

Gwinn Forest Management Unit Compartment Review Presentation Compartment 219 Entry Year: 2013

Revision Date: 08/18/2011

Stand Examiner: Dean Wilson

Legal Description: T46N-R28W, sections 4 and 9.

RMU (if applicable): Voelker Plains Management Area

Management Goals: Mixed use.

Soil and Topography: Primarily level outwash plains with well to excessively drained sands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Mostly surrounded by State land and smaller non-industrial private ownerships with some corporate lands along the northwest edge. Land use is primarily forest production and passive recreation.

Unique, Natural Features: The Black River and some small streams occur in this compartment.

Archeological, Historical, and Cultural Features: None.

Special Management Designations or Considerations: Maintenance and perpetuation of the pine and aspen forest type.

Watershed and Fisheries Considerations: This compartment is part of the Black River and Escanaba River watershed. Management activities will be designed to protect these watersheds.

Wildlife Habitat Considerations: Dry light soils influence a significant portion of the cover-types and wildlife communities in this area. Historic fire disturbance maintained the dry pine, soft mast producing plants and barrens communities found here. Significant soft mast in the form of choke cherry, blueberry, and serviceberry offer the public berry picking opportunities and attract many wildlife species in summer and fall especially black bear. Hunting is popular in this area for deer, bear, and woodcock. The diversity in upland cover-types and hydrology with tributaries to the Escanaba River offer a variety of trapping opportunities.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of thin glacial sand and gravel and postglacial alluvium over bedrock. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. There is not a current economic use for the Granite/Gneiss. Gravel pits are located within one mile of the compartment, and potential is uncertain. The abandoned Republic iron mine is located eight miles to the west. This compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access: Is good to and around this compartment.

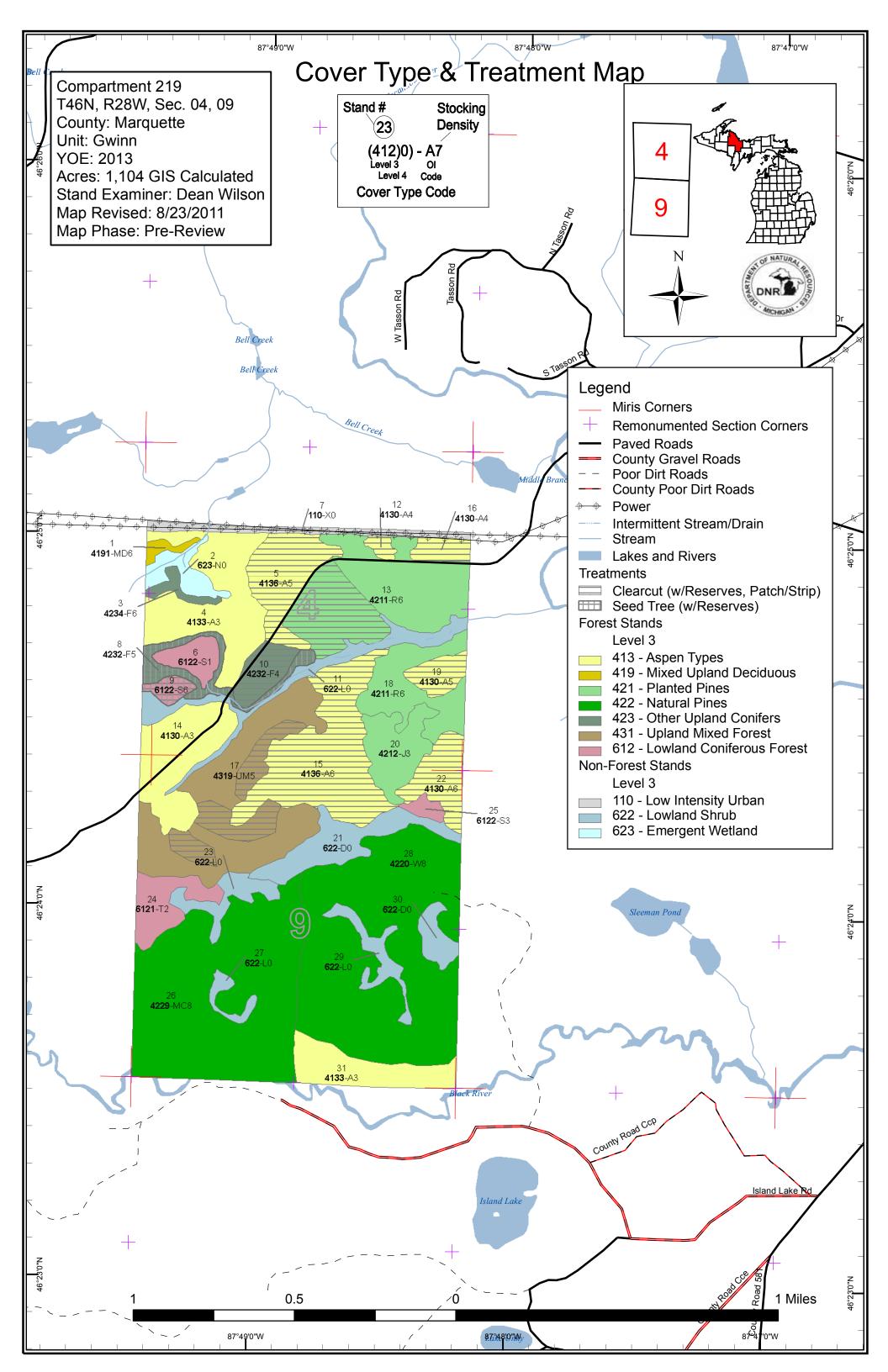
Survey Needs: None.

