

Revision Date: 8/20/12

Stand Examiner: Dean Wilson

Legal Description: T46N-R23W, Sections 2 and 3

RMU (if applicable): Sand River Lake Plain Management Area

Management Goals: Habitat and Vegetative

Soil and Topography: Soils are predominately poorly drained rocky loams to moderately drained loamy sands. Topography is level to slightly undulating.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Various ownerships surround this compartment including Shelter Bay Forests, Federal (USFS), and smaller non-industrial private tracts. Predominate land use is for forest production and recreation.

Unique, Natural Features: No known MNFI concerns. Potential for red-shouldered hawk in several northern hardwood stands as well as mature aspen. Potential for goshawk in hardwoods or in hemlock stands.

Archeological, Historical, and Cultural Features: None identified with HAL. This compartment is crisscrossed with old logging railroad grades from the early 1900s.

Special Management Designations or Considerations: Maintain the old growth nature of the mature northern hardwood-hemlock areas.

Watershed and Fisheries Considerations: The Sand River flows through section 2. Numerous drains and seeps feed the Sand River here as the watershed generally starts in this vicinity. Avoid and or minimize disturbances along the Sand River and its associated drains.

Wildlife Habitat Considerations: We will convert several northern hardwood stands to a spruce-fir management objective. Harvest the remaining mature aspen stand to maintain this valuable habitat type. Featured species include American marten, blackburnian warbler, and red-shouldered hawk.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of thin to discontinuous glacial till over bedrock, probably part of an end moraine of coarse-textured till. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone. Gravel pits are located to the north and west of the compartment and potential appears to be good. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Poorly established and limited to winter when ground can be frozen.

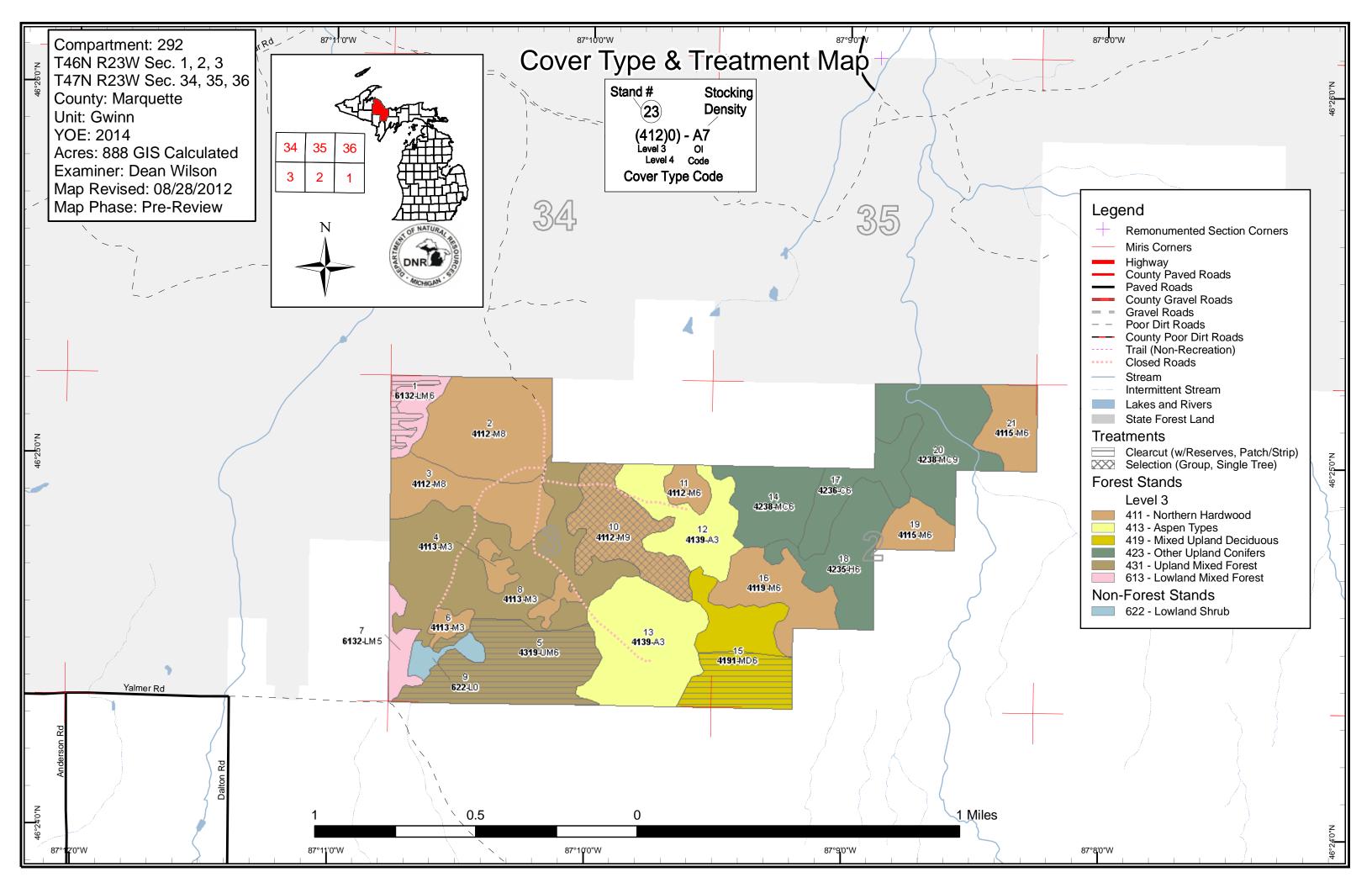
Survey Needs: None at present.

