



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42084

Entry Year 2017

Acreage: 7,607

County Luce

Management Area: Tahquamenon River Patterned Fen

Revision Date: 2015-08-21

Stand Examiner: Ryan Mattila

Legal Description:

T47N R10W Sections 1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 23, 24 & 25

Identified Planning Goals:

Wildlife, fisheries along with some timber production is the main uses of this area. The goal is to maintain a healthy, sustainable forest ecosystem with special emphasis on unique forest communities and wildlife habitat.

Soil and topography:

The soil in this compartment is mostly made up of a complex of sandy ridges mixed in with level lowland peat soils. The ridges are subtle and narrow for the most part. The forested cover types in the lowland peat soils are typically marsh or treed bogs. The ridges are typically forested with pine, spruce and aspen with some of the richer upland soils having maple, beech, hemlock and white pine.

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

The entire compartment is State owned. The compartment is bordered by State land to the north and to the east. The west boundary is bordered by private corporate land and the south boundary is bordered by private land. There is one isolated '40' of private land on the east boundary of the compartment. Much of this compartment has avoided development due to its remoteness and lowland nature. The land in this compartment is mostly used for hiking, hunting, wildlife viewing, with some fishing and timber production.

Unique Natural Features:

The nature of the wide open marshes and narrow sand ridges within this compartment are unique and natural features to this area. Sleeper Lakes border the northwest corner of the compartment. Murphy Creek and Auger Creek both flow through and out of this compartment area. This is a large area that is for the most part roadless, however evidence of old roads exist and has had little disturbance in the past 40 years. It has avoided development due to its remoteness and lowland nature.

MNFI has identified patterned fens in this compartment as well as a many unique plants. They also list the potential for loon, merlin, eagle, osprey, goshawk, yellow rail, spruce grouse, moose and wolf.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

For the most part, this compartment is large area of wetland marshes with narrow sand ridges irregularly scattered throughout. Most of the compartment is remote with very difficult access due to the lowland forest types and lack of roads. Because of this, it is a large block of unbroken land and has avoided development, offering ideal habitat for many wildlife species. While most of the ridges in this compartment were logged once, the feasibility of timber production could be questioned. New road building and winter conditions would be needed to access much of the compartment for timber harvesting. Most ridges contain little timber volume for the effort it that would be needed to get there. These issues should be factored in when making land management decisions for this compartment.

Watershed and Fisheries Considerations:

Fisheries Values: Moderate

Fisheries Concerns: Auger Creek north and west of M-123 is a designated trout stream, however Murphy Creek is not. Both of these streams are laden with beaver dams, blocking Brook Trout migration and other spawning fish from the Tahquamenon River. Still, both of these streams still contribute to the value of the Tahquamenon River fishery in providing nursery habitat for forage fish as well as suitable habitat for amphibians.

Wildlife Habitat Considerations:

Compartment 84- This large compartment is located in the Seney Sand Lake Plain ecological sub-subsection. The compartment is in the Tahquamenon River Patterned Fen Management Area and has red crossbill, moose, black bear,

blackburnian warbler, snowshoe hare and spruce grouse as featured species. It is largely comprised of low, wet habitats with jack and red pine ridges and scattered tamarack and swamp conifer stands. Current species composition for this compartment appears to represent what was described in presettlement records.

Murphy creek runs through the compartment and provides an excellent wildlife travel corridor. Encouraging structural and species diversity in managed stands will benefit wildlife species. All hemlock will be preserved in harvested stands. Species of special interest potentially using this stand include moose, gray wolf, bear, otter, mink and numerous marsh birds.

Mineral Resource and Development Concerns and/or Restrictions

Sections 1 - 4, 9 - 15 & 22 - 26, T47N-R10W, Luce County

Surface sediments consist of peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River formations subcrop below the glacial drift. The Trenton and Black River are quarried for limestone/dolomite in the UP. There are no gravel pits in the area and potential appears to be limited, as the compartment is dominated by wetlands. There is no economic oil and gas production in the UP.

Vehicle Access:

The main access into the east side of this compartment is via the Williams road which leads west off of M-123. The Williams Road basically 'dead-ends' at a private hunting camp on the east edge of the compartment. From that point there is an old logging leading north and then west across a series of ridges which eventually lead to County Road 407. There is another old logging road leading west from this camp that eventually 'dead-ends'. Both of these old logging roads are currently drivable by ORV and have been used/maintained by hunters. The northeastern edge of the compartment can be accessed via the Fossitt Road which leads west off of M-123. This road also 'dead-ends' at the eastern edge of the compartment where it turns into an abandoned logging road that has grown in. All other logging roads have grown in and have become abandoned or non-existent. M-123 offers access on the very southern edge of the compartment. Overall, the compartment is extremely remote and is accessed mainly by foot.

Survey Needs:

If harvesting treatment occurs, the following corners are needed: W1/4 Corner of Section 25, the S1/16 between sections 25 and 26, SW 1/16 of Section 25, and a survey breakdown of the S1/2SE1/4 of Section 25 being there is an odd parcel of State land there. In addition, we will need the E1/16 of Section 13 along the south boundary of PVT land if treatment occurs in this area.

Recreational Facilities and Opportunities:

Opportunities for hiking, hunting, fishing and wildlife viewing exist throughout the entire compartment.

Fire Protection:

As evident from the sleeper lake fire. Due to the remote nature of this area, it would be very difficult to suppress a wildfire in this compartment. A special fire management plan should be created and implemented on how to handle wildfires for these areas.

Additional Compartment Information:

None

The following reports from the Inventory are attached:

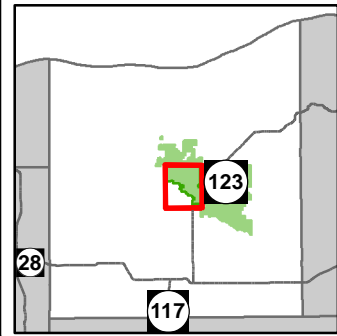
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

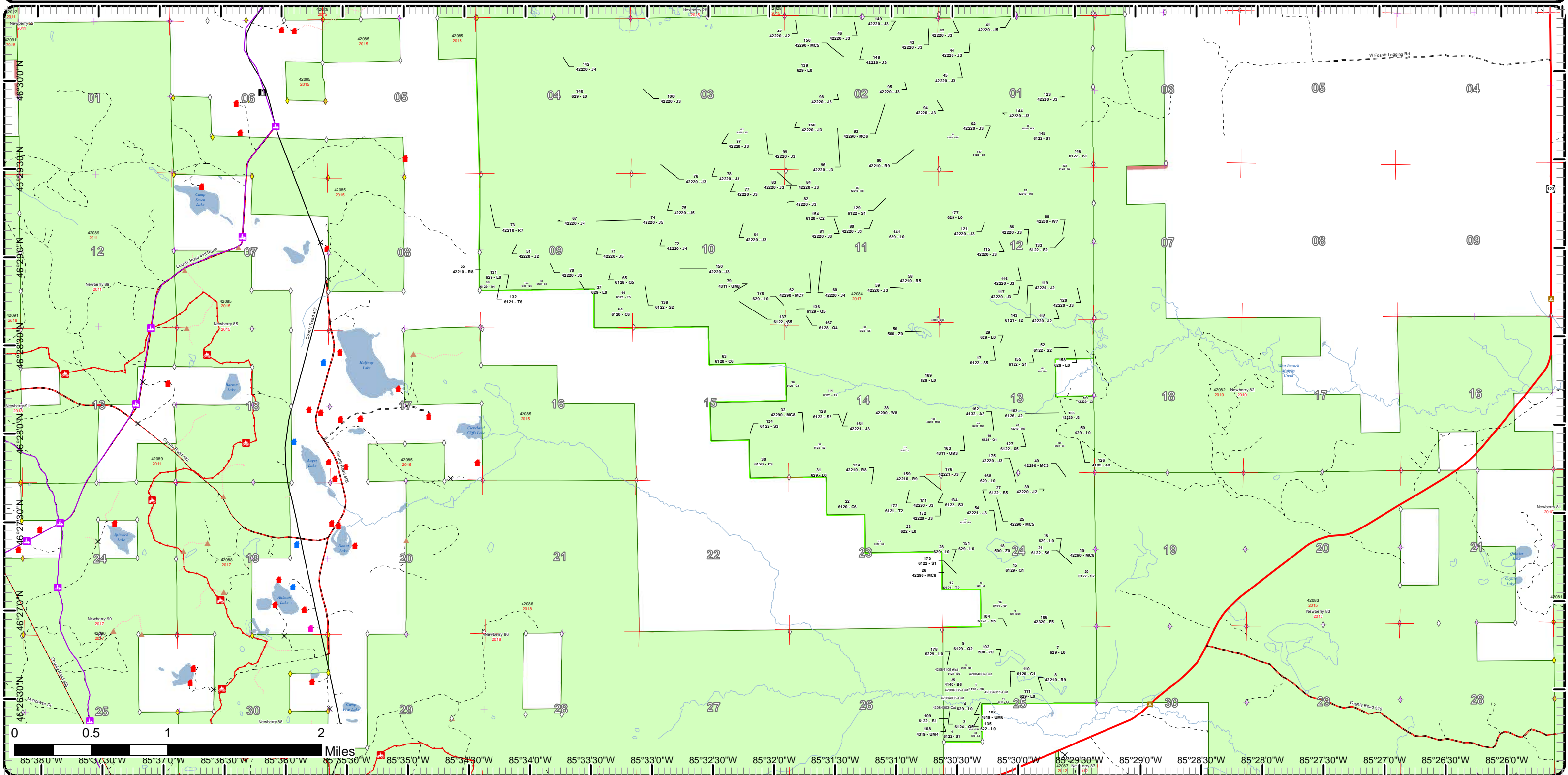
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 84
 T47N R10W Sec. 01-04, 09-15, 23-25
 County: Luce
 Unit: Newberry
 Mgmt Area: Tahquamenon River Patterned Fens
 YOE: 2017
 Acres: 7607 GIS Calculated
 Examiner: Ryan Mattila
 Map Revised: 3/30/2016
 Map Phase: Post-Review

