



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment #236 Entry Year: 2012
Compartment Acreage: 881 County: Marquette**

Revision Date: July 8, 2010

Stand Examiner: Tom Seablom

Legal Description: T45N R29W, Sec's 22, 23, and 24

Identified Planning Goals ('Management Area' or 'RMU', if applicable): N/A

Management Goals: Management goals for this compartment are to continue to provide a sustainable flow of timber products and to continue to manage wildlife habitat. Timber products are primarily for fiber production with some pine sawlog management taking place. Wildlife habitat is being provided primarily in early successional stages, with some seral stage habitat being provided in the white and red pine cover types. Treatments being proposed during this entry period to aid in accomplishing these goals include seed tree, final harvest, and a thinning. These treatments will provide for early successional habitat and will also provide both pulpwood and sawlog products.

Soil and Topography: Soil's within Compartment 236 belong to the Kalkaska-Carbondale-Deford and Rubicon-Keweenaw Associations. They range from being very deep, nearly level to very hilly, somewhat excessively drained to very poorly drained sandy and mucky soils. Smaller soil extents do exist within these associations such as the Evert and Greenwood soils in the low areas and Au Gres, Croswell, and Paquin types on the level to undulating terrain. The topography within this portion of the landscape is fairly level with some short steep ridges occurring periodically.

Ownership Patterns, Development, and Land Use in and Around the Compartment: A large portion of the land in the surrounding landscape (east and south) is under State control. This compartment is along the western edge of the large block of State ownership in this management unit. There is private industrial forest land to the west of the compartment, several small individual landowners adjacent and within the greater compartment boundary, and two private hunting clubs located directly adjacent to the compartment. State land use is for timber, wildlife, and recreational purposes. Most of the private land has camps on it and they are used for hunting and general recreation.

Unique, Natural Features: None

Archeological, Historical, and Cultural Features: None

Special Management Designations or Considerations: Several stands are currently listed as Potential Old Growth. The majority of the stands are being proposed to have the designation changed to a more appropriate designation such as riparian corridor.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Chain Lakes Moraine. Within Special Conservation Areas, try to manage for diversity and older age classes for wildlife, aesthetics, and riparian protection. Maintain or

increase and/or improve oak for hard mast production, mimic natural disturbance in white and red pine, and strive to increase diversity for wildlife.

Mineral Resource and Development Concerns and/or Restrictions: Sections 22 - 24, T45N-R29W, Marquette County Surface sediments consist of peat and muck, coarse-textured glacial till and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. Some of the Granite/Gneiss might be used for dimension stone. A rock (?) quarry is indicated on the topo one-half mile to the east. Gravel pits are located one mile to the north, and potential appears to be good on the uplands. The abandoned Greenwood iron mine is located fifteen miles to the northeast. Section 22 was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: There is adequate vehicle access to this compartment. The Porterfield Lake Road provides direct access, with multiple side roads providing lateral access to the western portion of the compartment. Side roads off of the Flat Rock Road provide access to the eastern portion of this compartment. Several roads are either bermed or gated at this time.

Survey Needs: None

Recreational Facilities and Opportunities: There currently are no developed recreational facilities within the compartment. Opportunity does exist for potential expansion of the nearby Porterfield Motorcycle trail as this compartment is immediately adjacent to compartments housing the trail.

Fire Protection: This compartment is just south of the revised 581 Zone dispatch area. Timber types within this compartment are not as volatile as those to the north but are still prone to spring and fall leaf litter fires. Potential exists in some small pine and spruce-fir stands for more aggressive fires if they reach these types. Adequate roads within the compartment provide relatively easy access to all areas of the compartment for fire suppression activities.

Additional Compartment Information: None

- **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**

Cover Type & Treatment Map

Compartment 236
 T45N, R29W, Sec. 22, 23, 24
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 881 GIS Calculated
 Stand Examiner: Thomas Seablom
 Map Revised: 8/30/2010
 Map Phase: Pre-Review

Legend

- Miris Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Power
- Intermittent Stream/Drain
- Stream

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Selection (Group, Single Tree)
- Other Treatment - See Comments

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 320 - Upland Shrub
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland

