



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 243

Entry Year 2016

Acreage: 1,241

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 08/08/2014

Stand Examiner: Dean Wilson

Legal Description:

T45N-R29W, Sections 27 & 34.

Identified Planning Goals:

Maintain or increase the component of oak, birch and aspen within the compartment. Harvest older stands to encourage regeneration of both deciduous and coniferous species.

Soil and topography:

Topography ranges from level creek bottoms, swamp conifer, tag alder and bog or marshlands to rolling or only slightly hilly upland terrain.

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

This compartment is essentially surrounded by State land on all sides and borders Dickenson County on the south end. It does have some small parcels of non-industrial private ownership in the surrounding area. Development (other than the ELF communication system cleared right of way) is virtually nonexistent. A few seasonal dwelling/hunting camps occupy the private parcels. Production of forest products along with low key recreational activities such as hunting, trapping and snowmobiling make up the land uses here.

Unique Natural Features:

Hermit Lake and the Schwartz creek and tributaries.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Contains tributaries of Chain of Lakes, Martell's Lake. Also contains Hermit Lake. BMP's would apply in these areas.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till and medium and coarse-textured tills. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as dimension stone. A gravel pit is located two miles away, but potential should be good. The abandoned Republic iron mine is located ten miles to the north. Section 27 was previously leased and Section 34 is leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

The Floodwood Road (county road FFO) provides primary access for most of the compartment from the South. The Porterfield Lake Road also provides access from the North. Various other two track roads provide access to the compartment interior.

Survey Needs:

No survey needs for this year of entry.

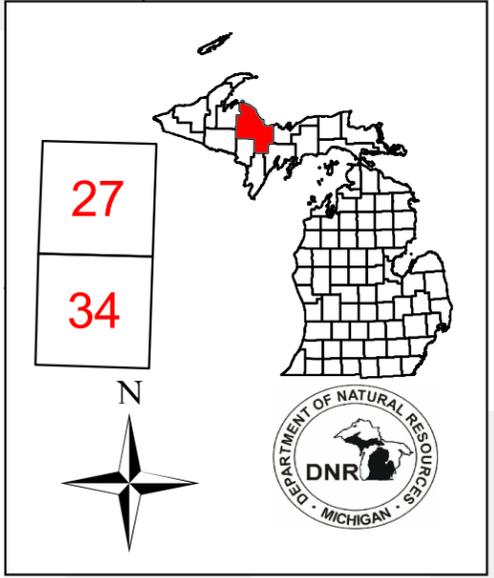
Recreational Facilities and Opportunities:

The Porterfield Lake Motorcycle ORV trail provides recreational opportunity to ORV users. Other recreational activities include: fishing, hunting, biking, berry picking, bird watching and trapping.

Cover Type & Treatment Map

Compartment: 243
 T45N R29W Sec. 27, 34
 County: Marquette
 Unit: Gwinn
 Management Area: Chain Lakes Moraine
 YOE: 2016
 Acres: 1,241 GIS Calculated
 Examiner: Dean Wilson
 Map Revised: 06/20/2014
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- ◆ PLSS Corner
- ⊕ 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)
- Motorcycle (DNR Sticker)
- 🏍 Motorcycle Trails (DNR License)
- 🏠 Cabin
- ⊗ Gate
- ▲ Berms
- ⊕ Powerline
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- ▨ Seed Tree (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)

