



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32223

Entry Year 2016

Acreage: 956.91060000

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2014-09-18

Stand Examiner: Jason Caron

Legal Description:

T46N R29W, Sections 13 & 14.

Identified Planning Goals:

Focus on regenerating short lived species such as aspen, birch, spruce and fir. Promote pine regeneration on upland sites.

Soil and topography:

Surface sediments consist of coarse-textured glacial till. The topography ranges from level swamps with islands of rock outcrop/highlands within, level wetland drainages and creek bottoms, to rolling or only slightly hilly upland terrain.

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

State ownership within this area is a scattered checkerboard arrangement. Corporate forest holdings surround state land along with some large blocks of private ownership as well. Development is very limited with a few seasonal hunting camps here and there. Production of forest products along with recreational activities such as hunting, trapping and snowmobiling make up the land uses in the compartment.

Unique Natural Features:

The large treed bog complex within Section 13 is very unique with numerous rock outcrop islands scattered throughout.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Stand 36 has been labeled as a Type 1 old growth stand. Very large white and red pine scattered throughout the stand.

Watershed and Fisheries Considerations:

No fisheries concerns within this compartment. Apply best management practices when cutting near any water body or stream.

Wildlife Habitat Considerations:

Compartment 223 is found within the Chain Lakes Moraine Management Area; on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a building or dimension stone. Gravel pits are not located in the area, but potential may be good. The abandoned Republic iron mine is located to the west. This compartment has not been leased for metallic exploration recently. There is no economic oil and gas production in the UP.

Vehicle Access:

The only vehicle access that exists is an gated two track off from County Road FF that heads into the southwest part of the compartment. The gate was installed in the early '90's. A management easement is needed to ensure future access.

Survey Needs:

No survey needs are required for this year of entry.

Recreational Facilities and Opportunities:

No developed recreational facilities exist within this compartment. Activities that do occur within this compartment include hunting, berry picking, hiking, fishing and trapping.

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. It is worth mentioning that the numerous islands within the treed bog complex have a fire history as evidenced by old lightning scars, charred stumps and the prescence of paper birch.

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**

Cover Type & Treatment Map

Compartment: 223
 T46N R29W Sec. 12, 13
 County: Marquette
 Unit: Gwinn
 Management Area: Chain Lakes Moraine
 YOE: 2016
 Acres: 957 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 06/23/2014
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Remonumented Section Corners
- Miris Corners
- PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Gate
- Powerline
- Snowmobile Trail
- Snowmobile Trails
- Cabin
- Seasonal Dwelling
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments w/ Site Condition

- Treatments w/ Site Condition
- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