Stand #

23

Stocking Density

(412)0 - A7

Level 3 OI

Level 4 Code

Cover Type Code

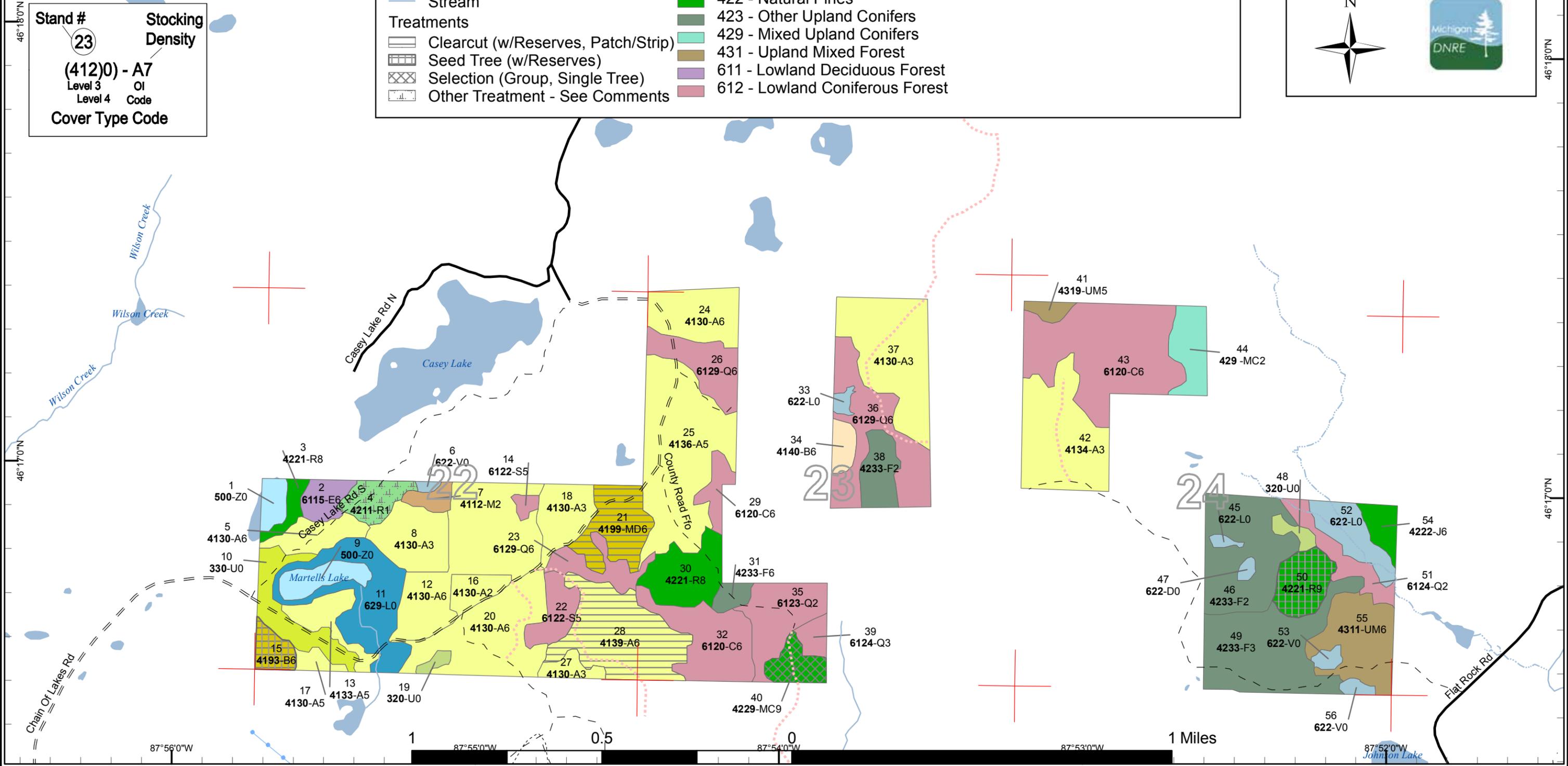


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Compartment 236
 T45N, R29W, Sec. 22, 23, 24
 County: Marquette
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 Stand Examiner: Thomas Seablom
 Map Revised: 8/30/2010
 Map Phase: Pre-Review

