



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42058

Entry Year 2019

Acreage: 4,854

County Chippewa

Management Area: Whitefish Vermillion Point

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**Revision Date:** 2017-08-31

**Stand Examiner:** Amy Douglass

**Legal Description:**

T49N R07W Sections 1 - 3, 9 - 15 & 24.

**Identified Planning Goals:**

Promote multiple aged and diversified tree species where possible to reduce forest pest impacts and improve conditions for wildlife species. Retain/enhance the quality of recreational uses of the area. Provide for consistent, sustainable wood fiber production over the long term. Protect the muskeg natural community from intrusive activities.

**Soil and topography:**

The majority of the compartment is comprised of bog/muskeg with Dawson and Loxley peats. There are some areas of Kinross-Dawson complex, as well as Deer Park fine sands within the bog/muskeg complex. The transition areas from bog to upland consist of Kinross-Wainola complex. These areas are generally low ground with some slight upland ridges. The upland areas of pine are comprised of Deer Park-Kinross complex, Deer Park fine sand and Crowell-AuGres sands. These areas are pitted with some Kinross-Dawson complex inclusions. The remainder of the compartment south of the Betsy River is made up of Rousseau fine sand. This area is generally upland with some drainages to the River. The low areas of the compartment are seasonally ponded during spring run-off and into mid-summer, becoming ponded once again in late fall. The general topography is level to rolling, with short, steep slopes in areas.

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

Within the compartment is contiguous state ownership. State land borders to the east and to portions of the north. Private, non-industrial ownership borders the rest of the north in generally 10 - 40 acre parcels. Tahquamenon Falls State Park borders the south side of the compartment.

**Unique Natural Features:**

Large expanse of bog/muskeg community.

**Archeological, Historical, and Cultural Features:**

There is an identified archeological site within the boundaries. A CCC camp and a prison camp were once located here.

**Special Management Designations or Considerations:**

MNFI has identified an ERA (Prison Camp Muskeg) within the compartment. This area has a new ERA Plan currently under review.

**Watershed and Fisheries Considerations:**

Fisheries Values: Good

Fisheries Concerns: The South Branch Betsy River flows through this compartment and is a designated trout stream. Native Brook Trout are found throughout this drainage and some of the small tributaries offer nursery habitat where there are groundwater inputs. Stand 3 needs to be buffered a minimum of 300 ft. Aspen regeneration is listed as acceptable in the stand objective. Recommend expanding the factor limit (stand 3) for the water quality/ BMP's stream buffer. Stand 19 should be buffered according to standard BMP's. Aspen regeneration is not a concern in this stand so the minimum of 100 ft would be appropriate here.

**Wildlife Habitat Considerations:**

Compartment 58 lies in northwestern Chippewa county along the border of the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and the Seney Sand Lake Plain ecological sub-subsection. The compartment is in the Whitefish Point Management Area and featured species include Moose, Piping plover, red crossbill, and spruce grouse. The compartment is dominated by treed bogs with jack pine ridges along the edges of the compartment. Scattered stands of red pine, aspen, and hardwood occur along the fringes of the compartment. Stand diversity is generally low as is overall diversity of the compartment. Pine ridges, streams and drainages provide excellent travel corridors.

Stand diversity will be maintained by leaving some mature trees in final harvests. Leave trees will improve structural

diversity, act as food sources, and nest and den trees. Patch retention in harvests will strive to maximize species and structural diversity. The overall integrity and hydrology of the compartment will be maintained by careful harvesting techniques to not impair the lowland areas. Buffer zones along streams, rivers and marshes will be established to preserve travel corridors and wetland wildlife values and habitats. Wildlife species potentially using the compartment include black bear, white-tailed deer, spruce grouse, bobcat, coyote, gray wolf, moose, otter, and mink.

### **Mineral Resource and Development Concerns and/or Restrictions**

Gravel pits are not located in the area. There may be some sand and gravel potential within the compartment but little information about the surface geology is available for the area. Much of the compartment is covered by wetlands, which could limit any sand and gravel development. There is no known metallic mineral potential in this area, and there is no known potential for economic oil and gas production in the UP.

### **Vehicle Access:**

Access around the borders of the compartment is good with maintained county roads throughout. Access into the compartment interior overall is poor with few to no roads. With previous timber harvests there are closed, temporary logging roads.

### **Survey Needs:**

None currently needed.

### **Recreational Facilities and Opportunities:**

Snowmobile trails 8 and 45 follow the county roads within the compartment. Wildlife viewing, hunting and berry picking are other recreational opportunities in the compartment.

### **Fire Protection:**

Large fire runs are possible with some continuous pine stands and open marshes. Road access through the compartment is poor providing little opportunities for fire lines if needed. Large marsh area near the center of the compartment may challenge suppression forces, normal suppression tactics may not be able to be used. Private property to the north may be at risk because of hazardous fuel types.

### **Additional Compartment Information:**

A recent meeting with Michigan Department of Corrections has provided some pictures from the Tahquamenon Prison Camp era. PRD has suggested adding an interpretive sign in the vicinity of the CCC Camp/Prison Camp site.

