

Gwinn Forest Management Unit Compartment Review Presentation Compartment 289 Entry Year: 2013

Compartment Acreage: 1, 438 County: Marquette

Revision Date: 08/18/2011

Stand Examiner: Dean Wilson

Legal Description: T47N R23W Sections 23, 24, and 26.

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

Management Goals: Mixed use.

Soil and Topography: Landform consists of bedrock controlled till plains and moraines and glacial drainage ways. Soils primarily are loams underlain by sandstone, poorly drained loamy soils, and poorly drained organics. Topography is predominately level with some areas that are lightly to moderately sloping.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Mostly surrounded by State land; however, there are a few adjacent small private ownerships. Land use is primarily forest production and passive recreation.

Unique, Natural Features: Contains the Sand River and a number of small streams.

Archeological, Historical, and Cultural Features: None.

Special Management Designations or Considerations: Improvement and protection of the northern hardwood resource. Best management practices and the protection of the watercourses.

Watershed and Fisheries Considerations: The Sand River is a State designated cold water trout stream. Management activities will provide for an adequate vegetation buffer and a forest type that does not encourage beaver activity.

Wildlife Habitat Considerations: Maintain or increase hemlock cover-type. Special Conservation Areas along creeks and tributaries maintain conifer to provide snow intercept, cover, mature forest structure and protection for wildlife corridors and riparian areas including vernal channels. Diversity in habitat types offers a variety of hunting and wildlife viewing opportunities. Large hemlock stands are regenerating well and have taken on some old growth characteristics which provide thermal cover, coarse woody debris, and super-canopy trees. Identify and implement strategies that increase mesic conifer such as white pine and hemlock.

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. There is not a current economic use for the Jacobsville, but it was previously used as a building stone. Gravel pits are located to the north and south 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: Good to and throughout the compartment.

Survey Needs: None.

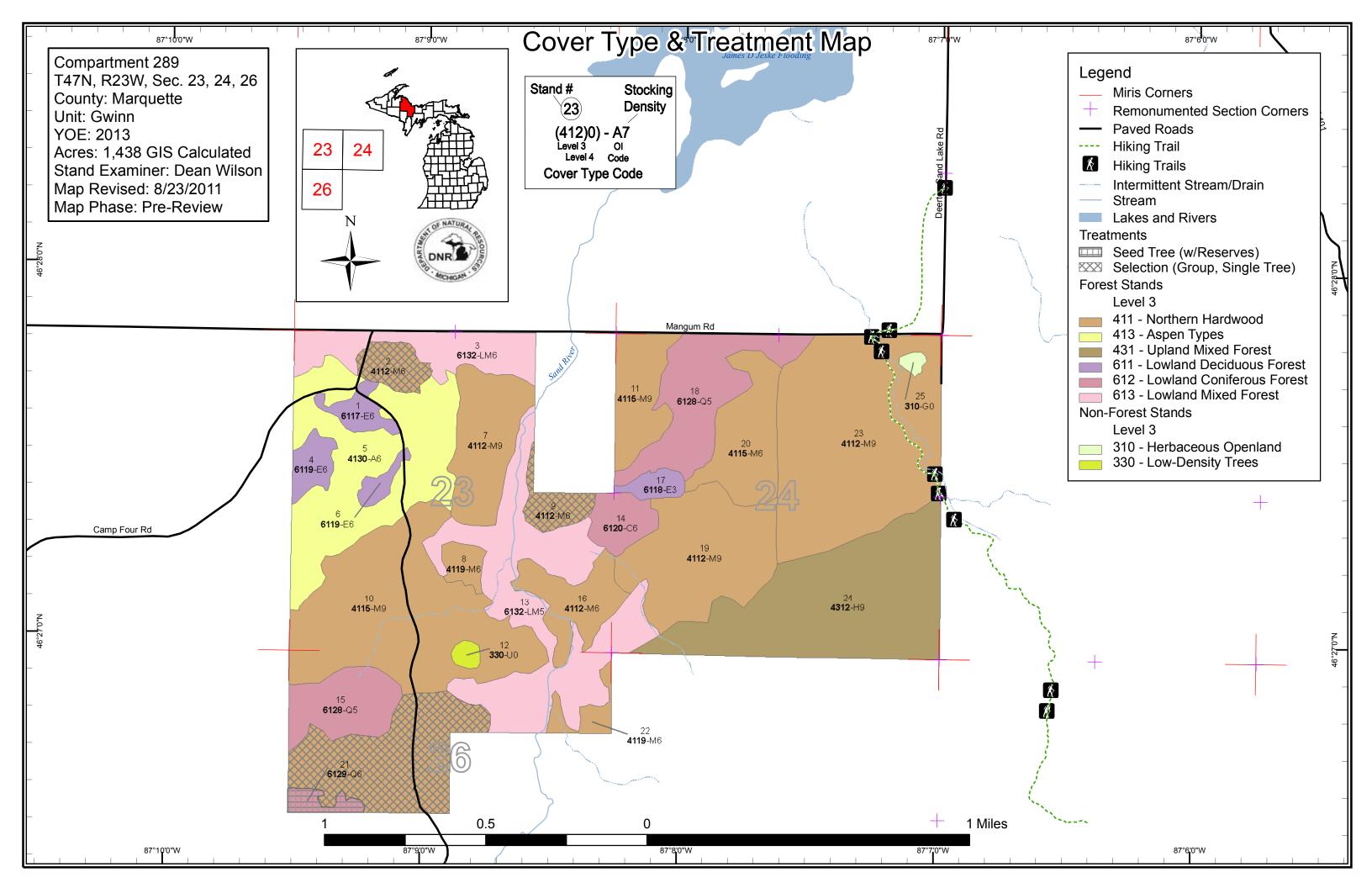
Recreational Facilities and Opportunities: This area is primarily used for passive recreation. There are no developed recreational opportunities.