Forest Stands

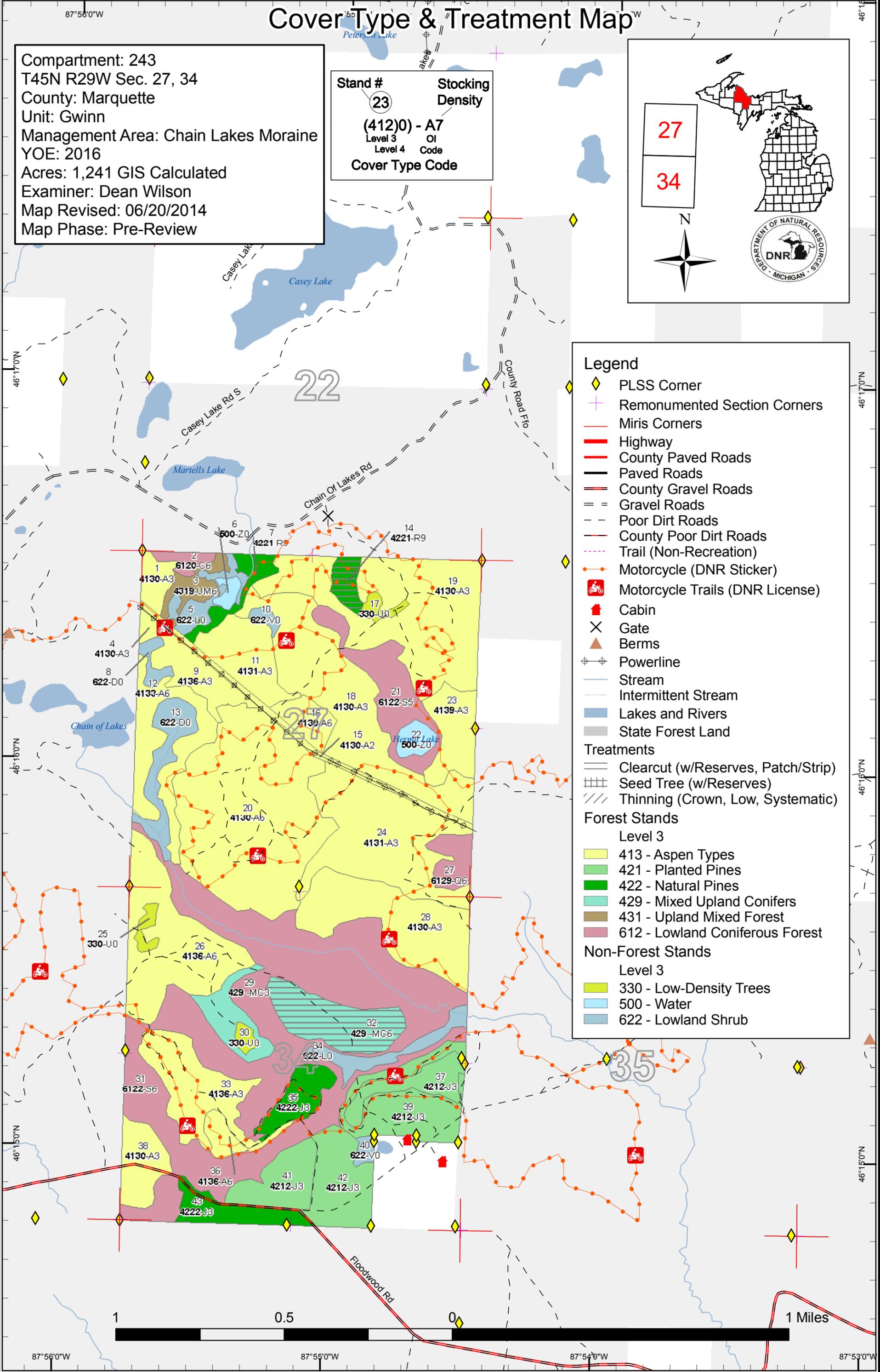
Level 3

- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub



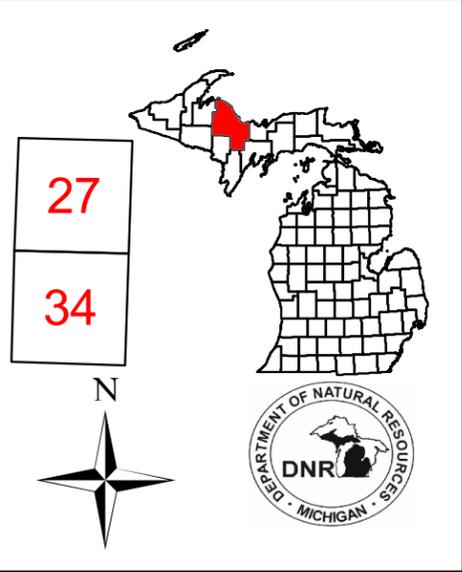
87°56'0"W 87°55'0"W 87°54'0"W 87°53'0"W

46°17'0"N 46°16'0"N 46°15'0"N

Stand Boundary Map

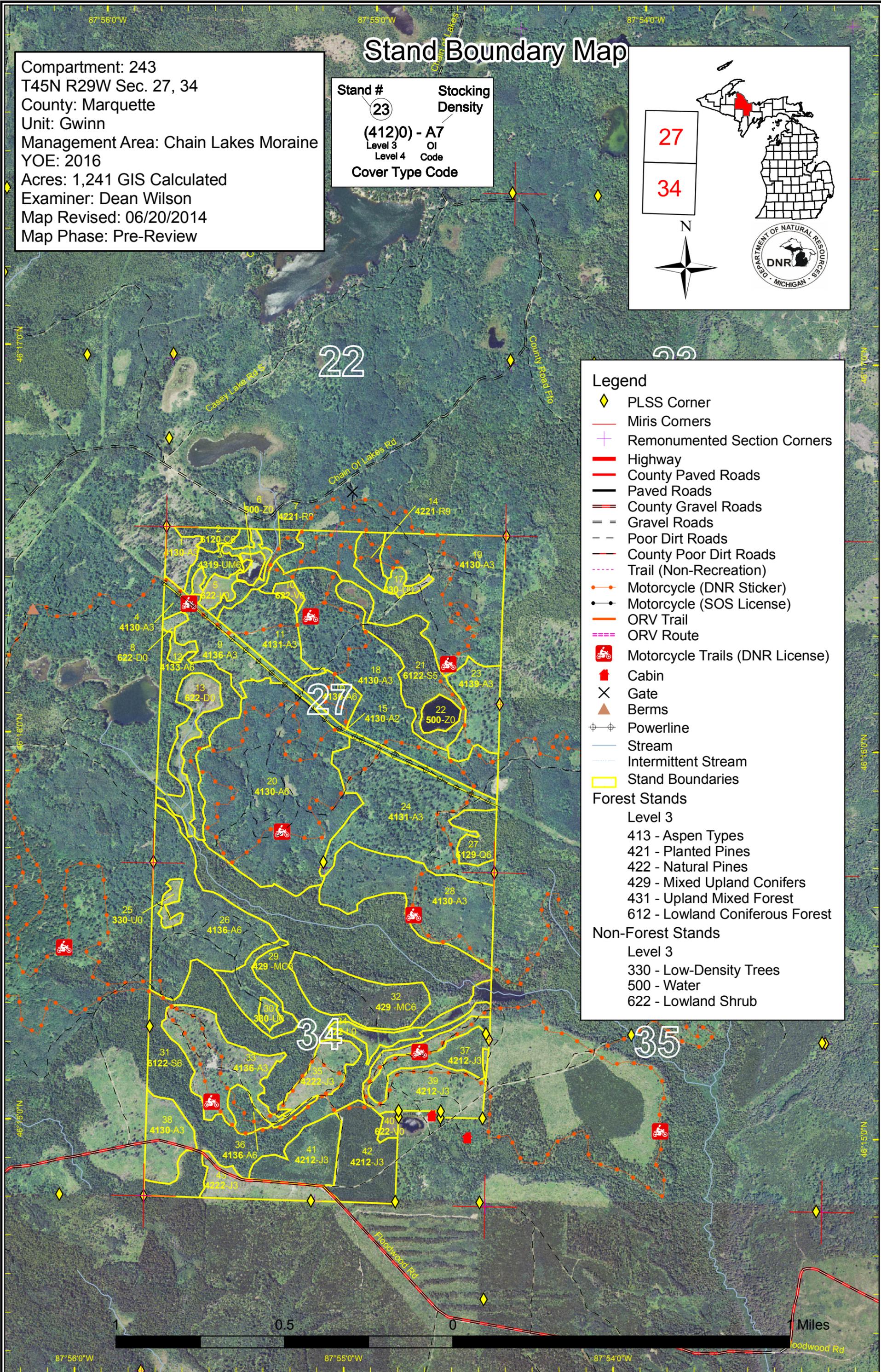
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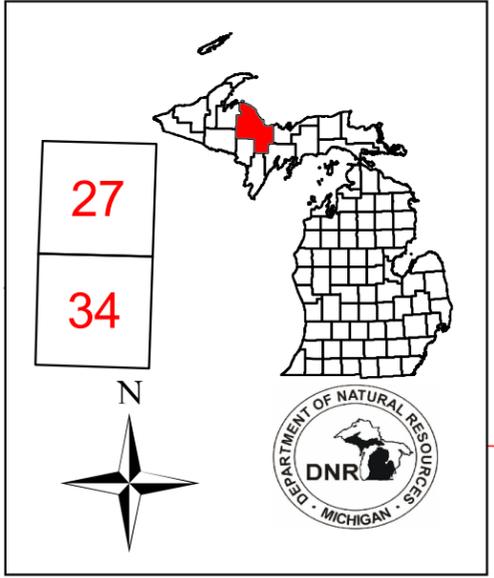
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 - Stand Boundaries
- Forest Stands**
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Special Conservation Areas & Site Conditions Map™