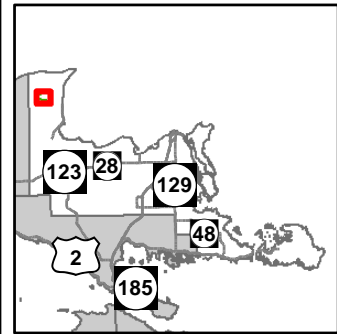
### **The following reports from the Inventory are attached:**

- 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:**

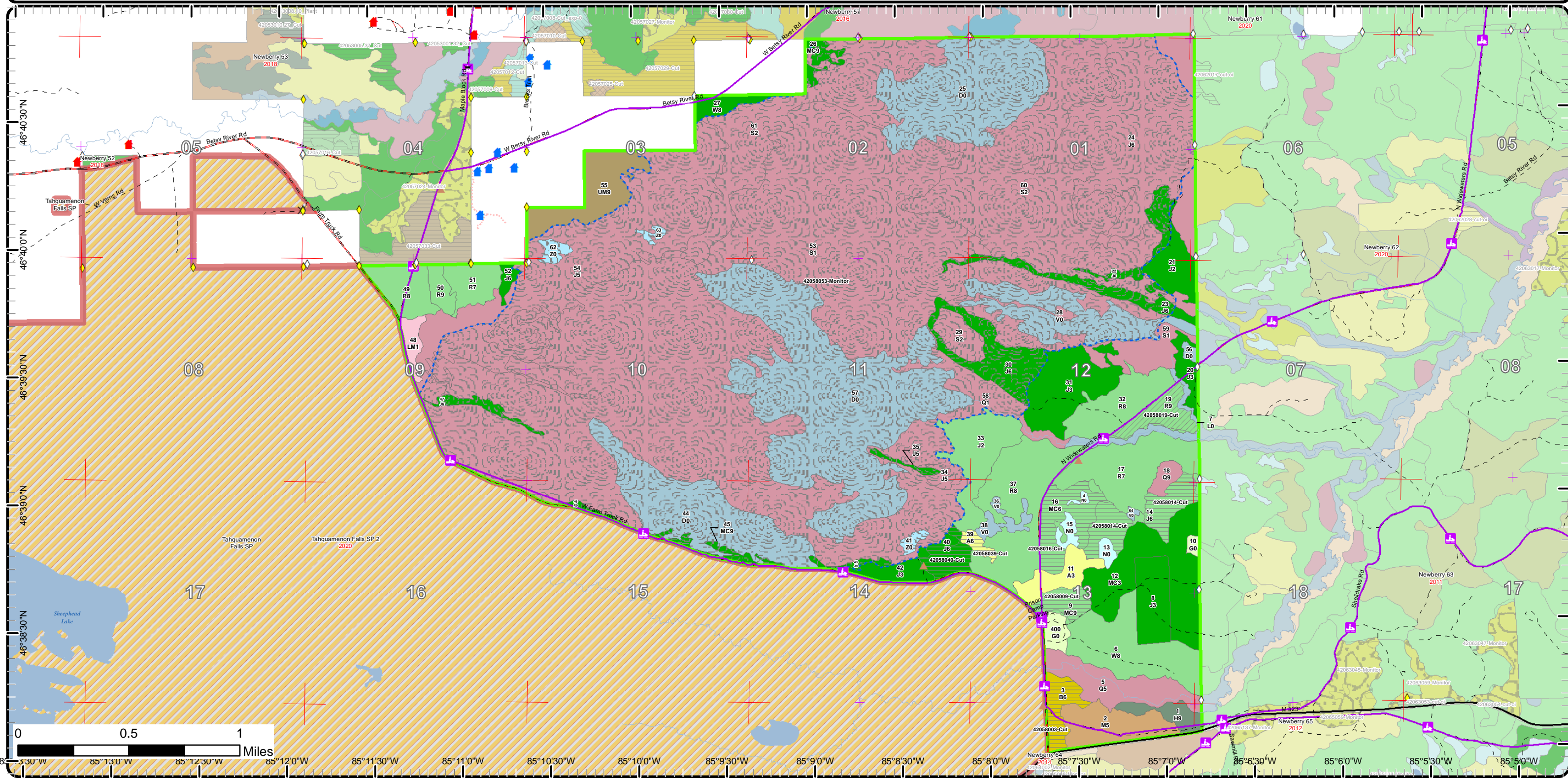
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map



Compartment: 58  
 T49N, R07W, Sec. 1-3, 9-16, 24  
 County: Chippewa  
 Unit: Newberry  
 Mgmt Area: Whitefish Vermillion Point  
 YOE: 2019  
 Acres: 4853.5 GIS Calculated  
 Examiner: Amy Douglass  
 Map Revised: 12/11/2017  
 Map Phase: Post-Review