Stand Boundary Map

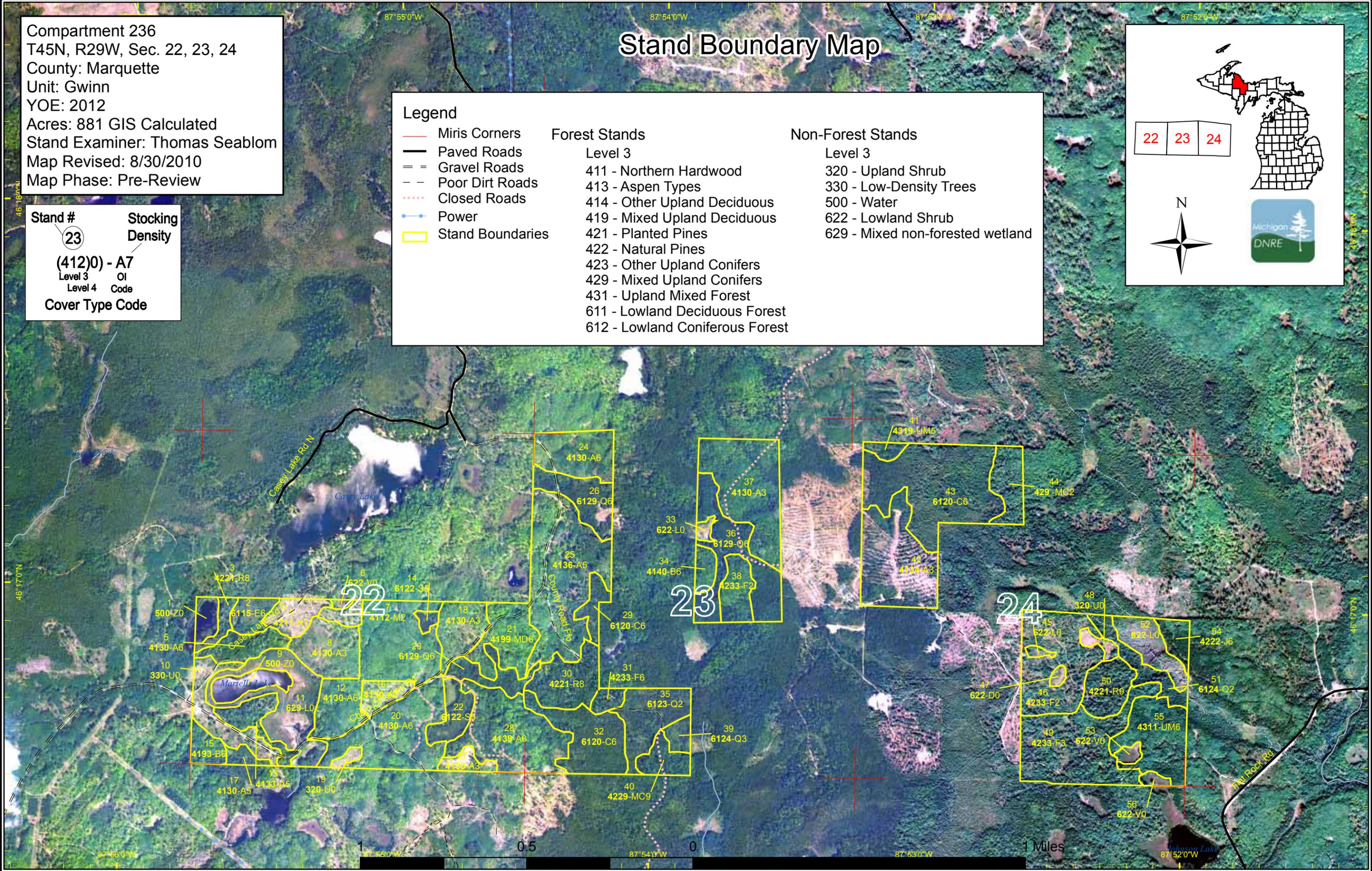
Legend

- | | | | | | |
|-----|------------------|---------------------------------|----------------|----------------------------------|----------------|
| — | Miris Corners | Forest Stands | Level 3 | Non-Forest Stands | Level 3 |
| — | Paved Roads | 411 - Northern Hardwood | | 320 - Upland Shrub | |
| - - | Gravel Roads | 413 - Aspen Types | | 330 - Low-Density Trees | |
| - - | Poor Dirt Roads | 414 - Other Upland Deciduous | | 500 - Water | |
| ⋯ | Closed Roads | 419 - Mixed Upland Deciduous | | 622 - Lowland Shrub | |
| —●— | Power | 421 - Planted Pines | | 629 - Mixed non-forested wetland | |
| □ | Stand Boundaries | 422 - Natural Pines | | | |
| | | 423 - Other Upland Conifers | | | |
| | | 429 - Mixed Upland Conifers | | | |
| | | 431 - Upland Mixed Forest | | | |
| | | 611 - Lowland Deciduous Forest | | | |
| | | 612 - Lowland Coniferous Forest | | | |

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

22 23 24

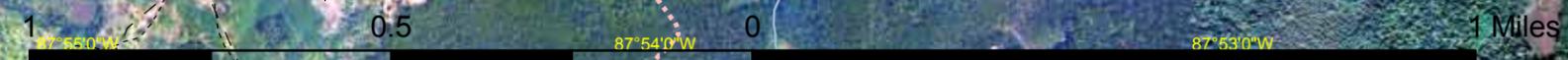
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Dedicated & Proposed Special Conservation AreaTM Map

