

Gwinn Forest Management Unit Compartment Review Presentation Compartment 251 Entry Year: 2009 Compartment Acreage: 1639 County: Marquette

Revision Date: March 25, 2009

Stand Examiner: Thomas Seablom

Legal Description: T46N R27W, Sec. 16, 17, 20 and 21

RMU (if applicable): None

Management Goals: Within this compartment, goals are to maintain and increase timber productivity, maintain and improve wildlife habitat and protect water quality. Timber types within this compartment will continue to be managed on an even-aged basis mainly for fiber production with some saw log production occurring on the more productive sites. Managing as such will provide both cover and feed for wildlife.

Soil and Topography: This area is flat to gently rolling; it is on the eastern edge of a larger sandy outwash plain. Soil makeup in this compartment is almost entirely Pence fine sandy loam. There is a small amount of Carbondale and Tawas soils present in the drainages.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership is primarily State with some private individual holdings scattered throughout. Two other larger land owners within the vicinity are Empire Mining Partners, Tilden and Empire mines immediately to the north, and the Michigan Northwoods Club to the south. Development is minimal, aside from the mines, with camps being on private land. Land use is consistent with that of State land, primarily hunting and fishing.

Unique, Natural Features: None.

Archeological, Historical, and Cultural Features: This area had been looked as a potential location for the Marquette Co. landfill.

Special Management Designations or Considerations: Stands along the Middle Branch Escanaba River have been listed as Special Conservation Area (SCA) for Potential Old Growth (POG). They should remain in this state to protect the habitat along the river corridor and to provide a buffer between the Empire Mine tailing basin and the river.

Watershed and Fisheries Considerations: Text

Wildlife Habitat Considerations: Text

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarsetextured till and glacial outwash sand & gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a dimension stone. Gravel pits are located in Section 16, and there should be potential. Abandoned iron mines are located three miles to the northeast. This area has not been leased previously for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Primary access to this compartment is via Co. Rd. PSB, Voelker Lake Rd. and Co. Rd. PS, Hemmings Lake Rd. Poor dirt roads network the remainder of the compartment providing access to individual stands.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: No recreational facilities exist and there is little opportunity for any.

Fire Protection: This compartment falls within the South Ishpeming-581 Zone dispatch area. There is good access throughout the compartment for all fire equipment. Vegetation is a mix of aspen, pine and upland brush/grass opening. Jack pine is the main timber species surrounding the compartment to the west and south with the majority of it being seedlings and saplings to mid-rotation pole timber.

Additional Compartment Information: None

- > 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: 251

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		33	71	233	264			6	100										707
Black Spruce										16									16
Bog or Marsh	12																		12
Grass	9																		9
Jack Pine		60	24	5	25				99										213
LowInd Brush	104																		104
Mx Swmp Cnfr										17				20					37
Paper Birch								19											19
Red Pine			25				216												241
Upland Brush	16			245															261
Water	20																		20
Total	161	93	120	483	289		216	25	199	33				20					1639

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

ESCANABA RIVER STATE FOREST				GWI	WINN FOREST MGT UNIT							MARQUETTE COUNTY					COMPARTMENT: 251										
													Т	able 3/	4												
			(a	acres s	shown i	in boxe	es)					MANA	GEMEN	IT OBJ	ECTIVE	Ε ΤΥΡΕ	I										
COVER TYPE	А	S	V	С	G	н	J	Ι	L	Ρ	Ν	Q	х	0	В	R	к	Y	F	Е	Т	D	U	М	Z	W	Total
A Aspen	707																										707
S Black Spruce		16																									16
V Bog or Marsh			12																								12
G Grass					ç)																					9
J Jack Pine							213	3																			213
LowInd Brush									104	ļ																	104
Q Mx Swmp Cnfr												37	•	1													37
B Paper Birch															19												19
R Red Pine							83	3								158	3										241
J Upland Brush							16	6															245				261
Z Water																									20		20
Total	707	16	12		9	9	312	2	104	ļ		37			19	15	В						245		20		1639

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 251

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY										
TOTAL \	/OLUME	CUT VO	DLUME							
Hardwood	4713 Cds	Hardwood	854 Cds							
Hardwood Softwood	32 MDf 6561 Cds	Softwood Sum CutVol	2117 Cds 2971 Cds							
Softwood	25 Mbf									
Sum TotVol	11388 Cds									
Total Cn	npt Acres	Acres Propose	ed For Cut							
163	9									

