

Gwinn Forest Management Unit Compartment Review Presentation Compartment 104 Entry Year: 2014

Compartment Acreage: 1,291 County: Alger

Revision Date: 8/20/12

Stand Examiner: Jennifer Burnham

Legal Description: T45N R22W Section(s) 6, 7, 18

RMU (if applicable): Chatham/AuTrain Moraines Management Area

Management Goals: Improve the quality of the extensive northern hardwood stands through selective management while maintaining the conifer content and den trees for wildlife.

Soil and Topography: Terrain is mostly level to slightly rolling. Soils range from organic swamps and poorly drained loamy soils to well drained loams. Major soils series include Kalkaska, Munising, Keweenaw.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is bordered on the north by private non-industrial ownership, on the west by private and corporate lands, and on the east and south by State lands. Primary land use is production of commercial forest products and low intensity recreation.

Unique, Natural Features: None identified with MNFI. There is a potential for rare plants of rich mesic forests: Carex assiniboinensis, showy orchis, green spleenwort, Ginseng, Goblin Fern. Potential for RSH in numerous M9 stands. Potential for wood turtle along McMaster's Creek.

Archeological, Historical, and Cultural Features: None listed with HAL. Evidence of old logging camps.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: McMasters Creek and tributaries

Wildlife Habitat Considerations: Featured species include bobolink, Canada goose, northern goshawk and upland sandpiper

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River and Prairie du Chien Groups and Cambrian Trempealeau Formation subcrop below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. A gravel pit is located just to the north 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: Access to the compartment from the north is via Sundell Road. Access from the west is restricted by private lands.

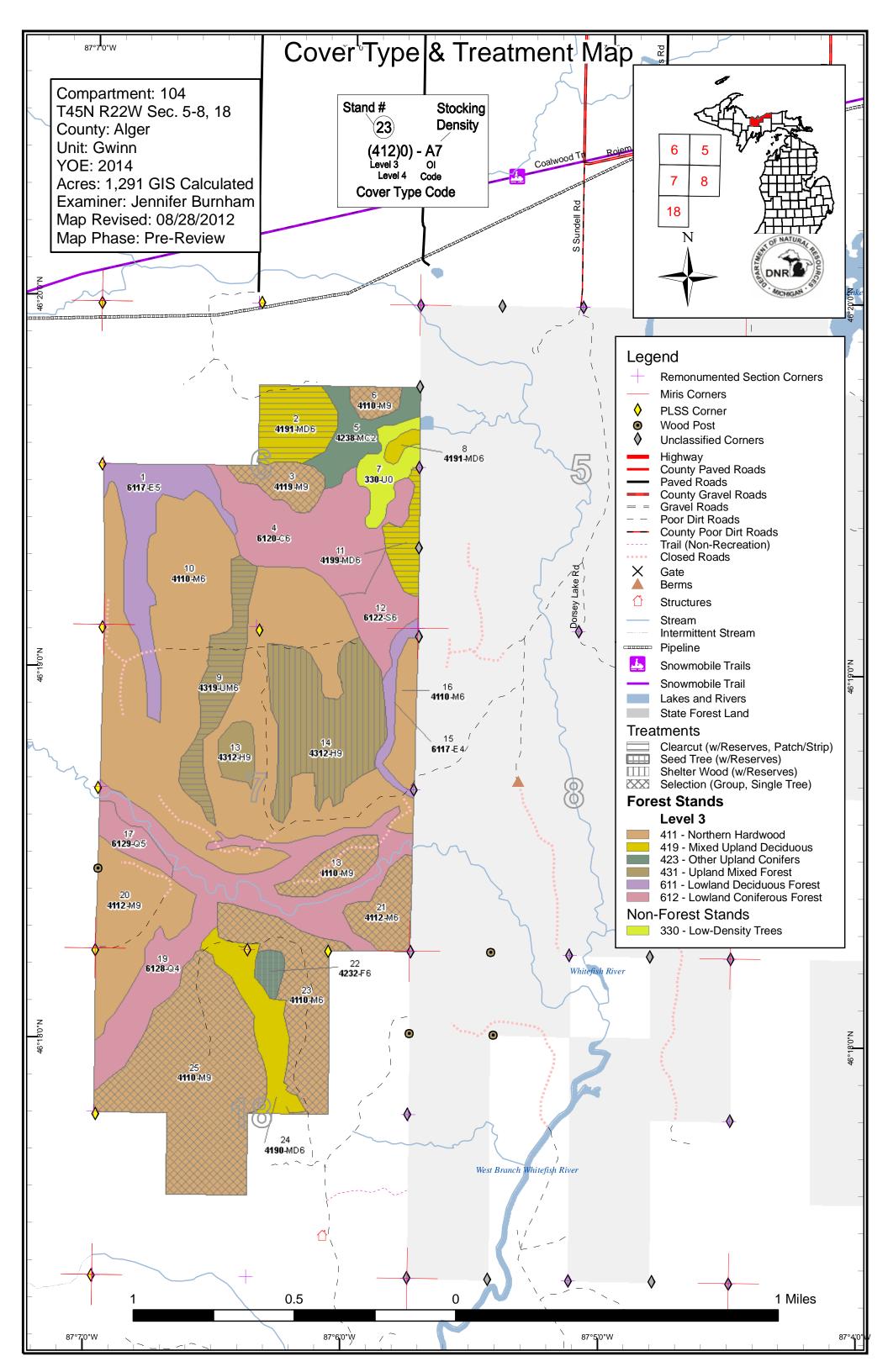
Survey Needs: Survey work may be needed for sales on the very north and south end of the compartment.