Level 3

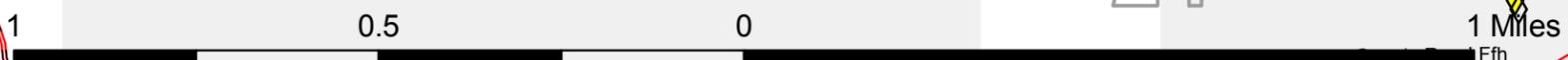
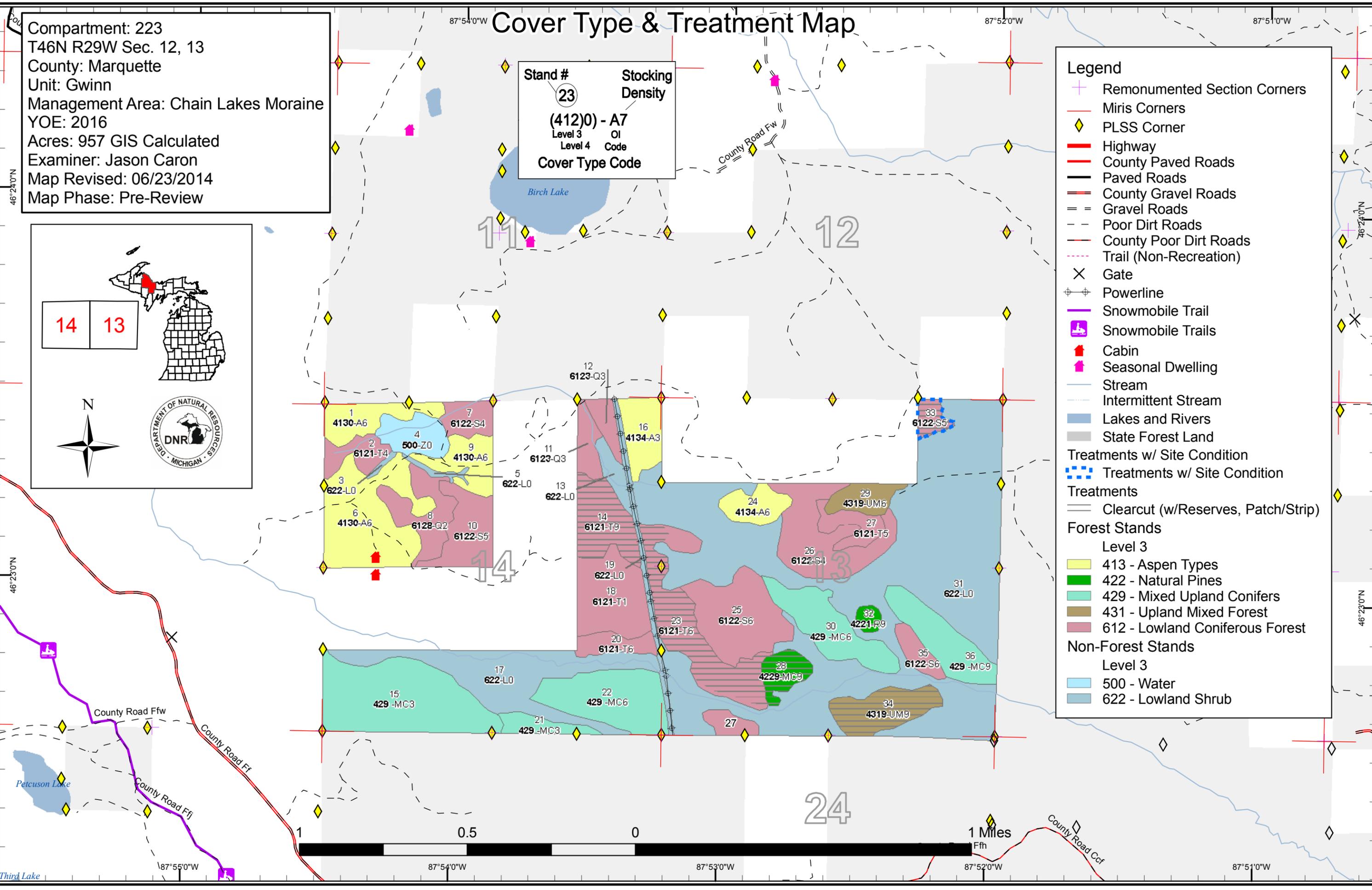
- 413 - Aspen Types
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 500 - Water
- 622 - Lowland Shrub

14 13



46°24'0"N 87°54'0"W 87°52'0"W 87°51'0"W 46°23'0"N 46°23'0"N 46°23'0"N
 187°55'0"W 87°54'0"W 87°53'0"W 87°52'0"W 87°51'0"W

Compartment: 223
 T46N R29W Sec. 12, 13
 County: Marquette
 Unit: Gwinn
 Management Area: Chain Lakes Moraine
 YOE: 2016
 Acres: 957 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 06/23/2014
 Map Phase: Pre-Review

Stand Boundary Map

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Gate
- Powerline
- Snowmobile Trail
- Snowmobile Trails
- Cabin
- Seasonal Dwelling
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

