

Gwinn Forest Management Unit Compartment Review Presentation

Compartment 231 Entry Year: 2009 Compartment Acreage: 1248 County: Marquette

Revision Date: March 24, 2009

Stand Examiner: Thomas Seablom

Legal Description: T45N R28W Sec. 8, 17 and 18

RMU (if applicable): None

Management Goals: Management goals include maintaining and increasing timber productivity, maintaining and improving wildlife habitat and protecting 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 compartment is relatively flat to gently rolling and occurs within a larger sandy outwash plain. Soils are composed of mucks and sands. Depressions and drainages consist of the Carbondale and Tawas soils mapping unit while the uplands are composed of Rubicon sands and its associates.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership in this area is almost entirely State with some private inholdings including two larger hunting clubs. Very little development occurs in this area besides camps. Land use in and around the compartment includes timber, wildlife, fish and recreation.

Unique, Natural Features: None

Archeological, Historical, and Cultural Features: Abandoned railroad grades exist in this compartment and surrounding area from the pine era. Frenchy Lake had been used for commercial ice production. Part of the abandoned ELF right-of-way passes through this compartment.

Special Management Designations or Considerations: Stands along the Flat Rock Creek and surrounding Heart Lake are listed as Special Conservation Areas (SCA) for Potential Old Growth (POG).

Watershed and Fisheries Considerations: Habitat along the Flat Rock Creek needs to be maintained to provide for the quality of the cold water fishery. Aspen management within the immediate area of the creek needs to be discouraged.

Wildlife Habitat Considerations: Text

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured till and peat & muck. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as dimension stone and there is a rock quarry is located in Section 19. Sand and gravel pits are located in this area and there should be some potential. The abandoned Republic iron mine is located six miles to the northwest. Part of this Compartment was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Access to this compartment is limited. The Flat Rock Road provides the primary access to this compartment. Secondary roads off of it provide access to the south and east. Virtually all of the north and western portions of this compartment are inaccessible. Some stands to the extreme north can be accessed through private property with winter roads.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: No recreation facilities exist at this time. There is potential for development of a campground around Heart Lake, however there is currently no vehicle access to it.

Fire Protection: This compartment is within the South Ishpeming-581 Zone dispatch area. Access to the majority of this compartment by mechanical fire apparatuses is limited as no roads in the north and west exist. Covertypes in this roadless area include lowland brush, conifer swamps, birch and jack pine with some spruce-fir. The jack pine and birch are mid-rotation to mature and have an understory component of fir and upland black spruce. The south and eastern portions of the compartment can be accessed via the Flat Rock Road and secondary side roads.

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: 231

Table 3

(acres shown in boxes)

STAND AGE CLASS

		`			,				I AND AG	L 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				100	24			4	13										141
Black Spruce									52	51	33								136
Bog or Marsh	30																		30
Cedar											33								33
Grass	12																		12
Jack Pine		43	41				72	5	4										165
LowInd Brush	232																		232
Marsh	23																		23
Mx Swmp Cnfr									115		88								203
Non Stocked	8																		8
Paper Birch								11	49										60
Red Pine						22	4	23										24	73
Spruce Fir	8		22	4		14			45										93
Treed Bog	9																		9
Upland Hdwds							10												10
Water	20																		20
Total	342	43	63	104	24	36	86	43	278	51	154							24	1248

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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: 231

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	Α	S	V	С	G	Н	J	I	L	Р	N	Q	Х	0	В	R	K	Υ	F	Е	Т	D	U	М	Z	W	Total
A Aspen	139						2																				141
S Black Spruce		136																									136
V Bog or Marsh			30																								30
C Cedar				33																							33
G Grass					12																						12
J Jack Pine							165																				165
L Lowlnd Brush									232																		232
N Marsh											23																23
Q Mx Swmp Cnfr												203															203
X Non Stocked													8														8
B Paper Birch															60												60
R Red Pine																73											73
F Spruce Fir																39)		54	ļ							93
D Treed Bog																						9					9
M Upland Hdwds																10)										10
Z Water																									20		20
Total	139	136	30	33	12		167		232		23	203	8	3	60	122	2		54	1		9			20		1248