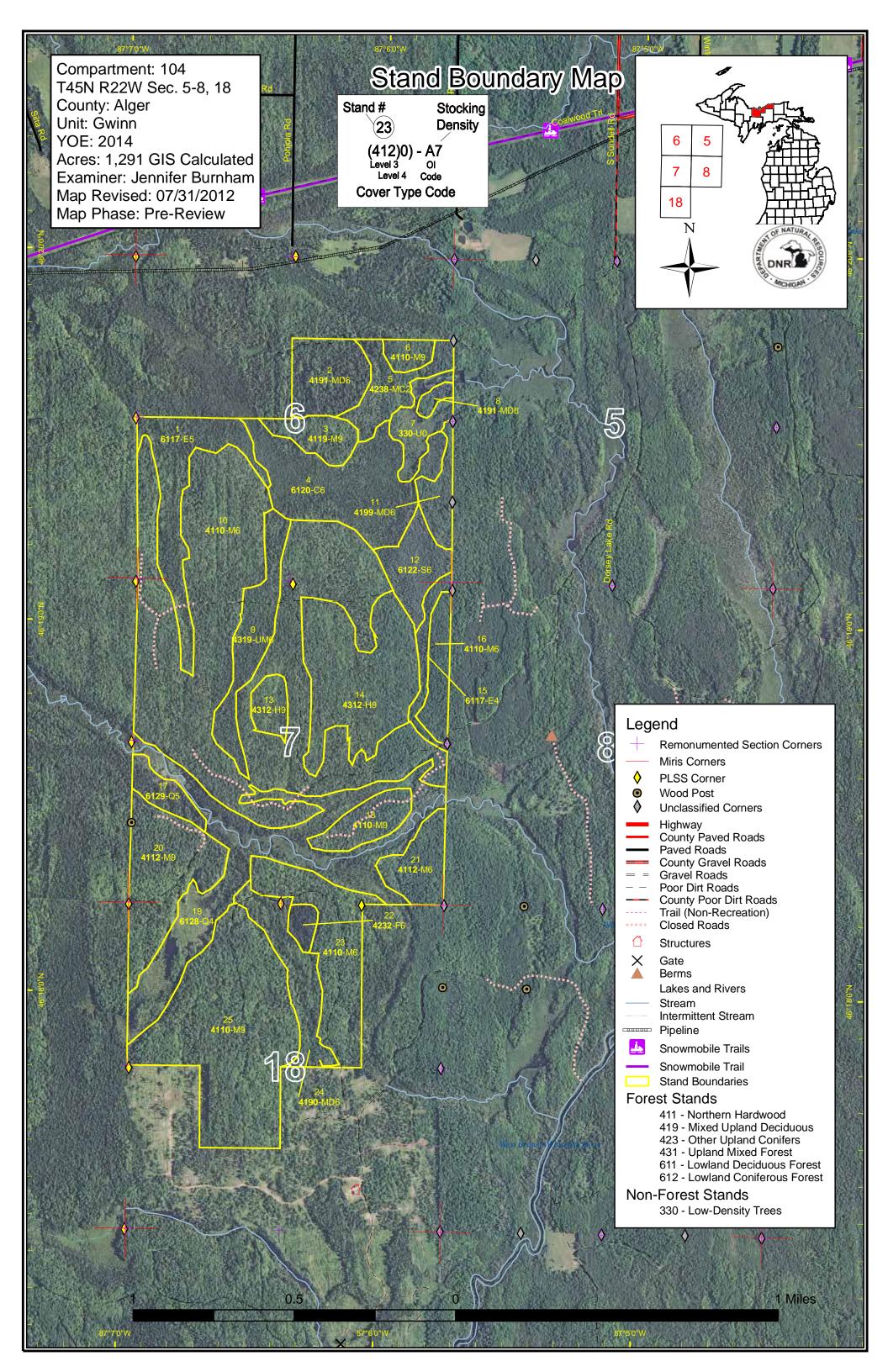
Recreational Facilities and Opportunities: No developed facilities but some of the two-tracks are used in the winter by dogsled teams. Otherwise, mainly hunting (deer, grouse) and fishing.

