

# **Compartment Review Presentation**

Gwinn Forest Management Unit Compartment 203 Entry Year 2016 Acreage: 1,410 County Marquette Management Area: Huron Mountains

**Revision Date:** 08/08/2014

Stand Examiner: Dean Wilson

### Legal Description:

T49N-R26W, Sections 3-5, 9 & 10.

#### **Identified Planning Goals:**

Harvest older stands of aspen, birch and spruce/fir to encourage regeneration of these species. Selectively harvest northern hardwood types to improve quality and promote regeneration.

#### Soil and topography:

The major soil associations are Keweenaw, Kalkaska and Rubicon. Topography consists of rolling hills to moderately steep hills throughout.

#### **Ownership Patterns, Development, and Land Use in and Around the Compartment:**

Land use is primarily for forest products and recreation with an emphasis on hiking, hunting and fishing.

#### **Unique Natural Features:**

Most of this area was gifted to the State to protect the steelhead fishery in the Little Garlic River. The Little Garlic Falls is a popular hiking destination and a point of interest on the North Country Trail.

#### Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

#### **Special Management Designations or Considerations:**

All management operations will take into consideration the protection of the Little Garlic watershed and it's tributaries.

#### Watershed and Fisheries Considerations:

The Little Garlic River is a very popular steelhead trout fishery in the spring and provides an excellent opportunity for fishermen.

#### Wildlife Habitat Considerations:

#### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and coarse-textured glacial till in places thin to discontinuous. The glacial drift thickness varies between 10 and 50 feet or there is insufficient data to determine the thickness. The Precambrian Jacobsville Sandstone and Archean Volcanics subcrop below the glacial drift. The Jacobsville was used as a building stone in the past. Gravel pits are not located in the area, but potential is possible. Section 21 was previously leased for metallic exploration and gold prospects were located in the vicinity. The lands are primarily surface only. There is no economic oil and gas production in the UP.

#### **Vehicle Access:**

County Road 550 provides good access to the Northeast portion of the compartment. Smaller two tracks provide further access into the central portions of this compartment.

#### **Survey Needs:**

No survey needs will be needed for this year of entry.

#### **Recreational Facilities and Opportunities:**

The North Country Trail provides an excellent and scenic hiking opportunity. The Little Garlic River is a popular trout stream that get's a considerable amount of use during the spring steelhead run. A parking lot and bathroom facility have been constructed to accommodate these uses.