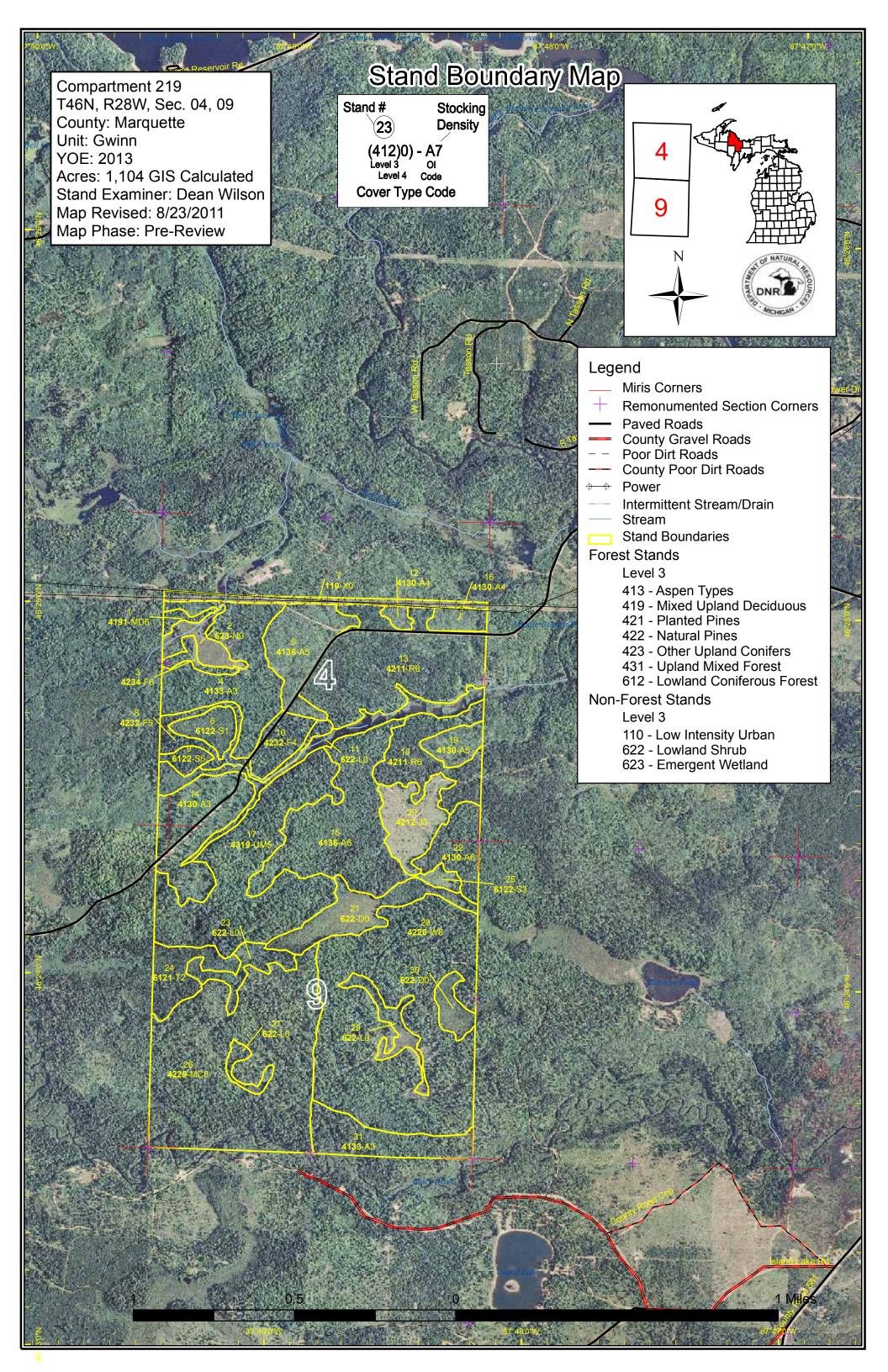
Recreational Facilities and Opportunities: This area is heavily used for passive recreation. There are no developed recreational facilities.