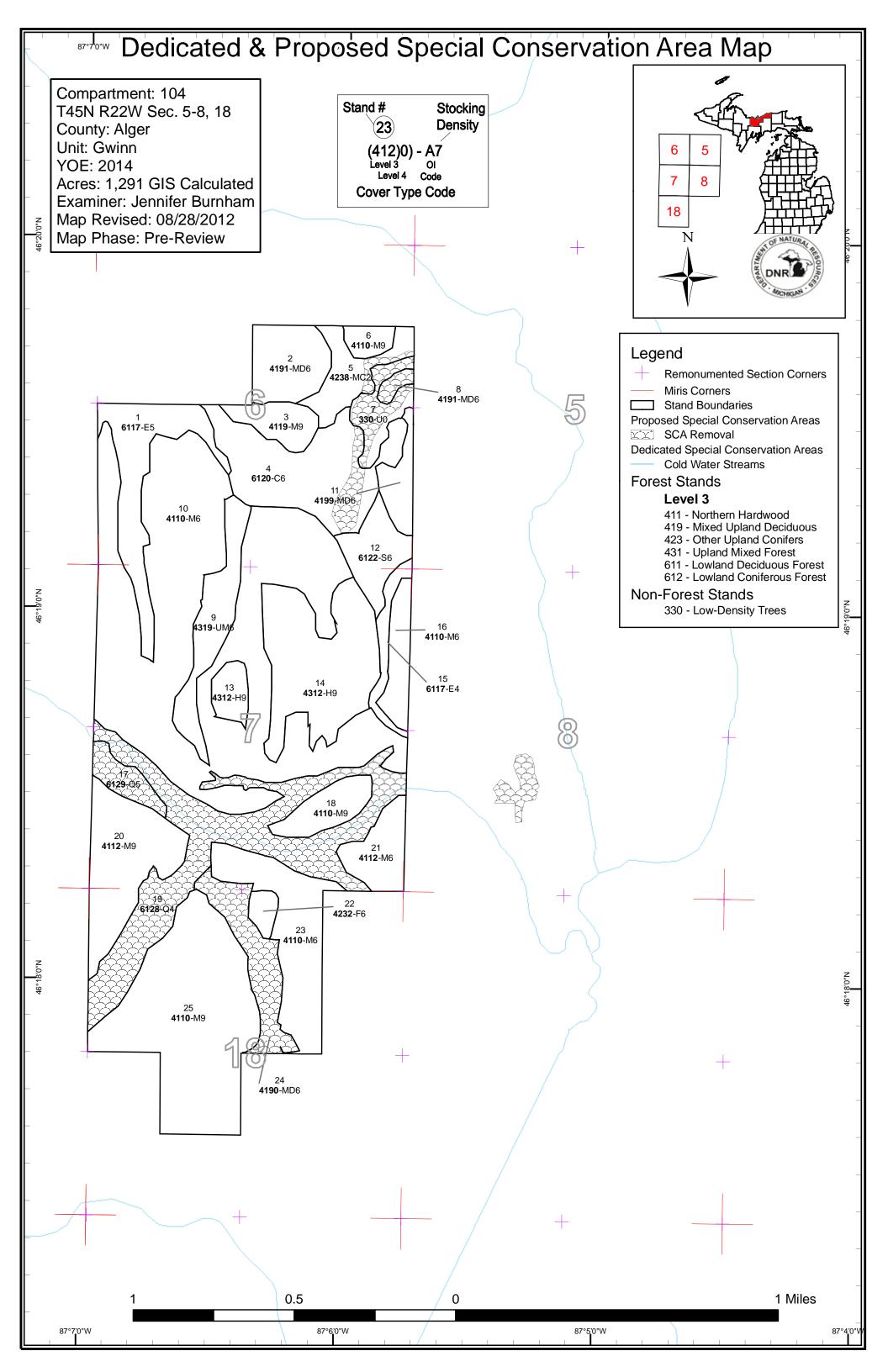
Fire Protection: Very low risk area.

