

Gwinn Forest Management Unit Compartment Review Presentation Compartment #261 Entry Year: 2011 Compartment Acreage: 1255 County: Marquette

Revision Date: May 12, 2009

Stand Examiner: Tom Seablom

Legal Description: T45N R27W Sec. 24, 25, and 36

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: Soils vary in this compartment from Kalkaska sand to Carbondale-Tawas mucks. The predominant upland soil is Pence fine sandy loam, which composes almost the entire northern two-thirds of the compartment. Croswell sand and the Croswell-Deford complex are the dominant soils in the southern third. The small amounts of mucks that do occur are in drainages and creeks surrounding Black and Charley Lakes. This compartment is relatively flat with some relief surrounding Black Lake and Charley Lakes.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership is primarily State with private individual holdings scattered throughout the surrounding landscape and concentrated around inland lakes. The Michigan Northwoods Club is located approximately two miles northwest of this compartment. Development is minimal with camps being on private land. Land use is consistent with that of State land, primarily hunting, fishing, and camping.

Unique, Natural Features: None

Archeological, Historical, and Cultural Features: None

Special Management Designations or Considerations: Several stands have been recommended for Special Conservation Areas (SCA) – Potential Old Growth (POG). These stands are predominantly in the southeast portion of this compartment and exist along waterways.

Wildlife Habitat Considerations: Text

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarsetextured glacial till. 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 dimension stone. Sand & gravel pits are located in the area, and there should be potential. Abandoned iron mines are located ten miles to the north. This area was previously leased for metallic mineral development. There is no economic oil and gas production in the UP.

Vehicle Access: There is decent access throughout this compartment. The Charlie Lakes Road (a county road) is the primary road to access this compartment. Secondary woods roads provide access throughout the compartment. Some new temporary roads will need to be built to access some of the prescribed stands.

Survey Needs: Several corners need to be placed to define State ownership.

Recreational Facilities and Opportunities: A portion of the Bass Lake Motorcycle trail traverses this compartment. The Bass Lake Campground is approximately two miles to the east of this compartment. No other facilities exist at this time.

Fire Protection: There is good access throughout the compartment for all fire equipment. Vegetation is a mix of aspen, lowland conifer, and upland brush/grass opening. There is some jack pine in the southern portion of this compartment and immediately to the south in Dickinson County.

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: 261

Table 3

(acres shown in boxes) STAND AGE CLASS 100-110-120-130-140-All Not 150-COVER TYPE 109 119 129 139 Aged Coded 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80-89 90-99 149 159 Total 20 88 90 166 35 728 127 139 63 Aspen 15 32 17 Black Spruce 9 9 Bog or Marsh 17 17 Grass 6 13 44 63 Jack Pine 36 36 LowInd Brush 30 30 LowInd PopIr 23 137 7 167 Mx Swmp Cnfr 8 8 Non Stocked 28 28 Paper Birch 8 8 Spruce Fir 9 9 Swamp Hrdwds 76 Upland Hdwds 29 105 15 15 Water 15 7 23 Total 20 172 56 192 85 90 167 1255 127 139 162

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

ESCANABA RIVER STATE FOREST GWINN FOR			REST MGT UNIT MARC						MARQ	ARQUETTE COUNTY				COMPARTMENT: 261													
													Та	able 3A	L L												
			(a	acres sl	nown ir	n boxes	6)					MANA	GEMEN	IT OBJ	ECTIVE	TYPE											
COVER TYPE	А	S	V	С	G	н	J	I	L	Ρ	N	Q	Х	0	В	R	к	Y	F	Е	т	D	U	М	Z	W	Total
A Aspen	728																										728
S Black Spruce		32																									32
V Bog or Marsh			9																								9
G Grass					17																						17
J Jack Pine							63																				63
LowInd Brush									36																		36
P LowInd PopIr										30																	30
Q Mx Swmp Cnfr												167															167
X Non Stocked													8														8
B Paper Birch															28												28
F Spruce Fir																			8								8
E Swamp Hrdwds																				9							9
V Upland Hdwds																								105			105
Z Water																									15		15
Total	728	32	9		17		63		36	30		167	8		28				8	9)			105	15		1255

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 261

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY										
TOTAL V	/OLUME	CUT VC	DLUME							
Hardwood	12035 Cds	Hardwood	4603 Cds							
Softwood	5948 Cds	Softwood	2816 Cds							
Sum TotVol	17983 Cds	Sum CutVol	7419 Cds							
Total Cm	not Acres	Acres Propose	ed For Cut	315						
405	· · · · · ·									
125	0									