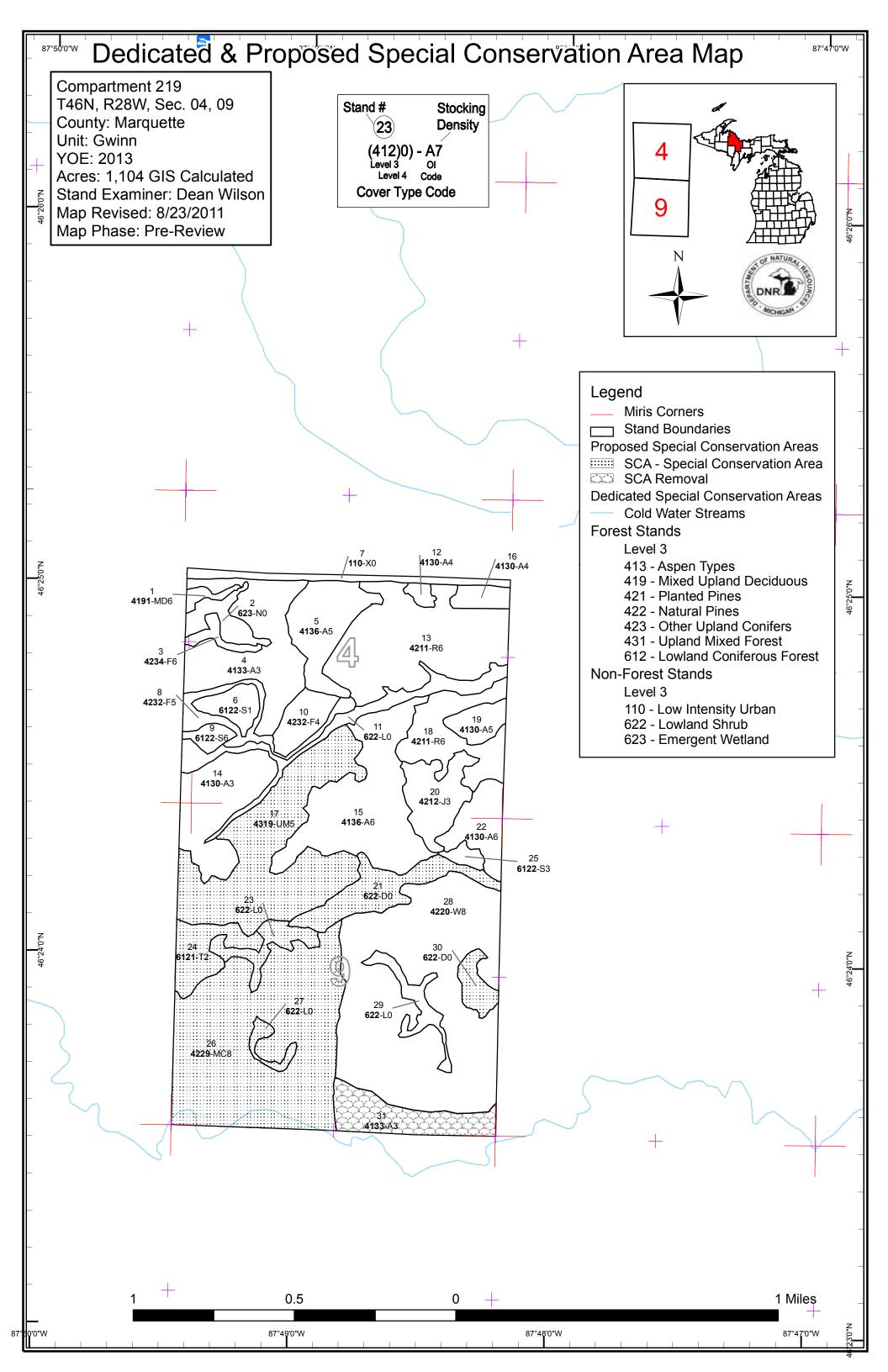
Fire Protection: Fire risk is high due to the dry nature of this landscape.