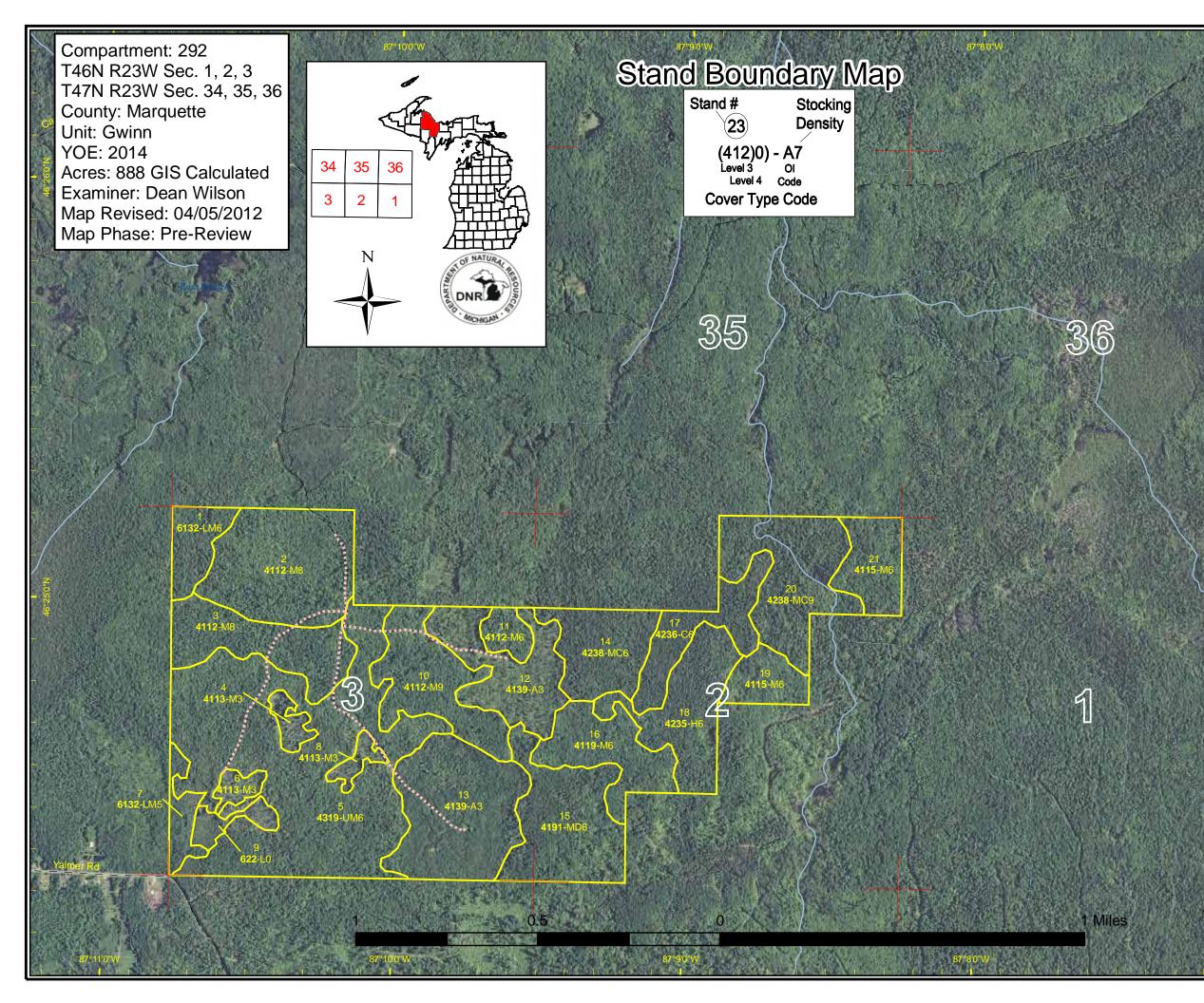
Recreational Facilities and Opportunities: Is limited to passive recreation due to the nature of the land form in this area.