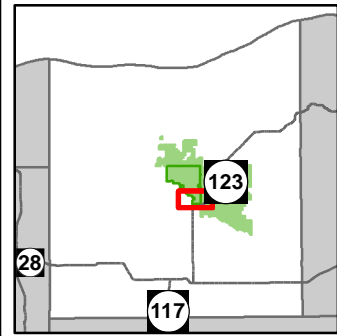


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- ORV License & Trail Permit
- Designated ATV
- X Gate
- Cabin
- Highway
- Poor Dirt Roads
- - - Trail (Non-Recreation)
- - - Closed Roads
- Rivers
- Compartment Boundary
- Treatments with Site Conditions (pd)
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Forest Covertype
- 413 - Aspen
- 414 - Other Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- Lakes

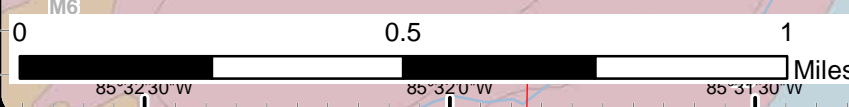
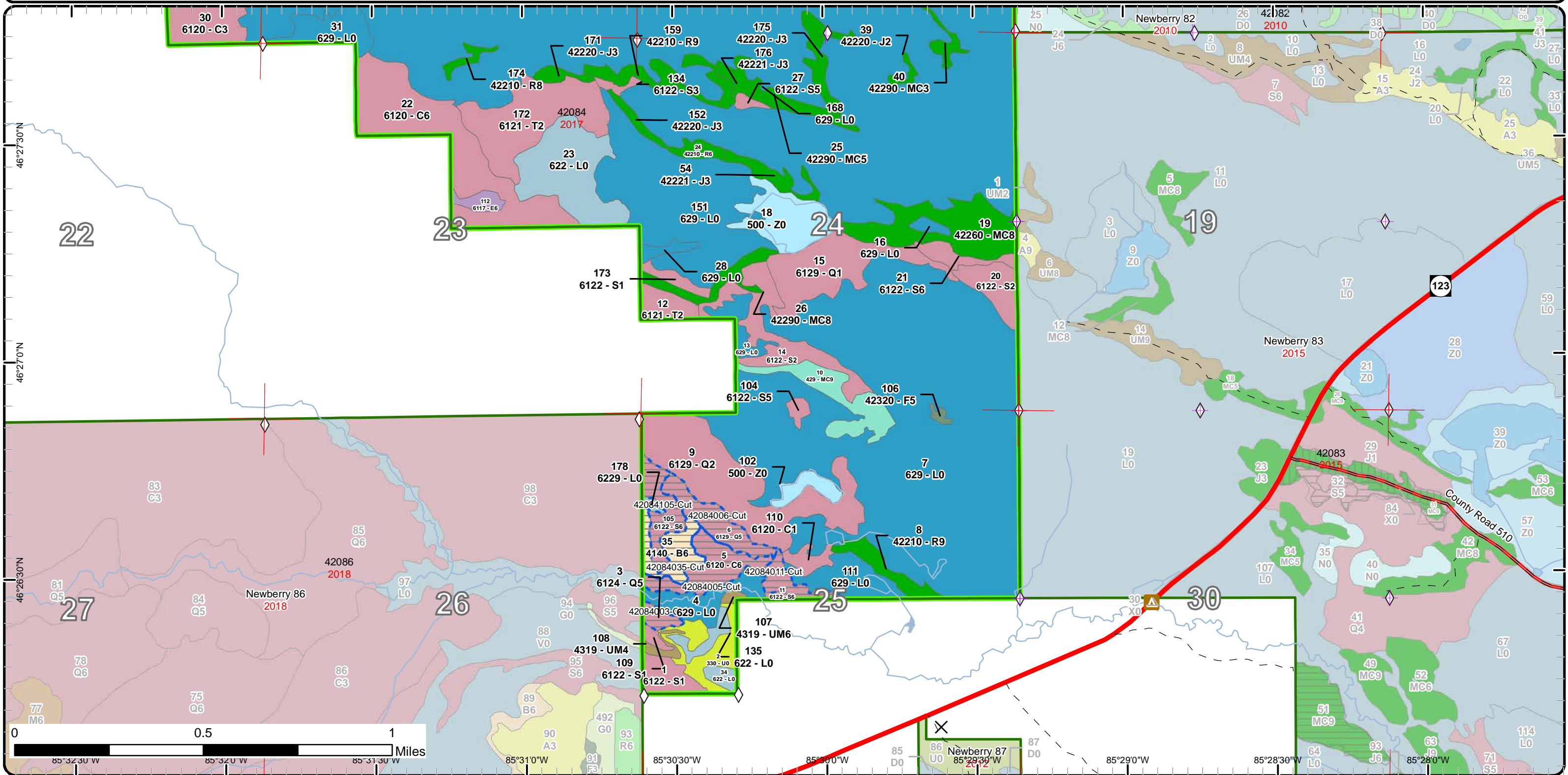


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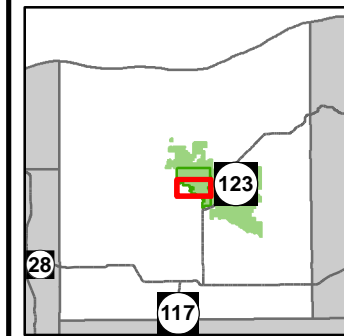