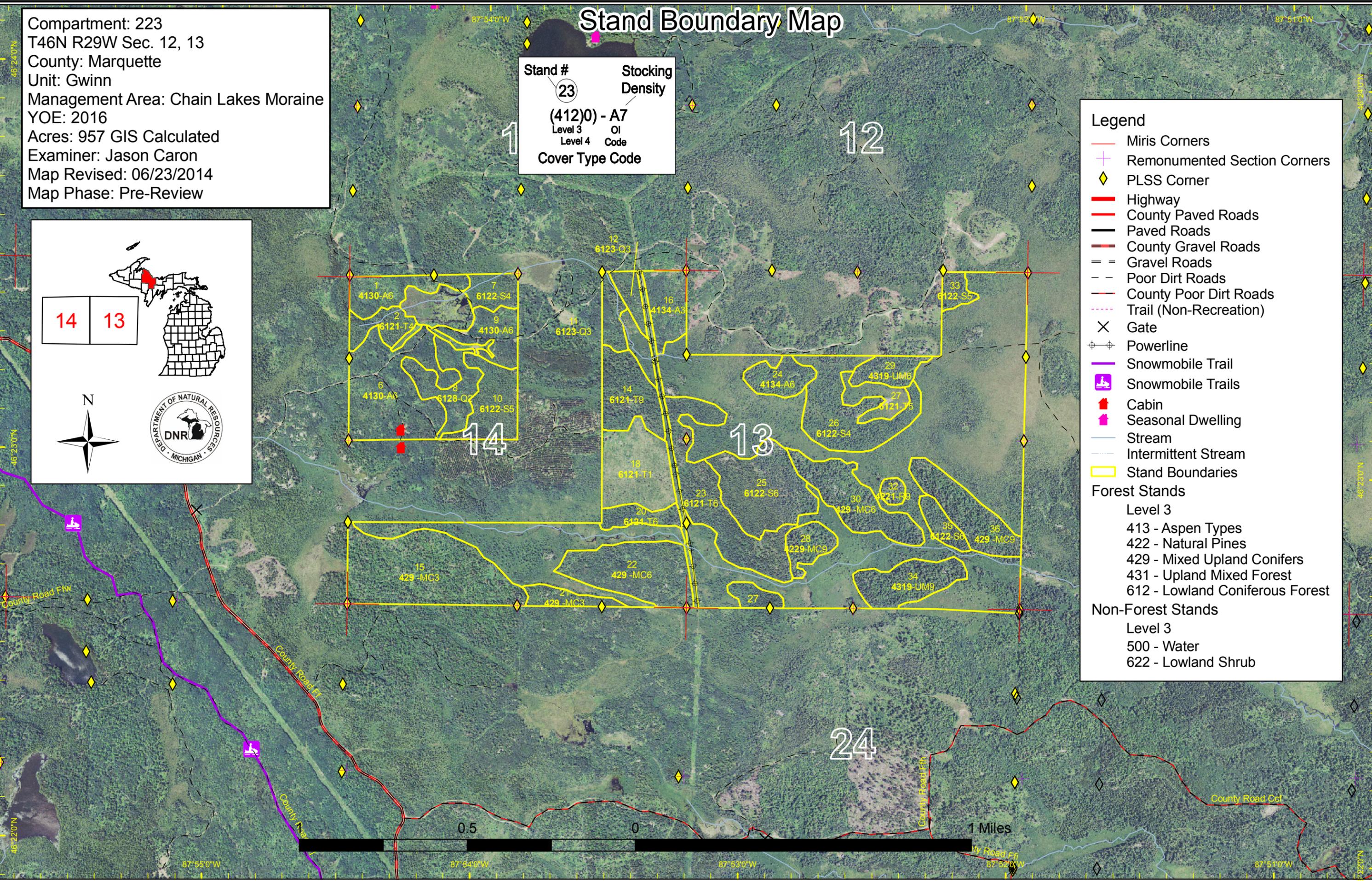
- 413 - Aspen Types
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 500 - Water
- 622 - Lowland Shrub