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

TABLE 10: Page 1 of 1

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 231

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY

TOTAL \	/OLUME	CUT VOLUME						
Hardwood	2488 Cds	Hardwood	1075 Cds					
Softwood	9580 Cds	Softwood	2134 Cds					
Softwood	99 Mbf	Softwood	29 Mbf					
Sum TotVol	12266 Cds	Sum CutVol	3267 Cds					
Total Cn	npt Acres	Acres Proposed For Cut						
124	1Ω							
124	Ю							
		•						

Proposed Treatments GWINN FOREST MGT UNIT Compartment: 231 Entry Year: 2011 With NO Limiting Factors Cover Method **FDF** Mgt Harvest Cultural Site Type Stand Acres Obj Condition Cut **Priority** Need Status Age Index 30 A6 11 50 aspen (upland) final harvest mature comnts Fmd: This stand is being prescribed for clearcutting. Cut all trees regardless of merchantability (no retention). This stand is a marginal aspen stand and marginal for red pine. It is well suited for jack pine, however, with the majority of this landscape being jack pine, it is desired to manage this as a mixed stand of aspen, jack pine, and spruce-fir. J6 final harvest 31 2 69 62 jack pine mature direct seeding comnts Fmd: It is being prescribed to clearcut this stand and plant back to jack pine. All trees are to be cut regardless of merchantability (no retention). Herbicide will likely be need to control aspen and red maple sprouting. 32 A6 jack pine mature final harvest direct seeding comnts Fmd: This stand is being prescribed for clear cutting and converting to jack pine. All trees are to be cut (no retention) and herbicide used to control sprouting. This is a sandy site currently stocked with off site aspen. direct seeding J6 jack pine mature final harvest 33 comnts Fmd: This stand is being prescribed for clearcutting and planting back to jack pine or possibly converting to red pine if habitat type allows. All trees are to be cut (no retention). Some herbicide may be needed to control areas of aspen sprouting. mature final harvest 42 red pine planting comnts Fmd: This stand is on a knoll/ridge and is a mix of red maple, white birch and balsam fir. There is some jack pine and scattered red pine. There is a heavy hazel and red maple understory as well as balsam. The birch is dying out. It is being prescribed to clear cut this stand reserving a few birch clumps and the jack pine. It will then be anchor chained to expose mineral soil for a seed bed for birch, jack pine, and red pine seed. All other trees (except oak) are to be cut. The source for the red pine seed will be the plantation (44 years old) that is immediately adjacent on the west side of this stand as there are no red pine within this stand. SEE LOCKED COMMENTS. 47 R9 red pine mature shelterwood-seed comnts Fmd: This is a small stand of mature red pine surrounded by aspen. A shelterwood-seedtree cut is being prescribed to regenerate this stand while retaining approximately 50 sq/ft of the large over mature red pine, creating 1/3 to 1/4 acre gaps. Harvesting will be restricted to snow free conditions to aid in scarification. Cut this stand along with stand 48 to the south. Stand 400, grass opening to the west of this stand will be used as a landing area. 48 9 R9 70 red pine shelterwood-seed mature comnts Fmd: This stand is being prescribed for a shelterwood-seedtree type cut to regenerate this stand while retaining approximately 50 sq/ft of the large over mature red pine, creating 1/3 to 1/4 acre gaps. Cut all other trees regardless of merchantability except cut no oak. Harvesting will be restricted to snow free conditions to aid in scarification. Cut this stand along with stand 47 to the north. Stand 400 to the west of this stand can be used as a landing area for this sale. 57 R5 23 61 red pine two aged seed tree 3 comnts Fmd: Poorly stocked stand overall, heavier stocking in some areas where points fell brought the avg. ba/ac up. Would benefit from

comnts Fmd: Poorly stocked stand overall, heavier stocking in some areas where points fell brought the avg. ba/ac up. Would benefit from clearcutting and planting to either red pine or jack pine. Red pine could be regenerated via a seed tree cut too leaving the majority of the red pine, except on the southwest side where a very dense pocket of pure red pine exists. This area would require a heavier cutting, down to 50 sq ft. If this stand is held another 10 years we'd get on average another 1 stick per tree in the fir and jack pine.