	GWI	NN FOR	REST	IGT U	NIT	Proposed With NO Lin	Treatments niting Factors	Compartment: 261 Entry Year: 2011				
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status		
1	A6	22	83	55	aspen (upland)	mature	final harvest	1				
comnts Fmd	: It is diar diar aspe Lak alor at th	being pre neter (me neter are en regener e Motorcy ng the trai nis entry p	escribed asured a to be cu ration. ' ycle trai l painte period.	to clean at 4-inch t regard This star l runs th d with o	cut this stand leaving the above the groun less of merchantabi and should be fall or arough this stand an range or are marked	ng red and white d) are to be left lity. There is qu winter cut to ma d will be protect d with a cycle tra	pine, and any oak of for diversity, ie reter- tite a bit of submerc aximize aspen sprou ted during harvestin ail triangle will be le	or birch. Whi ntion. All oth hantable map ting and com g operations b eft. This stand	te spruce with le er trees greater le in the underst pete with the ex by fall or winter l has the highes	ess than an 8-inch stump than 2-inches stump ory which may hamper isting maple. The Bass harvesting. Trees t priority for harvesting		
7	A6	40	81	55	aspen (upland)	mature	final harvest	1				
comnts Fmd	: This incl aspe hary	s stand is nes (meas en should vesting op	being part ured at 4 be left a perations	rescribe 4-inches along th 5. All tr	d for clearcut only l above the ground). e stand boundary.	eaving birch, oa To satisfy reter The Bass Lake M ange paint or the	k, any pine, and tho ntion requirements, Aotorcycle trail runs e orange cycle trail t	se white spru- patches of spru- through this riangle along	ce with a stump ruce/fir and an o stand and will b the trail will be	diameter less than 8- ccassional mature e protected during left.		
8	A6	21	81	55	aspen (upland)	mature	final harvest	1				
comnts Fmd	: This or p	s stand is atches) to	to be clo obtain	earcut le a maxin	eaving all pine and on num of 3% retention	oak and any chern n either by basal	rry. Enough birch a area or acreage.	nd 1/2 dead a	spen are to be m	narked (either single tree		
22	M6	56	84	65	northern hardwood	two aged	shelterwood-seed	d 2				
comnts Fmd Wld	: This rege mer stan : WLI dive	s is a mixe enerate no chantabili d and wil D would l rsity and	ed stand orthern h ity. A s l benefi ike to u enhance	l of nort ardwoo ummer t from tl nderplan e wildlif	hern hardwood and ds, paper birch and harvest is desireable his type of harvest. ht stand after harvest habitat quality.	aspen-birch. It red oak. All asp e here to maximi st with a mixture	is a low quality stan pen, red maple, bals ize scarification. Th e of red and white pi	d and is being am and spruce here are scatte ne and possib	g prescribed for e are to be cut re red red and whi ly some oak in o	a shelterwood cut to egardless of te pine throughout the order to increase		
27	P6	30	75	55	balsam poplar &	mature	final harvest	1				
comnts Fmd	: This and	s stand is should be	being p e cut du	rescribe ring win	swamp aspen and swamp white birch d for final harvest. iter conditions.	All trees over 2-	inches dbh, except	cedar and ash	, are to be cut. '	This is a very wet stand		
28	S6	15	91	45	black spruce-swamp	o mature	seed tree	2				
comnts Fmd	: A se app All	edtree cu rox. 4-6 tj cedar is to	it is beir pa provi p be left	ig presc ding ad	ribed for this stand. equate spacing for s	Clumps of 10-1 seed fall. This sa	15 trees every 5 ch's and is wet and shoul	are to be left d be harveste	as a seed source d during winter	e. This will yield or frozen conditions.		
32	A6	63	67	55	aspen (upland)	old growth (potential or actual)	final harvest	1				
comnts Fmd Wld	: SCA com curr adv. prec allo timl timl to b : SCA wild	A-Potentia aparment. ently has anced fir a dominatel wing it to per type. per types. e cut. All A-Extende life and p	al Old C It is fla no road and map y to upl regenen Doing t This st l other t d Rotat rovide a	Frowth o at with s is throug ble regen and spru- rate. Sp his wou and sho rees reg ion Aspra seed so	r Extended Rotatio light elevational ch gh it. The white bir heration occurring i nce and fir. It is bei ruce-fir seed trees c ld aid in the perpetu uld be cut with the ardless of merchant en. Leave patches o purce for regenerati	n Aspen. This is anges ranging fr ch and aspen are n various parts of ng prescribed at could be marked tation of the con stands to the nor ablity are to be of spruce/fir as v on. Retain desig	s a long stand runnir om 2-3 feet causing e overmature and in of the stand. As the this time to clearcu along the eastern ec ifer cover along the th so the same wintu- cut. If conditions al well as any cedar fou gnation of "extended	ng north-south portions of the need of harve elevation grade t this stand du dge of the star travel corride er road system low, a summe and in stand in l rotation" in o	a in the southeas be stand to be we sting. The under les down on the uring winter or find to provide a so or between the un a can be used. A r harvest may be a order to mainta order to allow co	tern portion of the et and others dry. It erstory consists of east side, timber turns rozen conditions and eed source for that pland and lowland No cedar or cherry are e accomplished. ain conifer diversity for ponifer to establish and		
	enco	ourage mu	ltiple ag	ge classe	es within this stand.	high rick	final horizot	1				
34 comnts Fmd	HO This rega	ס s stand sh urdless of <u>od,</u> it will	ould be mercha	clearcut ntability	aspen (upland) t during dry summe v. Balsam fir and so to soft maple and fi	r or winter cond oft maple are pre	itions. All trees exc sent as advanced re aspen is well past m	ept cedar, pin generation. If aturity.	e and any cherr this stand isn't	y are to be cut harvested at this entry		
35	M6	29	65	48	northern hardwood	two aged	shelterwood-prep	D 1				
comnts Fmd	: This the shel	s is a very south. Th terwood-	poor que poo	uality m cattered e cut is l	ixed hardwood star hemlock, yellow b being prescribed for	nd, predominatel irch, and cedar th r this stand leavi	y soft maple. Timb hroughout the stand ng approx. 50 sq. ft.	er grades fron (predominate per acre.	n maple in the n ly on the swam	orth to aspen-birch in p edges). A		
Wld	: Higl	nly divers	e stand	and the	proposed prescripti	on of "shelterwo	ood harvest" should	maintain or ev	ven increase div	ersity for the future.		