14 13



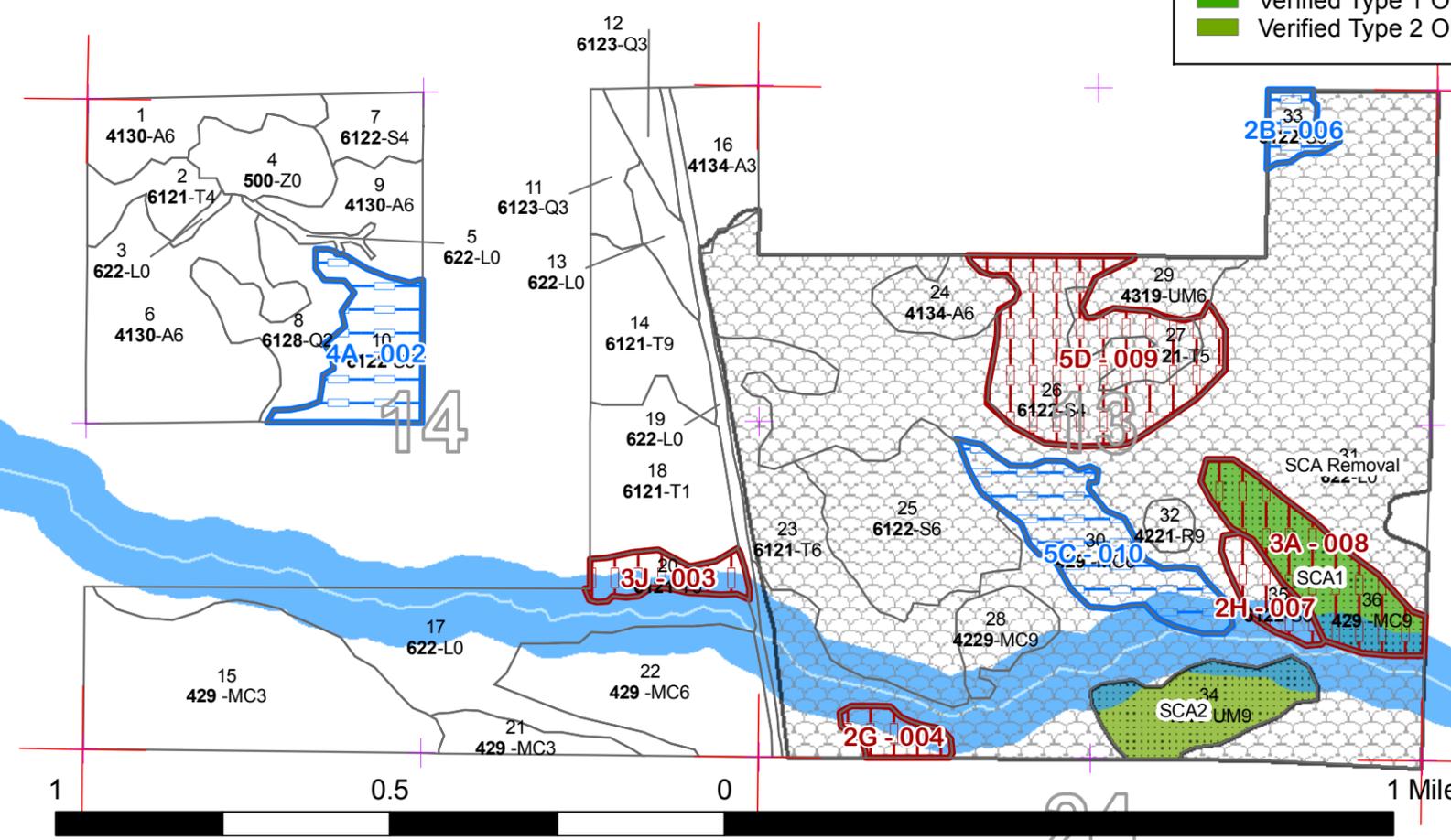
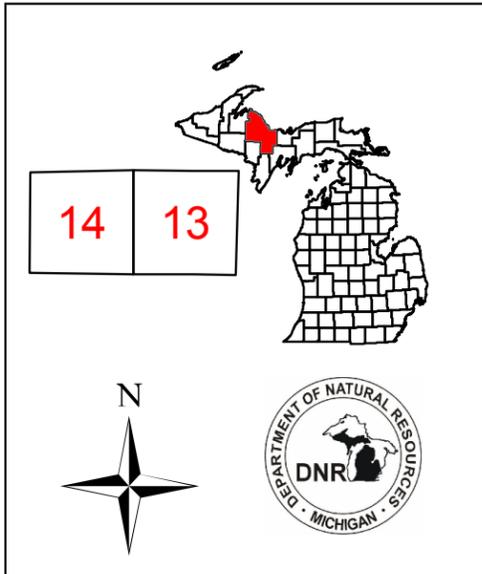
Compartment: 223
 T46N R29W Sec. 12, 13
 County: Marquette
 Unit: Gwinn
 Management Area: Chain Lakes Moraine
 YOE: 2016
 Acres: 957 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 06/23/2014
 Map Phase: Pre-Review

Special Conservation Areas & Site Conditions Map

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Reviewable SCAs
- Proposed SCA
- SCA Removal
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
 - 4A: No merchantable products (see product standards)
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
 - 2B: Unknown if access through adjacent landowner(s) is possible
- Unavailable Factors
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 - 3A: Potential old growth / biodiversity
 - 3J: Water quality / BMPs (stream, river, or lake)
 - 5D: Unproductive Forest Land
- Special Conservation Areas
 - Cold Water Streams
 - High Priority Trout Stream Buffer
 - Verified Type 1 Old Growth
 - Verified Type 2 Old Growth



87°55'0"W 87°54'0"W 87°53'0"W 87°52'0"W 87°51'0"W

46°24'0"N

46°23'0"N

46°24'0"N

46°23'0"N

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. It is worth mentioning that the numerous islands within the treed bog complex have a fire history as evidenced by old lightning scars, charred stumps and the prescence of paper birch.