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>◆ Survey Grade GPS Corners</li> <li>◇ Field Grade GPS Corners</li> <li>--- Counties</li> <li>▲ Berms</li> <li>⚡ Bridge</li> <li>🏠 Cabin</li> <li>🏠 House</li> <li>🛷 Snowmobile Trails</li> <li>— Designated Snowmobile Trails</li> <li>— Paved Roads</li> </ul> | <ul style="list-style-type: none"> <li>— County Gravel Roads</li> <li>— Gravel Roads</li> <li>— County Poor Dirt Roads</li> <li>— Poor Dirt Roads</li> <li>— Closed</li> <li>— Streams</li> <li>— Lakes and Rivers All</li> <li>— Compartment Boundary</li> <li>— Treatments with Site Conditions</li> <li>— Clearcut (w/Reserves)</li> <li>— Thinning (Crown, Low, Systematic)</li> <li>— Monitoring</li> <li>— 411 - Northern Hardwood</li> <li>— 413 - Aspen</li> <li>— 419 - Mixed Upland Deciduous</li> </ul> | <ul style="list-style-type: none"> <li>421 - Planted Pines</li> <li>422 - Natural Pines</li> <li>423 - Other Upland Conifers</li> <li>430 - Upland Mixed Forest</li> <li>612 - Lowland Coniferous Forest</li> <li>613 - Lowland Mixed Forest</li> <li>310 - Herbaceous Openland</li> <li>500 - Water</li> <li>622 - Lowland Shrub</li> <li>623 - Emergent Wetland</li> <li>Lakes</li> </ul> |
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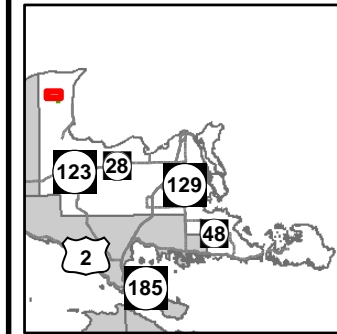


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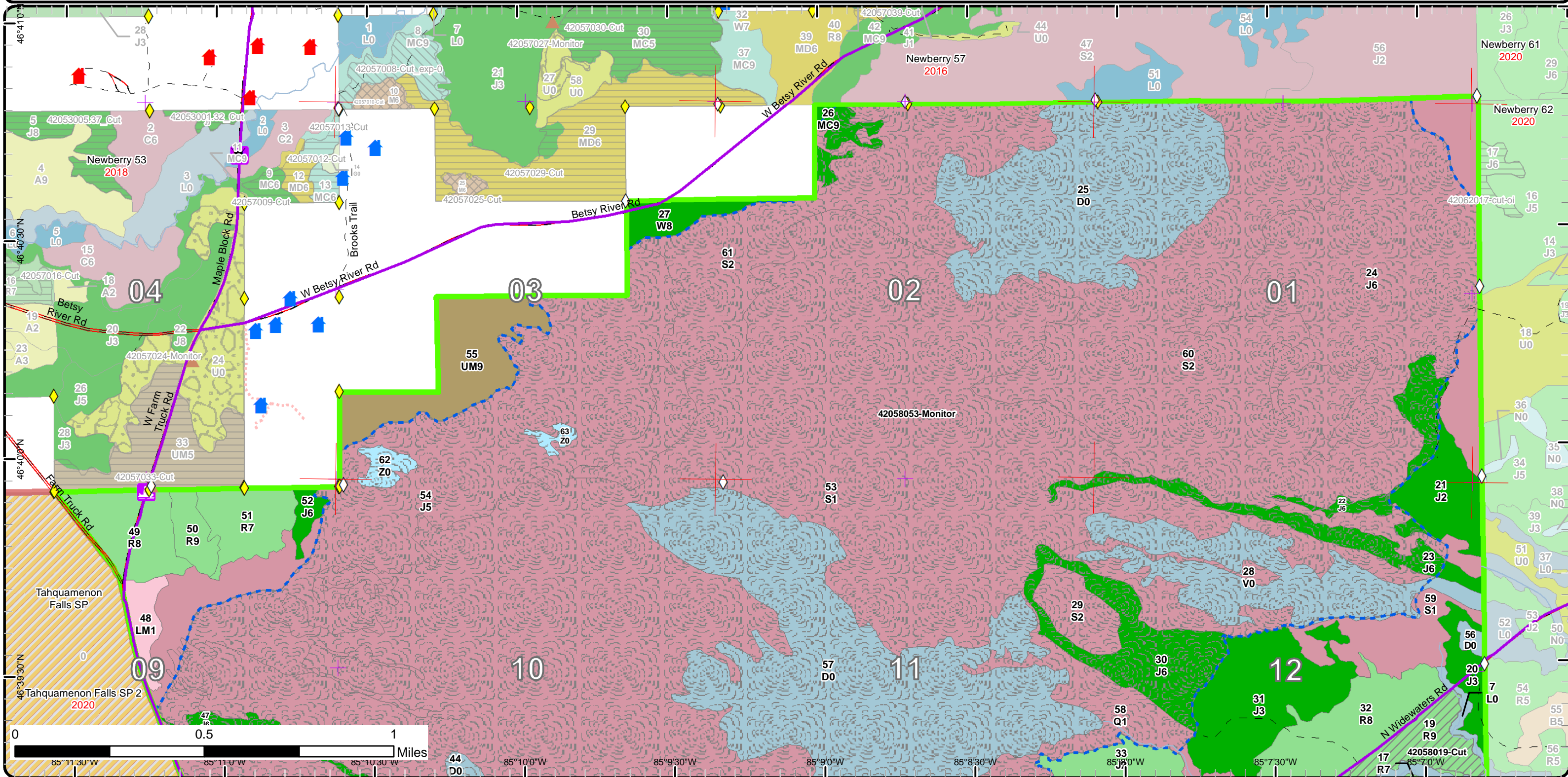
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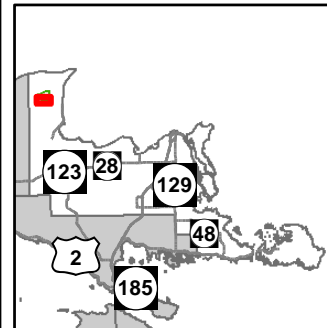


