

GWINN FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT #46 ENTRY YEAR: 2011 Compartment Acreage: 1651 County: Marquette

Revision Date: 3/19/2009

Stand Examiner: Jerry Mohlman

Legal Description: T44N R25W Sections 32, 33, 34

Management Goals: For the 2011 entry year, we plan to thin for the second time all the 10 acre red pine plantations in this compartment. We would also remove all remaining jack pine from these former mixed plantations. The jack pine is mature. There is significant area seeding in to jack pine adjacent, so there is minimal loss to diversity. The remaining red pine has variable stocking due to the original planting pattern so some areas will have little removed. We will strive for a residual basal area of about 110 sq. feet. We will have final harvests on one Jack pine stand, three aspen stands, and two fir stands. We will leave all white pine, red pine, hemlock and cedar if present. All of these stands will be naturally regenerated. One birch stand will have all mature birch removed due to heavy mortality, and the stand converted to mixed hardwood, which is already present in the understory. One white pine stand, harvested during the 2001 entry period, is under proposal for an understory prescribed burn, to enhance natural pine regeneration.

Soils and topography: Rubicon sand, Croswell sand, Rousseau fine sand, Emmet-Escanaba complex, Croswell-Deford complex, Carbondale and tawas muck, Tawas-Deford muck. Flat to rolling topography.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private land used mostly for hunting camps in areas south and west. State ownership north and east except for a 40 acre parcel north along C. R. 557.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: Some old logging camp locations are in this compartment.

Special Management Designations or Considerations: Special Conservation areas are stands associated with riparian zones along the creeks and rivers. Stands 1,2,30,33,34,35,37,39,43,45,49,55,56,57.

Watershed and Fisheries Considerations: Wilson Creek and Escanaba River.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions:

Vehicle Access: West side has good vehicle access. The east is blocked by private land and generally has poor vehicle access.

Survey Needs: No survey requested for the 2011 entry period.

Recreational Facilities and Opportunities: General forest recreation. No developed recreational facilities.

Fire Protection: Fire frequency is low. In the pine dominated types, access is good for fire equipment. We have a forest treatment proposal for a prescribed burn in stand 32. This is a white pine underburn to discourage hardwood and enhance pine regeneration.

Additional Compartment Information: The Sesquicentennial Plantation, an award winning endeavor honoring the State of Michigan's 150th year, planted by the DNR in 1987 along with ceremonies attended by CCC alumni and other dignitaries is in this compartment. It is Stand 13. It is mostly Red pine with tamarack in a 150 design in the center.

- ➤ 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

TABLE 3: Page 1 of 1

8/31/2009 1:49:19 PM

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

ESCANABA RIVER STATE FOREST GWINN FOREST MGT UNIT MARQUETTE COUNTY COMPARTMENT: 46

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		21	180	337		48		11		31									628
Black Spruce							6		17	67		10							100
Cedar																30			30
Grass	41																		41
Hemlock										22									22
Jack Pine			10				28	4											42
LowInd Brush	32																		32
Mx Swmp Cnfr				2					53	105	132		216						508
Non Stocked	11																		11
Paper Birch			8							7	10								25
Red Pine				10					94										104
Spruce Fir									21	32									53
Upland Hdwds											25							5	30
White Pine			10	15															25
Total	84	21	208	364		48	34	15	185	264	167	10	216			30		5	1651

8/31/2009 1:49:22 PM

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 46

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	Α	S	V	С	G	Н	J	I	L	Р	N	Q	Χ	0	В	R	K	Υ	F	E	Т	D	U	М	Z	W	Total
A Aspen	621																									7	628
S Black Spruce		100																									100
C Cedar				30																							30
G Grass					41																						41
H Hemlock						22																					22
J Jack Pine							42																				42
L LowInd Brush									32																		32
Q Mx Swmp Cnfr												508															508
X Non Stocked													11														11
B Paper Birch	8														10									7			25
R Red Pine																104											104
F Spruce Fir																			53	1							53
M Upland Hdwds																								30			30
W White Pine																										25	25
Total	629	100		30	41	22	42		32			508	11		10	104			53					37		32	1651