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	0	0	15	80	11	0	0	0	0	0	0	0	0	0	107
Lowland Conifers	0	0	15	19	0	0	0	0	0	0	0	0	0	0	33
Lowland Shrub	358	0	0	0	0	0	0	0	0	0	0	0	0	0	358
Lowland Spruce/Fir	0	0	0	0	10	0	0	37	49	21	0	0	0	0	116
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10
Red Pine	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Tamarack	30	0	0	0	10	0	0	16	51	0	0	22	0	0	129
Upland Conifers	0	61	44	0	0	0	0	27	0	0	0	0	24	0	156
Upland Mixed Forest	0	0	0	0	10	0	0	0	0	0	21	0	0	0	31
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	402	61	73	99	41	0	0	80	103	21	21	22	34	0	957



Report 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2016

Compartment 223
Total Compartment Acres: 957

Acres by Treatment Type

Commercial Harvest - 95	Tree Planting - 0	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>
Lowland Coniferous Forest	64	0	0	0	0	0	64
Natural Pines	10	0	0	0	0	0	10
Upland Mixed Forest	21	0	0	0	0	0	21
Total	95	0	0	0	0	0	95



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	32223014-Cut	22.4	6121 - Tamarack	High Density Log	110		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Clearcut with reserves. Do not cut pine, hemlock, cedar and yellow birch within the stand. Adjust the stand boundary to retain a patch of mature timber for retention purposes. Include tamarack in the retention patch per wildlife's request during pre-review.</p> <p><u>Other Comments:</u> Stand is very old and is falling apart. Stand to the south of this was cut in 2008 and has regenerated back fairly well although I can only see some of the regeneration due to 3' of snow.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration includes: fir, spruce and tamarack.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
23	32223023-Cut	36.7	6121 - Tamarack	High Density Pole	85		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Clearcut with reserves. Do not cut pine, cedar, hemlock and yellow birch within the stand. Adjust the stand boundary to retain a patch of mature timber for retention purposes. Include tamarack in the retention patch per wildlife's request during pre-review.</p> <p><u>Other Comments:</u> Stand has pockets of blowdown from many years ago. Original stand encompassed stand 25 as well. Stand was split due to age, tree diameter and health. 1.8 acres was removed from the treatment along the southern part of the stand near West Br. Creek and will be part of the retention for this stand.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration includes: fir, spruce and tamarack.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
28	32223028-Cut	10.0	42290 - Natural Mixed Pine	High Density Log	180	81-110	Harvest	Clearcut with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Clearcut with reserves. Do not cut white or red pine within the stand. Clearcut all other species to try and promote pine regeneration. Include wind firm spruce along the edges of stand if no mistletoe is found per wildlife's request.</p> <p><u>Other Comments:</u> Stand consists of a small pine island. By removing all species except the pine I am hoping to get some pine to regenerate within the understory.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration includes: oak, aspen, maple, cherry, birch, balsam fir, white spruce, red and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
34	32223034-Cut	21.0	4319 - Mixed Upland Forest	High Density Log	100	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Clearcut with reserves. Do not cut pine, hemlock, cedar and yellow birch within the stand. Red line buffer along the wetland edge will serve as retention for the stand. Include white spruce and birch in the buffer (per wildlife).</p> <p><u>Other Comments:</u> Stand contains scattered white pine with a few red pine. Retain these trees for future legacy trees and seed source.</p> <p>A DEQ permit will be required to cross a small flowage in the South central part of this stand between C-223/224. A haul road exists in C-224 that heads NW from a grass opening and ends 700+ feet from the stand boundary.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration includes: aspen, maple, cherry, birch, balsam fir, white spruce, red and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										

**Total Treatment
Acreage Proposed: 90.1**

S
t
a
n
d

	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	32223033-Cut	5.4	6122 - Black Spruce	Medium Density Pole	83		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves. Retention will include buffer that encompasses the South and East parts of the stand. Ensure buffer includes tamarack and white birch (per wildlife). Do not cut pine, hemlock and yellow birch within the stand.

Other Comment: Only a 5 acre stand of poorer quality timber.