Additional Compartment Information:

- **➤** 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







Compartment 104 Year of Entry 2014

Gwinn Mgt. Unit

Jennifer Burnham : Examiner



						Age	Class									
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Cedar	0	0	0	0	0	0	0	82	0	0	0	0	0	0	82	
Hemlock	0	0	0	0	0	0	0	0	0	0	0	12	0	88	100	
Low-Density Trees	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
Lowland Conifers	0	0	0	0	0	0	0	0	0	141	0	0	0	0	141	
Lowland Deciduous	0	0	0	0	0	0	0	53	0	12	0	0	0	0	65	
Lowland Spruce/Fir	0	0	0	0	0	26	0	0	0	0	0	0	0	0	26	
Mixed Upland Deciduous	0	0	0	0	0	19	0	34	0	35	0	0	0	0	88	
Northern Hardwood	0	0	0	0	0	0	0	0	46	295	0	0	0	356	698	
Upland Conifers	0	0	27	0	0	0	0	0	0	0	0	0	0	0	27	
Upland Mixed Forest	0	0	0	0	0	0	0	38	0	0	0	0	0	0	38	
Upland Spruce/Fir	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7	
Total	19	0	27	0	7	46	0	207	46	483	0	12	0	445	1291]



Table 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit

Compartment 104 Year of Entry 2014 **Total Compartment Acres: 1291**

Acres by Treatment Type

Commercial Harvest - 463 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

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Hemlock		0	0	0	88	0	0	88	
Mixed Upland De	ciduous	49	0	0	0	0	0	49	
Northern Hardwo	od	0	281	0	0	0	0	281	
Upland Mixed Fo	rest	38	0	0	0	0	0	38	•
Upland Spruce/F	ir	0	0	7	0	0	0	7	
	Total	87	281	7	88	0	0	463	

Table 3 -- Treatments Prescribed with No Limiting Factor

Comp Year

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of Entry 2014	DNR
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a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	32104002-Cut	33.9	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	72	81-110	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Specs:

Prescription Final harvest stand to promote aspen regeneration - small est 2 acre patch of maple should be marked to help promote favorable hardwood

regeneration. Save some of the mast producing black cherry, wind firm spruce and forked aspen.

Other Comments: WLD- Save some of the mast producing black cherry, wind firm spruce and forked aspen.

<u>Next</u> Monitor for acceptable regeneration mix of aspen, conifers and hardwood.

Steps:

<u>Proposed</u>

10/01/2013 Start Date:

32104003-Cut High 3 18.2 4119 - Mixed 80 111-140 Single Tree 4116 - Mixed N. Cmpt. Review Harvest Northern Hardwoods Density Log Selection Hardwood - Aspen Proposal

Prescription Mark to promote and release regeneration of spp present BA of 70-90. Some areas will have more or larger canopy gaps especially where the

quality is poor. The small patch of higher quality hardwood should have the "typical" hardwood selection cut. Move stand into uneven aged. Specs:

Other_

WLD- Save some of the mast producing black cherry, wind firm spruce and forked aspen.

Comments:

<u>Next</u> Monitor for regeneration containing the spp already present.

Steps:

Proposed

10/01/2013 Start Date:

32104006-Cut 8.6 4110 - Sugar Maple High 80 111-140 Harvest Single Tree 4110 - Sugar Maple Cmpt. Review Association **Density Log** Selection Association Proposal

Prescription Mark following hardwood marking guidelines BA 70-90- edges contain more diversity larger canopy gaps in those areas will help to maintain this.