60 F0 8 55 spruce-fir (uplands- high risk 0 planting including upland black spruce)

comnts Fmd: This stand needs a site visit for a regeneration exam and to determine if a cultural treatment is needed. It was cut in the fall of 2003 by Roy Nelson, III, timber sale #107-01-01, Coniber ELF Sale. Birch seed trees were left as well as any oak, cherry, and cedar as well as 1 to 3 stick spruce. Upon examining this stand in January 2009, virtually no regeneration was present at snow level. There are some red maple sprouts as well as some spruce and fir seedlings, though very low stocking. Pending a field visit, stand will be planted with an upland conifer mix.

Total Acres...... 68

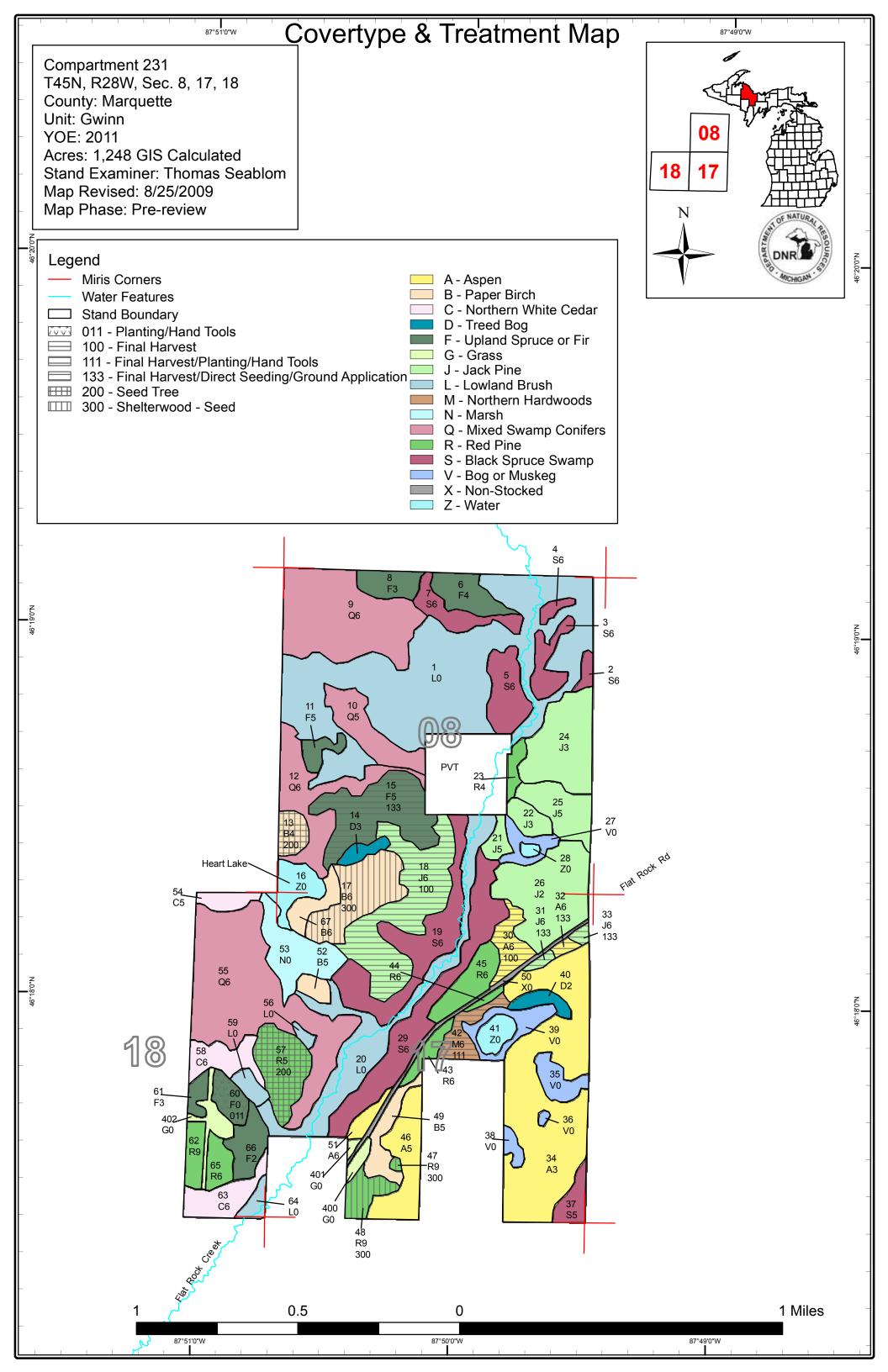
	GWI	NN FOR	REST	MGT UN	NIT	Proposed T With Limitin		Compar	tment: 231 E	Entry Year: 2011	
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
13	В4	7	77	50	paper birch	old growth (potential or actual)	seed tree	3			
TREATMEN	IT LIMITI	NG FACT	TORS:	Potential	l or designated old g	growth					
comnts Fm	comnts Fmd: SCA-Potential Old Growth. Birch island next to Heart Lake. Could possibly treat this stand along with stand 15 and remove it from SCA status. Access is severely limited here.										
15	F5	39	77	50	red pine	sparse	final harvest	3	direct seeding		
TREATMEN	IT LIMITI	NG FACT	ORS:	Road ne	eded (resources no	t presently availal	ole)				