- Miris Corners
 - + Remonumented Section Corners
 - ◇ Field Grade GPS Corners
 - ✕ Gate
 - △ Campground
 - Highway
 - County Gravel Roads
 - - Poor Dirt Roads
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|----------------------|----------------------------------|
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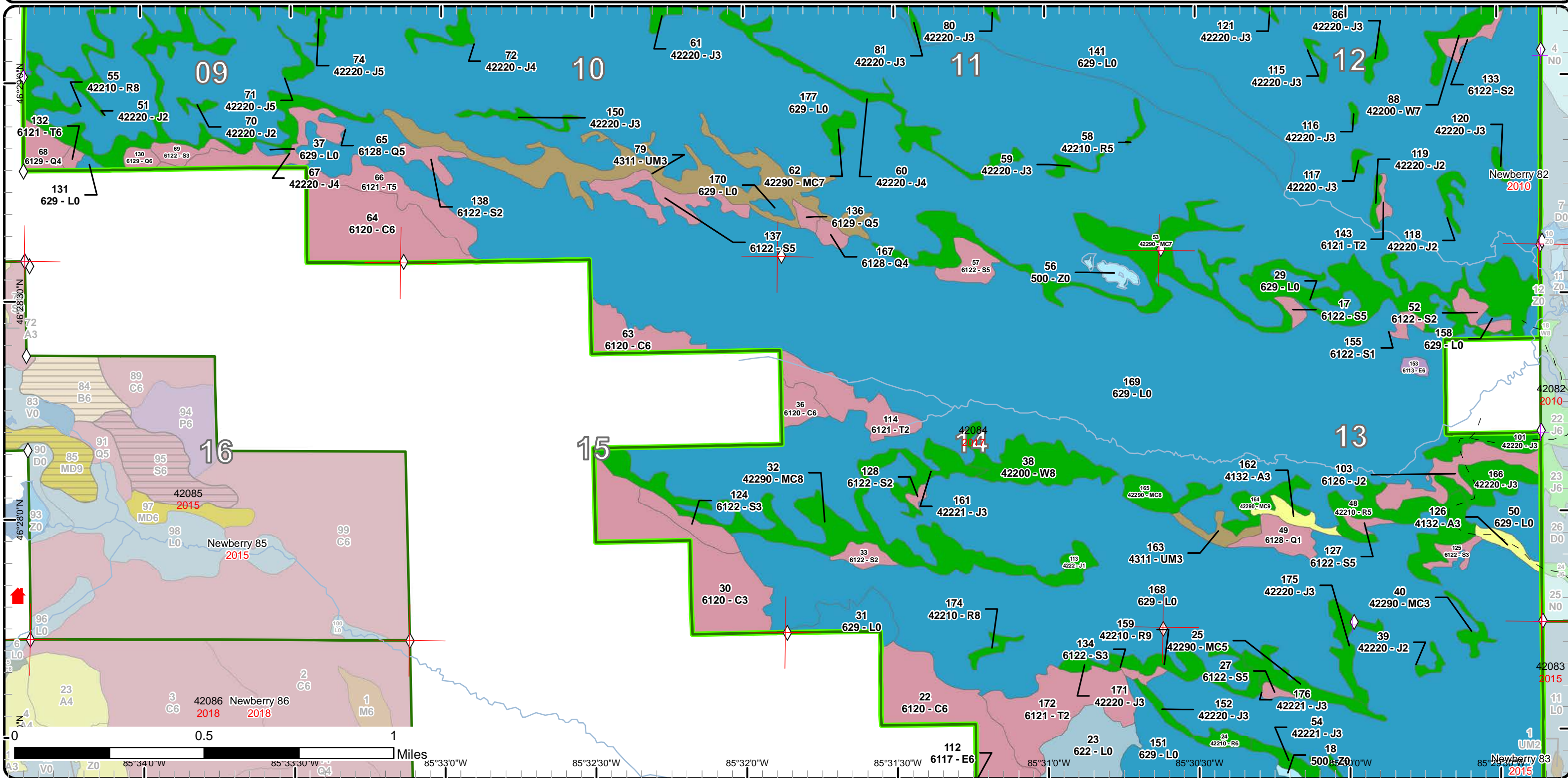


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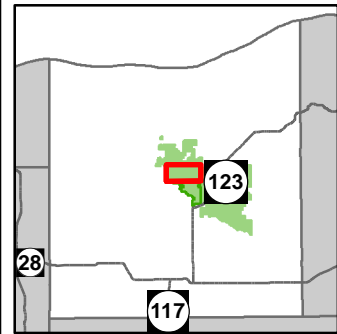
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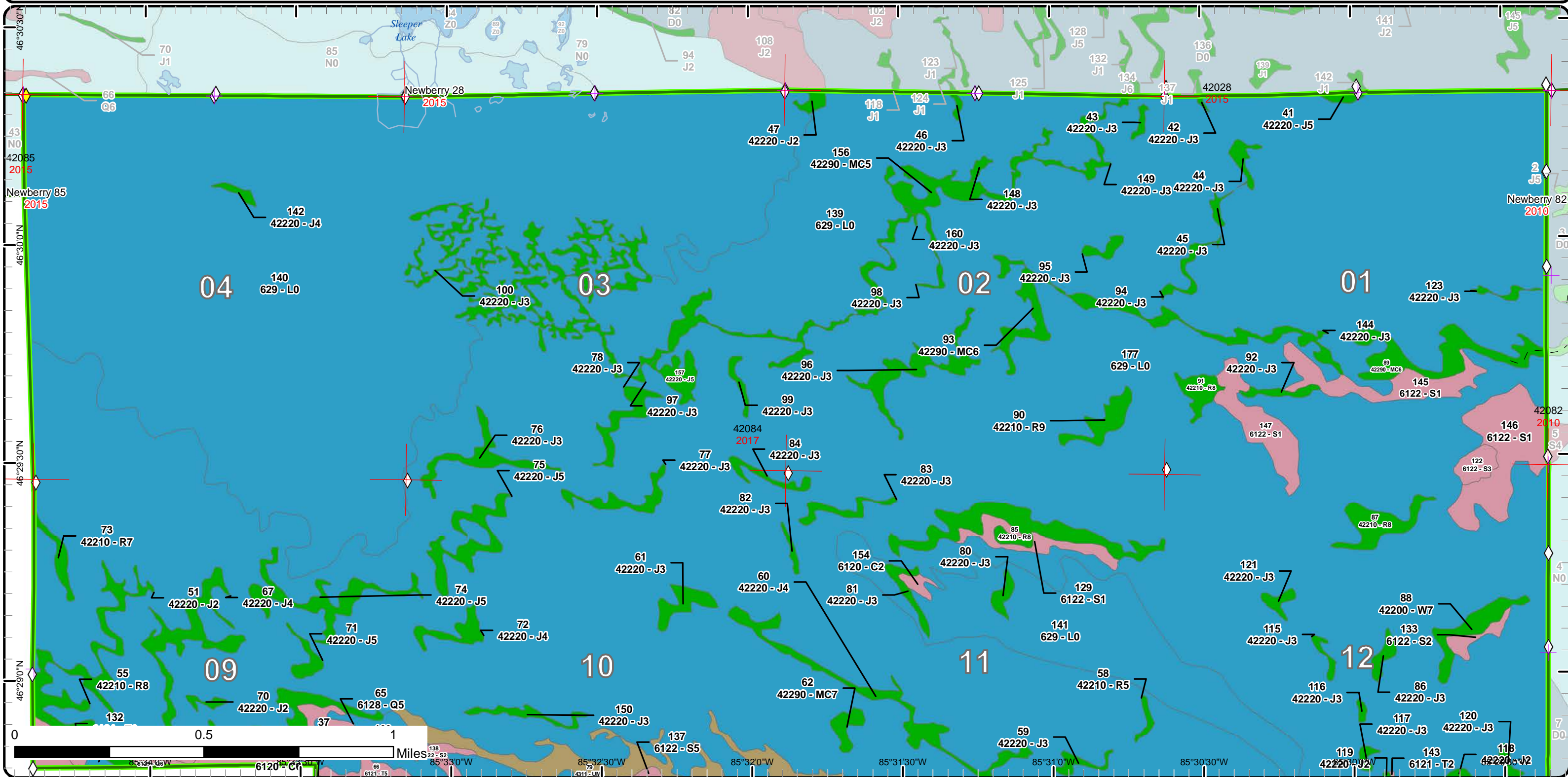