Fire Protection: Low risk area-no special considerations needed.

Additional Compartment Information:

- > The following reports from the Inventory are attached:
 - Total Acres by Cover Type and Age Class
 - Proposed Treatment Summary
 - Proposed Treatments No Limiting Factors
 - Proposed Treatments With Limiting Factors
 - Stand Details (Forested and Nonforested)
 - Dedicated and Proposed Special Conservation Areas
- > The following information is displayed, where pertinent, on the attached compartment maps:
 - Base feature information, stand boundaries, cover types, and numbers
 - Proposed treatments
 - Details on the road access system





Legend

- Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads Trail (Non-Recreation) Closed Roads
-
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

- Level 3
- 411 Northern Hardwood
- 413 Aspen Types
- 419 Mixed Upland Deciduous 423 Other Upland Conifers 431 Upland Mixed Forest

- 613 Lowland Mixed Forest

Non-Forest Stands

Level 3

622 - Lowland Shrub

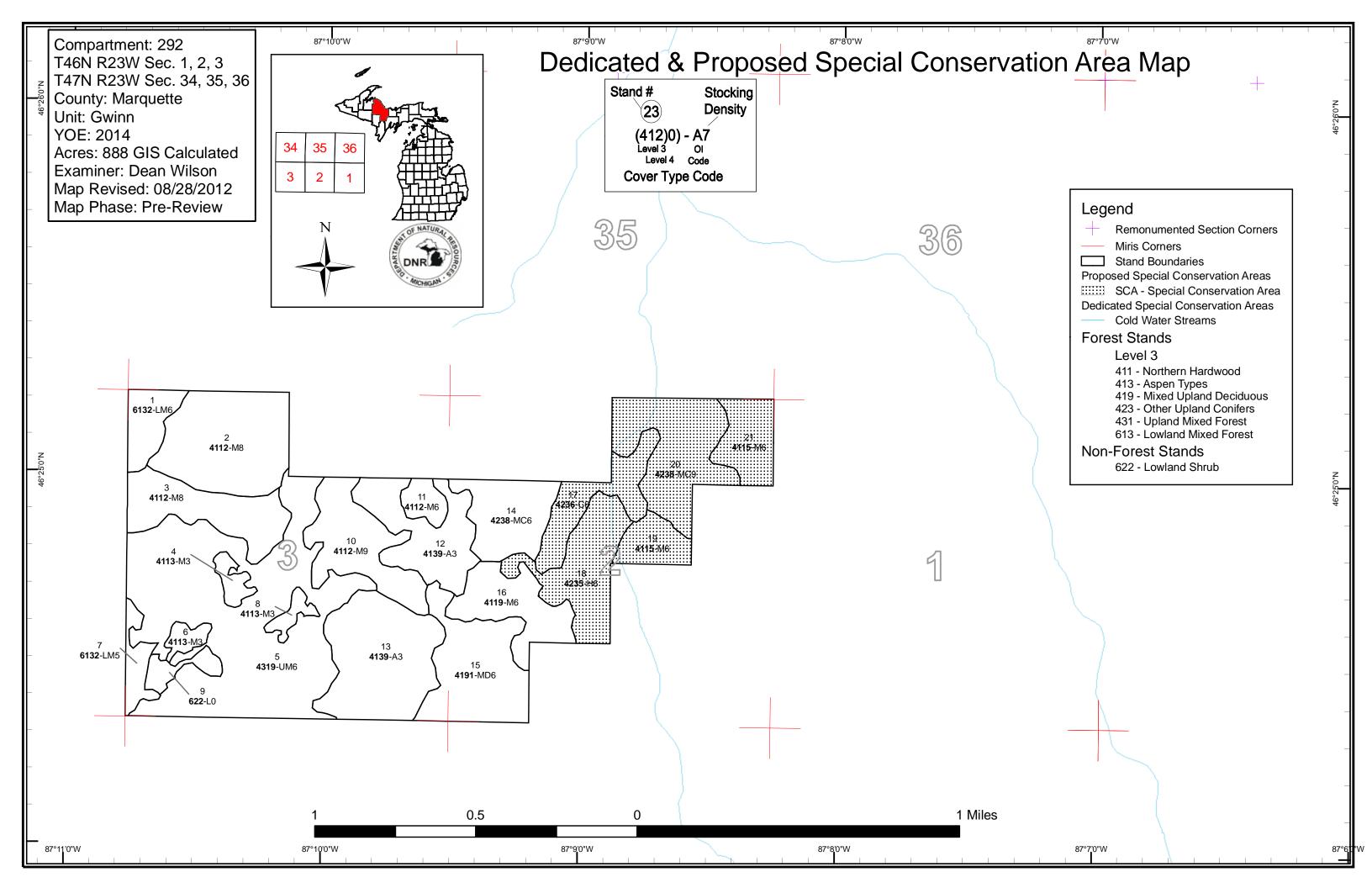
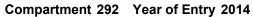


Table 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Dean Wilson : Examiner





						Age	Class									