comnts Fm	comnts Fmd: 8/12/2009: It is being prescribed to clearcut this stand reserving all red and any white pine and scattered white birch. Seeding red or jack pine via snowmobile may be the regeneration option as summer access is difficult. 3/2009: Very sparse stand, pts just happened to fall in areas of denser timber. Very poor quality stand, very low productivity right now. Would benefit from clearcutting and replanting to either red or jack pine, preferably red pine. Since access is a problem, we could consider doing a seed tree cut or seed via snowmobile. If cut, cut with stand 18. Access here is very difficult. There currently is no road to this area of the compartment. A major road building project would need to be undertaken including installing a bridge over the Flat Rock Creek.									pts just happened to atting and replanting seed via	
17	В6	29	77	46	paper birch	mature	shelterwood-see	d 3			
TREATMEN	IT LIMITI	NG FACT	ORS:	Potential	l or designated old g	growth					
comnts Fm	comnts Fmd: A shelterwood-seed tree cut is being prescribed for this stand leaving approx. 10 trees per acre of white birch and a balsam fir. All other live trees, except any red or white pine, are to be cut regardless of merchantability. Leave a 300 ft. buffer (ie stand 67) from Heart Lake, .										
18	J6	54	53	60	jack pine	mature	final harvest	3			
TREATMEN	TREATMENT LIMITING FACTORS: Road needed (resources not presently available)										
comnts Fm	comnts Fmd: 8/12/2009: This stand is being prescribed for clearcutting. All trees, except any red or white pine are to be cut regardless of merchantability. There are several spruce pockets (upland) and young jack pine pockets within the stand. Accessing this stand will take										

