



**SAULT FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 23

ENTRY YEAR: 2008

Compartment Acreage: 1880

County: Chippewa - Mackinac

Revision Date: October 26, 2006

Stand Examiner: Jason Caron

Legal Description: T42N R2E, Sections 26, 27, 34, 35
T41N R2E, Sections 2, 3

Management Goals: To develop an optimal age class distribution of aspen stands for sustainable forestry and wildlife values. To rotate hardwood treatments for optimum regeneration and stocking of all age classes. Maintain current openings as needed for diversity and enhancement of wildlife benefits. To provide reasonable public access for multiple use benefits such as hunting, trail riding, camping, and hiking, while protecting the natural resources. Cedar is to be maintained in the southern part of the compartment as it is known to hold wintering deer.

Soil and Topography: Shelter-Posen-Summerville: deep and shallow, level to steep, poorly drained and well drained, loamy soils on ground moraines and glacial lake benches. Topography is gently rolling to flat with lower wet areas.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is surrounded by private land on all sides. The area is used primarily for hunting, and timber and wildlife management. Private land bordering the compartment contains several hunting camps, and is primarily used for hunting and timber management as well. This is beneficial for landscape level management on State land.

Unique, Natural Features: Fulmer Lake is here and it has been discovered that the outlet disappears into a fissure and is not found again. Predominately an aspen compartment, there is a unique hemlock stand which has been coded for protection in IFMAP. Michigan Natural Features Inventory lists few species of concern here. See the MNFI website for details.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: One hemlock stand has been coded for biodiversity. (AOI)

Watershed and Fisheries Considerations: This compartment contains Fulmer Lake. We do not have any fisheries data on Fulmer Lake. A buffer boundary should be left in stand 20 next to the lake for large woody debris recruitment and shade. A buffer should also be left next to the karst outlet, which flows for approximately 300 feet.

Wildlife Habitat Considerations: This compartment lies along the Lake Huron shore and in the St. Ignace ecological sub-subsection of the Northern Lacustrine-Influenced Upper Michigan and Wisconsin Section. The entire compartment lies within historic deer yard which supports high numbers of deer during stressful winter periods. The compartment is a mix of aspen and cedar stands with a few scattered hardwood stands throughout. The pre-settlement vegetation patterns are generally similar to what is present in the compartment today.

Managed stands in the compartment will retain all cedar and conifer canopies to preserve wildlife values and thermal cover properties of the stands. Maintaining structural and species diversity as much as possible in harvested stands will help achieve wildlife objectives in this compartment. All timber management will occur during winter months when deer will benefit most from the fallen tops. Buffer zones along streams will be protected to preserve travel corridors and wetland wildlife values and habitats. Wildlife species potentially using this compartment include white-tailed deer, bear, ruffed grouse, snowshoe hare, gray wolves, coyotes, and fox.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck, lacustrine sand & gravel, coarse-textured till sometimes thin to discontinuous over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is quarried for stone/dolomite six miles to the northwest. A pit is located two miles to the west and there should be some potential on the uplands. There is no current economic oil and gas production in the UP.

Vehicle Access: South Springer Rd bisects the west part of the compartment. Various two tracks allow access up through the mid section and M-134 borders on the south side. No new roads needed for management.

Survey Needs: Southeast ¼ of Section 26.

Recreational Facilities and Opportunities: No developments, primarily hunting land. No snowmobile or ORV trails.

Fire Protection: Good access to the south and west parts, however, limited access to the north and east. Water sources are sufficient with Lake Huron nearby.