Compartment 236
 T45N, R29W, Sec. 22, 23, 24
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 881 GIS Calculated
 Stand Examiner: Thomas Seablom
 Map Revised: 8/30/2010
 Map Phase: Pre-Review

Legend

- Miris Corners
- Stand Boundaries
- ▨ Proposed Special Conservation Areas
- ▤ SCA - Special Conservation Area
- ▥ SCA Removal
- ▧ Dedicated Special Conservation Areas
- Cold Water Streams

Forest Stands

- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
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Stand #
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Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

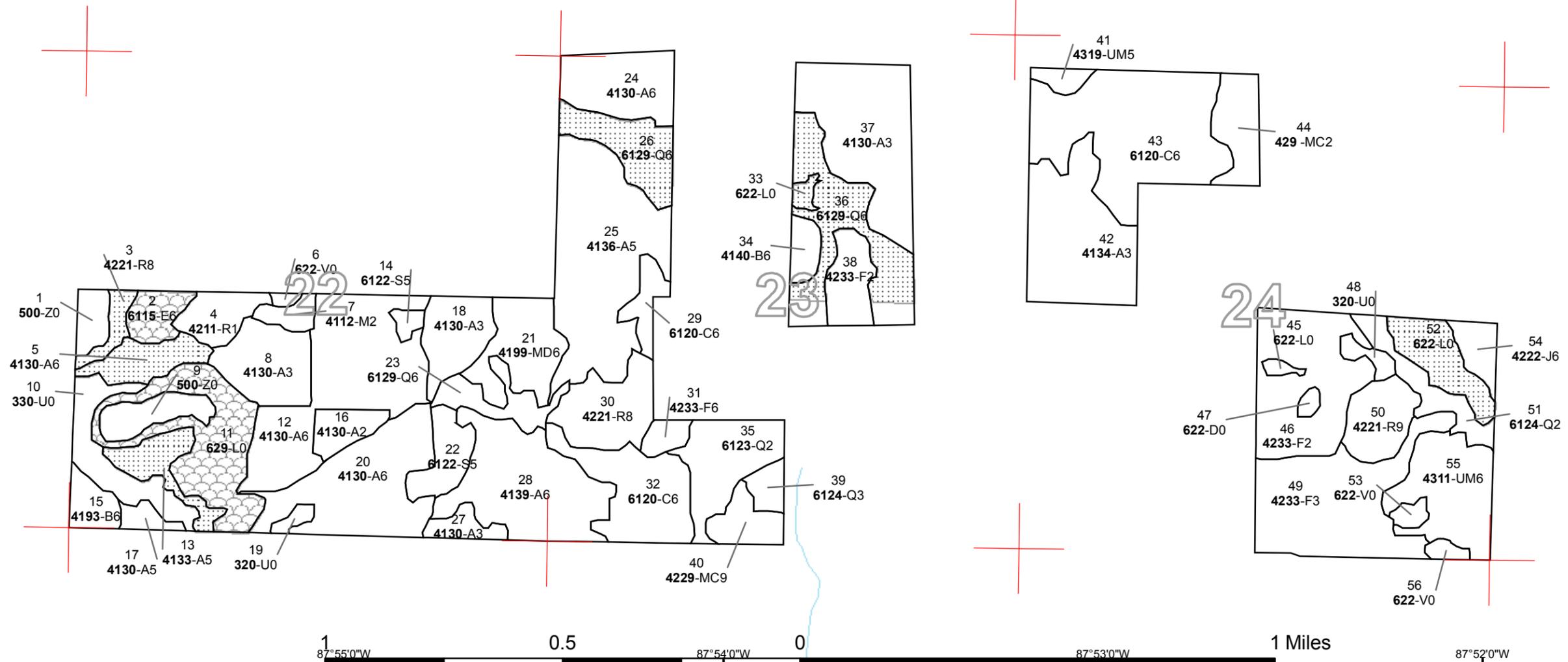
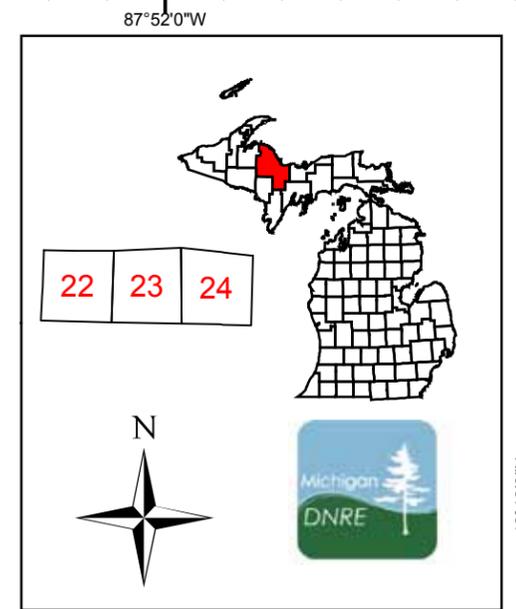