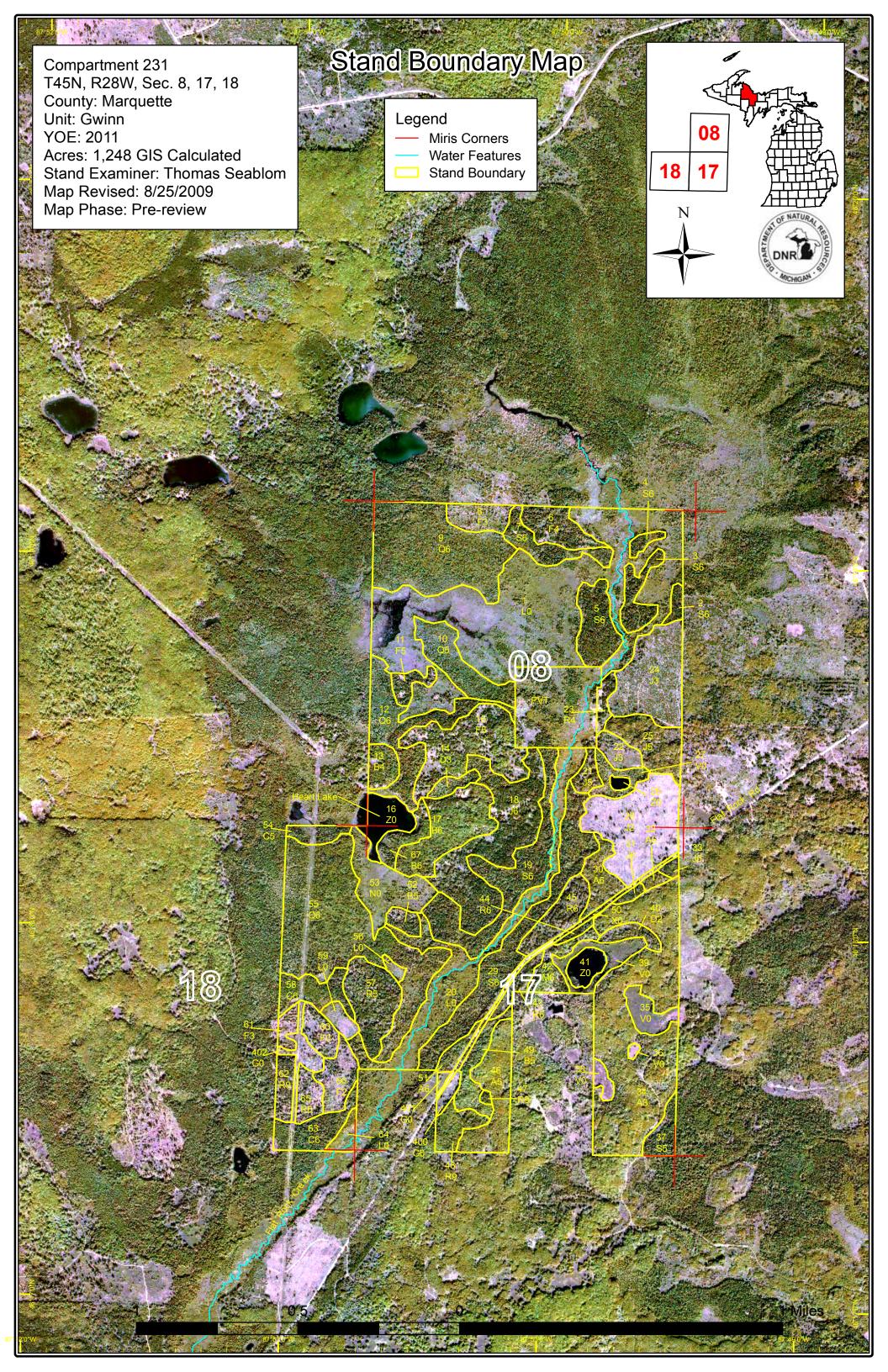
an immense amount of road work including a bridge across the Flat Rock creek.