8/31/2009 1:49:24 PM

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: 46

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY

TOTAL	/OLUME	CUT VOLUME	
Hardwood	5585 Cds	Hardwood 910 Cds	
Hardwood	15 Mbf	Softwood 1010 Cds	
Softwood	10897 Cds	Softwood 184 Mbf	
Softwood	1083 Mbf	Sum CutVol 2288 Cds	
Sum TotVol	18678 Cds		
Total Cr	npt Acres	Acres Proposed For Cut	195

Proposed Treatments GWINN FOREST MGT UNIT Compartment: 46 Entry Year: 2011 With NO Limiting Factors Cover Method **FDF** Mgt Harvest Cultural Site Type Obj Condition Cut **Priority** Need Status Stand Acres Age Index 4 R9 8 70 75 red pine thinning 2 mature comnts Fmd: Plantation planted 30's mixed j. and red pine., thinned 1991-1992 permit #49-91-01. Variable stocking. Mostly ready for another thinning. Recommend removal of remaining j. pine and mark red pine down to 110 BA. Some areas already lower BA than this due to planting both species in patches occaisionally and heavy removal of J. pine in 1992. Plenty of Jack Pine seeded in former open areas adjacent, so not worried about loss of diversity. Most red pine is small log sized 8"-10"dbh. Some trees up to 16". 5 R9 9 70 75 red pine mature comnts Fmd: Plantation planted 30's mixed j. and red pine., thinned 1991-1992 permit #49-91-01. Variable stocking. Mostly ready for another thinning. Recommend removal of remaining j. pine and mark red pine down to 110 BA. Some areas already lower BA than this due to planting both species in patches occaisionally and heavy removal of J. pine in 1992. Plenty of Jack Pine seeded in former open areas adjacent, so not worried about loss of diversity. Most red pine is small log sized 8"-10"dbh. Some trees up to 16". 6 comnts Fmd: Plantation planted 30's mixed j. and red pine., thinned 1991-1992 permit #49-91-01. Variable stocking. Mostly ready for another thinning. Recommend removal of remaining j. pine and mark red pine down to 110 BA. Some areas already lower BA than this due to planting both species in patches occaisionally and heavy removal of J. pine in 1992. Plenty of Jack Pine seeded in former open areas adjacent, so not worried about loss of diversity. Most red pine is small log sized 8"-10"dbh. Some trees up to 16". 8 R٩ red pine mature comnts Fmd: Plantation planted 30's mixed j. and red pine., thinned 1991-1992 permit #49-91-01. Variable stocking. Mostly ready for another thinning. Recommend removal of remaining j. pine and mark red pine down to 110 BA. Some areas already lower BA than this due to planting both species in patches occaisionally and heavy removal of J. pine in 1992. Plenty of Jack Pine seeded in former open areas adjacent, so not worried about loss of diversity. Most red pine is small log sized 8"-10"dbh. Some trees up to 16". 9 red pine mature comnts Fmd: Plantation planted 30's mixed j. and red pine., thinned 1991-1992 permit #49-91-01. Variable stocking. Mostly ready for another thinning. Recommend removal of remaining j. pine and mark red pine down to 110 BA. Some areas already lower BA than this due to planting both species in patches occaisionally and heavy removal of J. pine in 1992. Plenty of Jack Pine seeded in former open areas adjacent, so not worried about loss of diversity. Most red pine is small log sized 8"-10"dbh. Some trees up to 16". 15 16 70 red pine mature thinning R9 comnts Fmd: Plantation planted 30's mixed j. and red pine., thinned 1991-1992 permit #49-91-01. Variable stocking. Mostly ready for another thinning. Recommend removal of remaining j. pine and mark red pine down to 110 BA. Some areas already lower BA than this due to planting both species in patches occaisionally and heavy removal of J. pine in 1992. Plenty of Jack Pine seeded in former open areas adjacent, so not worried about loss of diversity. Most red pine is small log sized 8"-10"dbh. Some trees up to 16". 16 R9 10 70 75 red pine mature thinning comnts Fmd: Plantation planted 30's mixed j. and red pine., thinned 1991-1992 permit #49-91-01. Variable stocking. Mostly ready for another thinning. Recommend removal of remaining j. pine and mark red pine down to 110 BA. Some areas already lower BA than this due to planting both species in patches occaisionally and heavy removal of J. pine in 1992. Plenty of Jack Pine seeded in former open areas adjacent, so not worried about loss of diversity. Most red pine is small log sized 8"-10"dbh. Some trees up to 16". 17 R9 12 70 75 red pine mature comnts Fmd: Plantation planted 30's mixed j. and red pine., thinned 1991-1992 permit #49-91-01. Variable stocking. Mostly ready for another thinning. Recommend removal of remaining j. pine and mark red pine down to 110 BA. Some areas already lower BA than this due to planting both species in patches occaisionally and heavy removal of J. pine in 1992. Plenty of Jack Pine seeded in former open areas adjacent, so not worried about loss of diversity. Most red pine is small log sized 8"-10"dbh. Some trees up to 16". 10 70 19 R9 75 red pine mature thinning comnts Fmd: Plantation planted 30's mixed j. and red pine., thinned 1991-1992 permit #49-91-01. Variable stocking. Mostly ready for another thinning. Recommend removal of remaining j. pine and mark red pine down to 110 BA. Some areas already lower BA than this due to planting both species in patches occaisionally and heavy removal of J. pine in 1992. Plenty of Jack Pine seeded in former open areas adjacent, so not worried about loss of diversity. Most red pine is small log sized 8"-10"dbh. Some trees up to 16". 23 F6 21 69 spruce-fir (uplandsmature final harvest 2 including upland