	GWI	NN FOF	REST	MGT UI	NIT	Proposed With NO Lim	Treatments iting Factors	Compartment: 251 Entry Year: 2011					
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status			
11	S6	16	87	35 b	lack spruce-swamp	o mature	final harvest	1					
comnts Fmd	: Cle all	arcut this cedar and	stand le any rec	eaving a 2 l or white	200 foot buffer aro	und the spring cre d setting up durin	ek and ponds. Cut g snow free condit	all balsam, r ions to identi	ed maple, birch, fy creek.	and any aspen. Leave			
16	U0	216	20	48	upland brush	immature		0	opening maintenance				
comnts Fmd	: Thi in I	s stand ha May 1989	ıs tradit	ionally be	een managed as par	rt of a sharptail gr	ouse area (Voelker	r Plains). It v	was roller chopp	ed in 1985 and burned			
Wld	: His clun for dese mix ope	torical sha nps of asp this stand cribes this ed pine. (nings and	urptail g ben, che via pres area w Current Wildlif	rouse ope rry brush scribed be ell with s ly this are e Divisio	ening located in wh , advanced upland urn to restore open pecific remarks reg ea is used by north n recommends it fo	hat is referred to a brush, and very y ing by mimicking garding large oper ern harriers, wood or maintenance us	s "Voelker Plains" oung jack pine inc the historic natura nings, cold-water s lcock, upland sand sing a controlled bu	. Current co lusions. Ope Il disturbance prings, and s piper, and va urn.	ndition of openir ening maintenand e regime. GLO r parse cover prim rious other speci	ng contains small ce is being proposed notes for this township arily consisting of tes associated with			
37	R6	16	49	55	red pine	immature	thinning	1					
comnts Fmd	: Thi was 7/2	n stand re s planted i 1/2002 sto	moving n 1960. orm was	small di Thinned s salvageo	ameter and poorly via timber sale #1 d at this time.	formed trees. Red 12-01, Voelker Pl	luce basal area to 1 lantation Pine, Aug	00 sq. ft, lea gust-October	ving any birch, o 2004. Some of t	bak and cherry. Stand he windthrow from the			
38	R5	50	49	55	jack pine	sparse	final harvest	1	direct seeding				
comnts Fmd	: Cle Pla pla	arcut this ntation Pi ntation. L	stand, t ne. Stor Leave 5-	rench and m damag 6 red pin	d regenerate jack p ge from 7/21/2002 e per acre.	ine. This stand is was accomplished	a result of harvestil at this time as we	ng in 2004 v ll. This stand	ia timber sale #1 1 was originally	12-01, Voelker part of a larger red pine			
43	A6	19	71	60	aspen (upland)	mature	final harvest	1					
comnts Fmd	: Cle the	arcut this regenerat	stand le ed stand	eaving all d. There	birch and oak. Cu are also oak seedli	at all other trees 2 ngs in areas of ma	-inches (stump dia ature oak. Monitor	meter) and u to see if the	p. Red maple ways and the provident of the provident pro	ill dominate portions of ing released.			
47	R5	33	49	55	jack pine	sparse	final harvest	2	direct seeding				
comnts Fmd	: Sta clea all allo exi	nd is very arcut (with jack pine ow success st in the st	patchy h reserv should sful reg tand. T	. Was or es) this s be cut. T eneration hese area	iginally part of larg tand and convert it here is a fair amou of jack pine to occ s will be trenched	ger red pine planta to jack pine. App int of cherry prese cur. To provide for through however.	ation and was separ proximately 20 sq. ont in areas of this s or diversity, areas y	rated out bas ft. per acre c stand. Herbio will be "skipp	ed on density. If of red pine (in pa cide will be nece ped" when herbio	is being prescribed to tch form) should be left, ssary to control it and ciding to allow cherry to			
49	R6	41	49	55	red pine	immature	thinning	1					
comnts Fmd	: Thi sup to l	n stand to pressed of eave map	100 sq r damag le and a	. ft. per a ged. Favo spen as n	cre. Accomplish the complish the complexity of t	his by removing a crown developme promote in stand	ll jack pine, those nt, meaning those t diversity. Leave a	trees that are trees with at ll oak and an	of small diameter approximately 30 y cherry.	er or have been 0-50% live crown. Try			
50	A6	4	71	50	aspen (upland)	mature	final harvest	1					
comnts Fmd	: Cle Tre on be	earcut this ses are of p the south the approp	stand le poor qu edge of priate tin	eaving 3- ality, cou this stand me to cut	6 trees/acre of whit ld convert this star d. The aspen knob this stand.	te birch. This cou nd to red pine usin to the southeast i	Ild be done leaving ng herbicide, trench s part of the adjace	3 2 clumps/ac and hand pl ent compartm	re. Most birch i anting. The con lent and is matur	s along the west edge. npartment boundary is e. Logistically it may			
Wld	: Thi recr	s stand co reation and	mprised d most o	l of patch of pressur	y aspen provides s e is focused on asp	uitable habitat for pen and pine/asper	woodcock and gronn mixes.	ouse. This a	rea recieves a fai	r amount of hunting			
55	J4	43	68	60	jack pine	high risk	final harvest	1	direct seeding				
comnts Fmd	: It is wir star sho	s being pro ndstorm ar nd. The n puld be tre	escribed nd was a orthern nched a	l to cleard also affec portion is and seeded	cut this stand cuttir ted in 2006 by ano s still fairly intact a d through to ensure	ng all trees regard ther windstorm, h and contains the h e uniformity with	less of merchantab however it was not ardwood and aspen the remainder of th	ility. This st salvaged foll n component ne stand.	and was slavage lowing that even . Where jack pir	d from the 7/21/2002 t. It is a sparse/patchy ne regeneration exists it			
Wld	: Rec	ommend	that no	herbicide	is used during refe	prestation of this s	stand to maintain a	nd/or increas	e habitat diversi	ty for wildlife.			
63	J5	37	68	57	jack pine	two aged	final harvest	1	direct seeding				
comnts Fmd	: 8/1 see in t	2/2009: T ded to jac his stand.	his stan k pine. It is a	d is being 3/2009: two aged	g prescribed for cle It was hit by the w stand as well.	earcutting during t vindstorm in 2006	the 2010 entry year however was not s	: All trees a salvaged. The	re to be cut. It we ere is a fair amou	vill then be trenched and ant of budworm damage			