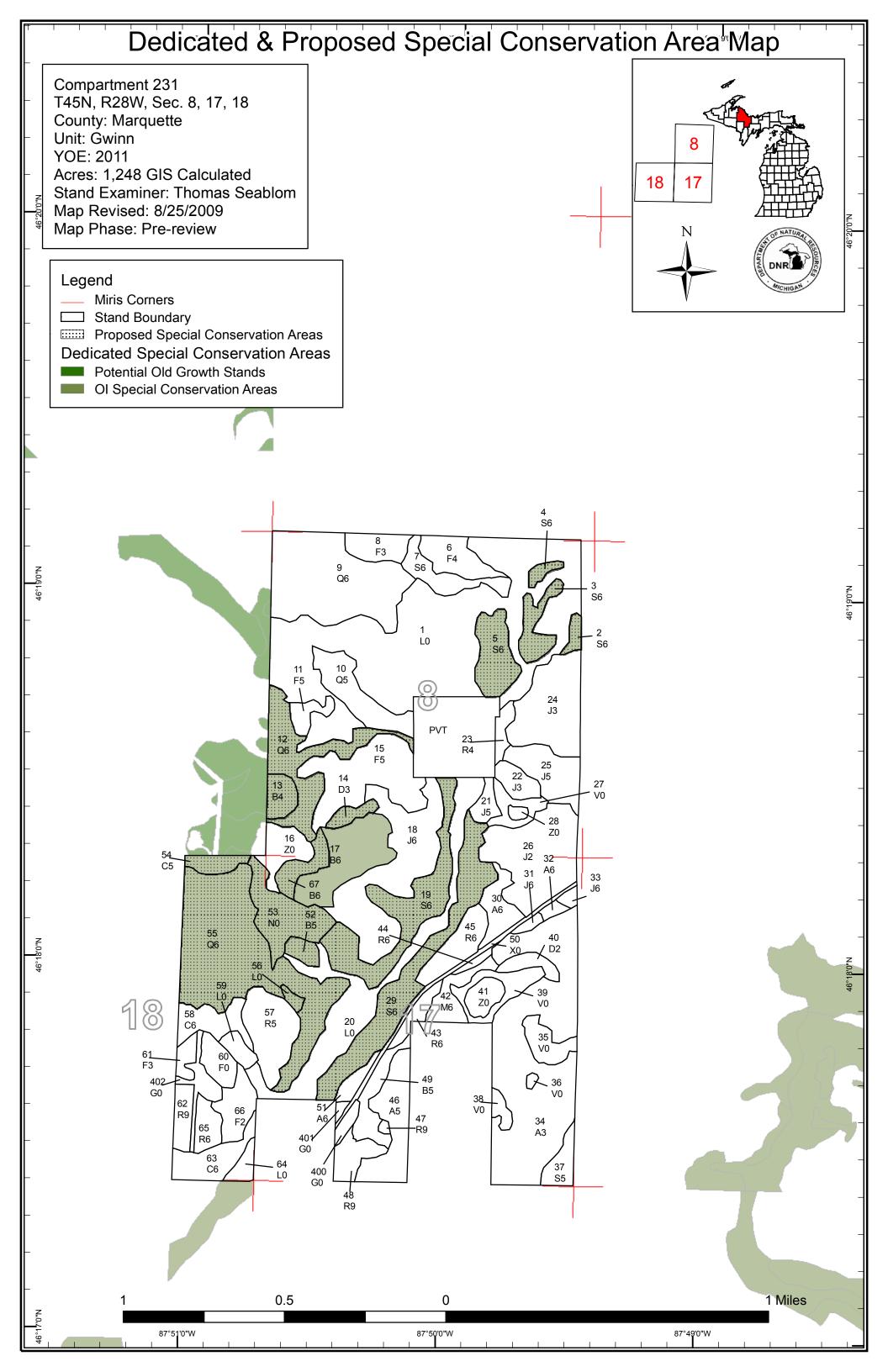
Total Acres......

129

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Report Date: 07/31/2009

Gwinn Mgt. Unit Compartment: 231



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.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
	Potential Old Growth Areas	database as stand condition 8 as potential old identified through the Operations Inventory (OI 2008 and forward, potential old growth is mana the Biodiversity Conservation Planning Process	or a broad range of reasons and were coded in the OI growth (POG). Approximately 310,000 acres have been)/Compartment Review process. For stands in Year of Entry aged for the identified objective until it is: 1) vetted through (BCPP) and given a specific designation and objective (as beleased from the potential old growth designation; or 2) it is tion via the Compartment Review process.