comnts Fmd: Upland spruce-fir with some aspen. Part will convert to aspen. Mostly 2-4 stick 6" with some bigger. Thick F3 understory and in gaps. Some areas lower BA F5 or F4. Leave w. pine and possibly cherry in harvest.

comnts Fmd: Upland sp/fir mature and well-stocked. Fades to lowland smaller and more sparse there. Lowland adjacent would be natural seed source

mature

after harvest. Some areas will regenerate to aspen. Some areas spruce is 2-4" dbh and could be left after harvest. Some J. pine here.

final harvest

black spruce)

spruce-fir (uplands-

including upland black spruce)

F6

16

80

25

2

	GWIN	NN FOR	REST	MGT U	NIT	Proposed T With NO Limi		Compar	tment: 46	Entry Year: 2011
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
28	В5	7	87	60	northern hardwood	mature	seed tree	2		
comnts Fm	and	mortality	. Cut ou	ıt birch a		dwood and protec	rt advanced regene			ch showing dieback ch for seed in areas that
32	W9	10	17	60	white pine	in process of regeneration		0 n	atural regenerati	on
omnts Fm					3 stand cut in 2002 Burn to set sp/fir and				aspen coming in	under BA 80 W. pine
41	J6	4	59	70	jack pine	mature	final harvest	2		
omnts Fm					from adjacent plan and probably get a					
48	R9	2	70	75	red pine	mature	thinning	2		
omnts Fm	thin spec	ning. Rec	ommen ches. P	d remov lenty of	al of pine and marl	k red pine down to former open areas	110 BA. Some at	reas already l	ower BA than th	e stocking. Ready for his due to planting both y. Most red pine is
52	Α6	7	59	65	white pine	mature	final harvest	2		
omnts Fm					arger mixed in. also pine in harvest.	o w. and red pine s	scattered througho	out. Aspen sho	ort, poor quality	due to sandy soil.
59	A6	4	58	65	aspen (upland)	mature	final harvest	2		

 ${\color{red}\textbf{comnts}} \ Fmd \ \textbf{:} \ \ Mature \ aspen \ not \ much \ mortality. \ Thick \ fir \ understory. \ Big \ w. \ pine \ scattered, \ leave \ in \ harvest.$

Total Acres...... 163

Page 2 of 2 8/31/2009

						With Limiti	ng Factors	•		
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
27	Α6	31	85	65	aspen (upland)	mature	final harvest	2		
REATMEN	IT LIMITII	NG FACT	ORS:	Delayed	d treatment for age/s	ize class diversity	/			
comnts Fm		-			or age/class distribud NE for diversity in	•	*			Possible to exclude
51	F5	11	87	70	spruce-fir (uplands- including upland black spruce)	mature	final harvest	2		
TREATMEN	IT LIMITII	NG FACT	ORS:	•	d treatment for age/s eeded (resources no					
comnts Fm	d : Stan	d is varia	ıble. M	ix of aspe	en, birch, and fir. So	ome big pine, in p	patches and cedar of	on upland and	in lowland swales.	Poor quality

hardwoods. Overstory sparse. Recommend cut all but pine,hemlock,cedar. Thick M3 and F3 under.