Additional Compartment Information:

Cover Type details and proposed treatments are listed in the attached reports:

- ◆ **Cover Type by Age Class**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
- **The following information is displayed, where pertinent, on the attached compartment maps:**
- ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**



Stage 1 Acres Summary By Level 3 Cover Type By Age

Compartment: 45023

Date: 10/6/2006

	0	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89	Uneven Age	Grand Total
Aspen Types	0	44.5	242.1	21.4	0	0	615	319.9	105.4	0	0	0	1348.3
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	0	47.1	377.4	0	424.5
Lowland Shrub	13.2	0	0	0	0	0	0	0	0	0	0	0	13.2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	6.1	0	0	6.1
Northern Hardwood	0	0	0	0	0	17.3	0	0	0	15.8	0	0	33.1
Other Upland Conifers	0	0	0	0	0	0	0	0	3.2	0	26.9	0	30.1
Other Upland Deciduous	0	0	0	0	0	0	0	4	0	0	0	0	4
Water	20.5	0	0	0	0	0	0	0	0	0	0	0	20.5
Grand Total	33.7	44.5	242.1	21.4	0	17.3	615	323.9	108.6	69	404.3	0	1879.8

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

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Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Follow Up Activities After Treatment	Pg. 1
4 45023004-Cut	88.3	Aspen, Spruce/Fir	9	65	0	Clearcut with Reserves	Regeneration	Aspen	Natural regeneration is expected. A regen. survey will be needed to make sure the stand is adequately stocked. Acceptable regeneration includes quaking aspen, big tooth aspen, balsam fir, white birch, red maple.	
<p><u>Rev</u> Do not cut any cedar, hemlock, yellow birch, oak. Retain 2-3 trees per acre of white birch, where it exists. Leave clumps of non-merchantable balsam fir standing. Retain snags wherever possible.</p> <p><u>Spec:</u></p> <p><u>Rev</u> Stand consists of a mix of aspen (bigtooth and quaking), balsam fir, white spruce, and cedar. Pockets of older balsam exist. Thick pockets of young balsam in the understory also exist. A unique feature exists along the west side of springer road. In spring the water will collect within a shallow basin and hold there for a week or more. It looks like a beaver pond when it occurs. Cruiser/marker should watch for walking fern.</p> <p><u>Cmnt:</u></p>										
7 45023007-Cut	58.5	Aspen, Birch	9	71	0	Clearcut with Reserves	Regeneration	Aspen	Natural regeneration is expected. Perform a regen survey. Acceptable regen includes aspen, white birch, balsam fir, white spruce, white pine.	
<p><u>Rev</u> Clearcut all species except white pine, yellow birch, hemlock, cedar, and oak. Retain 2-3 trees per acre of white birch, where it exists. Retain snags wherever possible.</p> <p><u>Spec:</u></p> <p><u>Rev</u> Birch is in tough shape within stand. Aspen is decent quality with conks present on some trees. Large boulders exist within the stand. Cruiser/marker should watch for walking fern. Stand contains a few large white pines.</p> <p><u>Cmnt:</u></p>										
19 45023019-Cut	15.8	Sugar Maple Association	9	84	0	Single Tree Selection	TSI	Sugar Maple Association	Natural regeneration is expected. Regen survey is needed. Acceptable regen would consist of sugar maple. Check to see if deer are browsing on new regen.	
<p><u>Rev</u> Selectively mark the stand down to 80 sq. ft. Some areas can be reduced to a lower BA to provide some regen. holes. Do not mark conifers. Retain snags wherever possible.</p> <p><u>Spec:</u></p> <p><u>Rev</u> Stand consists of 98% Sugar Maple. Most of the stand consists of very large "wolfy" trees. Large boulders exist within the stand. Cruiser/marker should watch for walking fern.</p> <p><u>Cmnt:</u></p>										
20 45023020-Cut	194.2	Aspen, Birch	6	69	0	Clearcut with Reserves	Regeneration	Aspen, Birch	Natural regeneration is expected. A regeneration survey is needed. Acceptable regeneration includes quaking aspen, big tooth aspen, white birch, balsam fir, white spruce.	
<p><u>Rev</u> Clear cut all species except white pine, yellow birch, hemlock, oak, cedar. Leave 2-3 trees per acre of white birch, where it exists. Small hardwood patch should be selectively marked down to 80 sq. ft of basal area. Do not mark any conifers within this small patch of hardwood. Retain snags wherever possible.</p> <p><u>Spec:</u></p> <p><u>Rev</u> Stand contains mostly aspen and birch. Birch is starting to fall apart but is still in ok quality. Stand contains areas of large boulders. Cruiser/marker should watch for walking fern. A small patch of sugar maple exists but was too small to map out, it is located NW of stand 26. A 2-4 chain buffer around Fulmer Lake must be established. Buffer can vary depending on slope and timber density. Karst features exist within the Southern most portion of Fulmer Lake. An adequate buffer of 2-4 chains must be established to protect this unique feature.</p> <p><u>Cmnt:</u></p>										