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- 612 - Lowland Coniferous Forest
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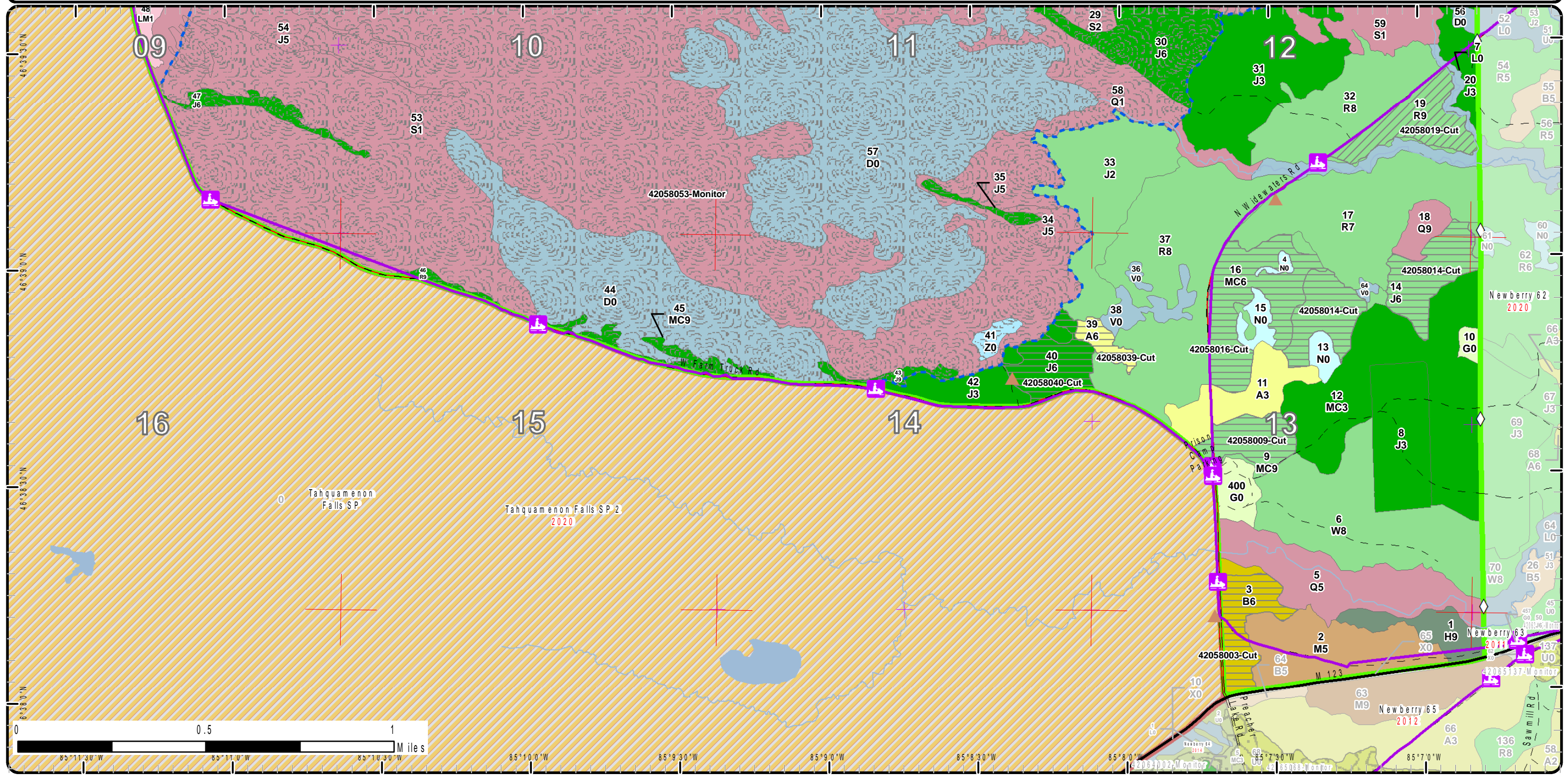


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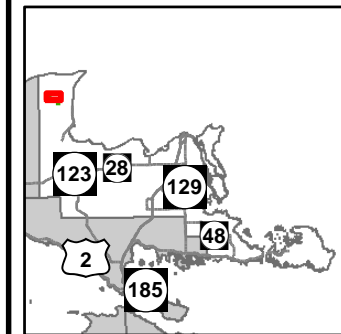