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 10:00 AM



	Age Class														Total	
	Non-Forested	1-9	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	91	33	169	40	0	0	0	21	0	0	0	0	0	0	354
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	0	56	6	26	0	0	88
Jack Pine	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	36	0	0	0	10	0	31	16	0	0	0	93
Lowland Deciduous	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Lowland Shrub	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8
Northern Hardwood	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Paper Birch	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Red Pine	0	0	10	0	0	0	0	0	0	14	0	23	0	0	0	47
Treed Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Conifers	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	0	0	0	26	0	0	0	3	0	0	0	0	0	29
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Spruce/Fir	0	11	4	44	37	0	0	0	0	0	0	0	0	0	0	96
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Total	91	119	47	213	113	32	7	20	55	17	87	54	26	0	0	881



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Gwinn Mgt. Unit
Year of Entry 2012

Compartment 236
Total Compartment Acres: 881.3

Acres by Treatment Type

Commercial Harvest - 88	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 10
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	40	0	0	0	0	0	40
Mixed Upland Deciduous	20	0	0	0	0	0	20
Natural Mixed Pines	0	8	0	0	0	0	8
Paper Birch	0	0	7	0	0	0	7
Red Pine	0	0	14	0	0	0	14
Total	59	8	20	0	0	0	88



Data updated before 10:00 AM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15 32236015-Cut	6.5	4193 - Birch, Aspen	High Density Pole	75	Harvest	Seed Tree with Reserves	Birch, Aspen	Cmpt. Review Proposal

Prescription Stand is currently under contract as timber sale #32-106-09.

Specs:

Other

Comments:

Next

Steps:

21 32236021-Cut	19.7	4199 - Other Mixed Upland Deciduous	High Density Pole	67	Harvest	Clearcut with Reserves	Planted Red Pine	Cmpt. Review Proposal
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Prescription Clearcut, thinning some of the oaks if necessary to open up their crowns. Cut no red or white pine (trace).

Specs:

Other

Comments: Competition from balsam will be a problem. There is very little aspen present in this stand and with the lack of success of birch regeneration red pine would be a good option on this site.

Next

Steps: Herbicide (ground application), trench and plant red pine at our standard planting rate. White pine may be planted in a scattered fashion, primarily in the lobe in the southwest part of the stand.

28 32236028-Cut	39.6	4139 - Aspen, Mixed Deciduous	High Density Pole	36	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription A clearcut with reserves is being prescribed for this stand, as well as thinning in the small patch of red pine sawlogs in the eastern most portion

Specs: of this stand. Cut all trees except for oak, unmarked red and white (if present) pine as well as any cherry or cedar that may be present.

Other

Comments:

Next

Steps:

40 32236040-Cut	8.4	42290 - Natural Mixed Pine	High Density Log	106	Harvest	Group Selection	Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Thin the red and white pine and cut all other species regardless of merchantability. Pine should be thinned to a residual basal area of 100 sq.

Specs: ft/ac, leaving good seed trees for the next harvest.

Other

Comments: Balsam will be thick in the understory after cutting.

Next

Steps:

50 32236050-Cut	13.6	42210 - Natural Red Pine	High Density Log	80	Harvest	Seed Tree with Reserves	Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription A seed tree with reserves harvest is being proposed for this stand. Leave approx. 10-30 sq. ft/ac of red and white pine. Cut all other trees

Specs: regardless of merchantability.

Other

Comments: Stand should be restricted to a snow free, non-frozen condition to allow for scarification. Competition from balsam regeneration may be problematic in this stand.

Next

Steps: If adequate scarification from harvesting does not occur then a post harvest scarification with anchor chains is recommended.

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Data updated before 10:00 AM

	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	32236004- Other	9.6	42110 - Planted Red Pine	Low Density Sapling	15	Other	Unspecified	Planted Red Pine	Cmpt. Review Proposal

Prescription: Regen survey and possible interplanting.

Specs:

Other: This stand has areas that are sparsely to moderately stocked. We may be able to spot herbicide and hand plant red pine here to improve

Comments: stocking. Stand is currently 15 years old.