Additional Compartment Information: A rustic campground on the Black River and a cross country skiing pathway in this compartment were both abandoned in the 1980s.

- ➤ 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







Compartment 219 Year of Entry 2013

Gwinn Mgt. Unit
Dean Wilson: Examiner



Age Class

							Age	JIdSS									
	Hor	A SECOND	 0;	0.0	, c. ,	No. No.	LO'AS	\$5.00 /	8,0	, no.	\$ 6.	8 /	on on one	,70,70 0,70	70 [*] 30°	RS /	, io
Aspen	0	45	60	30	57	0	101	0	0	0	0	0	0	0	0	293	
Jack Pine	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27	1
Lowland Shrub	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	1
Lowland Spruce/Fir	0	4	0	0	0	0	12	0	0	6	0	0	0	0	0	21	1
Marsh	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	ĺ
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	ĺ
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	164	0	0	0	0	164	ĺ
Red Pine	0	0	0	0	0	89	36	0	0	0	0	0	0	0	0	124	ĺ
Tamarack	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	21	ĺ
Treed Bog	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	ĺ
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	105	0	0	0	0	105	ĺ
Upland Spruce/Fir	0	0	0	0	0	0	0	15	5	16	0	0	0	0	0	36	İ
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	ĺ
White Pine	0	0	0	0	0	0	0	0	0	0	185	0	0	0	0	185	
Total	125	76	60	30	57	110	148	15	9	22	453	0	0	0	0	1104	