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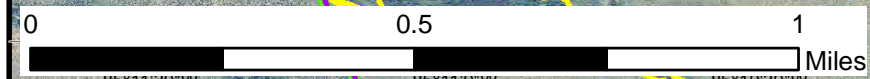
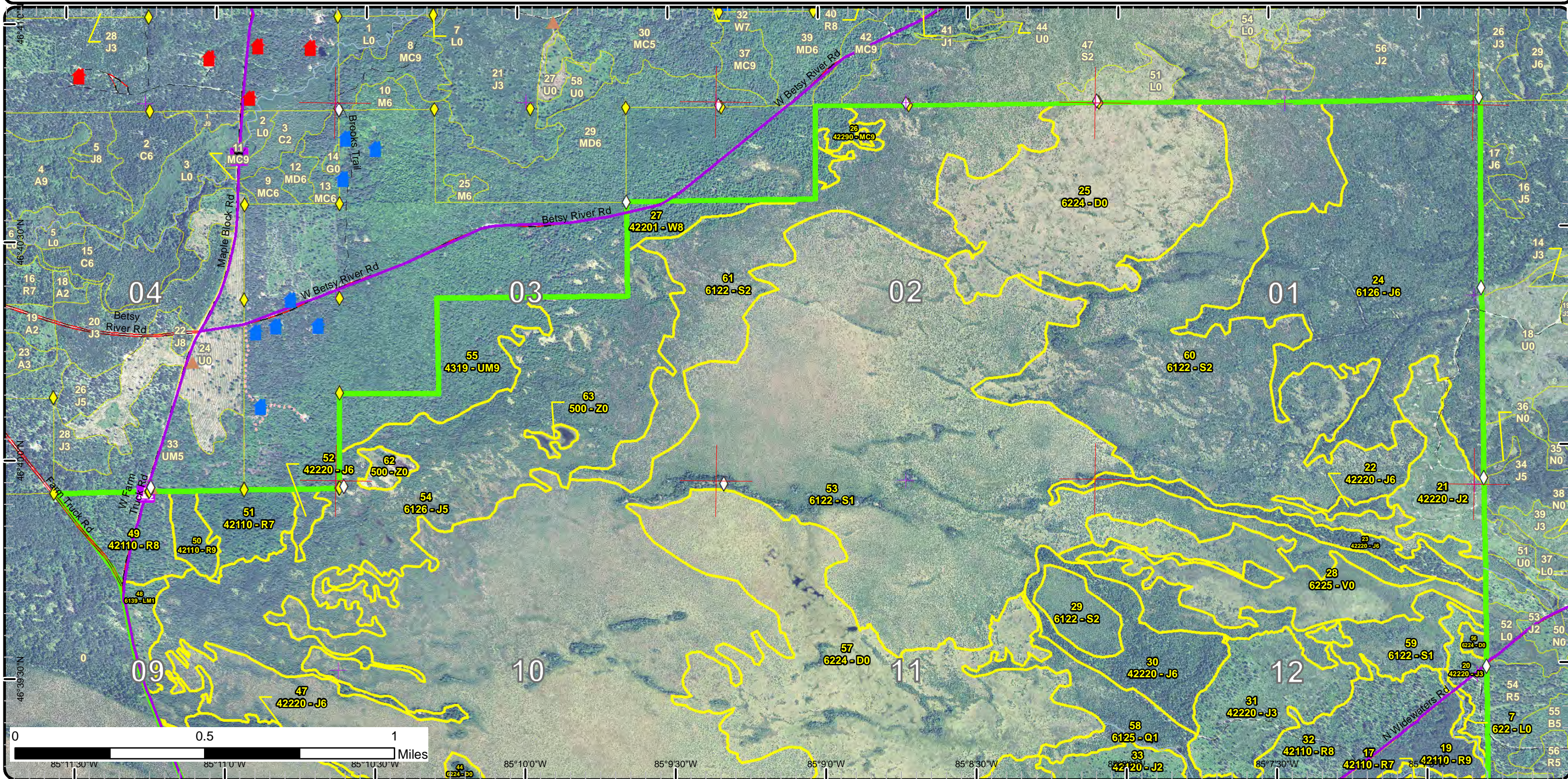