	GWI	NN FOF	REST	MGT UN	IT	Proposed Tr With NO Limit	reatments ing Factors	Compart	ment: 251	Entry Year: 2011
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
64	U0	16		57	jack pine	nonstocked		0	planting	

comnts Fmd : This stand was created from the windstorm in 2006 that hit the Voelker Plains vacinity. It was not salvaged and is virtually inoperable for machine scarifying or planting. Red maple is beginning to take over the stand. However, red maple is not a viable commercial timber crop in this area. It is being prescribed to be burned for hazard fuels reduction and then trenched and seeded to jack pine.

Total Acres...... 491

	GWI	NN FOR	EST I	MGT UN	NIT	Proposed T With Limitin	reatments ng Factors	Compart	ment: 251	Entry Year: 2011		
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status		
65	A5	20	68	50	aspen (upland)	sparse	final harvest	1				

TREATMENT LIMITING FACTORS: Inadequate volume due to low stocking/small diameter/etc.

comnts Fmd : 8/12/2009: Clearcut this stand leaving <3% retention (oak, cherry, an a few scattered red maple). No herbicide is to be used. Very poor quality and sparse aspen and red maple stand. The mature aspen is 1/2 dead and 1/2 rotten. The understory is red maple saplings. At this time it isn't commercially viable to harvest this stand for pulpwood, it will need to be chipped..</p>

Total Acres..... 20



Compartment 251 T46N, R27W, Sec. 16, 17, 20, 21 County: Marquette Unit: Ówinn YOE: 2011 Acres:1,639 GIS Calculated Stand Examiner: Thomas Seablom Map Revised: 8/25/2009 Map Phase: Pre-review

Stand Boundary Map



Legend Miris Corners Gravel Roads Poor Dirt Roads

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DEDICATED CONSERVATION AREA DETAILS

Gwinn Mgt. Unit Compartment: 251



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* 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.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condit stocked trout populations and those of other coldwater fish specie to year. Coldwater streams in Michigan typically provide these cor groundwater to their stream flows. Such streams are established is trout resources by Fisheries Order 210.	ions that allow naturally-reproduced or es (e.g., slimy sculpin) to persist from year nditions due to substantial contributions of by Director's action and designated as
SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of database as stand condition 8 as potential old growth (POG). A identified through the Operations Inventory (OI)/Compartment Rev 2008 and forward, potential old growth is managed for the identified the Biodiversity Conservation Planning Process (BCPP) and giver an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation via the Compare	reasons and were coded in the OI pproximately 310,000 acres have been view process. For stands in Year of Entry ed objective until it is: 1) vetted through a specific designation and objective (as otential old growth designation; or 2) it is rtment Review process.