Table 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit

Compartment 219

Year of Entry 2013

Total Compartment Acres: 1104

Acres by Treatment Type

Commercial Harvest - 230 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

		Cover Type by Harvest Method									
		/	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 Jo		O O O	Citizano de la companya della companya della companya de la companya de la companya della compan		R. R		
Aspen		157	0	0	0	0	0	157			
Lowland Spruce/	Fir	0	0	6	0	0	0	6			
Red Pine		36	0	0	0	0	0	36	,		
Upland Mixed Fo	rest	30	0	0	0	0	0	30			
Upland Spruce/F	ir	15	0	16	0	0	0	31			
	Total	238	0	22	0	0	0	260			

Compartment: 219 Gwinn Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2013 s t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment** Cover Type **Approval** n CoverType Density Method Name Objective Status Type d Age 5 32219005-Cut 34.4 4136 - Aspen, Medium Density 35 Harvest Clearcut with 42120 - Planted Jack Cmpt. Review Mixed Conifer Pole Reserves Pine Proposal Prescription Clearcut. Specs: **Other** Retain any existing spruce, red and white pine that occur. Comments: <u>Next</u> Herbicide then disk trench and direct seed to jack pine. Check regeneration per work guidelines. Steps: Medium Density 8 32219008-Cut 16.0 42320 - Upland 89 Harvest Seed Tree with 42340 - Upland Cmpt. Review Spruce Pole Reserves Spruce/Fir Proposal Prescription Harvest all trees except marked spruce-fir seed trees and red and white pine. Specs: Retain any cherry if it occurs. When marking seed trees also consider marking wildlife trees. Other_ Comments: <u>Next</u> Check for regeneration per work guidelines. Steps: 32219009-Cut Seed Tree 6122 - Black Spruce 5.7 6122 - Black Spruce High Density Pole Harvest Cmpt. Review Proposal Prescription Patch and strip cut 70% of this stand leaving residual to provide seed. Specs: Other_ Avoid the wetter areas in the stand. Comments: Check for regeneration per work guidelines. <u>Next</u> Steps: 10 32219010-Cut 15.0 42320 - Upland Low Density Pole 60 Harvest Clearcut with 42340 - Upland Cmpt. Review Spruce Reserves Spruce/Fir Proposal

Prescription Harvest all merchantable trees that are not red or white pine, and cherry. Selectively mark the defective white pine to be included in the cut.

Specs:

Other_

This stand was partially cut in 1996 leaving all the softwoods. This harvest will be an overstory removal releasing what has regenerated.

Comments:

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

Steps:

12 32219012-Cut 3.3 4130 - Aspen Low Density Pole 35 Harvest Clearcut with 42120 - Planted Jack Cmpt. Review Pine Reserves Proposal

Prescription Clearcut all trees excepting red and white pine if they occur.

Specs:

Other_ Herbiciding will be necessary.

Comments:

Herbicide, disk trench and direct seed to jack pine. Check regeneration per work guidelines.

<u>Next</u> Steps:

s t		Gwinn Mgt. Unit				atments Pres imiting Fact		Compartment: 219 Year of Entry 2013	OF WATURATOR	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
13	32219013-Cut	36.1	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	45	Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal	
	<u>Prescription</u> Clearcut all tree species excepting natural red and white pine, and any cherry that may occur. Disk trench and plant red pine post harvest. <u>Specs:</u> Include the planted red pine in this harvest.									
Other Comr	_ This star ments:	nd was m	nachine planted in 19	65 and suffered sigr	nificant se	eedling mortality.				
Next Steps		egenerati	on per work guideline	es.						
15	32219015-Cut	79.0	4136 - Aspen, Mixed Conifer	High Density Pole	50	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal	
	<u>Prescription</u> Clearcut all tree species excepting red and white pine, spruce less than 6 inches on the stump, and any cherry that may occur. <u>Specs:</u>									
Other Comr	Consider	r marking	g miscellaneous wildli	fe trees.						
Next Steps		egenerati	on per work guideline	es.						
16	32219016-Cut	7.9	4130 - Aspen	Low Density Pole	35	Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal	
Preso Spec		all trees	excepting red and wl	hite pine.						
Other Comr	_ Herbicidi nents:	ing will be	e necessary.							
Next Steps		e, disk tre	ench and direct seed	to jack pine. Check	regener	ation per work g	uidelines.			
17	32219017-Cut	29.9	4319 - Mixed Upland Forest	Medium Density Pole	98	Harvest	Patch or Strip Clearcut	4113 - R.Maple, Conifer	Cmpt. Review Proposal	
Preso Spec		nd strip cu	ut of intolerant specie	es to induce their rec	generatio	n.				
Other Comr	_ Design s ments:	ale to av	roind areas that are h	eavy to red\white pi	ne and oa	ak.				
<u>Next</u>	ext Check regeneration per work instructions.									