Specs:

WLD-If available leave some larger Big Tooth Aspen (forked crowned) should be left in retention. Other_

Comments:

Monitor for regeneration of spp currently present. <u>Next</u>

Steps:

Proposed

10/01/2013 Start Date:

32104011-Cut 15.3 4199 - Other Mixed High 52 51-80 Harvest Clearcut with 4191 - Mixed Cmpt. Review **Upland Deciduous Upland Deciduous** Density Reserves Proposal Pole with Conifer

Prescription Recommend final harvest leaving hemlock, cedar and mast producing cherry trees - there are trace amounts especially near the swamp edge.

Retention pockets could be left around the scattered wet areas. Specs:

A culvert will have to be placed on the access road in the adj compartment - there was one there previously but now removed and road Other_

Comments: blocked. Treatment should be in the winter or durning a dry year.

Next

Monitor for regeneration of current spp

Steps:

Proposed

10/01/2013 Start Date:

32104014-Cut 88.3 4312 - Hemlock High 112 141-170 Harvest Shelter Wood 4115 - Y.Birch. Cmpt. Review Mixed Deciduous with Reserves Proposal Density Log Hemlock NH

Prescription Remove all spp except hemlock and cedar. Do not cut ash trees unless they will hinder regeneration. Mark other spp for leave tree, especially

Specs: those in and around the hemlock patches. Residual BA will vary greatly depending on the distribution of the conifers being left.

Other_ Treat in the winter to help protect the soils.

Comments:

Next Monitor for regeneration of spp that are currently present.

Steps:

Proposed

Start Date: 10/01/2013

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 104 Year of Entry 2014

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a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	32104018-Cut	21.0	4110 - Sugar Maple Association	High Density Log	76	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Mark to create canopy gaps and release the established regeneration. Mark to promote diversity BA 70-90.

Specs:

s

Other_ Road system already established.

Comments:

Monitor to check for regen release.

<u>Next</u> Steps:

<u>Proposed</u>

10/01/2013 Start Date:

32104021-Cut 24 6 4112 - Maple, High 90 51-80 Harvest Single Tree 4112 - Maple, Cmpt. Review Beech, Cherry Density Selection Beech, Cherry Proposal Association Pole Association

Prescription Mark to create canopy gaps and release the established regeneration. Mark to promote diversity BA 70-90.

Specs:

Other_ Last harvest access was through PVT - if not able to go that way again, stand can be accessed through stand 19 with bridge.

Comments:

Monitor for regeneration. <u>Next</u>

Steps:

<u>Proposed</u>

10/01/2013 Start Date:

32104022-Cut 42320 - Upland Seed Tree 22 6.7 High 111-140 Harvest 4319 - Mixed Cmpt. Review Spruce Density Upland Forest Proposal

Pole

<u>Prescription</u> Final harvest leaving large white pine and some scattered spruce and other represented species for seed source for regeneration purposes.

Specs:

<u>Other</u> WLD - Leave some of the mast producing black cherry.

Comments:

<u>Next</u> Regeneration should be a mix of the same species that are present.

Steps:

Proposed

10/01/2013 Start Date:

32104023-Cut 62.7 4110 - Sugar Maple High 90 81-110 Harvest Single Tree 4110 - Sugar Maple Cmpt. Review Association Selection Association Proposal Density

Pole

Prescription Mark to create canopy gaps to release regeneration and promote diversity BA 70-90. When leaving black cherry leave those that are mass producing and those being cut open up more of the canopy around them to promote cherry regeneration. Leave the large canopy yellow birch

where BA allows it.

Other Appears to have some maple die back - assuming drought related.

Comments:

Monitor for regeneration of spp currently present. <u>Next</u>

Steps:

Specs:

Proposed 10/01/2013 Start Date:

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 104 Year of Entry 2014

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	32104025-Cut	145.5	4110 - Sugar Maple Association	High Density Log	90	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Specs:

s

Prescription Mark to promote diversity and release regeneration following the compleate marker guidelines BA 70-90. When leaving black cherry leave those that are mass producing and those being cut open up more of the canopy around them to promote cherry regeneration. Leave the large canopy

yellow birch where BA allows it.

<u>Other</u> Comments:

Last harvest access was through pvt, if this can not be done again it is possible to get through from the north with a bridge over the creek. Good

road system already in place.