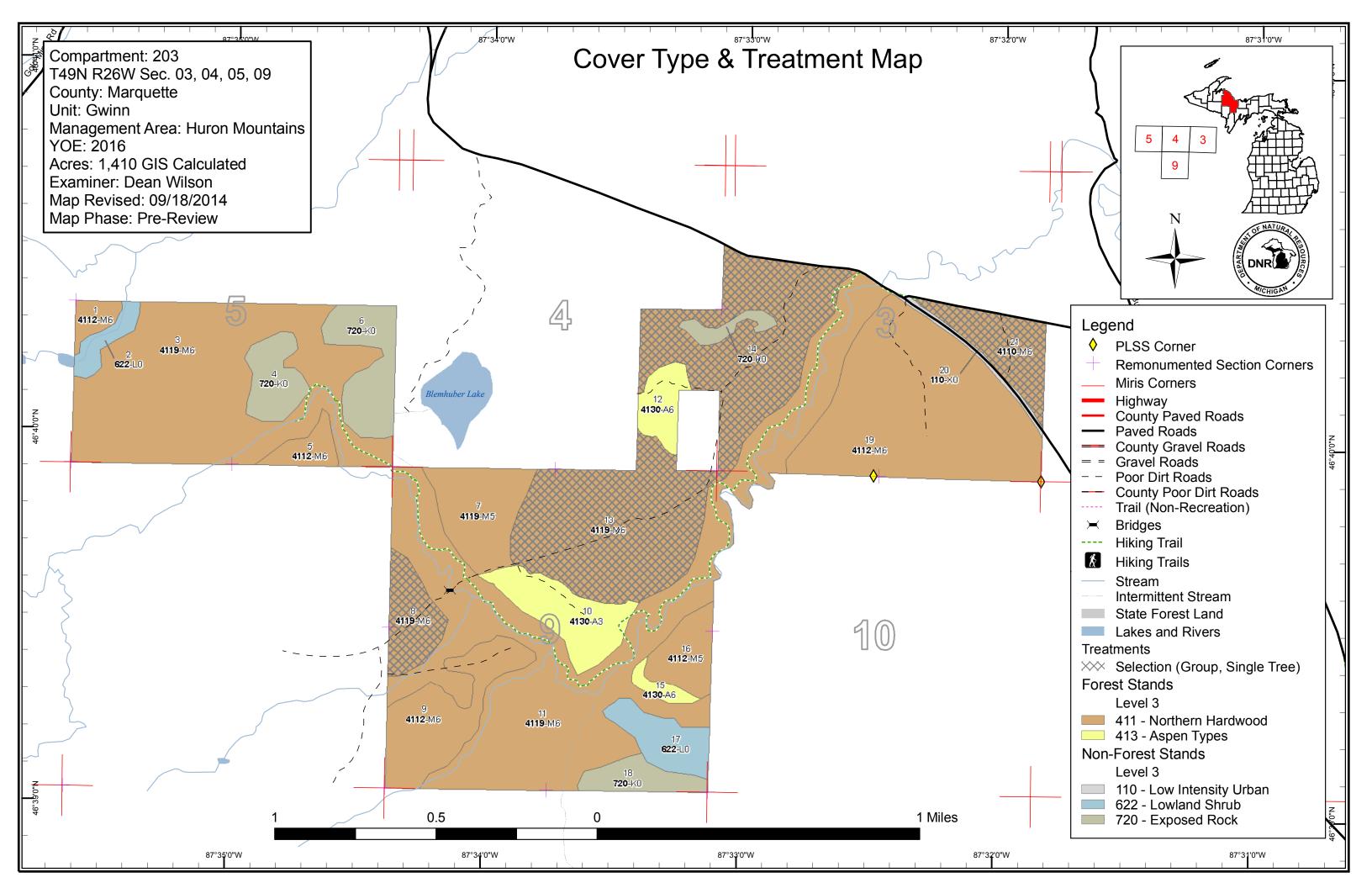
### Fire Protection:

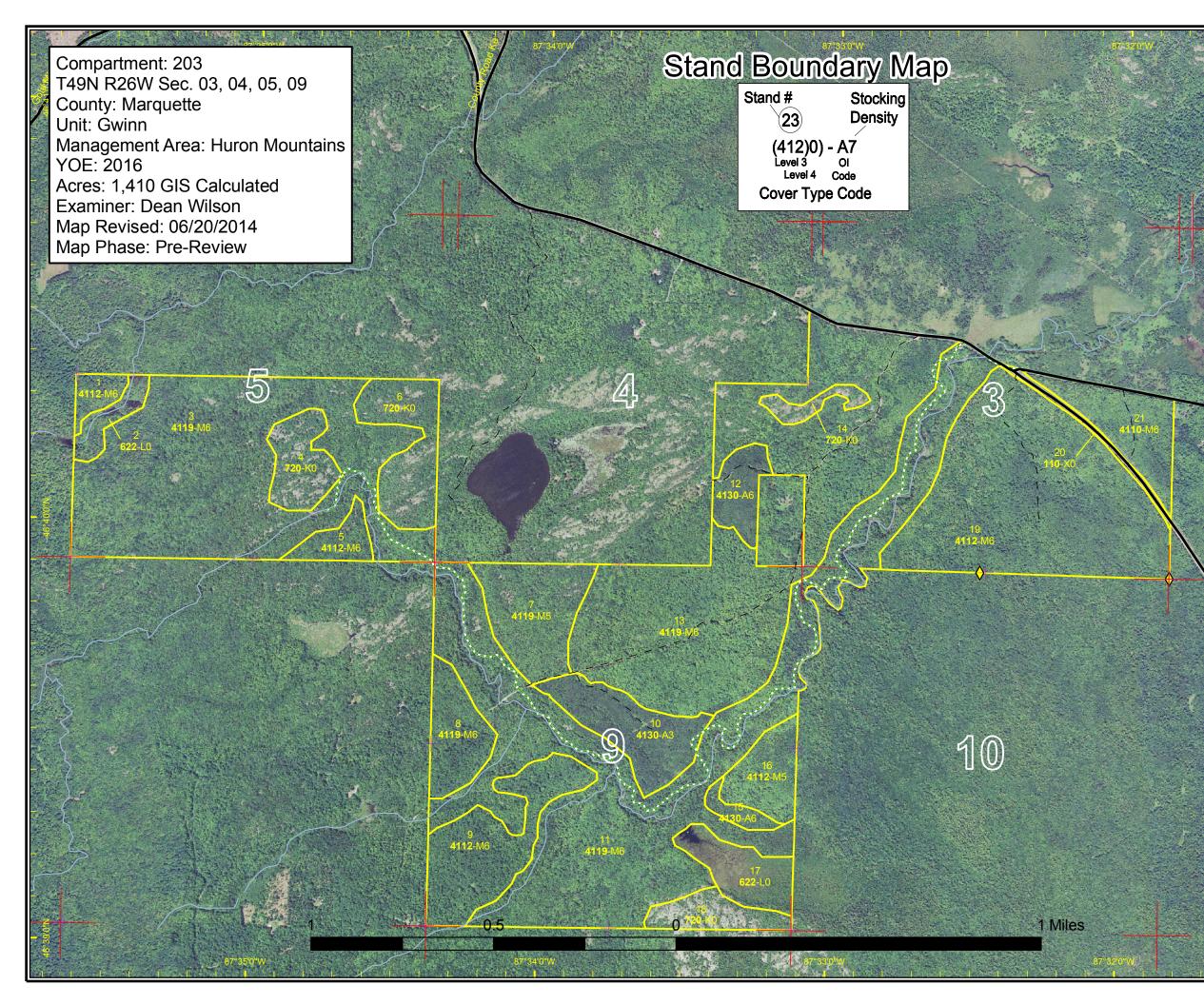
Fire occurrence has been low in this area due to the northern hardwood cover type, however, in the event of a wildfire the Ishpeming and Gwinn field stations would respond. Volunteer fire departments would also be available upon request.

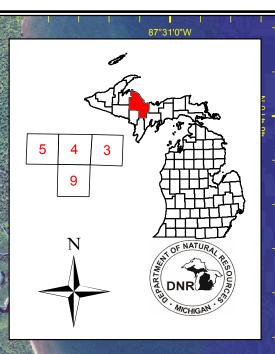
### **Additional Compartment Information:**

The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system







Legend

Remonumented Section Corners Miris Corners

- $\diamond$ PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads Gravel Roads
- \_
- Poor Dirt Roads \_ \_
- County Poor Dirt Roads Trail (Non-Recreation) \_\_\_\_
- Stream
- Intermittent Stream
- Ski Trail \_\_\_\_
- Hiking Trail ----
- Stand Boundaries