	/	6.9	61.01	12:12	N. N	10 ⁻¹²	S. S.	69.00	6 ¹ /2	6 ³⁰ 5	65 ju	100'100	611.01.	\$0, 202 Ju	AS AS	
Aspen	47	76	0	0	0	0	0	0	0	0	0	0	0	0	123	ſ
Cedar	0	0	0	0	0	0	0	0	0	32	0	0	0	0	32	
Hemlock	0	0	0	0	0	0	0	0	0	49	0	0	0	0	49	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	31	0	0	0	0	31	
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	61	0	0	0	0	61	
Northern Hardwood	20	0	0	0	0	0	0	0	0	263	0	0	0	0	283	
Upland Conifers	0	0	0	0	0	0	0	0	0	101	0	0	0	0	101	
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	200	0	0	0	0	200	
Total	76	76	0	0	0	0	0	0	0	736	0	0	0	0	888	



Table 2 – Proposed Treatment Summaries

ANICHIOAN .	Gwinn Mgt. Unit Year of Entry 2014								Compartment Total Compartment Acres:	
			Ac	res by T	reatment T	уре				
	Commercial Harvest - 164	Site Prep - 0		Tree P	lanting - 0		Presc	ribed Burn - 0	Other - 0	
	Habitat Cut - 0	Opening Maintena	ance - 0	Tree S [,]	eeding - 0		Pestic	cide - 0		
			С	over Ty	pe by Harve	st Meth	od			
					<u>/ °/</u>	-//	de la contraction	Second		
	Lowlan	d Mixed Forest	7 0	0	0 0	0	7			
	Mixed L	Upland Deciduous	34 0	0	0 0	0	34			
	Norther	rn Hardwood	0 49	0	0 0	0	49			
	Upland	Mixed Forest	75 0	0	0 0	0	75			
		Total	115 49	0	0 0	0	164			