Cover Type & Treatments Map



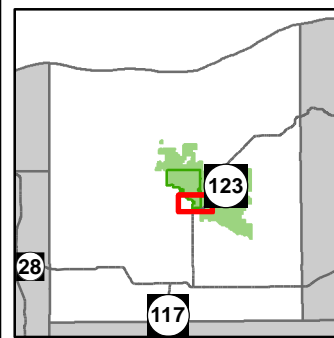
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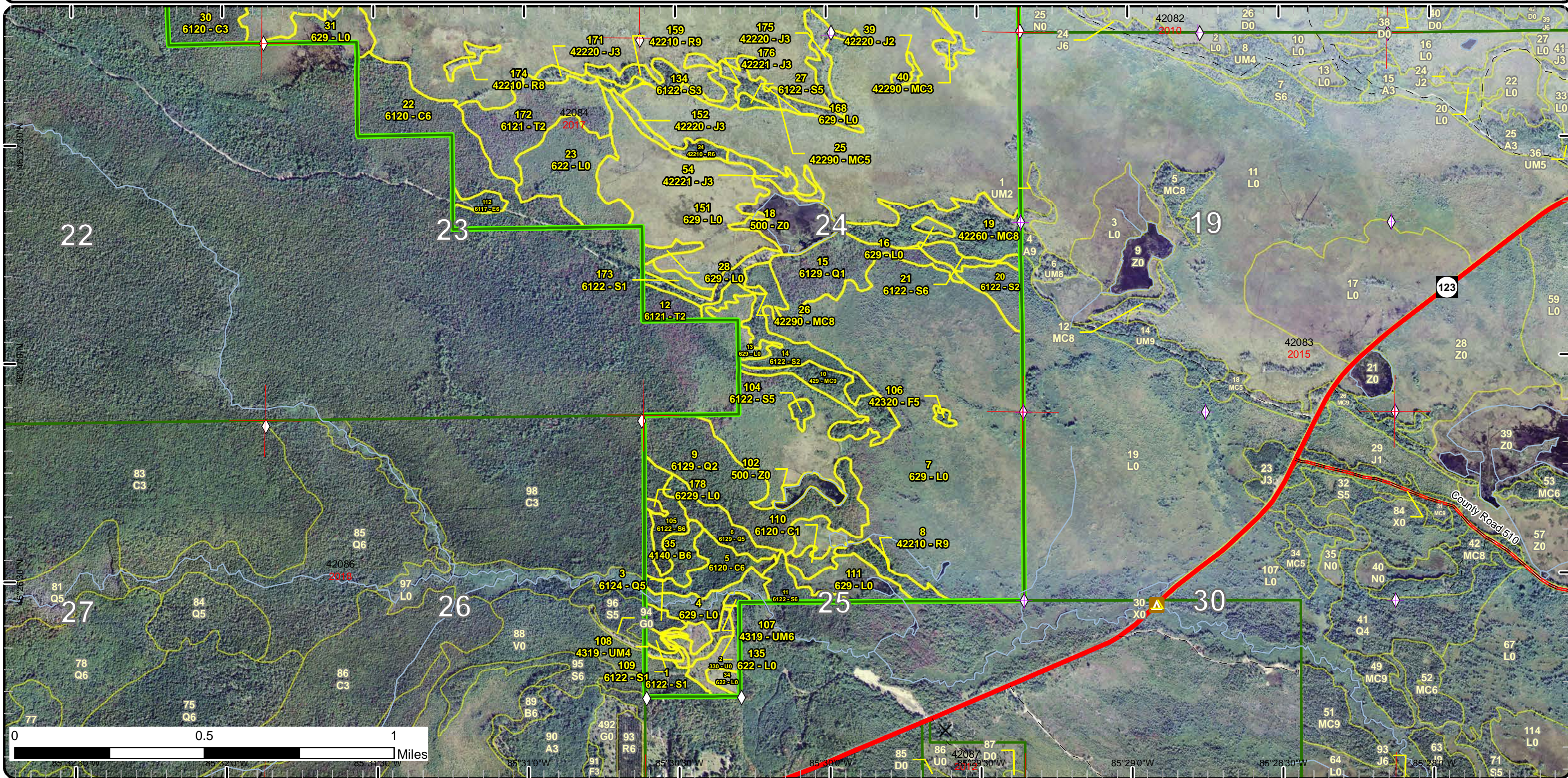


Stand Boundary Map

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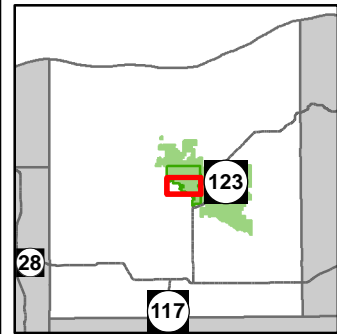


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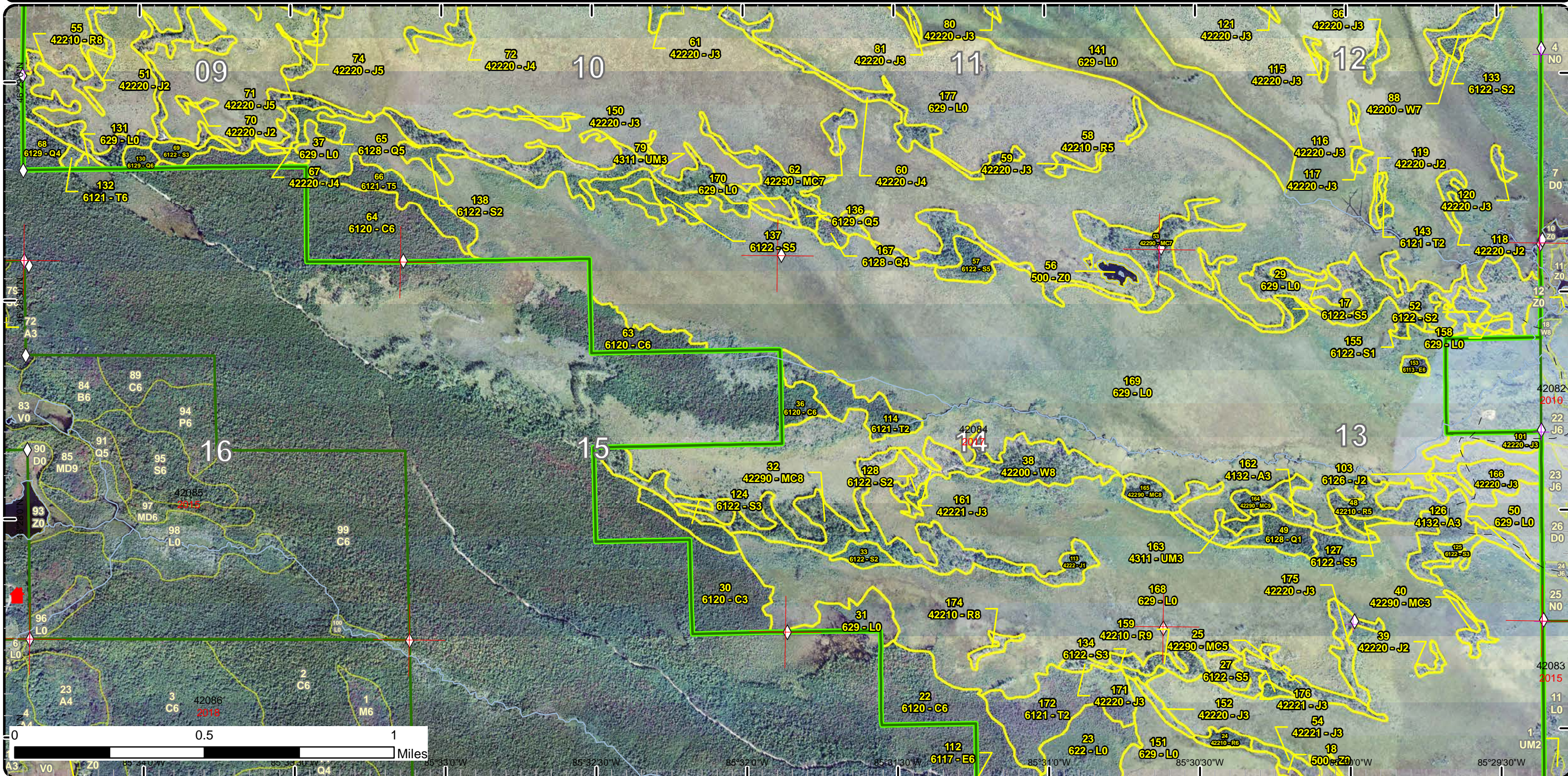


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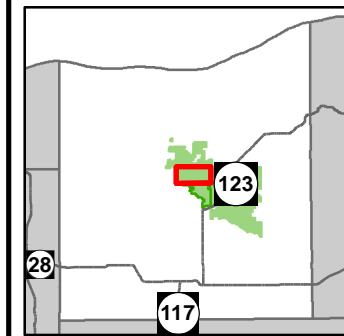