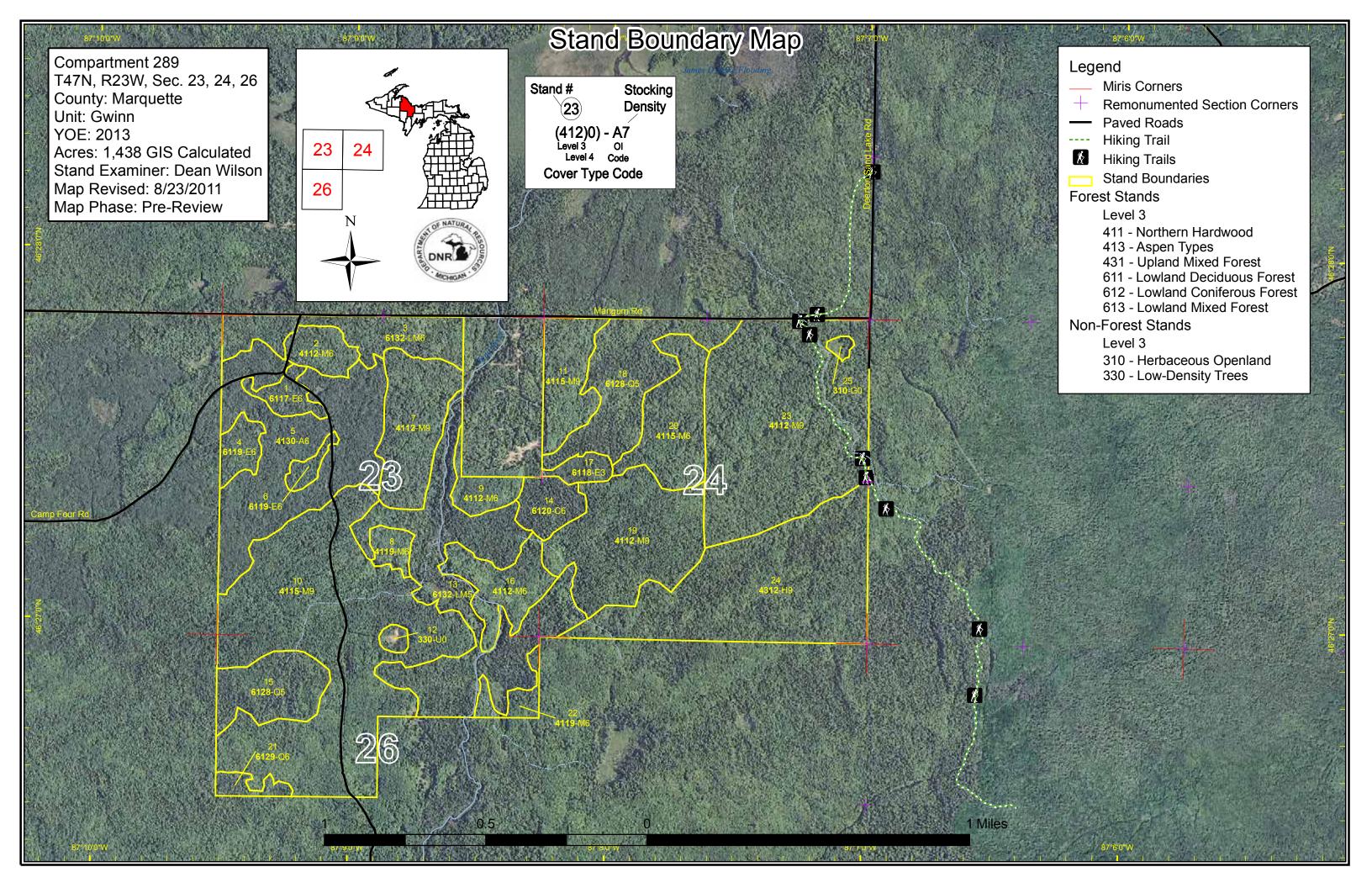
Fire Protection: Fire risk is low in this area.