Table 3 -- Treatments Prescribed

S t			Gv	vinn Mgt. Unit	Tab			ents Prescrik ing Factor	bed	Compartment: 292 Year of Entry 2014	DNR DNR
a n d	Treatm Nam		Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	3229200	1-Cut	7.0	6132 - Mixed Lowland Forest with Cedar	High Density Pole	94	81-110	Harvest	Patch or Strip Clearcut	6132 - Mixed Lowland Forest with Cedar	Cmpt. Reviev Proposal
<u>Preso</u> Spec		learcut	40 to 50 fo	oot wide strips trying to	stay on hiç	gher grou	und.				
<u>Othe</u> Comi	<u>r</u> N <u>ments:</u>	o retent	ion within	strips.							
<u>Next</u> Steps		heck fo	r regenera	ation per work guideline	s.						
Propo Start [/01/201	3								
5	3229200	5-Cut	74.5	4319 - Mixed Upland Forest	High Density Pole	94	81-110	Harvest	Patch or Strip Clearcut	4113 - R.Maple, Conifer	Cmpt. Reviev Proposal
Preso Spec				stand using a combina ine if encountered. No		h cuts co	onnected w	ith strips. Targe	et the more well dra	ained areas. Retain her	nlock, cedar,
<u>Othe</u> Comi	<u>r</u> T ments:	he actu	al sale boi	undary will be determin	ed when th	e sale w	ork is starte	ed.			
<u>Next</u> Steps	C	heck fo	r regenera	ation per work instruction	on guideline	s.					
ropo	bsed	/01/201	3								
10	3229201	0-Cut	49.0	4112 - Maple, Beech, Cherry Association	High Density Loર્	94 9	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Reviev Proposal
Preso Spec				ee selection favoring so 90 square feet. Maint						rop trees per acre. Ach	ieve a residua
<u>Othe</u> Comi				in this stand in 2002 c eyes open for beech b			nd variable	size canopy gap	os. Where possible	e release the advanced	regeneration in
<u>Next</u>		heck re	generatio	n per work guidelines.							
<u>Steps</u>											
Propo		/01/201	3								
Propo			3 33.7	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	90	51-80	Harvest	Patch or Strip Clearcut	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Reviev Proposal
Propo Start I 15	<u>Date:</u> 10 3229201 <u>cription</u> H	5-Cut	33.7	Upland Deciduous with Conifer	Density Pole				Clearcut	Upland Deciduous	Proposal
Propo Start I 15 Preso Spec	<u>Date:</u> 10 3229201 <u>cription</u> H <u>cs:</u> cl <u>r</u> E	5-Cut arvest ² nipping. xtensive	33.7 //2 of this e wind thro	Upland Deciduous with Conifer stand using a combina	Density Pole tion of patc	h cuts co	onnected w	ith strips. Retain 02. Focus the ha	Clearcut	Upland Deciduous with Conifer	Proposal present. No
Propo Start I 15 Preso Spec	<u>Date:</u> 10 3229201 <u>cription</u> H <u>ss:</u> cl <u>r E</u> <u>ments:</u> n C	5-Cut arvest 7 nipping. xtensive ortern p	33.7 //2 of this e wind thro ortion. Ac	Upland Deciduous with Conifer stand using a combina	Density Pole tion of patc nern portion be determi	h cuts co	onnected w	ith strips. Retain 02. Focus the ha	Clearcut	Upland Deciduous with Conifer yellow birch, and pine if	Proposal present. No

S t a		Gwinr	Mgt. Unit	Table 4		atments imiting	s Prescribed Factor	Compartment: 292 Year of Entry 2014	DR NATURAL	
n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error							
Presc Spece	ription <u>s:</u>									
<u>Other</u> Comr										
<u>Next</u> Steps										
<u>Propos</u> Start D										
	ng Factor and N ment Reason	<u>0</u>								
Ac	Total Treatme creage Propose									