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

Proposed Start Date: 10/01/2015

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

**Total Treatment
Acreage Proposed: 5.4**

Report 5 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment 223
Year of Entry 2016

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions									
	Available	Not Available		No	5D	5C	4A	3J	3A	2H	2G	2B	
107	107		Aspen	107									
33	33		Lowland Conifers	33									
116	73	43	Lowland Spruce/Fir	46	36		21			7		5	
10	10		Natural Mixed Pines	10									
3	3		Red Pine	3									
129	105	24	Tamarack	105	10			8			6		
156	132	24	Upland Conifers	104		27			24				
31	31		Upland Mixed Forest	31									
585	494	91	Total Forested Acres	440	46	27	21	8	24	7	6	5	
	84%	16%	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	Available	4A: No merchantable products (see product standards)	21	No Limiting Factor			
Comments:							
003	Not Available	3J: Water quality / BMPs (stream, river, or lake)	8				
Comments:							
004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6				
Comments:							

Report 5 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment 223
Year of Entry 2016

006	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	
Comments:				
007	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	2E: Road needed
Comments: Would have to freeze across stagnant black spruce type ground.				
008	Not Available	3A: Potential old growth / biodiversity	24	
Comments: Type 1 old growth.				
009	Not Available	5D: Unproductive Forest Land	46	2G: Too wet (sensitive soils, does not include access issues)
Comments: Stagnant black spruce and tamarack. Very wet stand.				
010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	2E: Road needed
Comments: Delay treatment until the spruce stand to the West (stand 25) is harvested. Access from the South is difficult due to the crossing of West Branch Creek.				



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
SCA2	Type 1 or Type 2 Old Growth	Verified Type 2 Old Growth Area	SCA	21.0
Comments				
It appears stand may have been managed in the past but was hard to tell with so much snow. Large white pine scattered throughout with some large red pine as well.				
SCA1	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	SCA	24.0
Comments				
Type 1 Old Growth. No evidence of logging and large white pine and red pine throughout.				
SCA Removal	Potential Old Growth		SCA Removal	543.5
Comments				



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 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	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.