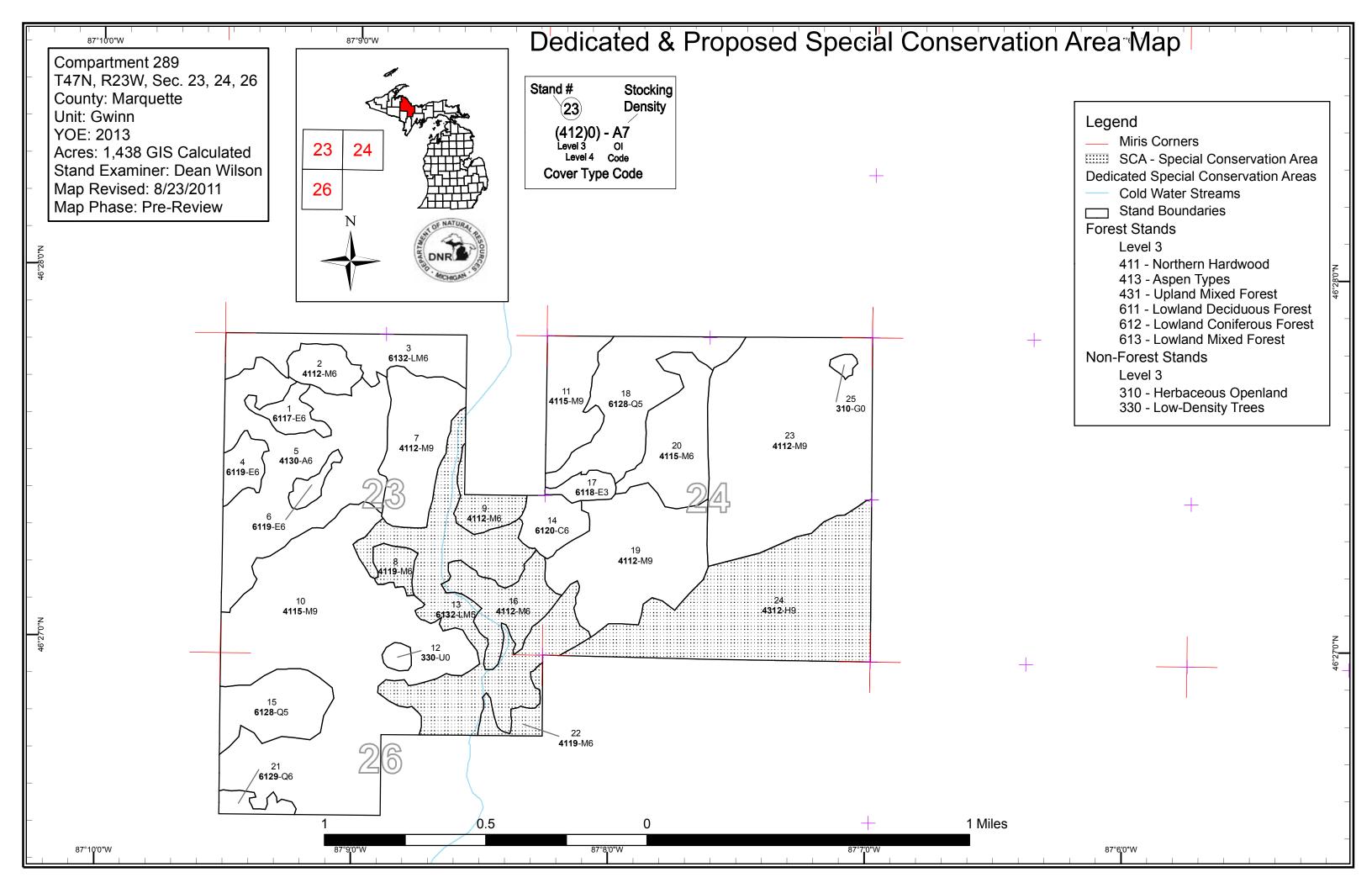
Additional Compartment Information:

- > 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

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Compartment 289 Year of Entry 2013

Gwinn Mgt. Unit
Dean Wilson: Examiner



Age Class

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Aspen	0	0	0	0	130	0	0	0	0	0	0	0	0	0	0	130	
Cedar	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	20	
Hemlock	0	0	0	0	0	0	0	0	0	160	0	0	0	0	0	160	
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Lowland Conifers	0	0	0	0	0	0	0	0	0	108	8	0	0	0	0	116	
Lowland Deciduous	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	41	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	48	137	0	0	0	0	0	186	
Northern Hardwood	0	0	0	0	0	0	0	0	0	236	544	0	0	0	0	780	j
Total	7	0	0	0	171	0	0	0	48	660	552	0	0	0	0	1438	



Table 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit

Compartment 289
Year of Entry 2013

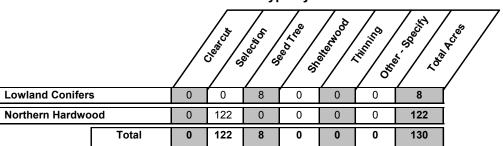
Total Compartment Acres: 1438

Acres by Treatment Type

Commercial Harvest - 130 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 0 Tree Seeding - 0 Pesticide - 0

Cover Type by Harvest Method



Gwinn Mgt. Unit s

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 289 Year of Entry 2013

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EPA	DNR
6	
0	MICHIGAN

a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	32289002-Cut	17.0	4112 - Maple, Beech, Cherry Association	High Density Pole	89	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Individual tree selection to reduce BA to between 70 and 90 sq. ft..

Specs:

Other_ Retain all hemlock, cedar, and any beech found. Maintain a spruce-fir component. Where thinning will not improve tree health leave black

Comments: cherry.

<u>Next</u> Steps:

> 4112 - Maple, Single Tree Selection 4110 - Sugar Maple 9 32289009-Cut 15.1 High Density Pole 81 Harvest Cmpt. Review Beech, Cherry Association Proposal

Association

Prescription Selectively mark trees to be harvested.

Specs:

Other_ Retain large remnant cull trees for wildlife.

Comments:

<u>Next</u> Check regeneration per work instructions.

Steps:

4115 - Y.Birch, 10 32289010-Cut 89.6 4115 - Y.Birch. High Density Log 91 Harvest Single Tree Selection Cmpt. Review Hemlock NH Hemlock NH Proposal

Prescription Individual tree selection in the quality hardwood areas maintaining a BA of 70 to 90 sq. ft.. Group selection and partial cutting of all maple,

aspen, and spruce-fir in poor quality red maple areas. Specs:

Retain all hemlock, cedar, beech, yellow birch, and black cherry. Maintain a paper birch component. Other_

Comments:

<u>Next</u> Steps:

> 32289021-Cut 6129 - Mixed Seed Tree with 6129 - Mixed Cmpt. Review 7.9 High Density Pole 90 Harvest Coniferous Lowland Reserves Coniferous Lowland Proposal Forest

Forest

Prescription Harvest all spruce, balsam fir, maple, and white birch/aspen if any.

Specs:

Retain all hemlock, cedar, white pine, and yellow birch. Include with the harvest of stand 10. Other_

Comments:

Next Check regeneration next entry.

Steps:

Total Treatment

Acreage Proposed: 129.6

S t a		Gv	vinn Mgt. Unit	Table 4		ents Prescrib ing Factor	ed with	Compartment: 289 Year of Entry 2013	DNR DICHIGAN
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Preso Spec	cription s:								
Othe Com	<u>r</u> ment:								
Next Steps	<u>5:</u>								
	ing Factor and N ment Reason	<u>lo</u>							

Total Treatment
Acreage Proposed:

0

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2013

DNR MICHIGAN

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
									_
Prescription Specs:									
Other Comments:									
Next Steps:									

Total Treatment Acreage Proposed:

0

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a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	12.6	39	51-80	Cut in 1972. Left a mixed residual.
2	4112 - Maple, Beech, Cherry Association	High Density Pole	17.0	89	111-140	Thinned in 1996: TS#22-93.
3	6132 - Mixed Lowland Forest with Cedar	High Density Pole	48.4	76	81-110	Contains upland knolls and ridges.
4	6119 - Mixed Lowland Deciduous Forest	High Density Pole	13.1	39	1-50	Cut in 1972. Left a mixed residual. Contains upland knolls and ridges.
5	4130 - Aspen	High Density Pole	129.7	39	1-50	Harvested in 1972: TS#12170A
6	6119 - Mixed Lowland Deciduous Forest	High Density Pole	6.6	39	51-80	Harvested in 1996: TS#12170A
7	4112 - Maple, Beech, Cherry Association	High Density Log	55.8	94	81-110	Selectively cut in 1996: TS#22-93.
8	4119 - Mixed Northern Hardwoods	High Density Pole	9.7	89	81-110	Actually part of stand 10. Typical second growth hardwoods.
9	4112 - Maple, Beech, Cherry Association	High Density Pole	15.1	81	111-140	Stand ranges from low quality red maple to high quality sugar maple where the land is elevated. Gravel pit and other excavation borders stand to the north.
10	4115 - Y.Birch, Hemlock NH	High Density Log	255.3	91	81-110	Thinned in 1975. North 1/2 selectively cut in 2006: TS#101-03-01. Post harvest wildlife division underplanted hemlock.
11	4115 - Y.Birch, Hemlock NH	High Density Log	37.5	95	81-110	Harvested in 1978: TS#16-76A.
13	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	137.4	89	81-110	SCA = Flood plain and other bottom lands, drainages, and seeps associated with the Sand River. Wide ranging forest cover with lowland brush and beaver meadow inclusions.
14	6120 - Lowland Cedar	High Density Pole	19.6	86	141-170	Combine with stands 9, and 11 to create a timber sale next entry.
15	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	40.4	89	81-110	Partially cuthardwoods removed.
16	4112 - Maple, Beech, Cherry Association	High Density Pole	35.9	91	81-110	Cut in the 1960s. Contains wet pocket inclusions.
17	6118 - Lowland Deciduous with Cedar	High Density Sapling	9.1	33	1-50	Harvested in 1978.
18	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	67.7	89	51-80	Cut in the 1970s. Contains upland knolls and ridges.

5 - Forested Stands

Compartment: 289

Gwinn Mgt. Unit

t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013 General Comments:
19	4112 - Maple, Beech, Cherry Association	High Density Log	97.0	94	51-80	Selectively harvested in 2007: TS#102-03-01.
20	4115 - Y.Birch, Hemlock NH	High Density Pole	51.7	91	81-110	Selectively cut in 1978: TS#16-76A. Contains wet pockets, drains, and sawlog inclusions.
21	6129 - Mixed Coniferous Lowland Forest	High Density Pole	7.9	90	111-140	Contains upland knolls and ridges.
22	4119 - Mixed Northern Hardwoods	High Density Pole	10.7	91	81-110	SCA = Sand River riparian corridor.
23	4112 - Maple, Beech, Cherry Association	High Density Log	193.8	89	81-110	Selectively cut in 1999: TS#23-93-01.
24	4312 - Hemlock, Mixed Deciduous	High Density Log	159.6	89	111-140	SCA = Part of a larger winter deer yard complex. Contains wet pockets and drains.

5 - Forested Stands

Compartment: 289

Gwinn Mgt. Unit

Gwinn Mgt. Unit

6 - Nonforested Stands

Compartment: 289 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
12	3303 - Mixed Low Density Trees	4.0	Yes	Low (NonForested)	Gravel pit created in 1993.
25	3102 - Grass	2.7	No	Unspecified	Tordon opening created in 1975.

Gwinn Mgt. Unit

Compartment: 289 Year of Entry: 2013



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
8	Unique Site - SCA	32289008	9.7	SCA-Wildlife corridor and old growth stand along the Sand River. No treatment is recommended to allow natural processes to occur.
9	Unique Site - SCA	32289009	15.1	Wildlife corridor along the Sand River.
13	Unique Site - SCA	32289013	137.4	SCA = Bottom lands, drainages and seeps associated with the Sand River. Encompasses the river's riparian zone.
16	Unique Site - SCA	32289016	35.9	SCA-Wildlife corridor along the Sand River. Stand contains old growth characteristics and no harvest is recommended to allow natural processes to occur.
22	Unique Site - SCA	32289022	10.7	SCA = Sand River riparian area and wildlife corridor. Old growth stand. No treatment is recommended to allow natural processes to occur.
24	Unique Site - SCA	32289024	159.6	SCA = Part of a large winter deer yard complex. Old Growth Stand with large hemlock and coarse woody debris. No treatment is recommended in this stand to allow natural processes to occur.

Gwinn Mgt. Unit

Compartment: 289 Year of Entry 2013



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	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other co year to year. Coldwater streams in Michigan type	olved oxygen conditions that allow naturally-reproduced or oldwater fish species (e.g., slimy sculpin) to persist from pically provide these conditions due to substantial ws. Such streams are established by Director's action and der 210.