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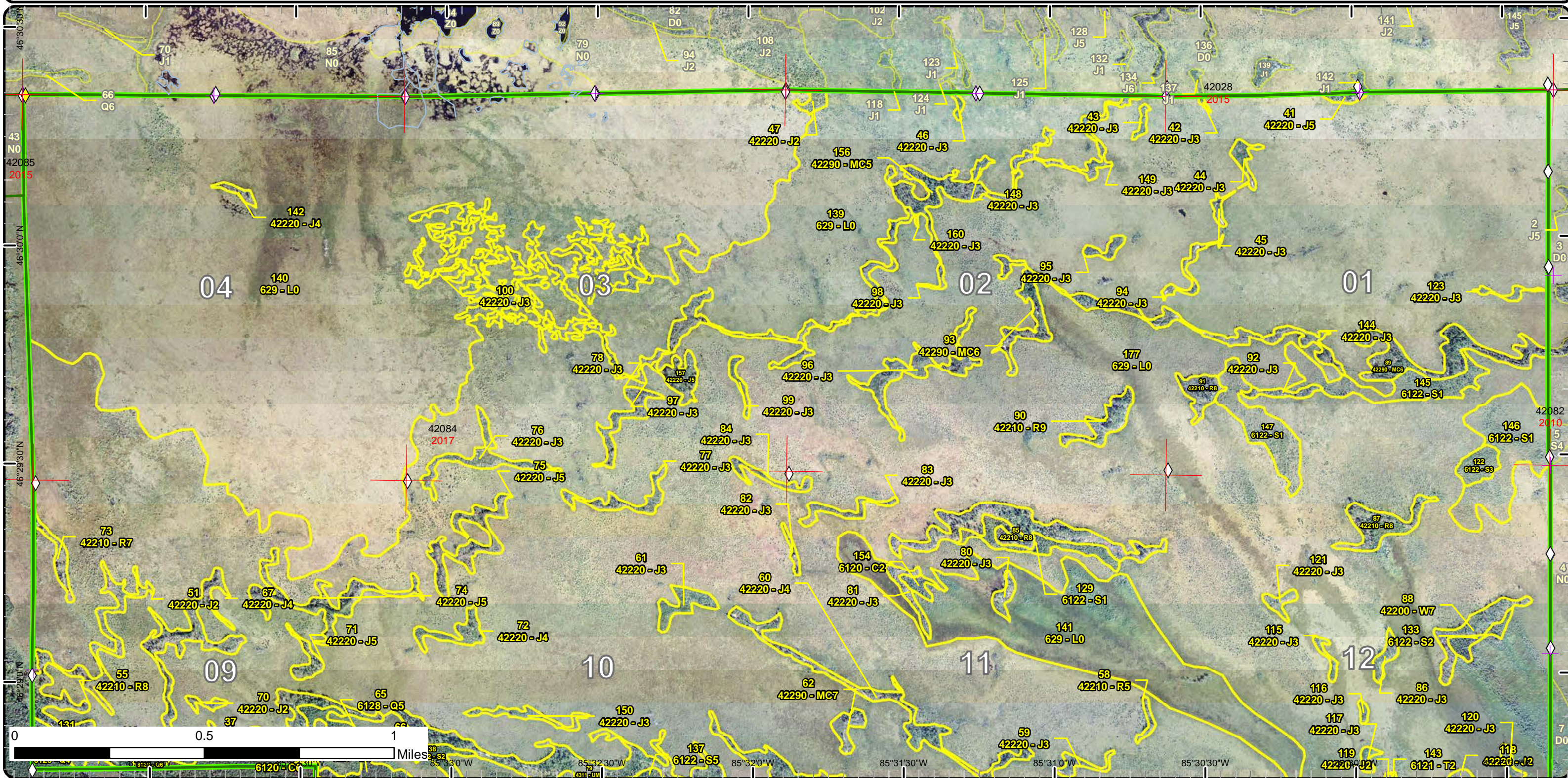


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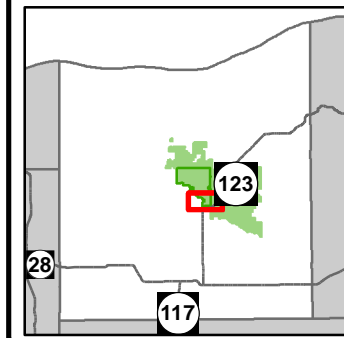


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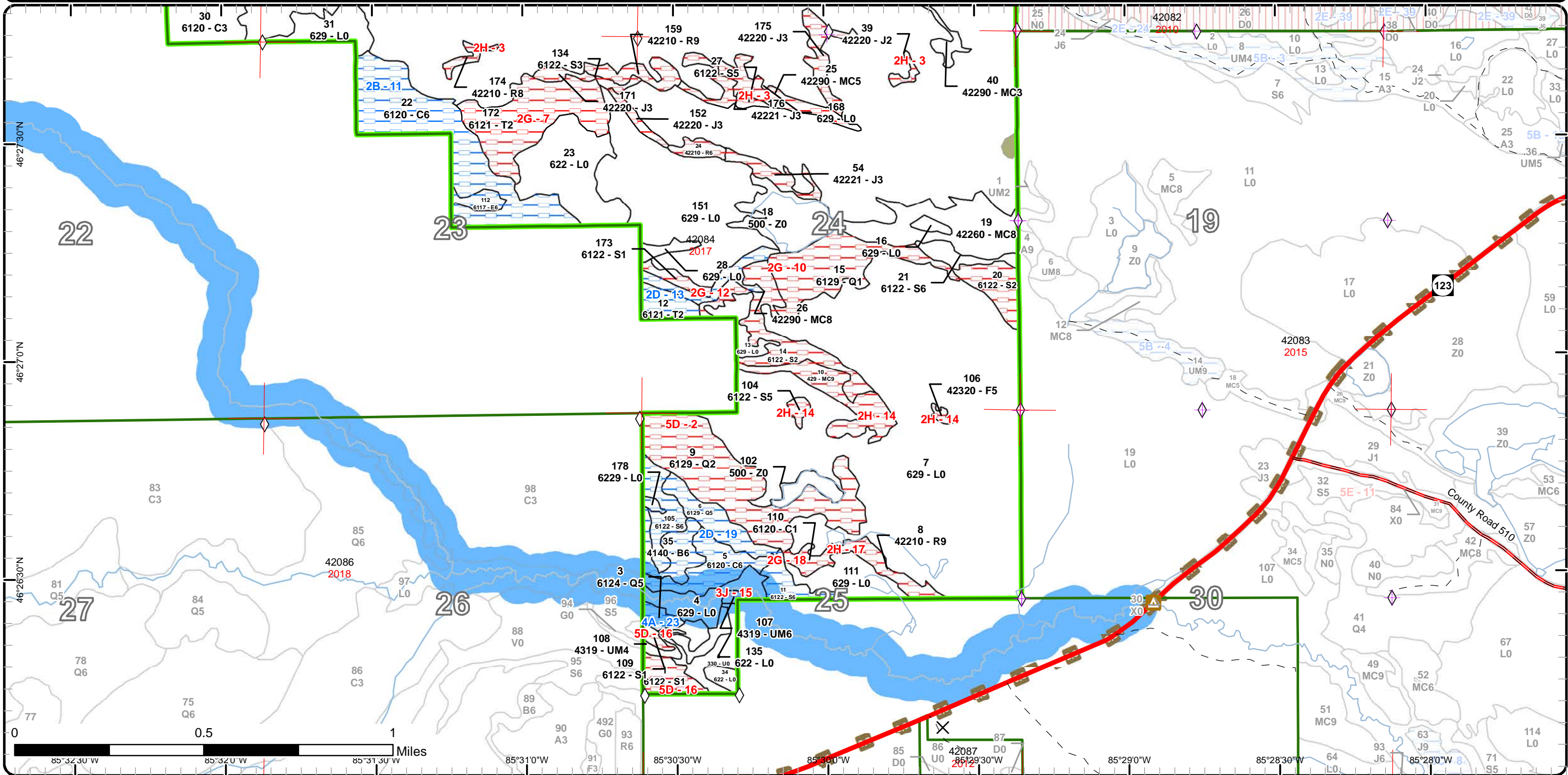