Proposed Treatments

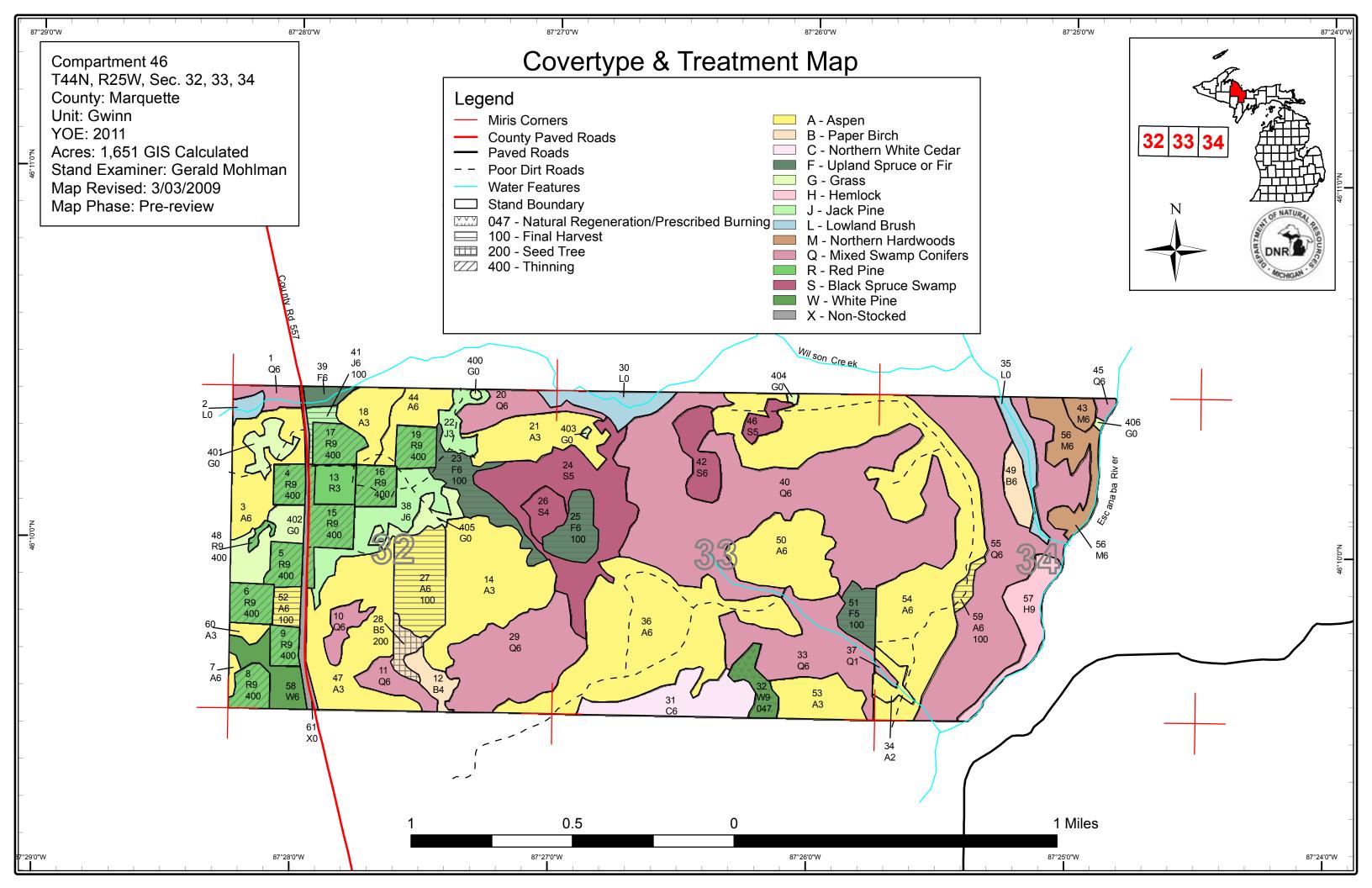
Compartment: 46

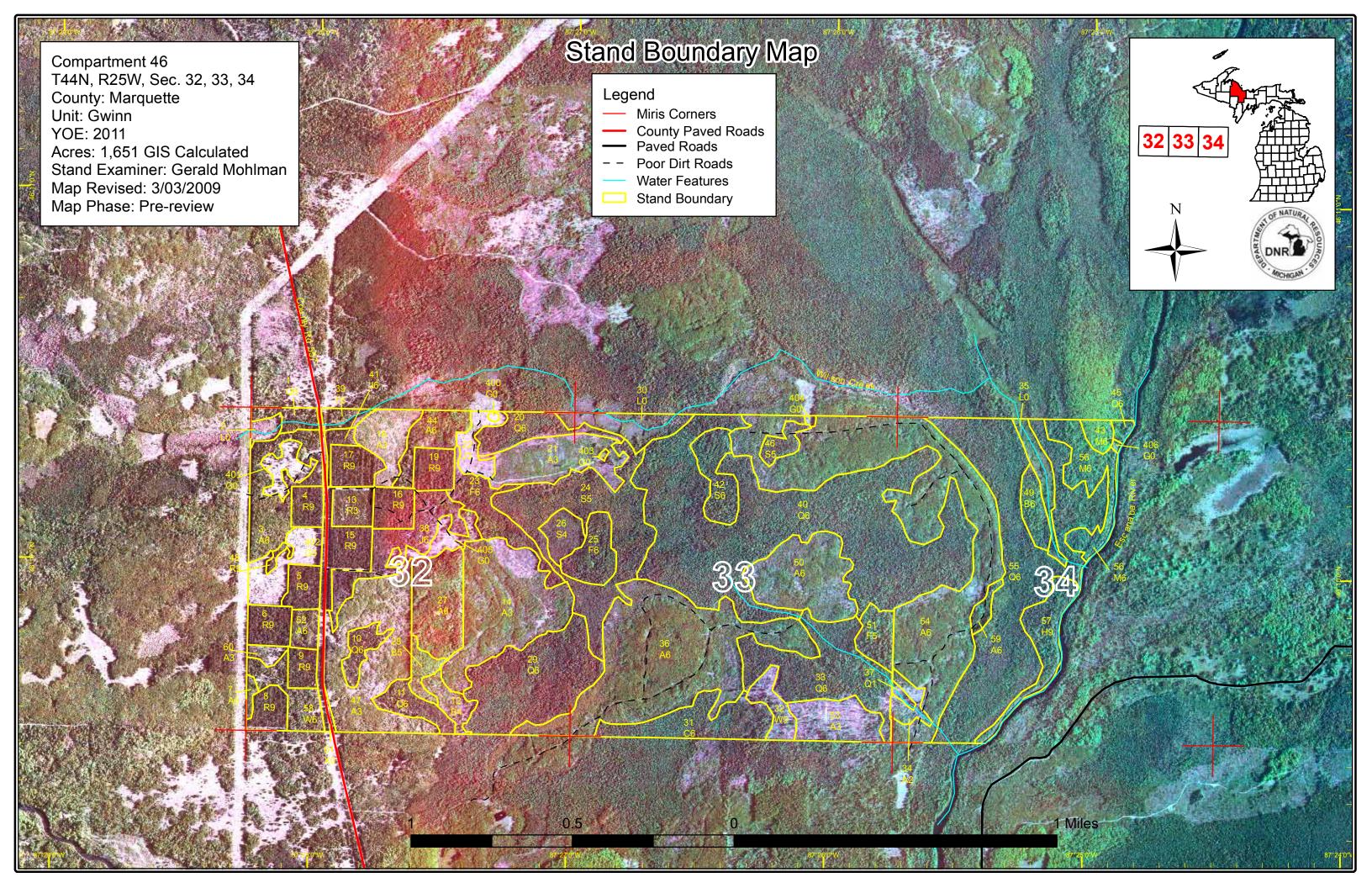
Entry Year: 2011

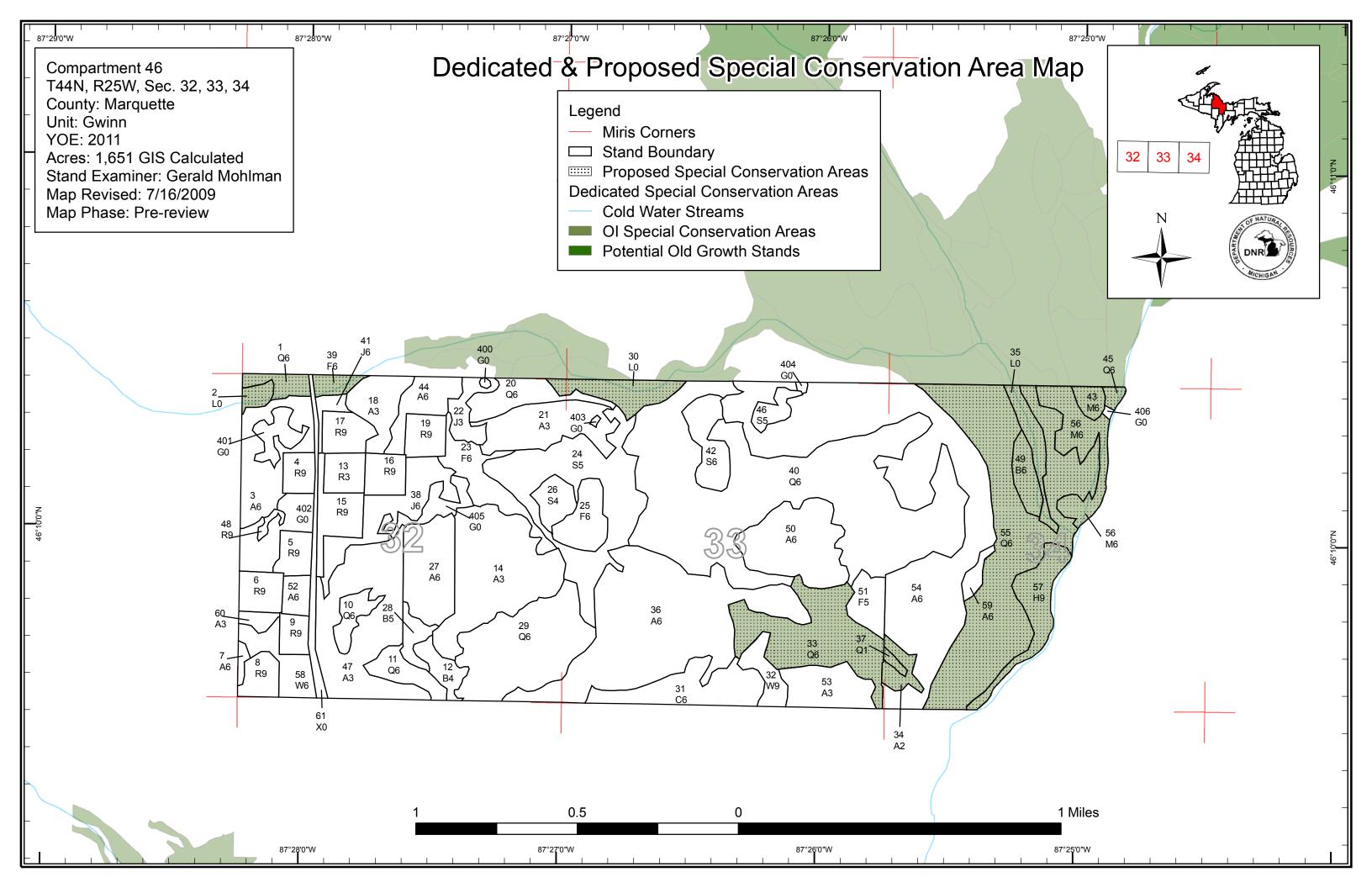
Total Acres...... 42

GWINN FOREST MGT UNIT

Page 1 of 1 8/31/2009







Report Date: 07/31/2009

Gwinn Mgt. Unit Compartment: 046



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	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 resites of cultural and historical significance that may occur upon telebottomlands. They include thousands of Native American settlement and British outposts, nineteenth century logging camps, mines are 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 maintain sensitive nature of this information, no further detail about location	rrestrial areas and Great Lakes ents and burial sites, as well as French nd homesteads. Beneath the waters of the g the maritime trade. Such sites may be ation Office. Proposed treatments in this n the integrity of these sites. Due to the
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 I trout resources by Fisheries Order 210.	s (e.g., slimy sculpin) to persist from year nditions due to substantial contributions of
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 given an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation via the Compared	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