# Stand Boundary Map

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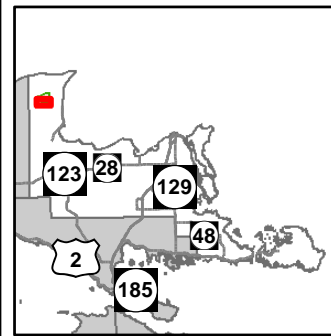
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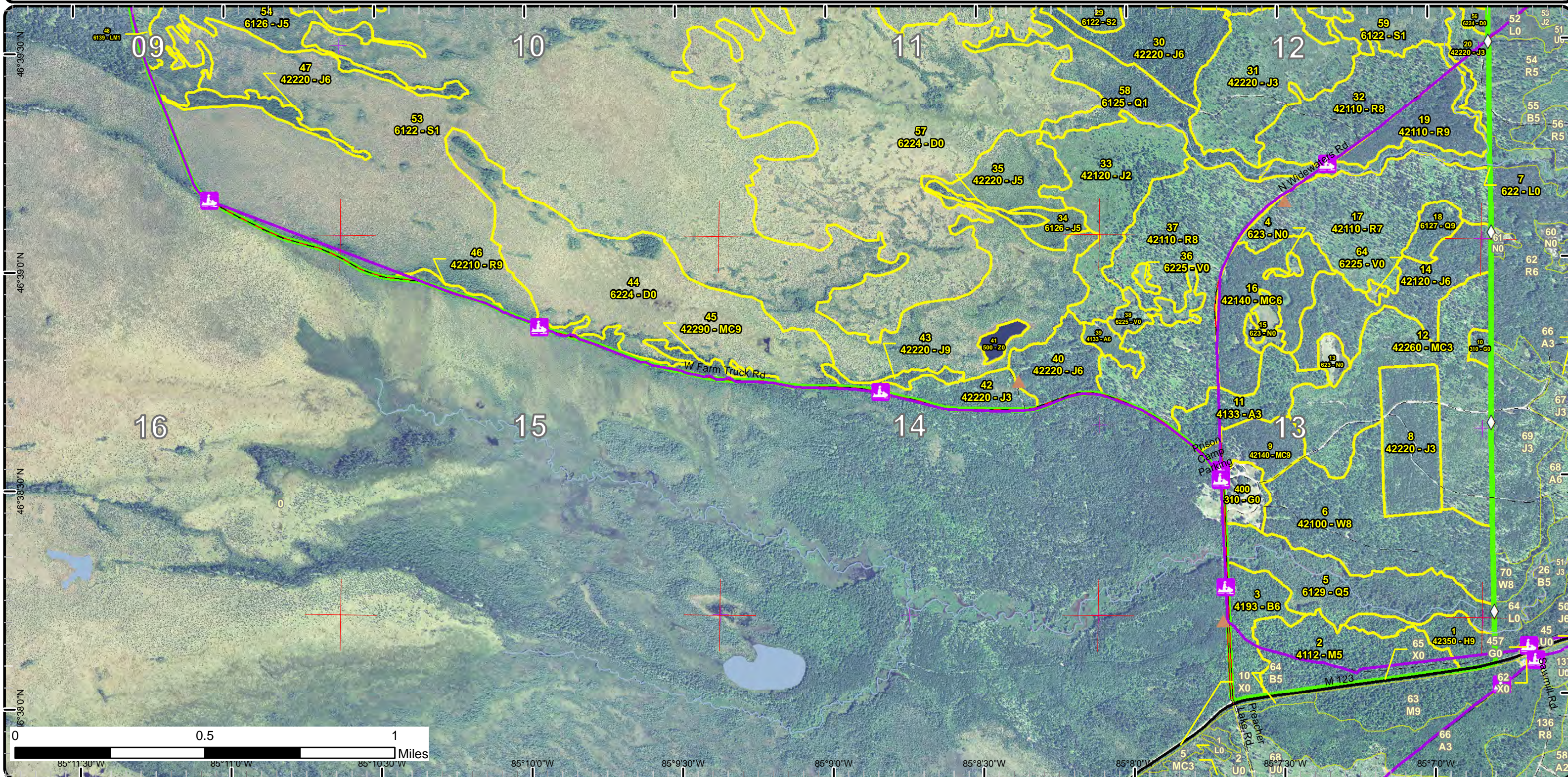
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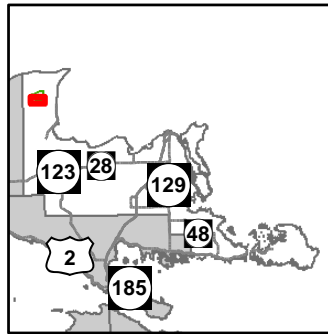