Special Conservation Areas & Site Conditions Map

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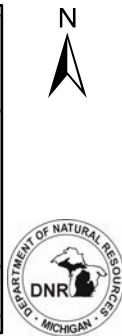
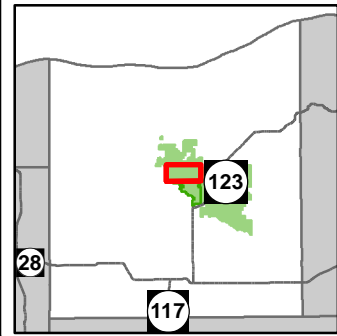


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- ▭ Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Special Conservation Areas
- State Heritage Routes-Scenic (MDOT Designation)
- Cold Water Streams
- High Priority Trout Stream Buffer
- Potential Old Growth
- Other SCA (No Category Assigned)

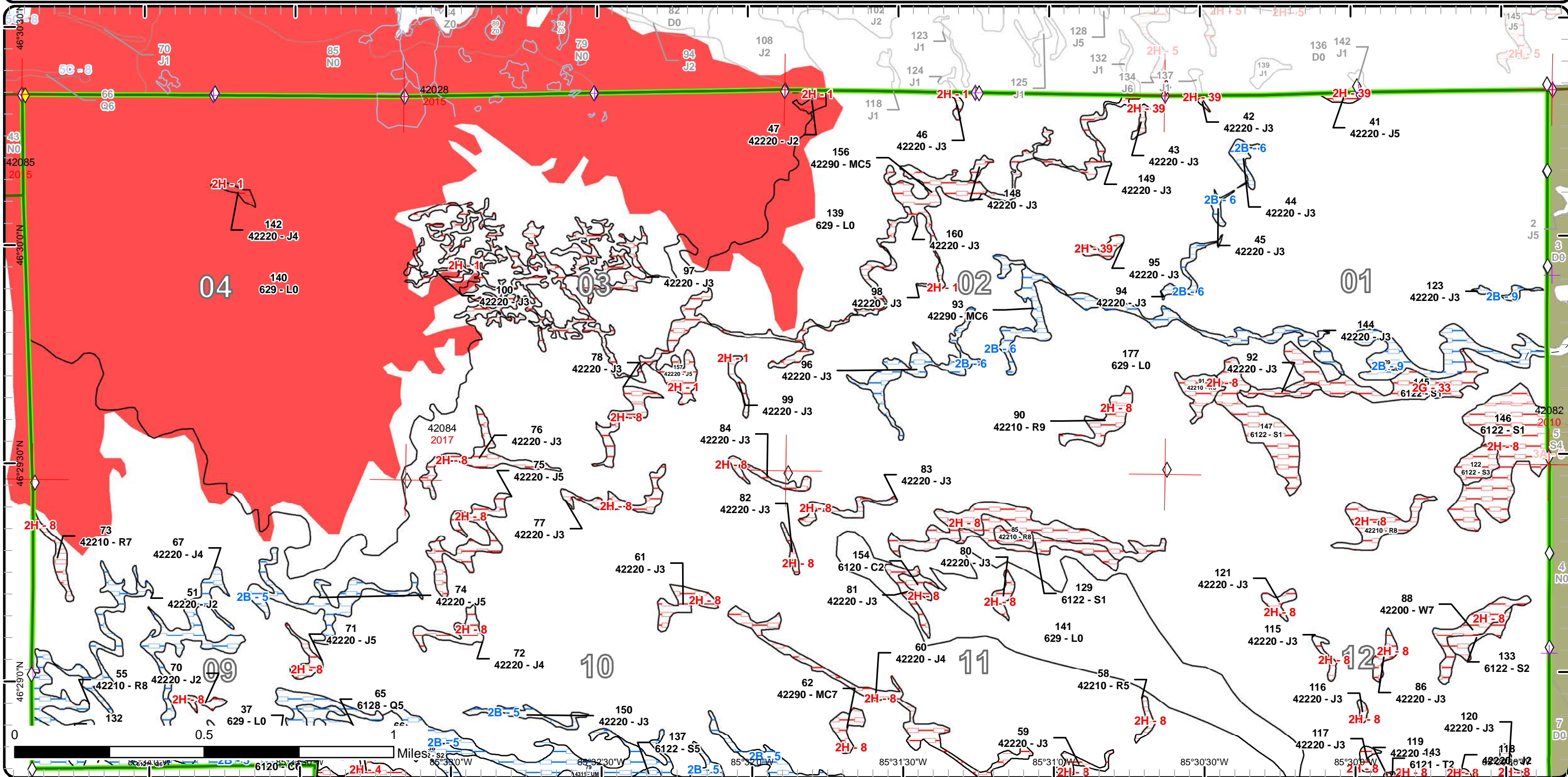


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- ▭ Available w/ Constraints
- ▭ Unavailable
- ▭ 2B: Unknown if access through adjacent landowner(s) is possible
- ▭ 2G: Too wet (sensitive soils, does not include access issues)
- ▭ Stand Boundaries
- ▭ Special Conservation Areas
- ▭ Ecological Reference Areas
- ▭ Potential Old Growth



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Cedar	0	0	0	0	0	0	0	0	0	14	52	0	0	0	42	0	73		181
Jack Pine	0	241	0	2	10	13	53	0	0	2	0	0	0	0	0	0	0	0	321
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	0	12	0	0	0	0	3	7	0	0	0	0	0	111	133
Lowland Deciduous	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	2	6
Lowland Shrub	6170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6170
Lowland Spruce/Fir	0	0	0	53	22	10	9	3	1	12	12	0	0	0	0	0	0	90	212
Natural Mixed Pines	0	3	0	0	0	0	3	0	0	0	10	0	0	68	0	0	0	156	240
Paper Birch	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	0	0	3	0	24	1	0	0	0	77	0	0	0	0	104
Tamarack	0	0	0	0	2	0	0	7	2	0	0	0	0	0	16	0	0	52	79
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16
Upland Mixed Forest	0	52	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	55
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
White Pine	0	0	0	0	0	0	0	0	20	0	0	0	0	8	0	0	0	0	28
Total	6209	304	0	55	34	35	72	10	47	15	50	59	0	153	16	42	0	503	7603



Report 2 – Treatment Summary

Newberry Mgt. Unit

Compartment 84

Year of Entry:

Acres of Harvest

Total Compartment Acres: 7,607

Commercial Harvest -
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut -

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Cedar	14	0	0	0	0	0	0	0	0	14
Lowland Conifers	15	0	0	0	0	0	0	0	0	15
Lowland Spruce/Fir	17	0	0	0	0	0	0	0	0	17
Paper Birch	10	0	0	0	0	0	0	0	0	10
Total	56	0	0	0	0	0	0	0	0	56

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	56	0	0	0	0	0	0	0	0	56
Next Step	0	0	0	0	0	0	56	0	0	56
Total	56	0	0	0	0	0	56	0	0	113



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
3	42084003-Cut	3.1	6124 - Lowland Spruce-Fir	Poletimber Medium	91	Unspec ified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition: No Markets**

Prescription Clear cut to regenerate leaving patch retention, also leave all hemlock for wildlife if it exists in stand. Buffer Auger Creek, creek buffer should be counted as retention when looking at retention requirements.

Next Step
Treatments:

Acceptable any mix of tree species
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/01/2016

5	42084005-Cut	14.4	6120 - Lowland Cedar	Poletimber Well	91	Unspec ified	Harvest	Clearcut with Retention	6120 - Lowland Cedar	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Portable Bridge Needed**

Prescription Clear cut to regenerate leaving patch retention, also leave all hemlock for wildlife if it exists in stand. Buffer Auger Creek, creek buffer should be counted as retention when looking at retention requirements.

Next Step
Treatments:

Acceptable any mix of tree species
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/01/2016

6	42084006-Cut	11.8	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	91	Unspec ified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Portable Bridge Needed**

Prescription Clear cut to regenerate leaving patch retention, also leave all hemlock for wildlife.
Specs:

Next Step
Treatments:

Acceptable any mix of tree species
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/01/2016

11	42084011-Cut	6.3	6122 - Black Spruce	Poletimber Well	86	Unspec ified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Portable Bridge Needed**

Prescription Clear cut to regenerate leaving patch retention, also leave all hemlock for wildlife if it exists in stand. Buffer Auger Creek, creek buffer should be counted as retention when looking at retention requirements.