**Total Treatment
Acreage Proposed: 356.8**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**S
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Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Follow Up Activities After Treatment	Pg. 1
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Limiting Factor
and Comment:

Rev
Spec:

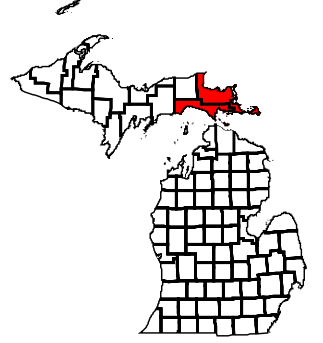
Rev
Cmnt:

**Total Treatment
Acreage Proposed: 0**

Field Map

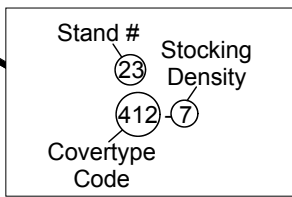
Compartment 23
 T42N, R2E, Sec. 26, 27, 34, 35
 T41N, R2E, Sec. 02, 03
 County: Chippewa, Mackinac
 Unit: Sault Ste. Marie
 YOY: 2008
 Acres: 1,880 GIS Calculated
 Stand Examiner: Jason Caron
 Map Revised: 10/03/2006
 Map Phase: Pre-review

27	26
34	35
3	2



Stocking Density	Definition
1	Sapling low
2	Sapling medium
3	Sapling well
4	Pole timber low
5	Pole timber medium
6	Pole timber well
7	Saw timber low
8	Saw timber medium
9	Saw timber well