<u>Next</u>

Monitor for regeneration of spp already present.

Steps:

Proposed

Start Date: 10/01/2013

Total Treatment

424.8 Acreage Proposed:

Gwinn Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 104 a Limiting Factor s Year of Entry 2014 n Treatment **Acres** CoverType Size Stand BA **Treatment Treatment Cover Type Approval** Age Method Objective Status Name Density Range Type d #Error Prescription Specs: <u>Other</u> Comment: <u>Next</u> Steps: <u>Proposed</u> Start Date: #Error

Total Treatment Acreage Proposed:

Limiting Factor and No Treatment Reason

0

Out of YOE -- Treatments **Prescribed with No Limiting Factor**

Year of Entry: 2014

Approval Status CoverType **Treatment Cover Type** Treatment Acres Size Stand BA **Treatment** Name Density Range Type Method Objective Age

Prescription Specs:

<u>Other</u> Comments:

<u>Next</u> Steps:

Proposed

Start Date: #Error

Total Treatment

Acreage Proposed:

S t	Gwinn Mgt. Unit			5 – For	ested Stan	ds Compartment: 104 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	53.1	72	1-50	
2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	33.9	72	81-110	
3	4119 - Mixed Northern Hardwoods	High Density Log	18.2	80	111-140	
4	6120 - Lowland Cedar	High Density Pole	82.3	78	51-80	
5	42380 - Non Pine Upland Conifer, Mixed Deciduous	Medium Density	26.5	29	1-50	
6	4110 - Sugar Maple Association	High Density Log	8.6	80	111-140	
8	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	4.1	52	51-80	Stand is ready for TMT, however it is low quality with small feeder creeks through out.
9	4319 - Mixed Upland Forest	High Density Pole	38.0	76	111-140	
10	4110 - Sugar Maple Association	High Density Pole	335.4	Uneven Age	81-110	
11	4199 - Other Mixed Upland Deciduous	High Density Pole	15.3	52	51-80	Age asp cored but hard 2 tell, at least over 70- RM was cored at 52.
12	6122 - Black Spruce	High Density Pole	26.3	56	1-50	Good condition, nice std.
13	4312 - Hemlock, Mixed Deciduous	High Density Log	11.8	112	111-140	
14	4312 - Hemlock, Mixed Deciduous	High Density Log	88.3	Uneven Age	141-170	
15	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	11.9	90	1-50	
16	4110 - Sugar Maple Association	High Density Pole	19.2	85	81-110	
17	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	13.7	90	51-80	
18	4110 - Sugar Maple Association	High Density Log	21.0	Uneven Age	81-110	

s t				5 – Fo	orested Stands	Compartment: 104 Year of Entry: 2014	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN
19	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	126.9	90	1-50		
20	4112 - Maple, Beech, Cherry Association	High Density Log	62.6	90	51-80		
21	4112 - Maple, Beech, Cherry Association	High Density Pole	24.6	90	51-80		
22	42320 - Upland Spruce	High Density Pole	6.7	47	111-140		
23	4110 - Sugar Maple Association	High Density Pole	62.7	90	81-110		
24	4190 - Mixed Upland Deciduous with Cedar	High Density Pole	34.7	90	81-110		
25	4110 - Sugar Maple Association	High Density Log	145.5	90	81-110		

6 - Nonforested Stands

Compartment: 104 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	3303 - Mixed Low Density Trees	19.5	No	Unspecified	

Compartment: 104
Year of Entry: 2014



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
4	SCA Removal	32104004-SCA removal	10.2	only part of the stand was POG -
5	SCA Removal	32104005-SCA removal	3.6	Not POG
8	SCA Removal	32104008	4.1	will probably be LF b/c of BMP's
17	SCA Removal	32104017	13.7	May get LF
19	SCA Removal	32104019	126.9	not POG - BMP's will protect the portions of the stand that needs it.
24	SCA Removal	32104024-SCA removal	34.7	Not POG
7	SCA Removal	NF_32104007-SCA removal	14.3	Not POG

Compartment: 104
Year of Entry 2014



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 ty	olved oxygen conditions that allow naturally-reproduced or oldwater fish species (e.g., slimy sculpin) to persist from prically provide these conditions due to substantial ows. Such streams are established by Director's action and der 210.