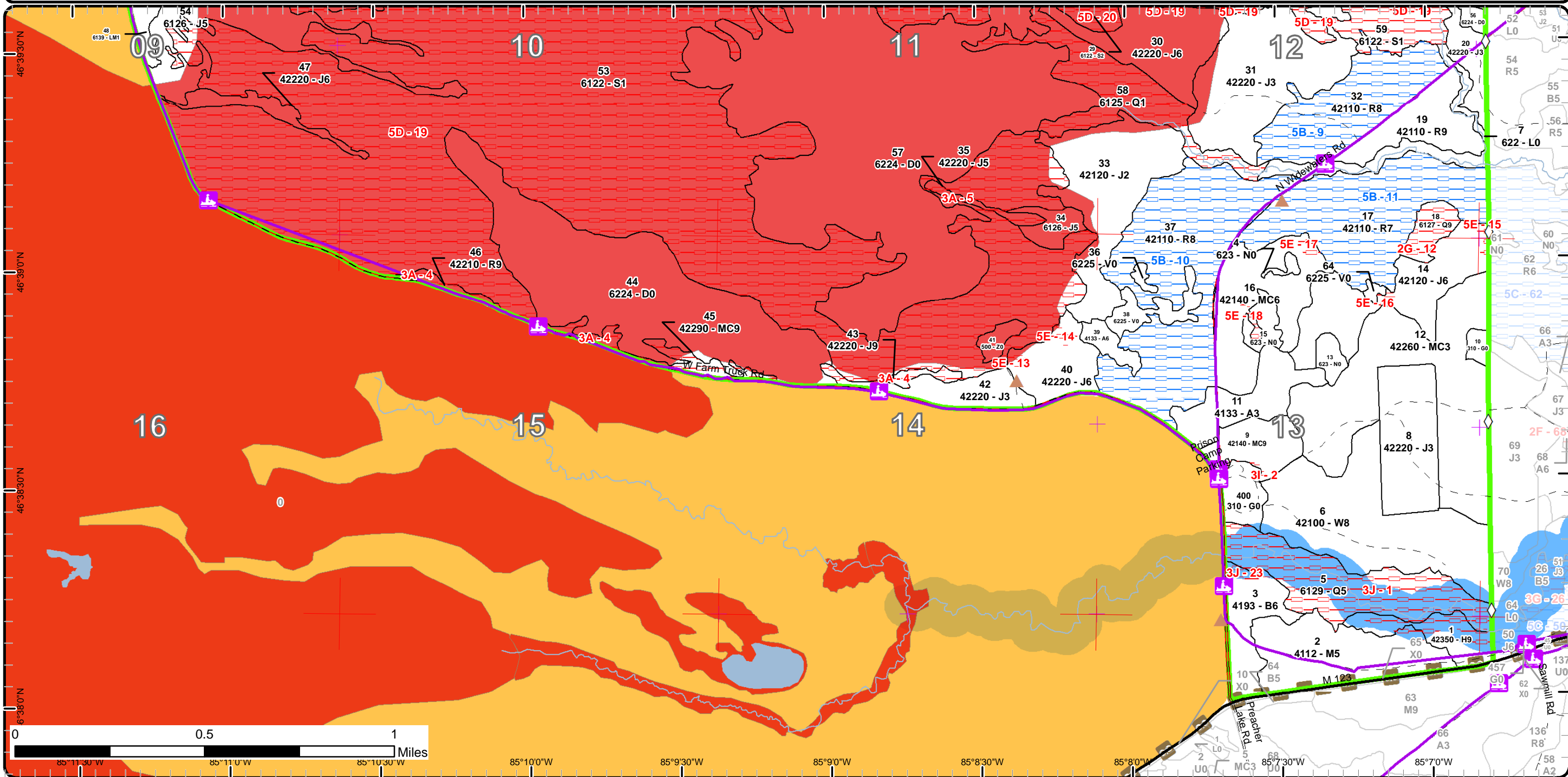


# Special Conservation Areas & Site Conditions Map

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- Streams
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3I: Historical / archeological (add locked comments)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- State Heritage Routes-Scenic (MDOT Designation)
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer



# Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 58

Year of Entry 2019

Amy Douglass : Examiner



## 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	0	26	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	32
Bog	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
Hemlock	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	16
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Jack Pine	0	0	188	55	0	652	8	41	51	0	0	0	0	0	0	0	0	0	994
Lowland Conifers	0	0	0	0	0	0	0	45	64	0	0	0	0	0	0	0	0	0	108
Lowland Mixed Forest	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Spruce/Fir	0	0	0	0	0	0	0	2075	0	0	0	0	0	0	0	0	0	0	2075
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	96	0	0	0	0	12	0	11	0	0	0	0	0	0	0	0	119
Northern Hardwood	0	0	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	46
Paper Birch	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	24
Planted Mixed Pines	0	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	63
Red Pine	0	0	0	0	0	0	0	4	334	0	0	0	0	0	0	0	0	0	338
Treed Bog	712	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	712
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	56
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
White Pine	0	0	0	0	0	0	0	0	83	16	0	0	0	0	0	0	0	0	99
<b>Total</b>	<b>870</b>	<b>12</b>	<b>310</b>	<b>55</b>	<b>0</b>	<b>652</b>	<b>14</b>	<b>2201</b>	<b>642</b>	<b>83</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4852</b>



## Report 2 – Treatment Summary

**Newberry Mgt. Unit**  
**Year of Entry: 2019**

**Acres of Harvest**

**Compartment 58**  
**Total Compartment Acres: 4,854**

Commercial Harvest - 175  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	6	0	0	0	0	0	0	0	0	6
Jack Pine	65	0	0	0	0	0	0	0	0	65
Paper Birch	22	0	0	0	0	0	0	0	0	22
Planted Mixed Pines	59	0	0	0	0	0	0	0	0	59
Red Pine	0	0	0	0	0	24	0	0	0	24
<b>Total</b>	<b>151</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	175	0	0	0	0	3522	0	0	0	3698
Next Step	0	123	18	0	18	3522	169	3522	0	7372
<b>Total</b>	<b>175</b>	<b>123</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>3522</b>	<b>3691</b>	<b>3522</b>	<b>0</b>	<b>11070</b>