Next Step
Treatments:

Acceptable any mix of tree species
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/01/2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
35	42084035-Cut	10.3	4140 - Other Upland Deciduous	Poletimber Well	91	Unspec ified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition: Portable Bridge Needed**

Prescription Clear cut to regenerate leaving patch retention, also leave all hemlock for wildlife if it exists in stand.

Specs:

Next Step

Treatments:

Acceptable any mix of tree species

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

105	42084105-Cut	10.5	6122 - Black Spruce	Poletimber Well	91	Unspec ified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Portable Bridge Needed**

Prescription Clear cut to regenerate leaving patch retention, also leave all hemlock for wildlife if it exists in stand.

Specs:

Next Step

Treatments:

Acceptable any mix of tree species

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

**Total Treatment
Acreage Proposed: 56.3**

Report 5 – Site Conditions

Newberry Mgt. Unit
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Compartment: 84
Year of Entry: 2017

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

2B 2D 4A 2F 2G 2H 3J 5D

8	182	321	12	133	6	6170	213	240	10	106	78	16	56	1	27	29	7,607		
8	46	50	12	9	0	6169	24	32	0	24	0	0	7	0	27	20	6,428	85%	Aspen
0	66	78	0	44	4	1	56	168	10	15	8	0	48	0	0	0	498	7%	Cedar
0	69	193	0	80	2	0	134	40	0	67	69	16	1	1	0	8	681	9%	Jack Pine
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Low-Density Trees
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Lowland Conifers
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Lowland Deciduous
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Lowland Shrub
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Lowland Spruce/Fir
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Natural Mixed Pines
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Paper Birch
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Red Pine
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Tamarack
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Upland Conifers
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Upland Mixed Forest
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Upland Spruce/Fir
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Water
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	White Pine
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Total Forested Acres
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	84	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	97	2B: Unknown if access through adjacent landowner(s) is possible	2E: Road needed	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified
Comments:							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	270	2E: Road needed	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified
Comments:							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	37	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	217	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Newberry Mgt. Unit
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9	Available	2B: Unknown if access through adjacent landowner(s) is possible	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2B: Unknown if access through adjacent landowner(s) is possible	55	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5D: Unproductive Forest Land	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	55	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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21	Available	4A: No Markets Available for these Forest Products	44	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2F: Too steep	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	4A: No Markets Available for these Forest Products	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: small area harvest with other stands on the area not merchantable by it self							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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
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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	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.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6122 - Black Spruce	Sapling Poor	8.2	91	Unspecified	
3	6124 - Lowland Spruce-Fir	Poletimber Medium	3.1	91	Unspecified	
5	6120 - Lowland Cedar	Poletimber Well	14.4	91	Unspecified	
6	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	11.8	91	Unspecified	
8	42210 - Natural Red Pine	Sawtimber Well	7.3	121	111-140	
9	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	52.6	96	Unspecified	
10	429 - Mixed Upland Conifers	Sawtimber Well	16.1	121	Unspecified	
11	6122 - Black Spruce	Poletimber Well	7.1	86	Unspecified	
12	6121 - Tamarack	Sapling Medium	6.9	61	Unspecified	
14	6122 - Black Spruce	Sapling Medium	21.7	86	Unspecified	
15	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	27.6	51	Unspecified	
17	6122 - Black Spruce	Poletimber Medium	2.1	81	Unspecified	
19	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	28.5	121	Unspecified	
20	6122 - Black Spruce	Sapling Medium	10.3	46	Unspecified	
21	6122 - Black Spruce	Poletimber Well	5.2	86	Unspecified	
22	6120 - Lowland Cedar	Poletimber Well	51.7	106	Unspecified	
24	42210 - Natural Red Pine	Poletimber Well	3.5	57	51-80	
25	42290 - Natural Mixed Pine	Poletimber Medium	9.8	121	Unspecified	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42290 - Natural Mixed Pine	Sawtimber Medium	7.7	121	Unspecified	
27	6122 - Black Spruce	Poletimber Medium	1.5	70	Unspecified	
30	6120 - Lowland Cedar	Sapling Well	46.1	106	Unspecified	
32	42290 - Natural Mixed Pine	Sawtimber Medium	44.3	121	51-80	
33	6122 - Black Spruce	Sapling Medium	4.5	36	Unspecified	
35	4140 - Other Upland Deciduous	Poletimber Well	10.3	91	Unspecified	
36	6120 - Lowland Cedar	Poletimber Well	6.7	131	Unspecified	
38	42200 - Natural White Pine	Sawtimber Medium	20.5	71	51-80	
39	42220 - Natural Jack Pine	Sapling Medium	1.6	9	Immature	
40	42290 - Natural Mixed Pine	Sapling Well	3.3	9	Immature	
41	42220 - Natural Jack Pine	Poletimber Medium	1.6	81	Unspecified	
42	42220 - Natural Jack Pine	Sapling Well	0.3	9	Immature	
43	42220 - Natural Jack Pine	Sapling Well	1.1	9	Immature	
44	42220 - Natural Jack Pine	Sapling Well	2.5	9	Immature	
45	42220 - Natural Jack Pine	Sapling Well	1.2	9	Immature	
46	42220 - Natural Jack Pine	Sapling Well	0.8	9	Immature	
47	42220 - Natural Jack Pine	Sapling Medium	2.1	21	Immature	
48	42210 - Natural Red Pine	Poletimber Medium	23.8	71	51-80	



Stand	Newberry Mgt. Unit		Report 8 – Forested Stands			Compartment: 84 Year of Entry: 2017
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	8.7	41	Unspecified	
51	42220 - Natural Jack Pine	Sapling Medium	9.2	9	Immature	
52	6122 - Black Spruce	Sapling Medium	4.4	36	Unspecified	
53	42290 - Natural Mixed Pine	Sawtimber Poor	88.5	101	51-80	
54	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	5.8	9	Immature	
55	42210 - Natural Red Pine	Sawtimber Medium	14.8	121	51-80	
57	6122 - Black Spruce	Poletimber Medium	7.3	81	Unspecified	
58	42210 - Natural Red Pine	Poletimber Medium	1.3	81	Unspecified	
59	42220 - Natural Jack Pine	Sapling Well	2.3	9	Immature	
60	42220 - Natural Jack Pine	Poletimber Poor	14.5	51	Unspecified	
61	42220 - Natural Jack Pine	Sapling Well	5.1	9	Immature	
62	42290 - Natural Mixed Pine	Sawtimber Poor	3.4	51	Unspecified	
63	6120 - Lowland Cedar	Poletimber Well	14.4	131	Unspecified	
64	6120 - Lowland Cedar	Poletimber Well	42.4	141	Unspecified	
65	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	13.6	141	Unspecified	
66	6121 - Tamarack	Poletimber Medium	16.0	131	Unspecified	
67	42220 - Natural Jack Pine	Poletimber Poor	25.2	51	Unspecified	
68	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	7.4	106	Unspecified	

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 84
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Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6122 - Black Spruce	Sapling Well	4.6	43	Unspecified	
42220 - Natural Jack Pine	Sapling Medium	1.4	9	Immature	
42220 - Natural Jack Pine	Poletimber Medium	2.9	41	Unspecified	
42220 - Natural Jack Pine	Poletimber Poor	4.7	36	Unspecified	
42210 - Natural Red Pine	Sawtimber Poor	3.4	121	Unspecified	
42220 - Natural Jack Pine	Poletimber Medium	12.4	51	Unspecified	
42220 - Natural Jack Pine	Poletimber Medium	10.2	46	Unspecified	
42220 - Natural Jack Pine	Sapling Well	7.6	9	Immature	
42220 - Natural Jack Pine	Sapling Well	5.2	9	Immature	
42220 - Natural Jack Pine	Sapling Well	5.7	9	Immature	
4311 - Pine, Aspen Mix	Sapling Well	47.8	9	Immature	
42220 - Natural Jack Pine	Sapling Well	2.3	9	Immature	
42220 - Natural Jack Pine	Sapling Well	3.3	9	Immature	
42220 - Natural Jack Pine	Sapling Well	1.2	9	Immature	
42220 - Natural Jack Pine	Sapling Well	3.4	9	Immature	
42220 - Natural Jack Pine	Sapling Well	2.9	9	Immature	
42210 - Natural Red Pine	Sawtimber Medium	21.7	121	Unspecified	
42220 - Natural Jack Pine	Sapling Well	2.5	9	Immature	
42210 - Natural Red Pine	Sawtimber Medium	9.1	121	1-50	