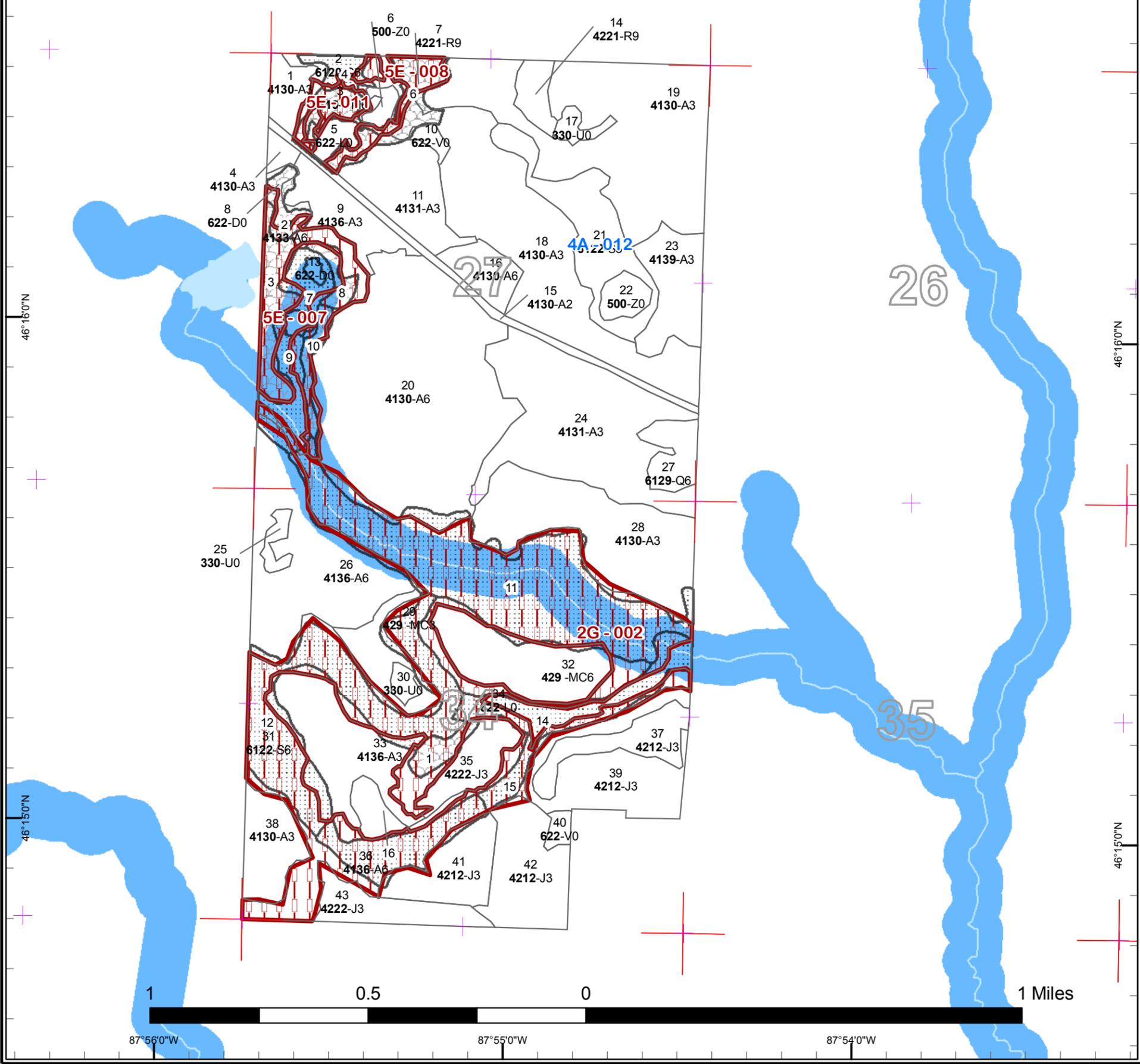
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Legend

- + Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Reviewable SCAs**
- Proposed SCA's**
- Proposed SCA
- SCA Removal
- Site Condition Available
- Unavailable (Factor - Number)
 2G: Too wet (sensitive soils, does not include access issues)
- Special Conservation Areas**
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Fire Protection:

This compartment is included within the "581 Zone Dispatch" area which provides for a pre-planned dispatch of specified fire equipment from within the Gwinn and Crystal Falls Management Units. This dispatch is dependent on the severity of forecast burning conditions for the specified day. Areas of jack pine and red pine cover types with the encroachment of recreational seasonal dwellings have warranted this pre-planning. Mutual aide agreements with local township volunteer fire departments also provide critical fire suppression response, especially in the area of structure fire and/or protection, and evacuations.

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**

Report 1 – Total Acres by Cover Type and Age Class



	Age Class													Total	
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneven Age
Aspen	217	141	299	8	0	0	0	0	34	0	0	0	0	0	699
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Jack Pine	66	38	30	0	0	0	0	0	0	0	0	0	0	0	134
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Lowland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Spruce/Fir	0	0	0	0	0	0	0	31	0	219	0	0	0	0	250
Red Pine	0	0	0	0	0	0	0	0	9	7	0	0	0	0	17
Treed Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Conifers	0	0	15	0	0	0	33	0	0	0	0	0	0	0	47
Upland Mixed Forest	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	351	179	344	8	0	11	33	31	53	231	0	0	0	0	1241



Report 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2016

Compartment 243
Total Compartment Acres: 1,241

Acres by Treatment Type

Commercial Harvest - 40	Tree Planting - 7	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Mixed Upland Conifers	33	0	0	0	0	0	33
Natural Pines	7	0	0	0	0	0	7
Total	40	0	0	0	0	0	40



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	32243014-Cut	7.3	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	96	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Clear cut followed by trenching and hand planting red pine. Leave all oak.

Specs:

Other Herbicide as necessary.

Comments:

Next Check regeneration per work instructions.

Steps:

Proposed

Start Date: 10/01/2015

32	32243032-Cut	32.7	429 - Mixed Upland Conifers	High Density Pole	69	81-110	Harvest	Clearcut	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
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Prescription Clear cut this stand. Create several exclusion pockets/patches of spruce, fir, red and white pine to leave.

Specs:

Other If possible consideration should be given to planting this stand with jack or red pine. If oak is found it should be retained.

Comments:

Next Check regeneration per work instructions.

Steps:

Proposed

Start Date: 10/01/2015

**Total Treatment
Acreage Proposed: 40.1**



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

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: 0.0

Report 5 – Site Conditions

Gwinn Mgt. Unit
Dean Wilson : Examiner

Compartment 243
Year of Entry 2016

Availability for Management

Total Acres	Acres			Dominant Site Conditions			
	Available	Not Available		No	5E	4A	2G
698	660	38	Aspen	660	34		4
5	5		Cedar	5			
134	132	2	Jack Pine	132			2
11	11		Lowland Conifers	11			
249	35	213	Lowland Spruce/Fir	4		31	213
17	7	9	Red Pine	7	9		
47	47	1	Upland Conifers	47			1
9		9	Upland Mixed Forest		9		
1,170	897	273	Total Forested Acres	867	53	31	220
	77%	23%	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.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	2G: Too wet (sensitive soils, does not include access issues)	221				
Comments:							
007	Not Available	5E: Long Term Retention	34	3J: Water quality / BMPs (stream, river, or lake)	2F: Too steep		
Comments: Area was left as a retention zone when adjacent stand was harvested. Some areas may be accessible, but otherwise, provides riparian protection.							
008	Not Available	5E: Long Term Retention	9	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values		
Comments: Contains Porterfield Motorcycle Trail, but also very scenic and , in places, very steep area along Martell's drainage/pond. Was left as retention area when adjacent stand was harvested.							

Report 5 – Site Conditions

Gwinn Mgt. Unit
Dean Wilson : Examiner

Compartment 243
Year of Entry 2016

011	Not Available	5E: Long Term Retention	10	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values
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Comments:

Scenic area adjacent to Martell's Lake tributary/pond. Small portion of upland areas could possibly be treated as some point, but currently inadequate volume overall. Steeper portion drops into cedar type and scenic pine wraps around pond/drainage.