Next

Steps:

**Total Treatment
Acreage Proposed: 97.4**

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Data updated before 10:00 AM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acres Proposed: 0

Data updated before 10:00 AM

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2012



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Gwinn Mgt. Unit

5 – Forested Stands

Data updated before 10:00 AM

Compartment: 236
Year of Entry: 2012

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6115 - Lowland Ash	High Density Pole	7.5	50		SCA=>Potential Old Growth (2000 Comments). Providing for buffer along un-named pond.
3	42210 - Natural Red Pine	Medium Density Log	4.4	100		SCA=>Potential Old Growth (2000 Comments), aesthetics and buffer around un-named pond.
4	42110 - Planted Red Pine	Low Density Sapling	9.6	15		Stand was harvested in the fall of 1992 by Nickels Logging, permit #13-92. It was then contract hand planted to red pine in the spring of 1995, FTP #C31-290. Stie prep was herbicide and disk trenching. There are areas of this stand that are sparsly stocked. It may be worth while to do some spot herbiciding and interplanting. Actual stocking (not canopy closure) ranges from about 40-60%
5	4130 - Aspen	High Density Pole	11.0	78		SCA=>Potential Old Growth, riparian buffer for Martells Lake and an un-named pond to the north.
7	4112 - Maple, Beech, Cherry Association	Medium Density	4.2	6		Previous stand had been harvested in 2003, sale #107-02-01. Current stand is red maple seedlings/saplings with overstory red oak poles and logs. There are quite a bit of red oak seedlings in the understory, though they are heavily browsed.
8	4130 - Aspen	High Density Sapling	18.9	13		Stand had been harvested in the fall of 1996 by Christian Forest Products, permit #28-95 as a salvage harvest. A storm on September 6, 1995 caused straight line winds which severely damaged this stand. Oak that had blown over was salvaged as well.
12	4130 - Aspen	High Density Pole	49.7	27		Commercially cut in 1982 by Bert and Dale Wiecech, permit #7-79A. Oak had been cut out of this stand except along the Porterfield Lake road (more so on the west end of the stand). There is a good number of oak saplings via stump sprout and seedlings present in the stand today.
13	4133 - Aspen, Mixed Pine	Medium Density Pole	10.5	78		SCA=> Potential Old Growth (2000 Comments). Listed as POG for aesthetic value as it influences Martells Lake. See OFS.
14	6122 - Black Spruce	Medium Density Pole	2.1	70		
15	4193 - Birch, Aspen	High Density Pole	6.5	75		This stand is currently under contract.
16	4130 - Aspen	Medium Density	7.2	6		Harvested 2003, TS #107-02-01. All oak were left as well as a few birch and maple for aesthetics.
17	4130 - Aspen	Medium Density Pole	3.4	25		
18	4130 - Aspen	High Density Sapling	14.5	17		Was commercially cut in the fall of 1992 by Nickels Logging, permit #13-92. Only the aspen was cut.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4130 - Aspen	High Density Pole	38.4	24		Commercially cut in 1985 by Dale and Bert Wiecech, permit #16-81. Oak had been marked to leave.
21	4199 - Other Mixed Upland Deciduous	High Density Pole	19.7	67	111-140	Oak regeneration present in stand, especially along edges. Very little aspen.
22	6122 - Black Spruce	Medium Density Pole	10.2	70		Diameter is quite variable in this stand. Edges hold the largest diameter as well as the jack pine. As you move toward the center of the stand the diameter decreases. Appears to be a bog that is filling in with trees now.
23	6129 - Mixed Coniferous Lowland Forest	High Density Pole	10.2	70		
24	4130 - Aspen	High Density Pole	20.0	27		Commercially cut in 1982 by Dale and Bert Wiecech, permit #16-81. Oak were marked to leave.
25	4136 - Aspen, Mixed Conifer	Medium Density Pole	57.3	23		Commercially cut around 1986 by Dale and Bert Wiecech, permit #16-81. Oak were marked to leave. There is a fair amount of red pine and a trace of white pine along the eastern portion of this stand. Oak stump sprouts individual pole/sapling stems are doing well where they are present.
26	6129 - Mixed Coniferous Lowland Forest	High Density Pole	16.2	102		SCA=>Potential Old Growth (2000 comments). Stand listed as POG from last entry. No reason to remove it. There is a small creek that runs through this stand into a marsh on the east end. Red and white pine are located on the edges of the stand.
27	4130 - Aspen	High Density Sapling	4.9	4		Stand was harvested in 2005 by St. John Forest Products, Inc., sale #109-04-01. All oak, cherry, cedar, red and white pine, as well as spruce smaller than 9-inch stump diameter were left. Cherry, cedar, and white pine are all trace species in this stand.
28	4139 - Aspen, Mixed Deciduous	High Density Pole	39.6	36	81-110	Stand was harvested 1973 by St. John Forest Products, permit #35-70. It is a very mixed stand. Toss up between 4131 and 4136. There are areas of this stand that could be harvested as there are mature aspen and birch pockets scattered within the stand, with the majority of them being in the northern 1/3 to 1/2 of the stand. There is a patch of red pine sawlogs in the eastern portion of this stand.
29	6120 - Lowland Cedar	High Density Pole	6.3	102	111-140	
30	42210 - Natural Red Pine	Medium Density Log	19.0	109	51-80	Very heavy fir understory. A few pole red/sugar maple left. Stand had been thinned in the spring of 1995 by Nickels Logging, permit #13-92. Pine had been selectively marked. There was an earlier select cutting of the pine in the winter of 1967-68 by the Parks Division for picnic table material, permit #32-67.