Steps:

19

4130 - Aspen

Pole

42120 - Planted Jack Cmpt. Review Pine Proposal Medium Density 33 Harvest Clearcut with Reserves

<u>Prescription</u> Clearcut all trees excepting red and white pine.

Specs:

<u>Other</u> Herbiciding will be necessary.

32219019-Cut 11.0

Comments:

Herbicide, disk trench and direct seed to jack pine, Check regeneration per work guidelines.

<u>Next</u> Steps: Gwinn Mgt. Unit

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 219
Year of Entry 2013

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t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	32219022-Cut	21.7	4130 - Aspen	High Density Pole	50	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal

 $\underline{\textbf{Prescription}} \ \ \textbf{Clearcut all trees excepting red and white pine, spruce less than 6 inches on the stump, and any cherry that may occur.}$

Specs:

s

Other Consider marking a fes wildlife trees.

Comments:

Next Check regeneration per work guidelines.

Steps:

Total Treatment

Acreage Proposed: 260.1

Gwinn Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 219 a Limiting Factor s Year of Entry 2013 t **Treatment** n **Treatment Acres** Stage1 Size Stand **Treatment Cover Type Approval** Name CoverType Density Method Objective Status Age Type d #Error **Prescription** Specs: <u>Other</u> Comment: <u>Next</u> Steps: Limiting Factor and No

Total Treatment Acreage Proposed:

Treatment Reason

0

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2013

DNR DNR DRAW

Treatment Cover Type Objective Approval Status **Treatment Treatment Acres** Stage1 Size Stand Name CoverType Density Method Age Type <u>Prescription</u> Specs:

Total Treatment

Other Comments: Next Steps:

Acreage Proposed:

0

s t	Gwinn Mgt. Unit			5 – Fo	orested Sta	Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	3.5	70	81-110	Stand was retained as a buffer for a large beaver pond/meadow complex.
3	42340 - Upland Spruce/Fir	High Density Pole	5.4	70	51-80	Stanad was retained as a buffer to a large beaver pond/meadow complex.
4	4133 - Aspen, Mixed Pine	High Density Sapling	59.6	14	1-50	Harvested in 1996. Oak, cherry, red and white pine and white birch seed trees retained.
5	4136 - Aspen, Mixed Conifer	Medium Density Pole	34.4	35	1-50	Severe aspen decline.
6	6122 - Black Spruce	Low Density Sapling	11.5	50	1-50	Fairly non-productive treed bog.
8	42320 - Upland Spruce	Medium Density Pole	16.0	89	51-80	
9	6122 - Black Spruce	High Density Pole	5.7	89	51-80	Some upland areas occur.
10	42320 - Upland Spruce	Low Density Pole	15.0	60	1-50	Harvested in 1996: TS#11-96. All softwood was retained.
12	4130 - Aspen	Low Density Pole	3.3	35	1-50	Severe aspen mortality-50 percent plus mortality.
13	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	88.6	45	81-110	Machine planted to red pine in 1965. Significant failed areas especially on the west side.
14	4130 - Aspen	High Density Sapling	45.5	6	1-50	Harvested in 2004: TS#310-04-01. White and red pine, some large cull maple, and seed trees of spruce-fir and white birch retained.,
15	4136 - Aspen, Mixed Conifer	High Density Pole	79.0	50	51-80	Significant aspen decline. Stand contains red pine that was planted in 1965.
16	4130 - Aspen	Low Density Pole	7.9	35	1-50	Severe aspen decline-50 percent plus mortality.
17	4319 - Mixed Upland Forest	Medium Density Pole	104.5	98	81-110	Majority of stand was partially harvested in 1965. Good manageable general forest in need of regeneration.
18	42110 - Planted Red Pine	High Density Pole	35.6	50	81-110	Machine planted in 1960. Seedling survival rate was 50 to 60 percent. Severe aspen decline. Portions of this stand will be able to be thinned next entry.
19	4130 - Aspen	Medium Density Pole	11.0	33	1-50	Severe aspen decline. 50% or higher mortality.
20	42120 - Planted Jack Pine	High Density Sapling	26.6	4		Harvested in 2004: TS#109-03-01. Trenched and direct seeded to jack pine in 2006.