012	Available	4A: No merchantable products (see product standards)	31		
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Comments:

A lot of this is treed bog, with some higher spruce/cedar. A buffer area should be maintained around Hermit Lake due to BMP issues.



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
15	Spring-Seeps, Riparian Areas	Riparian Area	SCA	4.5
Comments A small creek flows northeasterly through stand. This is a narrow swamp between adjacent highlands. I believe this was part of a commercial timber sale cut in 1976, permit #8-75A, the "Uncle Sam Sale" cut by Holli Forest Products. From the sale map, t				
4	Spring-Seeps, Riparian Areas	Riparian Area	SCA	5.4
Comments Riparian protection.				
7	Spring-Seeps, Riparian Areas	Riparian Area	SCA	7.1
Comments Small bog surrounding a tiny beaver pond.				
9	Spring-Seeps, Riparian Areas	Riparian Area	SCA	12.7
Comments Riparian zone on Swartz creek.				
16	Spring-Seeps, Riparian Areas	Riparian Area	SCA	17.6
Comments A small creek flows northeasterly in stand. Beaver had this dammed up where it crosses the trail road, but this washed out and beaver are not currently active here in May 2004. Per our mini-review held on 9/9/04, wildlife wanted this stand included in				
14	Spring-Seeps, Riparian Areas	Riparian Area	SCA	21.6
Comments Potential old growth stand. The west end of this stand was flooded by beavers in the 1983. It is now essentially back to its normal creek channel and the edges of the stand have begun seeding in with spruce. The center is marsh/alder creek bottom. The				
12	Spring-Seeps, Riparian Areas	Riparian Area	SCA	56.8
Comments Per our min-review held on 9/9/04, wildlife wanted this stand designated potential old growth due to its use as deer yard and the need for thermal cover. Part of Swartz Creek watershed.				
11	Spring-Seeps, Riparian Areas	Riparian Area	SCA	91.5
Comments Riparian zone on Swartz Creek.				
8	Potential Old Growth		SCA Removal	4.3
Comments Not unique-treatment proposed.				
10	Potential Old Growth		SCA Removal	5.0
Comments Not unique-treatment proposed.				



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
1	Potential Old Growth		SCA Removal	5.3
Comments				
This stand was commercially cut in the Fall of 1976 under permit #8-75A, "Uncle Sam Sale" cut by Holli Forest Products. In May of 2004, the old stumps are still evident, and the area is heavy to fir saplings with some black spruce and even some aspen.				
2	Potential Old Growth		SCA Removal	6.0
Comments				
Beaver flooding-not unique.				
3	Potential Old Growth		SCA Removal	14.0
Comments				
Not unique-treatment proposed.				
6	Potential Old Growth		SCA Removal	21.8
Comments				
Not unique-treatment proposed.				