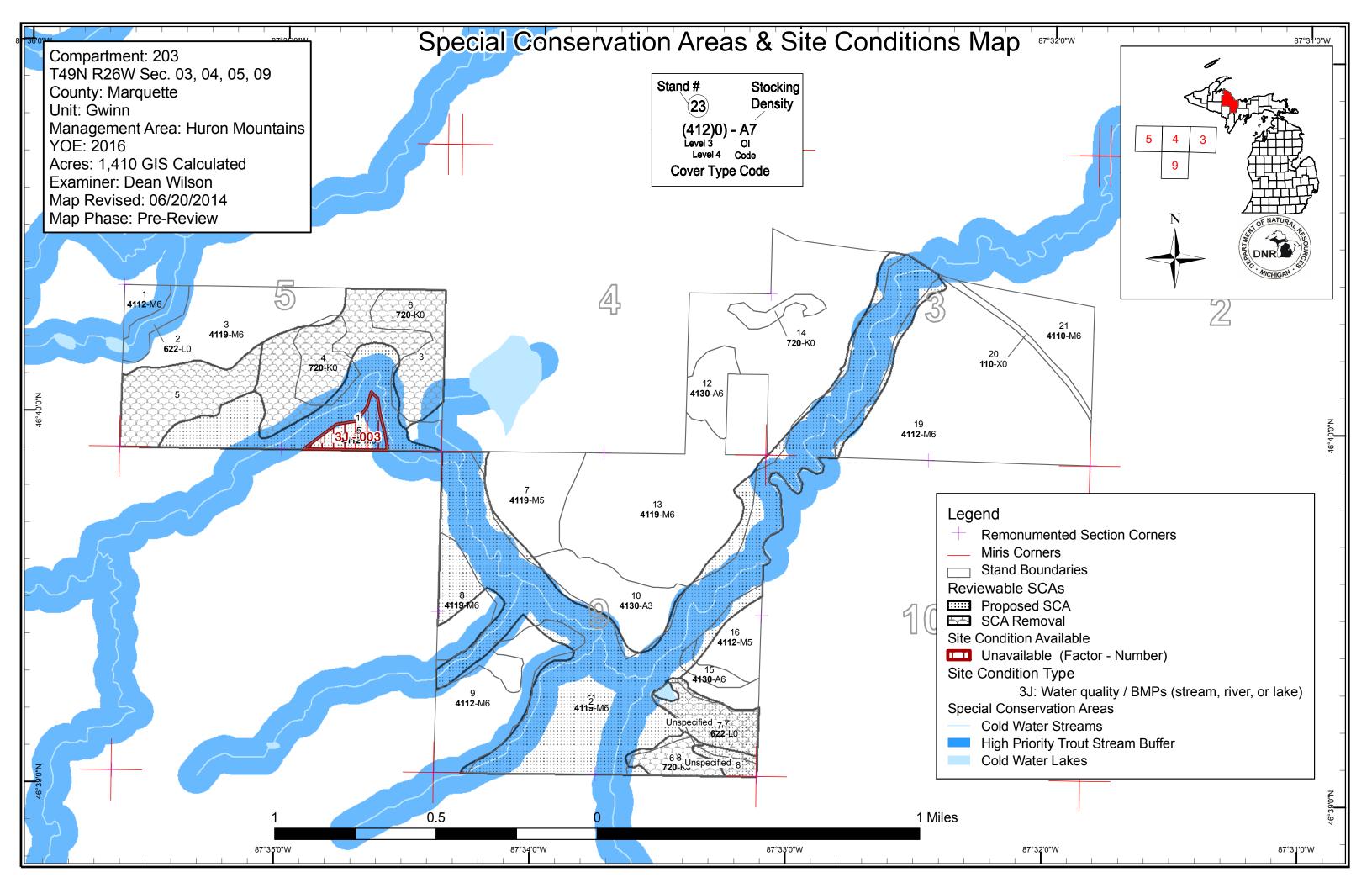
Forest Stands

- Level 3
- 411 Northern Hardwood
- 413 Aspen Types

Non-Forest Stands

Level 3

- 110 Low Intensity Urban
- 622 Lowland Shrub
- 720 Exposed Rock



# Report 1 – Total Acres by Cover Type and Age Class

Compartment 203 Year of Entry 2016

## Gwinn Mgt. Unit Dean Wilson : Examiner



Age Class																
	/	°.0	1 <sup>2</sup> 3	1212	20.00 00.00	hores .	en e	00.00	a a a	89 89 89 89	62	100 100	120,779	20× 350	AS YOU Y	00 <sup>0</sup>
Aspen	0	0	68	0	0	0	0	0	0	0	0	0	0	0	68	[
Exposed Rock	92	0	0	0	0	0	0	0	0	0	0	0	0	0	92	
Lowland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38	
Northern Hardwood	0	0	0	0	0	0	0	0	0	1204	0	0	0	0	1204	
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Total	138	0	68	0	0	0	0	0	0	1204	0	0	0	0	1410	

DR NATURAL PRESOURCE			
MICHIGAN .	Gwinn Mgt. Unit		Compartment 203
	Year of Entry 2016		Total Compartment Acres: 1,410
		Acres by Treatment Type	
	Commercial Harvest - 334	Tree Planting - 0 Other - 0	
	Habitat Cut - 0	Opening Maintenance - 0	
		Cover Type by Harvest Method	
		Construction of the second of	
	Northern Hardwood	0 334 0 0 0 0 <b>334</b>	
		Total         0         334         0         0         0         0         334	