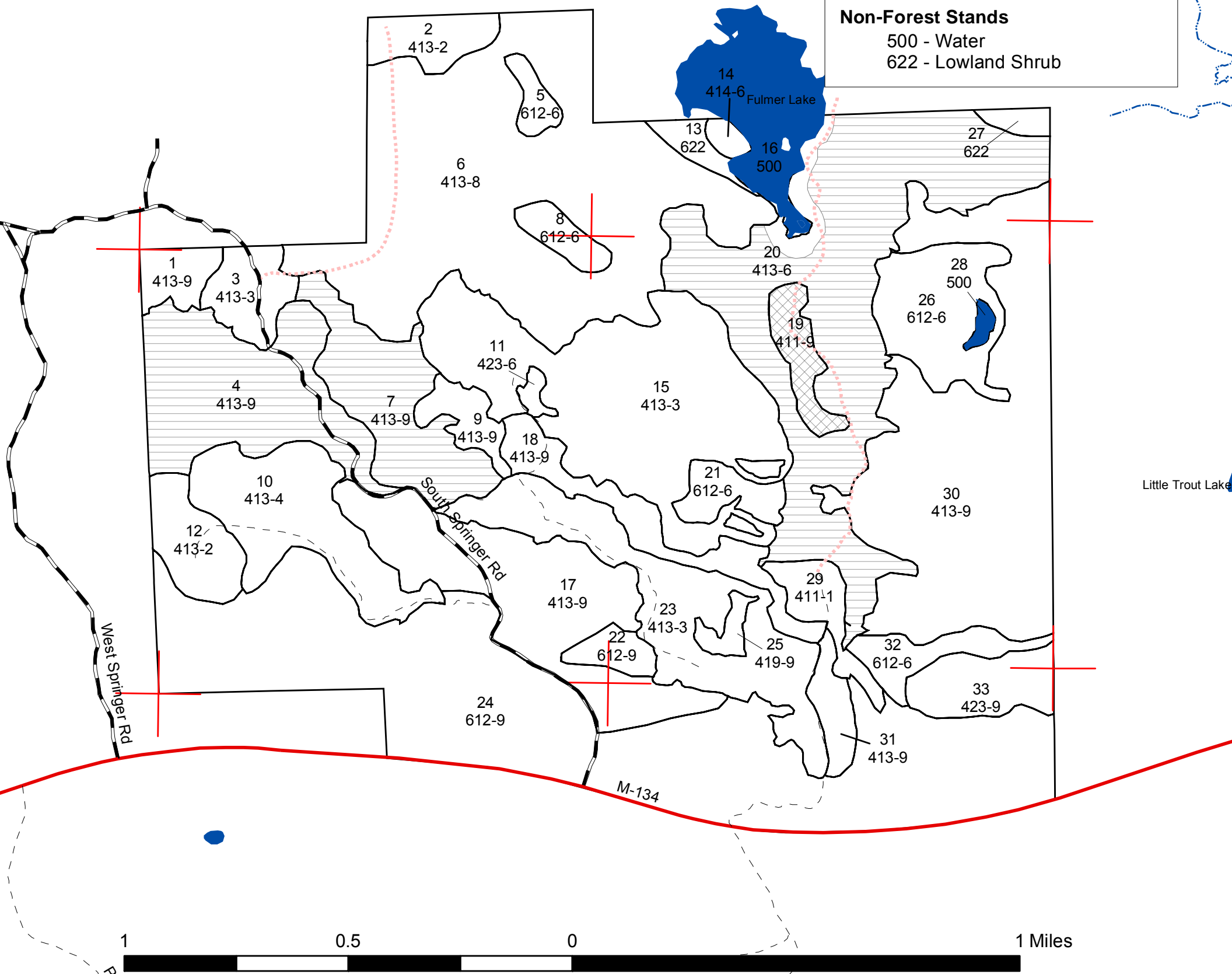
Adams Lake



Multi-part Stands:
 Stand 21, 3 parts, contained within stand 15

Legend

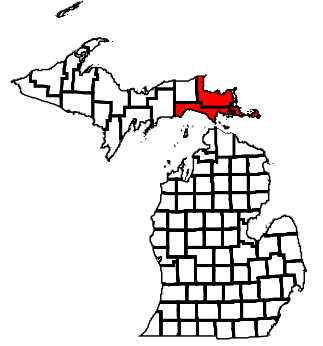
- Miris Corners
 - Highways
 - Gravel Roads
 - Poor Dirt Roads
 - Closed Roads
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Stands
 - Clearcut with Reserves
 - Single Tree Selection
- Forest Stands**
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- 500 - Water
 - 622 - Lowland Shrub



