<p>comnts Fmd : Stand is variable at present, ranging from G to J3 in stocking (overall a J2 average). Averages 3 to 4 inch dbh, 12 to 20 ft tall. Parts of stand were roller chopped in past - marks still visible in the sod layer. The private forty west of this one has been cut recently (jack pine regeneration about 3 ft tall). Also I found corners of unknown origin (pipe, rebar, and/or steel fence posts) at three of the approx forty corners, and a registered corner exists at the Sec. Corner. I found a wildlife FTP #31-16 for roller chopping this stand (extending north into Sec 4) dated Nov 1978, - purpose was for sharptail grouse habitat. Note: at our 9/14/05 mini-review, wildlife expressed their desire to manage this stand for grass. Thus it should be prescribe burned, or as an alternative, mechanically treated to eliminate the existing jack pine stand.</p> <p>Wld : Located in the NENE of Sec 9. Note : this forty is bordered on the north by State (Cmpt 229).</p>										
49	B5	7	66	63	paper birch	mature	seed tree	1		
<p>comnts Fmd : Most of birch would be left for aesthetics here due to travel influence. Also the oak if any present. Small triangle of land north of Flat Rock Road was cut in 2001 as part of an adjacent sale (#106-01-01) in Sec 8 (Cmpt 231). It was subsequently disk trenched & seeded with jack pine, but no birch were cut during the timber sale. Oak, cherry, red & white pine were left as well. I believe it was trenched & seeded in 2003. The alternative acceptable management objective here is aspen - red maple.</p> <p>Wld : Located in the NWNW of Sec 16, mostly on east side of Camp Hope Road.</p>										

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 230 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
51	M6	7	48	56	northern hardwood	mature	final harvest	2		
<p>comnts Fmd : Stand occupies a small hill. Red maple is of stump sprout origin. Larger oak & birch present. All oak will be left. Hazel brush present also. Scarify or summer log to encourage oak regeneration. Stand adjacent to the west has been cut & oak was left. The portion of the stand north of the Camp Hope Rd. should be selectively cut for aesthetic purposes since it influences a small pond and bog.</p> <p>Wld : Located in the NWSW of Sec 16.</p>										
55	M6	6	6	60	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : Plots indicate maple dominant at this time, but aspen will comprise most of new stand after cutting. Leave a few birch & maple for aesthetics, plus leave all oak.</p> <p>Wld : Located in the NWNW of Sec 16, mostly west of Camp Hope Road.</p>										
63	A5	5	66	70	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : This stand is an older roadside buffer that was left in past treatments of this area. Cut with stand 5 for sale purposes. Leave a few birch/maple for aesthetics, plus all oak (if any).</p> <p>Wld : Located in the SENW & NESW of Sec 15.</p>										
68	J6	3	69	63	jack pine	high risk	final harvest	1	direct seeding	
<p>comnts Fmd : An island of high ground in the swamp.</p> <p>Wld : Located in the SWNE of Sec 16.</p>										
404	G0	24			grass	nonstocked		0	opening maintenance	
<p>comnts Fmd : Managed for sharptail grouse historically. Was prescribe burned and/or roller chopped at various times in the past (burned in 1964, chopped in 1979, 1983, and 1990). Also shrubs were planted along the southern edges in 1974, hawthorne, autumn olive, and Siberian crab. Per our mini-review held on 9/14/05, Wildlife would like this stand burned by prescribed fire. It is actually quite open at present and could be delayed for 10 yrs if needed. Also, mechanically treating this stand is an acceptable alternative to burning.</p> <p>Wld : Located in the N1/2SW & SWSW of Sec 10.</p>										
419	G0	17			grass	nonstocked		0	opening maintenance	
<p>comnts Fmd : Currently it has sparse jack pine regeneration present. Per our mini-review held on 9/14/05, Wildlife would like to have this stand prescribe burned, or mechanically treated as an alternative.</p> <p>Wld : Located in the NENE of Sec 9.</p>										
420	G0	121		60	grass	nonstocked		0	opening maintenance	
<p>comnts Fmd : Some sparse to medium stocking of natural jack pine regeneration already exists in patches here. Per our mini-review held on 9/14/05, Wildlife would like this stand burned by prescribed fire, or mechanical treatment is also an acceptable alternative to burning.</p> <p>Wld : Located in the SWNW, N1/2SW of Sec 10, and the NESE of Sec 9.</p>										
Total Acres.....		333								

GWINN FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 230 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
61	A5	2	68	58	aspen (upland)	mature	final harvest	3		

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : This parcel was made known following a 2003 survey when the 1/16th corner just west of the road was set. It was not cut in 1994 by Minerick's swamp sale in stand 24 because the Mich. Northwoods Club fenceline was in trespass on State land here.

Wld : Located in the SWSE of Sec 15, east of road.

Total Acres..... 2