5 - Forested Stands

S t	Gwinn Mgt. Unit			5 – Fe	orested Sta	Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4130 - Aspen	High Density Pole	21.7	50	81-110	Significant aspen decline.
24	6121 - Tamarack	Medium Density	20.9	45	1-50	
25	6122 - Black Spruce	High Density Sapling	4.2	6		Harvested in 2004: TS#109-03-01.
26	42290 - Natural Mixed Pine	Medium Density Log	164.2	98	51-80	Last cut in 1965. Large canopy gaps resulting from extensive blow down caused by the storn of 7\21\02.
28	42200 - Natural White Pine	Medium Density Log	184.7	98	81-110	Harvested in 1987: TS#28-82A.
31	4133 - Aspen, Mixed Pine	High Density Sapling	30.4	23	1-50	Harvested in 1987: TS#28-82A. Predominately an A3 stand that contains red and white pine. The pines are heaviest on the west and east sides of the stand.

6 - Nonforested Stands

Compartment: 219 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6233 - Wet Meadow	12.3	No	Unspecified	New and old beaver ponds and meadows.
7	11 - Low Intensity Urban	14.1	No	Unspecified	Major powerline right of way.
11	6223 - Inundated Shrub Swamp	27.5	No	Unspecified	String of many beaver ponds and meadows along Bell's Creek bottom land.
21	6224 - Treed Bog	30.7	No	Unspecified	
23	6220 - Alder/willow	13.8	No	Unspecified	
27	6220 - Alder/willow	4.9	No	Unspecified	
29	6220 - Alder/willow	11.8	No	Unspecified	
30	6224 - Treed Bog	9.6	No	Unspecified	

Gwinn Mgt. Unit

Compartment: 219 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
17	Unique Site - SCA	32219017	104.5	Majority of this stand was partially cut in 1965.
24	Unique Site - SCA	32219024	20.9	Wetland protection of a drain that feeds Sleeman Pond and eventually the Escanabe River.
26	Unique Site - SCA	32219026	164.2	SCA = Dry mesic forest protection.
31	SCA Removal	32219031	30.4	Mostly as A3 stand resulting from a commercial harvest in 1987.
21	Unique Site - SCA	NF_32219021	30.7	Wetland protection of drain that feeds Sleeman pond and eventually the Escanabe River.
23	Unique Site - SCA	NF_32219023	13.8	Wetland protection of a drain that feeds Sleeman Pond and eventually the Escanabe River.
27	Unique Site - SCA	NF_32219027	4.9	Part of a larger SCA complex.
30	Unique Site - SCA	NF_32219030	9.6	Wetland protection of a drain that feeds Sleeman Pond and eventually the Escanaba River.

Gwinn Mgt. Unit

Compartment: 219 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	3h		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 ty	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 ows. Such streams are established by Director's action and der 210.