31	42330 - Upland Fir	High Density Pole	4.0	14		Stand was commercially cut in the spring of 1995 by Nickels Logging, permit #13-92. Essentially the overstory (primarily birch) was removed to release the fir understory (2000 comments). Stand is now thick fir. No birch regen is present.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6120 - Lowland Cedar	High Density Pole	25.5	110		Heavy cedar in this stand with balsam and tag alder understory.
34	4140 - Other Upland Deciduous	High Density Pole	5.0	70	81-110	Cutable stand but would need to be buffered. Would come back to balsam and red maple. Creek crossing on eastside. Best logging access is from the private to the west.
35	6123 - Lowland Fir	Medium Density	20.5	36		Scattered strips of mature spruce and tamarack. Main stand is regenerating fir and spruce. Stand was strip and patch cut in 1973 by St. John Forest Products, permit #35-70.
36	6129 - Mixed Coniferous Lowland Forest	High Density Pole	30.8	90	81-110	SCA=>Potential Old Growth (2000 Comments). Creek on westend of stand. Some scattered balsam. Buried electrical line within this stand.
37	4130 - Aspen	High Density Sapling	40.0	3		Looks good. Most of the 2-3 inch balsam that were left have died. Stand was harvested during the winter of 2006-07 by Minerick Logging, sale #106-02-01. All oak, cherry, cedar, ash, and pine were left. Note: We have received an easement from Daniel Beer (owner of E1/2 NE) to cross the NW corner of his property to access this "80" for a timber sale, this is in exchange for permission to place a buried electrical calbe across the State owned SWNE.
38	42330 - Upland Fir	Medium Density	11.0	3		Stand was harvested during the winter of 2006-07 by Minerick Logging, sale #106-02-01. Any oak, cherry, cedar, ash and pine were left. Stand is now primarily balsam and red maple regen. No birch to be seen.
39	6124 - Lowland Spruce- Fir	High Density Sapling	4.4	37		The high ground in this stand was cut during 1973 by Earl St. Joh, permit #35-70. There is regeneration of a variety of species, including cedar, throughout this stand.
40	42290 - Natural Mixed Pine	High Density Log	8.4	106	141-170	A selection cut was made here by Earl St. John under permit #35-70 in and around 1973. Access here is limited to the south. Acreage is small but worth putting a sale here.
41	4319 - Mixed Upland Forest	Medium Density Pole	3.2	88	51-80	Stand is a mix of species and is only moderately stocked. Very poor access to this stand limits us in cutting this stand. Note: Old OI maps, plat books and various other maps show this section corner being located further north than it really is. The actual corner was GPS'd and the current compartment boundary reflects this change. There are no notes within the original survey records that indicate this corner should be skewed as most maps show it currently.
42	4134 - Aspen, Spruce/Fir	High Density Sapling	38.8	5		Stand was harvested during the late spring and late summer of 2005 by Holli Forest Products, sale #305-03-01. There is white birch regen. prevelant in the northern portion of this stand. Stump sprouts are 5-10 ft tall.
43	6120 - Lowland Cedar	High Density Pole	55.9	92	81-110	Stand has had some cutting in it, 1960's, as some cedar stumps are still evident. Diameter on all species increases as you move into the western portion of the stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	429 - Mixed Upland Conifers	Medium Density	12.6	5		Stand was harvested in December 2005 & January 2006 by Holli Forest Products, sale #305-03-01. Red and whitepine were marked, all oak, cherry, and cedar were left, and only spruce/fir having 3 or more sticks were harvested. There are large super canopy white pine within this stand, however at this time balsam and quaking aspen dominate the stand.
46	42330 - Upland Fir	Medium Density	37.2	32		Stand was commercially cut during 1996-97 by Brian Erickson for Milo Palm, permit #16-92, which removed the birch overstory from the fir undersotry. Some red pine sawlogs were harvested at this time. Prior to this, the stand was cut in 1982-83 as a spruce budworm salvage by Holli Forest Products, permit #20-82. Stand is now predominantly balsam fir with scattered patches of aspen.
49	42330 - Upland Fir	High Density Sapling	44.1	27		Stand was cut by Holli Forest Products under permits #20-82 and #5-83 as a spruce budworm salvage, which were completed in the spring of 1983. Stand is now almost all balsam fir with some scattered pockets of quaking aspen.
50	42210 - Natural Red Pine	High Density Log	13.6	80	111-140	Mature red pine stand mixed with red maple, birch, aspen, and a patch of jack pine; heavy balsam fir as well.
51	6124 - Lowland Spruce-Fir	Medium Density	11.2	39		Stand had been harvested in December 1972 by Holli Forest Products, permit #40-70A. Pole size trees are along the south edge of stand.
54	42220 - Natural Jack Pine	High Density Pole	6.3	46		Stand had been cut in 1962 by Alfred Millimaki, permit #9-62. Jack pine seed trees were marked to leave. Sale also continued into adjacent comparmtne. A prescribed burn took place on May 31, 1963 which resulted in the current stand. Predominantly jack pine with some aspen pockets.
55	4311 - Pine, Aspen Mix	High Density Pole	26.0	42		Previous stand harvested during the period of 1965-68 by Alfred Millimaki, permit #11-65A. The specs were to cut all merchantable aspen, birch and jack pine. FTP #G3-188 in 1968 called for the hand cutting of residual for purposes of Deer Range Improvement. Stand is currently a mix of aspen, jack pine, red maple, balsam fir, and some scattered white pine.