S
t
a
n
d

Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 223
Year of Entry: 2016

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Pole	16.1	31		Stand cut in 1982. Stand of poorer quality aspen, Hypoxylon has killed some of the aspen within the stand. East finger of stand consists of tamarack, red pine and balsam fir.
2	6121 - Tamarack	Low Density Pole	9.8	40		Stand of low quality tamarack and black spruce, wet ground. Estimated age due to frozen trees.
6	4130 - Aspen	High Density Pole	48.7	31		Stand was cut in 1982. Poorer quality stand of aspen. Hypoxylon is killing a few trees here and there. Some pocket decline as well. Large white pine scattered within the stand. Timber gets poorer within the stand as you head west.
7	6122 - Black Spruce	Low Density Pole	9.6	40		Tag alder swamp with scattered tamarack and black spruce. Low, wet ground. A small patch of decent black spruce exists on the east corner but otherwise poorly stocked wet ground.
8	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	19.0	31		Lowland stand of nice black spruce, tamarack, white pine and balsam fir regeneration. Thick tag alder throughout.
9	4130 - Aspen	High Density Pole	15.4	31		Cut in 1982. Aspen is ok quality, some hypoxylon within the stand but it is holding up fairly well.
10	6122 - Black Spruce	Medium Density Pole	21.1	90		Stand of stagnant black spruce mixed with a few tamarack and cedar. Wet ground, thick tag alder and american holly within the understory. Depending on what corners I find this spring there may be a small strip of red pine in the SW corner of this stand.
11	6123 - Lowland Fir	High Density Sapling	8.2	20		Stand may have been picked through years ago. What remains are a few mature black spruce with thick balsam fir and tag alder regeneration underneath.
12	6123 - Lowland Fir	High Density Sapling	6.3	26		Stand cut in 1987. Nice lowland regeneration throughout the stand.
14	6121 - Tamarack	High Density Log	22.4	110		Stand of lowland black spruce and tamarack. Timber is old, areas of old blowdown exist throughout the stand. Areas that have blowdown are regenerating to back to balsam fir. Thick tag alder understory, Tamarack is declining within the stand.
15	429 - Mixed Upland Conifers	High Density Sapling	60.7	13		Stand was cut in 2001. A mix of balsam fir and red maple have regenerated back. Scattered large diameter white pine and red pine left as residual. Haul road has filled in with nice red pine and white pine.
16	4134 - Aspen, Spruce/Fir	High Density Sapling	15.4	26		Cut in 1987. Nice regeneration throughout. A good mix of conifer and deciduous within the stand.
18	6121 - Tamarack	Low Density Sapling	30.3	7		Cut in 2006. Tamarack and black spruce regeneration is poking through the snow but hard to see if there is smaller regeneration. Overall it looks like stand is forested. Tag alder is pretty thick. A few remnant pole sized black spruce and tamarack scattered throughout the stand. Northeast corner of the stand has filled in with poorer quality quaking aspen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6121 - Tamarack	High Density Pole	8.4	85		Mixed stand of black spruce and tamarack. Stand was left as a buffer along west branch creek.
21	429 - Mixed Upland Conifers	High Density Sapling	7.8	27		Mixed stand of conifer, aspen and red maple. Stand has good stocking of decent quality.
22	429 - Mixed Upland Conifers	High Density Pole	35.8	27		Stand of mixed species of decent quality. Some areas of high ground, some low ground. Aspen is poorer quality. Budworm damage on balsam fir. Most of the young white pine has been damaged by weevil.
23	6121 - Tamarack	High Density Pole	42.5	85		Stand is old and in tough shape. Pockets of blowdown exist throughout. I also noticed some dead tamarack and black spruce.
24	4134 - Aspen, Spruce/Fir	High Density Pole	11.3	40		Stand of maturing quaking aspen and balsam fir with some scattered red maple within the stand. Aspen and balsam fir are good quality. The north side of the stand contains smaller diameter timber.
25	6122 - Black Spruce	High Density Pole	36.7	75		Stand is slightly younger than the spruce and tamarack to the West of it. Stand is dense and smaller diameter. Very little blowdown within this stand.
26	6122 - Black Spruce	Low Density Pole	36.0	83		Stand of stagnant tamarack, trees are stunted and small. Thick tag alder within the understory.
27	6121 - Tamarack	Medium Density Pole	15.5	72		Stand of lower density tamarack. A high water table exists. Thick tag alder underneath.
28	42290 - Natural Mixed Pine	High Density Log	10.0	180	81-110	Stand with massive scattered red pine and white pine throughout, Measured a white pine within the stand at 40" DBH. The white spruce and balsam are falling out of the stand. Red maple is decent within the stand.
29	4319 - Mixed Upland Forest	High Density Pole	10.0	40		Cut sometime between 1977 thru 1980. Stand is a mix of fir, aspen and red maple.
30	429 - Mixed Upland Conifers	High Density Pole	27.3	73		A fair amount of dead white spruce and balsam on the ground. Stand is a mix of numerous species. White spruce, balsam and aspen is in tough shape. The red maple, red pine and white birch is in good condition.
32	42210 - Natural Red Pine	High Density Log	3.2	85	81-110	Stand consists of a small rock island with log sized white pine and red pine of decent quality.
33	6122 - Black Spruce	Medium Density Pole	5.4	83		Small stand of lowland black spruce mixed with balsam fir. Stand is very small.

S
t
a
n
d

Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 223

Year of Entry: 2016



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	4319 - Mixed Upland Forest	High Density Log	21.0	100	81-110	Scattered large white pine and red pine throughout the stand. White birch is in tough condition and is falling apart. A thick understory of balsam fir exists.
35	6122 - Black Spruce	High Density Pole	7.2	85		Stand of decent quality black spruce and tamarack. A few pockets of old blowdown exist, these areas are already starting to regenerate back to a mix of tamarack, black spruce and tag alder.
36	429 - Mixed Upland Conifers	High Density Log	24.0	180	111-140	A very unique stand of super canopy white pine and red pine scattered throughout. A lot of balsam fir blown down. A few large red pine and white pine blown over as well. A thick balsam fir understory exists within the stand. Some very impressive white and red pine within this stand.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	6220 - Alder/willow	1.1	No	Unspecified	
4	50 - Water	13.7	No	Unspecified	
5	6220 - Alder/willow	2.2	No	Unspecified	
13	6220 - Alder/willow	6.4	No	Unspecified	
17	6220 - Alder/willow	54.0	No	Unspecified	Scattered large tamarack scattered on the west side of this stand.
19	6220 - Alder/willow	9.7	No	Unspecified	
31	6220 - Alder/willow	284.7	No	Unspecified	Some areas have scattered mature tamarack within this stand.