GWINN FOREST MGT UNIT						Proposed 7 With NO Lim	Freatments iting Factors	Compart	ment: 261	Entry Year: 2011	
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
43	J6	34	59	68	jack pine	immature	final harvest	2	planting		
comnte Fm	d · This	s stand is	heing r	rescribed	for final harves	t during this entry p	eriod It is being r	rescribed for	this entry perio	d eventhough it would	

comnts Fmd : This stand is being prescribed for final harvest during this entry period. It is being prescribed for this entry period eventhough it would hold for another inventory cycle as growth has culminated over the last 10 years and the jack pine and aspen in the compartment to the south (Dickinson Co.) is scheduled to be harvested during the next entry period. Harvesting this stand now will help to avoid adjacency issues and will take advantage of the high volume at this time. All trees are to be cut regardless of merchantability except cherry and any red or white pine. The site will be trenched and planted to jack pine. Harvest a portion of the jack pine stand in Dickinson Co. at the same time as this stand.

Total Acres..... 315

		Proposed Treatments With Limiting Factors	Compartment: 261	Entry Year: 2011
Cover	Site Mgt	Method	Harvest Cultural	FDF
Stand Type Acres	Age Index Obj	Condition Cut	Priority Need	Status

TREATMENT LIMITING FACTORS:

0

Total Acres.....



Stand Boundary Map

Compartment 261 T45N, R27W, Sec. 24, 25, 36 County: Marquette Unit: Ówinn YOE: 2011 Acres: 1,255 GIS Calculated Stand Examiner: Thomas Seablom Map Revised: 8/24/2009 Map Phase: Pre-review





Legend

RIs Corners \diamond

- Miris Corners
- **Gravel Roads**
- County Poor Dirt Roads Poor Dirt Roads
- Trails - - - - -
- Gates \times
- Motorcycle Trails
 - Stand Boundary





DEDICATED CONSERVATION AREA DETAILS

Gwinn Mgt. Unit Compartment: 261



Page 1 of 1

* 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.

Conservatio Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical resides of cultural and historical significance that may occur upon the bottomlands. They include thousands of Native American settlem and British outposts, nineteenth century logging camps, mines and Great Lakes, there are shipwrecks and other remains documenting identified by Natural heritage data from the State Historic Preserve compartment will be implemented in such a manner as to maintaid sensitive nature of this information, no further detail about location.	emains of human occupation. These are rrestrial areas and Great Lakes ents and burial sites, as well as French nd homesteads. Beneath the waters of the ng the maritime trade. Such sites may be ation Office. Proposed treatments in this n the integrity of these sites. Due to the n is available.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condi- stocked trout populations and those of other coldwater fish species to year. Coldwater streams in Michigan typically provide these co- groundwater to their stream flows. Such streams are established trout resources by Fisheries Order 210.	tions 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 Re 2008 and forward, potential old growth is managed for the identifit the Biodiversity Conservation Planning Process (BCPP) and give an ERA, HCVA, or other type of SCA) and is released from the po- released from the potential old growth designation via the Compa	f 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 n a specific designation and objective (as otential old growth designation; or 2) it is rtment Review process.