Stand	Cover Type	Acres	Gen Cmts:
1	50 - Water	5.5	
6	6225 - Bog	1.0	
9	50 - Water	9.4	
10	330 - Low-Density Trees	16.1	
11	629 - Mixed non-forested wetland	31.8	
19	3201 - Sweet Fern	1.9	
33	6220 - Alder/willow	1.8	
45	6229 - Mixed lowland shrub	1.3	
47	6224 - Treed Bog	1.4	
48	3201 - Sweet Fern	3.1	
52	6220 - Alder/willow	13.7	
53	6225 - Bog	2.3	
56	6225 - Bog	2.0	



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.

Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments
2	SCA Removal	32236002	7.5	Stand listed as POG. This is not an appropriate designation and should be removed. Stand is mix of tag alger and lowland hardwood and does not exhibit old growth characteristics. There is no special conservation value here.
3	Unique Site - SCA	32236003	4.4	Stand is currently listed as POG, Scenic/visual values. A more appropriate designation would be riparian corridor as it borders an unnamed pond.
5	Unique Site - SCA	32236005	11.0	Stand is currently listed as POG which is an inappropriate designation. It could be listed as a riparian corridor between Martells lake and an unnamed pond to the north east.
13	Unique Site - SCA	32236013	10.5	Listed as POG for aesthetic value as it influences Martells Lake and it's outlet. This stand is an OFS. POG is not an appropriate designation for this stand. Riparian corridor is more appropriate. Possible archeological material here.
26	Unique Site - SCA	32236026_Edt	16.2	SCA=>Riparian corridor. Stand listed as POG from last entry, this is an inappropriate designation for this stand. There is a small creek that runs through this stand into a marsh on the east end. Red and white pine are located on the edges of the stand. Riparian corridor would be a more appropriate designation.
36	Unique Site - SCA	32236036_Edt	25.2	SCA=>Riparian Corridor. The majority of this stand was listed as POG. A more fitting designation would be riparian corridor. A small creek does flow through this stand as a potential feeder creek for the Schwartz Creek to the south.
11	SCA Removal	NF_32236011	31.8	Stand currently listed as POG which is an inappropriate designation for this stand. The stand is a bog surrounding Martell's Lake. This stand does not provide for any special conservation feature.
33	Unique Site - SCA	NF_32236033	1.8	SCA=>Riparian corridor. Stand currently listed as POG. This status should be removed as it is a lowland marsh.
52	Unique Site - SCA	NF_32236052	13.7	SCA=>Riparian corridor. This stand is currently listed as POG. It should be removed from that designation as it is a tag alger/marsh grass swamp with a few scattered clumps of lowland conifers. Riparian corridor is a more appropriate designation.



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.

Data updated before 10:00 AM

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

Conservation Area	Type	Description
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.