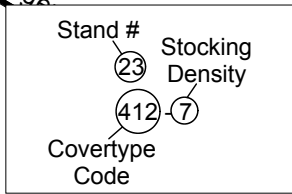
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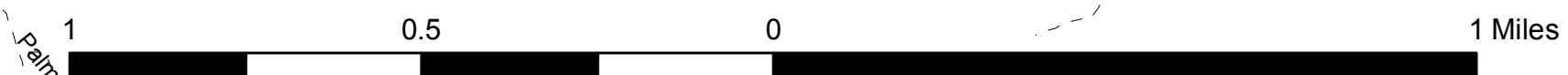
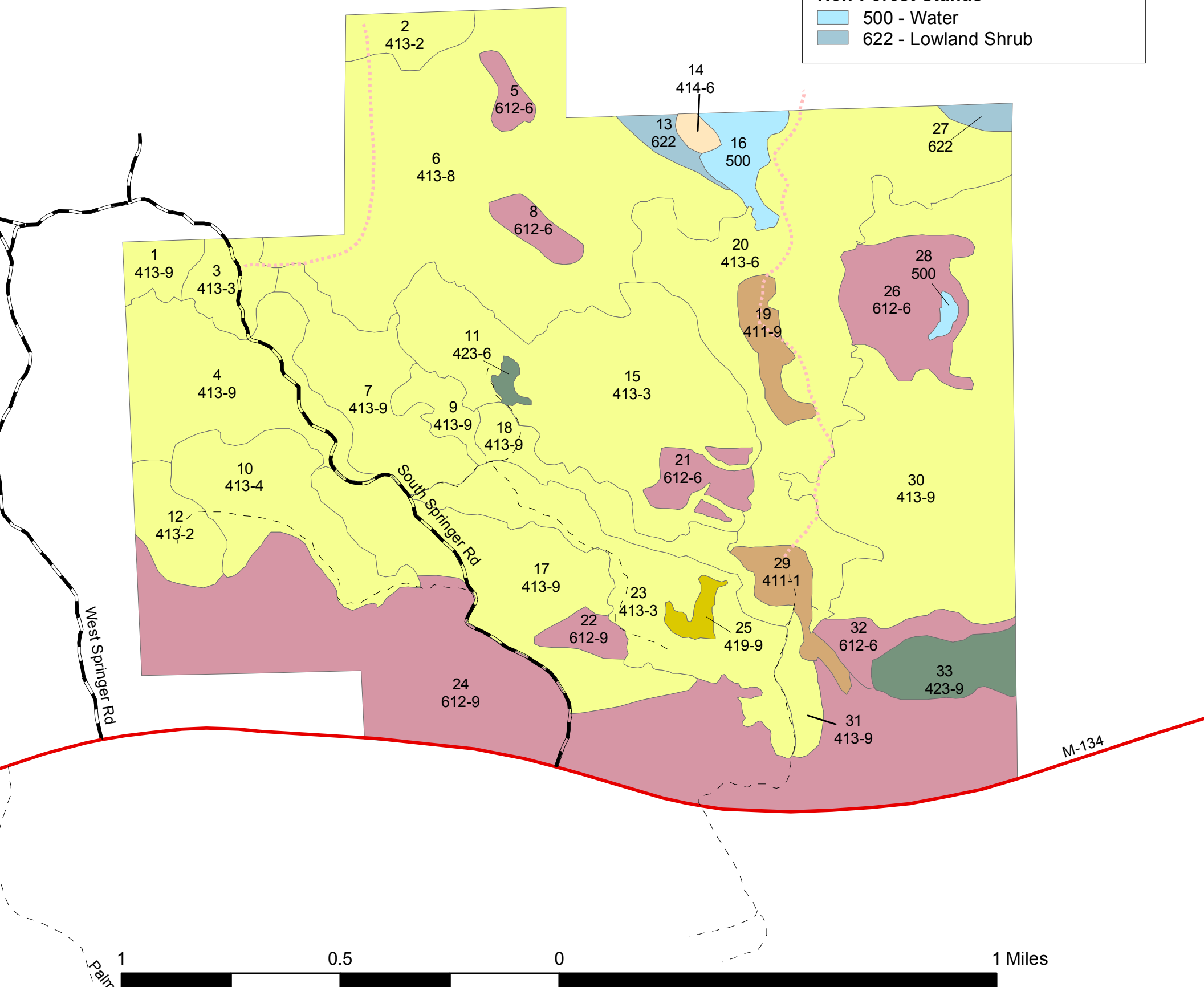
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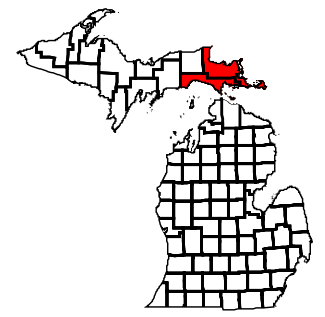
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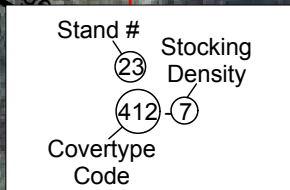
Treatment

Compartment 23
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