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 84
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
88	42200 - Natural White Pine	Sawtimber Poor	8.1	121	1-50	
89	42290 - Natural Mixed Pine	Poletimber Well	17.6	43	51-80	
90	42210 - Natural Red Pine	Sawtimber Well	6.2	121	Unspecified	
91	42210 - Natural Red Pine	Sawtimber Medium	5.0	121	Unspecified	
92	42220 - Natural Jack Pine	Sapling Well	2.4	9	Immature	
93	42290 - Natural Mixed Pine	Poletimber Well	10.2	97	1-50	
94	42220 - Natural Jack Pine	Sapling Well	2.6	9	Immature	
95	42220 - Natural Jack Pine	Sapling Well	2.0	9	Immature	
96	42220 - Natural Jack Pine	Sapling Well	10.6	9	Immature	
97	42220 - Natural Jack Pine	Sapling Well	36.0	9	Immature	
98	42220 - Natural Jack Pine	Sapling Well	0.9	9	Immature	
99	42220 - Natural Jack Pine	Sapling Well	1.8	9	Immature	
100	42220 - Natural Jack Pine	Sapling Well	2.6	9	Immature	
101	42220 - Natural Jack Pine	Sapling Well	8.3	9	Immature	
103	6126 - Lowland Jack Pine	Sapling Medium	13.7	9	Immature	
104	6122 - Black Spruce	Poletimber Medium	2.0	81	Unspecified	
105	6122 - Black Spruce	Poletimber Well	10.5	91	Unspecified	
106	42320 - Upland Spruce	Poletimber Medium	1.0	81	Unspecified	
107	4319 - Mixed Upland Forest	Poletimber Well	1.1	91	81-110	

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 84
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
108	4319 - Mixed Upland Forest	Poletimber Poor	2.1	91	1-50	
109	6122 - Black Spruce	Sapling Poor	1.7	91	Unspecified	
110	6120 - Lowland Cedar	Sapling Poor	4.0	31	Immature	
112	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	3.6	51	Unspecified	
113	4222 - Natural Jack Pine	Sapling Poor	6.3	9	Immature	
114	6121 - Tamarack	Sapling Medium	17.5	86	Unspecified	
115	42220 - Natural Jack Pine	Sapling Well	1.4	9	Immature	
116	42220 - Natural Jack Pine	Sapling Well	0.7	9	Immature	
117	42220 - Natural Jack Pine	Sapling Well	1.3	9	Immature	
118	42220 - Natural Jack Pine	Sapling Medium	3.5	9	Immature	
119	42220 - Natural Jack Pine	Sapling Medium	1.6	9	Immature	
120	42220 - Natural Jack Pine	Sapling Well	1.6	9	Immature	
121	42220 - Natural Jack Pine	Sapling Well	2.0	9	Immature	
122	6122 - Black Spruce	Sapling Well	5.1	66	Unspecified	
123	42220 - Natural Jack Pine	Sapling Well	1.4	9	Immature	
124	6122 - Black Spruce	Sapling Well	7.6	51	Unspecified	
125	6122 - Black Spruce	Sapling Well	3.3	86	Unspecified	
126	4132 - Aspen, Jack Pine	Sapling Well	4.0	9	Immature	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
127	6122 - Black Spruce	Poletimber Medium	1.9	81	Unspecified	
128	6122 - Black Spruce	Sapling Medium	1.1	31	Immature	
129	6122 - Black Spruce	Sapling Poor	8.8	46	Unspecified	
130	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	3.0	141	Unspecified	
132	6121 - Tamarack	Poletimber Well	1.5	79	Unspecified	
133	6122 - Black Spruce	Sapling Medium	3.5	66	Unspecified	
134	6122 - Black Spruce	Sapling Well	1.5	51	Unspecified	
136	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.1	66	Unspecified	
137	6122 - Black Spruce	Poletimber Medium	12.9	81	Unspecified	
138	6122 - Black Spruce	Sapling Medium	4.8	46	Unspecified	
142	42220 - Natural Jack Pine	Poletimber Poor	1.5	51	Unspecified	
143	6121 - Tamarack	Sapling Medium	1.6	36	Unspecified	
144	42220 - Natural Jack Pine	Sapling Well	9.5	9	Immature	
145	6122 - Black Spruce	Sapling Poor	17.6	21	Immature	
146	6122 - Black Spruce	Sapling Poor	31.7	21	Immature	
147	6122 - Black Spruce	Sapling Poor	16.7	36	Unspecified	
148	42220 - Natural Jack Pine	Sapling Well	1.1	9	Immature	
149	42220 - Natural Jack Pine	Sapling Well	7.2	9	Immature	

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 84
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
150	42220 - Natural Jack Pine	Sapling Well	3.4	9	Immature	
152	42220 - Natural Jack Pine	Sapling Well	2.6	9	Immature	
153	6113 - Lowland Maple	Poletimber Well	2.0	61	Unspecified	
154	6120 - Lowland Cedar	Sapling Medium	2.0	51	Unspecified	
155	6122 - Black Spruce	Sapling Poor	2.2	46	Unspecified	
156	42290 - Natural Mixed Pine	Poletimber Medium	10.7	46	Unspecified	
157	42220 - Natural Jack Pine	Poletimber Medium	5.3	36	Unspecified	
159	42210 - Natural Red Pine	Sawtimber Well	7.0	121	Unspecified	
160	42220 - Natural Jack Pine	Sapling Well	13.8	9	Immature	
161	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	9.7	9	Immature	
162	4132 - Aspen, Jack Pine	Sapling Well	4.4	9	Immature	
163	4311 - Pine, Aspen Mix	Sapling Well	4.6	9	Immature	
164	42290 - Natural Mixed Pine	Sawtimber Well	7.7	121	Unspecified	
165	42290 - Natural Mixed Pine	Sawtimber Medium	8.4	121	Unspecified	
166	42220 - Natural Jack Pine	Sapling Well	11.9	9	Immature	
167	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	2.9	46	Unspecified	
171	42220 - Natural Jack Pine	Sapling Well	2.7	9	Immature	
172	6121 - Tamarack	Sapling Medium	34.2	86	Unspecified	

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 84
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
173	6122 - Black Spruce	Sapling Poor	3.4	26	Immature	
174	42210 - Natural Red Pine	Sawtimber Medium	2.4	121	Unspecified	
175	42220 - Natural Jack Pine	Sapling Well	8.0	9	Immature	
176	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	4.9	9	Immature	



Stand	Cover Type	Acres	Managed Site	General Comments:
2	330 - Low-Density Trees	12.0		
4	629 - Mixed non-forested wetland	12.6	Yes	
7	629 - Mixed non-forested wetland	289.9	Yes	
13	629 - Mixed non-forested wetland	6.6	Yes	
16	629 - Mixed non-forested wetland	1.8	Yes	
18	500 - Water	18.8	Yes	
23	622 - Lowland Shrub	32.2	Yes	
28	629 - Mixed non-forested wetland	2.8	Yes	
29	629 - Mixed non-forested wetland	3.0	Yes	
31	629 - Mixed non-forested wetland	12.2	Yes	
34	622 - Lowland Shrub	2.8		
37	629 - Mixed non-forested wetland	1.1	Yes	
50	629 - Mixed non-forested wetland	14.0	Yes	
56	500 - Water	3.0	Yes	
102	500 - Water	5.2	Yes	
111	629 - Mixed non-forested wetland	13.8	Yes	
131	629 - Mixed non-forested wetland	1.3	Yes	
135	622 - Lowland Shrub	4.1		



Stand	Cover Type	Acres	Managed Site	General Comments:
139	629 - Mixed non-forested wetland	235.4	Yes	
140	629 - Mixed non-forested wetland	955.5	Yes	
141	629 - Mixed non-forested wetland	124.4	Yes	
151	629 - Mixed non-forested wetland	72.4	Yes	
158	629 - Mixed non-forested wetland	0.9	Yes	
168	629 - Mixed non-forested wetland	598.2	Yes	
169	629 - Mixed non-forested wetland	762.7	Yes	
170	629 - Mixed non-forested wetland	2.4	Yes	
177	629 - Mixed non-forested wetland	3019.0	Yes	
178	6229 - Mixed lowland shrub	1.0	Yes	