**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.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	8.3	3		Harvested in 2011: TS# 106-09-01. Oak, fir, red and white pine, and white birch seed trees retained.
2	6120 - Lowland Cedar	High Density Pole	5.1	93	111-140	Contains drains that flow into lake.
3	4319 - Mixed Upland Forest	High Density Pole	9.5	86	81-110	Remove from old growth and clear cut. Retain 10 each per acre of oak, red and white pine. Exclude the steep slopes down to the bog from the sale.
4	4130 - Aspen	High Density Sapling	3.0	15		Harvested in 1999: TS# 110-99-01. Oak, red and white pine retained.
7	42210 - Natural Red Pine	High Density Log	9.4	86	111-140	Remove from old growth and thin red pine and miscellaneous species.
9	4136 - Aspen, Mixed Conifer	High Density Sapling	18.5	5		Harvested in 2009: TS# 105-06-01. Oak, red and white pine retained.
11	4131 - Aspen, Oak	High Density Sapling	26.6	5		Harvested in 2009: TS# 105-06-01. Oak, red and white pine retained.
12	4133 - Aspen, Mixed Pine	High Density Pole	34.1	86	81-110	Remove from old growth and clear cut retaining 5 to 10 trees per acre each of oak, red and white pine. Retain all the cedar.
14	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	7.3	96	111-140	Clear cut this stand and plant back to red pine. Herbicide as necessary. Retain up to 10 oaks per acre where possible.
15	4130 - Aspen	Medium Density	12.6	8		
16	4130 - Aspen	High Density Pole	10.9	26	1-50	Harvested in 1988: TS# 7-97. Red and white pine retained.
18	4130 - Aspen	High Density Sapling	79.6	17		Harvested in 1997: TS# 3-96. Oak, red and white pine retained.
19	4130 - Aspen	High Density Sapling	92.8	25	1-50	Harvested in 1989: TS# 20-86.
20	4130 - Aspen	High Density Pole	133.8	25	1-50	Harvested in 1989: TS# 7-87. Red and white pine and some oak were retained.
21	6122 - Black Spruce	Medium Density Pole	30.9	76	51-80	Clear cut the upland perimeter portions and 1/4 to 1/2 acre patches internally where the timber permits. Retain the cedar. More open bog to the north and south.
23	4139 - Aspen, Mixed Deciduous	High Density Sapling	21.6	5		Harvested in 2009: TS# 106-06-01. Oak, red and white pine retained.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4131 - Aspen, Oak	High Density Sapling	72.7	5		Harvested in 2009: TS# 106-06-01. Oak, red and white pine retained.
26	4136 - Aspen, Mixed Conifer	High Density Pole	61.6	24	1-50	Harvested in 1989: TS# 18-86.
27	6129 - Mixed Coniferous Lowland Forest	High Density Pole	10.8	53	51-80	
28	4130 - Aspen	High Density Sapling	58.3	17		Harvested in 1997: TS# 4-96. Oak, Cherry, red and white pine retained.
29	429 - Mixed Upland Conifers	High Density Sapling	14.6	25	1-50	Harvested in 1989: TS# 18-86.
31	6122 - Black Spruce	High Density Pole	218.8	92	81-110	SCA = Winter thermal cover for deer and wildlife corridor. Last entry wildlife requested to maintain this stand as an SCA.
32	429 - Mixed Upland Conifers	High Density Pole	32.7	69	81-110	Contains some lowland black spruce inclusions.
33	4136 - Aspen, Mixed Conifer	High Density Sapling	37.6	4		Harvested in 2010: TS# 107-06-01. Red and white pine retained.
35	42220 - Natural Jack Pine	High Density Sapling	14.9	4		Harvested in 2010: TS# 107-06-01. Regenerated naturally. Red and white pine retained.
36	4136 - Aspen, Mixed Conifer	High Density Pole	8.0	38	51-80	Harvested in 1976: TS# 8-75A. Spruce, fir, red and white pine retained.
37	42120 - Planted Jack Pine	High Density Sapling	16.5	16		Harvested in 1998: TS# 5-96-01. Trenched and direct seeded in 1998.
38	4130 - Aspen	High Density Sapling	18.6	6		Harvested in 2008: TS# 112-05-01.
39	42120 - Planted Jack Pine	High Density Sapling	34.8	6		Harvested in 2007: TS# 129-06-01. Planted in 2008.
41	42120 - Planted Jack Pine	High Density Sapling	21.7	15		Harvested in 1998: TS# 5-96-01. Planted to red pine in 1999 which mostly failed due to competition with naturally regenerated jack pine.
42	42120 - Planted Jack Pine	High Density Sapling	29.8	24	1-50	Harvested in 1988: TS#7-86-1. Planted in 1990.
43	42220 - Natural Jack Pine	High Density Sapling	16.5	5		Harvested in 2009: TS# 107-06-01. Regenerated naturally.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	622 - Lowland Shrub	10.1	No	Unspecified	
6	50 - Water	3.1	No	Unspecified	
8	6224 - Treed Bog	4.2	No	Unspecified	
10	6225 - Bog	2.5	No	Unspecified	
13	6224 - Treed Bog	18.2	No	Unspecified	
17	3302 - Low Density Conifer Trees	3.8	No	Unspecified	
22	50 - Water	6.3	No	Unspecified	
25	3302 - Low Density Conifer Trees	3.5	Yes	Low	Opening created using herbicides in 1992.
30	3302 - Low Density Conifer Trees	2.7	Yes	Low	Opening created, disked, and seeded in 1992.
34	6223 - Inundated Shrub Swamp	11.8	No	Unspecified	
40	6225 - Bog	2.7	Unspecified	Unspecified	