OF NATURA

Out of YOE -- Treatments Prescribed with No Limiting Factor

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Prescription Specs:									
<u>Other</u> <u>Comments:</u>									
<u>Next</u> <u>Steps:</u>									
Proposed Start Date: #Error									

Total Treatment Acreage Proposed:

0

S t	Gwinn Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 292 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6132 - Mixed Lowland Forest with Cedar	High Density Pole	18.8	94	81-110	Mixed lowland and upland
2	4112 - Maple, Beech, Cherry Association	Medium Density Log	74.2	94	51-80	Harvested in 1998: TS#25-94. Significant wind throw from storm of 7\21\02. Minor component of spruce-fir and white pine in sub- canopy.
3	4112 - Maple, Beech, Cherry Association	Medium Density Log	46.4	94	81-110	Harvested in 2008: TS#124-05-01. Stand suffered significant wind throw on 7\21\02.
4	4113 - R.Maple, Conifer	High Density Sapling	7.2	4		Harvested in 2008: TS#124-05-01
5	4319 - Mixed Upland Forest	High Density Pole	200.3	94	81-110	Use a combination of patch (3 to 5 acre) and strip cutting to treat 20 to 30 percent of this stand. Retain all cedar, hemlock, yellow birch, and any beech that may occur.
6	4113 - R.Maple, Conifer	High Density Sapling	6.4	4		Harvested in 2008: TS#124-05-01.
7	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	12.2	90	51-80	Approximately a 1 acre timber trespass occured in the southwest part of this stand historically.
8	4113 - R.Maple, Conifer	High Density Sapling	6.2	4		Harvested in 2008: TS#124-05-01.
10	4112 - Maple, Beech, Cherry Association	High Density Log	49.0	94	111-140	Conduct a selection harvest. Retain all if any beech. Favor black cherry for retention.
11	4112 - Maple, Beech, Cherry Association	High Density Pole	9.9	90	51-80	Harvested in 2008: TS#125-04-01.
12	4139 - Aspen, Mixed Deciduous	High Density Sapling	47.3	4		Harvested in 2008: TS#125-04-01.
13	4139 - Aspen, Mixed Deciduous	High Density Sapling	75.9	13		Harvested in 1999: TS#19-94-01.
14	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	38.5	94	111-140	Mixed upland and lowland.
15	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	60.9	90	51-80	Final harvest retaining hemlock, cedar, yellow birch, and any white pine that occurs. Also exclude by red lining out of the sale the pockets of cedar.
16	4119 - Mixed Northern Hardwoods	High Density Pole	39.3	90	81-110	Stand suffered significant wind throw on 7\21\02.
17	42360 - Upland Cedar	High Density Pole	32.0	94	141-170	SCA = Part of a winter deer yard complex and riparian protection for the Sand River. Mixed lowland and upland.

S t	Gwinn	Gwinn Mgt. Unit				nds Compartment: 292 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	42350 - Upland Hemlock	High Density Pole	48.7	94	51-80	SCA = Riparian zone protection for the Sand River and part of a winter deer yard complex. Latticed with drains that feed the Sand River.
19	4115 - Y.Birch, Hemlock NH	High Density Pole	18.2	90	51-80	SCA = Riparian zone protection for the Sand River.
20	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Log	62.2	94	111-140	SCA = Riparian zone protection for the Sand River. Latticed with drains that feed the Sand River.
21	4115 - Y.Birch, Hemlock NH	High Density Pole	26.1	90	51-80	SCA = Riparian zone protection for the Sand River. Mixed upland and lowland.

6 - Nonforested Stands

Compartment: 292 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
9	6223 - Inundated Shrub Swamp	9.1	No	Unspecified	Abandoned beaver flooding.



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Stand	SCA Type	SCA Name	Acres	Comments
multiple - see	Unique Site - SCA		187.1	Area is a combination of being part of a larger winter deer yard complex and riparian zone protection. WLD - part of the historic Sand River Deer wintering area.



8 – 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				
SCA	Cold Water Stream	stocked trout populations and those of other coldwater fish sp year to year. Coldwater streams in Michigan typically provide t	tream flows. Such streams are established by Director's action and				