Gwinn Mgt. Unit

#### **Report 3 -- Treatments Prescribed** with No Limiting Factor

Compartment: 203 Year of Entry 2016



t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	32203008-Cut	29.4	4119 - Mixed Northern Hardwoods	High Density Pole	90	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Seletively thin to around 70-80 square feet of basal area. Do not mark under-represented trees such as basswood, yellow birch, oak, etc. to promote diversity. Specs:

<u>Other</u> Check this stand before compartment review to see if it's worth treating or not. Stand examiner did not treat the stand but it may have not been looked at? Comments:

<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration includes: aspen, maple, cherry, yellow and Steps: paper birch, ironwood, balsam fir, white spruce, white pine and red pine.

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Proposed
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s

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10/01/2015
Start Date:
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13 3220	<b>3013-Cut</b> 2	:67.7 N	4119 - Mixed orthern Hardwoods	High Density Pole	90	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal			
Prescriptior Specs:	Prescription       Numerous areas of top dieback within the stand. It was agreed to at pre-review to clearcut w/ reserves the areas that have extensive dieback and to selectively manage the other portions of the stand that have a higher site quality and no dieback. It would be best to put red line in sometime in August to discern the areas with dieback vs. areas of selection.         In the clearcut areas retain yellow birch, hemlock, pine, cedar and basswood and any under-represented species.         In the selection areas mark individual trees to achieve basal areas of 70 to 90 sg. ft. per acre. Focus on releasing 50 to 70 crop trees per acre,												
	defect remova	al, and t	s mark individual tree hinning from below. cutting due to deer ya	Subject are	as of lo	w quality to	o group selections						
<u>Other</u> Comments:	1												
<u>Next</u> <u>Steps:</u>	Check regene	eration p	per work instructions.	Acceptable	regene	eration inclu	udes maple, oak,	aspen, pine, hemlo	ck, spruce and fir.				
Proposed Start Date:	10/01/2016												
21 3220	3021-Cut	36.5 4	110 - Sugar Maple Association	High Density Pole	90	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal			
Prescriptior Specs:	n Mark individu thinning from		to achieve basal are	as of 70 to 9	90 sq. f	t. per acre.	Focus on releas	ing 50 to 70 crop tre	ees per acre, defect r	removal, and			
<u>Other</u> Comments:		nlock, c	edar, white spruce a	nd oak. Fav	or yello	w birch an	d basswood for re	etention.					
<u>oonmonto.</u>	- Need to field		this stand as the uponas occurred. CC with					nt significantly. Also,	may have to change	e the prescription			
<u>Next</u> <u>Steps:</u>	Check regene	eration p	per work instructions.	Acceptable	regene	eration inclu	udes oak, aspen,	maple, hemlock, pir	ne, basswood, birch,	spruce and fir.			
Proposed Start Date:	10/01/2016												

**Total Treatment** Acreage Proposed:

333.7

S t	Gwi	nn Mgt. Unit	Report 4		eatment Site Con	Compartment: 203 Year of Entry 2016	DRR DR NATURAL PRODUCT		
a n Treatm d Nam		CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	#Type!	#Type!							
Prescription Specs: Other Comment:									
<u>lext</u> Steps:									
Proposed_ Start Date: #1	Гуре!								
imiting Factor									

Gwinn Mgt. Unit

Compartment 203 Year of Entry 2016

## Dean Wilson : Examiner

## Availability for Management

Total Acres Acres

**Dominant Site Conditions** 

Acres	Available	Not Available		No	ЗJ
68	68		Aspen	68	
1204	1191	13	Northern Hardwood	1,191	13
1,272	1,259	13	Total Forested Acres	1,259	13
	99%	1%	Relative Percent		

\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

		Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	Not Available	3J: Water quality / BMPs (stream, river, or lake)	13				
C	Comments:						



#### Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified Comments	Spring-Seeps, Riparian Areas	Unspecified	SCA	7.5
	by trees growing mostly on rock.			
Unspecified	Spring-Seeps, Riparian Areas	Unspecified	SCA	24.8
<b>Comments</b> Small areas are regeneratin	ng to cedar.			
1	Spring-Seeps, Riparian Areas	Riparian Area	SCA	74.8
<b>Comments</b> Head waters of Little and Big	g Garlic Rivers			
2	Spring-Seeps, Riparian Areas	Riparian Area	SCA	347.2
Comments Mostly bottom land along Lit	tle Garlic River.			
8	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	7.5
Comments Scrubby trees growing most	tly on rock.			
6	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	15.6
Comments Large rock outcropping supp	porting some smaller patches of sci	rub growth and a few trees.		
7	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	24.8
<b>Comments</b> Potential old growth. Small a	areas are regenerating to cedar.			
5	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	48.7
Comments				
3	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	102.3
Comments Mostly scrub growth on rock	. Stand contains a few acres of ba	re rock outcrops.		



## Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservati Area	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 sites of cultural and historical significance that may occur upon t bottomlands. They include thousands of Native American settler and British outposts, nineteenth century logging camps, mines the Great Lakes, there are shipwrecks and other remains docum be identified by Natural heritage data from the State Historic Pre this compartment will be implemented in such a manner as to m the sensitive nature of this information, no further detail about lo	errestrial areas and Great Lakes ments and burial sites, as well as French and homesteads. Beneath the waters of menting the maritime trade. Such sites may eservation Office. Proposed treatments in aintain the integrity of these sites. Due to
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish spect conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from ese conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of wild and Waterfowl Production Areas, deer wintering complexes in lo openings and savannas. Habitat areas are distinct from critical h endangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened o covered by species recovery plans that are developed in cooper	weland conifer communities, grassland habitat designated for recovery of r piping plover areas) in that they are more r endangered species, and are not
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of th streams and open water wetlands, riparian areas harbor a high o communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well

S t	Gwin	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 203 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	High Density Pole	9.0	90	81-110	
3	4119 - Mixed Northern Hardwoods	High Density Pole	219.8	90	81-110	SCA = Riparian protection
5	4112 - Maple, Beech, Cherry Association	High Density Pole	13.2	90	111-140	SCA = Riparian protection.
7	4119 - Mixed Northern Hardwoods	Medium Density Pole	47.5	90	1-50	Rock hills and outcrops.
8	4119 - Mixed Northern Hardwoods	High Density Pole	29.4	90	51-80	Selectively harvested in 1999: TS# 22-96-01.
9	4112 - Maple, Beech, Cherry Association	High Density Pole	59.3	90	81-110	Selectively harvested in 1999: TS# 22-96-01.
10	4130 - Aspen	High Density Sapling	42.4	25	1-50	Harvested in 1989: TS# 4-87.
11	4119 - Mixed Northern Hardwoods	High Density Pole	315.6	90	81-110	SCA = Riparin zone protection for the Little Garlic River. Contains some lowlands comprized of the bottom lands along the river.
12	4130 - Aspen	High Density Pole	18.8	25	51-80	Harvested in 1989: TS# 5-87.
13	4119 - Mixed Northern Hardwoods	High Density Pole	267.7	90	81-110	
15	4130 - Aspen	High Density Pole	6.8	26	1-50	Stand regenerated following wind throw event in 1988.
16	4112 - Maple, Beech, Cherry Association	Medium Density Pole	25.3	90	51-80	Stand suffered moderate to heavy wind throw in 1988.
19	4112 - Maple, Beech, Cherry Association	High Density Pole	180.8	90	81-110	Stand has bee subject to several treatments from 1988 to 2003. Area suffered moderate wind throw in 1988.
21	4110 - Sugar Maple Association	High Density Pole	36.5	90	81-110	

Gwinn Mgt. Unit

Compartment: 203 Year of Entry: 2016 DNR DNR

						CHIGA
Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	
2	6229 - Mixed lowland shrub	11.6	No	Unspecified		
4	720 - Exposed Rock	24.8	No	Unspecified		
6	720 - Exposed Rock	40.0	No	Unspecified		
14	720 - Exposed Rock	8.5	No	Unspecified		
17	6229 - Mixed lowland shrub	26.8	No	Unspecified		
18	720 - Exposed Rock	19.2	No	Unspecified		
20	11 - Low Intensity Urban	7.1	No	Unspecified		