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	42058003-Cut	21.7	4193 - Birch, Aspen	Poletimber Well	62	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription Clearcut leaving red pine, hemlock and a component of white pine. Patch retention - includes 300' BMP corridor left along S. Branch Betsy River, as shown in treatment shape. Leave some aspen or birch in the red line.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Aspen, birch, maple, red pine, white pine, jack pine, balsam, spruce.  
Regen:

Other Snowmobile trail cuts through stand.  
Comment:

Proposed Start Date: 10/01/2018

9	42058009-Cut	17.7	42140 - Planted Mixed Pine	Sawtimber Well	79	141- 170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut all species. Retention will be near old Prison Camp/parking area, as shown on treatment map.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable Red pine with associated jack pine and aspen.  
Regen:

Other Follow harvest with trench and plant to red pine.  
Comment:

Proposed Start Date: 10/01/2018

14	42058014-Cut	44.1	42120 - Planted Jack Pine	Poletimber Well	79	111- 140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut all species. Retention pockets associated with bog pockets. Retention may divide harvest in half at pinchpoint. Retention possibilities shown on treatment layer.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Jack pine with associated red pine, white pine, aspen, birch, maple.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

16	42058016-Cut	41.0	42140 - Planted Mixed Pine	Poletimber Well	79	111- 140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut all species. Patch retention connecting some bog pockets (possibilities shown on treatment layer).

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Jack pine with red pine, white pine, aspen, birch and maple.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018



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
19	42058019-Cut	24.3	42110 - Planted Red Pine	Sawtimber Well	79	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

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

Prescription Thin, taking approximately 1/3 of total BA; cut all JP, mark RP where needed. Buffer drainages per BMP Guidelines.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

39	42058039-Cut	6.2	4133 - Aspen, Mixed Pine	Poletimber Well	55	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut with no retention due to small size. Leave a component of red pine and white pine. Leave trees bordering stand 38 (bog type).

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen with associated species: red maple, red pine, white pine, jack pine, white birch.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

40	42058040-Cut	20.4	42220 - Natural Jack Pine	Poletimber Well	66	Unspecified	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut all species except red pine. Retention can be left as buffers along low bog pockets. Leave a few large white pine within the stand for bear refuge trees. Leave some non-pine and white pine in the red line.

Specs:

Next Step

SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable

Jack pine and aspen with red pine, white pine, white birch and red maple.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

53	42058053-Monitor	3522.4	6122 - Black Spruce	Sapling Poor	60	Unspecified	Monitoring	Invasive Species	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Unproductive**

Prescription Monitor Prison Camp ERA for invasive species. Focus monitoring efforts on areas of heavy use (road and trail corridors).

Specs:

Next Step

Pesticide, Hand Application; Other, Other

Treatments:

Acceptable

Regen:

Other

Follow up with herbicide and/or hand pulling as needed.

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment Acreage Proposed: 3697.8**

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 58  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		2B	5B	5C	2G	3A	3I	3J	5D	5E		
33	33	0	0	Aspen											
99	99	0	0	Bog											
16	8	0	8	Hemlock							8				
14	14	0	0	Herbaceous Openland											
994	940	6	48	Jack Pine			6		43						5
108	0	0	108	Lowland Conifers				9			55	45			
12	12	0	0	Lowland Mixed Forest											
17	17	0	0	Lowland Shrub											
2075	0	0	2075	Lowland Spruce/Fir									2,075	0	
13	13	0	0	Marsh											
120	108	0	12	Natural Mixed Pines					12						
47	45	0	1	Northern Hardwood							1				
24	22	0	2	Paper Birch							2				
63	59	0	4	Planted Mixed Pines						1					3
337	26	308	3	Red Pine		308			3						
712	712	0	0	Treed Bog											
56	0	56	0	Upland Mixed Forest	56										
15	15	0	0	Water											
99	99	0	0	White Pine											
4,854	2,221	370	2,263	Total Forested Acres	56	308	6	9	58	1	66	2,120	8		
	46%	8%	47%	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	3J: Water quality / BMPs (stream, river, or lake)	64	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 58  
Year of Entry: 2019

2	<b>Unavailable</b>	<b>3I: Historical / archeological (add locked comments)</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer around old Prison Camp area.							
3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	21	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Part of Prison Camp Muskeg ERA. Steep ridges between road and bog.							
5	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	4	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 58  
Year of Entry: 2019

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	107	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	76	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet pocket of timber serves as retention for adjacent stands.							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible retention pocket.							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 58  
Year of Entry: 2019

14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible retention pocket.							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible retention pocket.							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible retention pocket.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible retention pocket.							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible retention pocket.							
19	Unavailable	5D: Unproductive Forest Land	2,099	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	5D: Unproductive Forest Land	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 58  
Year of Entry: 2019

21	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Falls within the Prison Camp Muskeg ERA.							
22	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Falls within the Prison Camp Muskeg.							
23	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 300' buffer requested by FD for stream BMP's. Will also serve as long-term retention for stand 3 harvest.							
55	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	56	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – 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
<b>Comments</b>				



## Report 6 – 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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42350 - Upland Hemlock	Sawtimber Well	16.5	100	141-170	Large diameter Hemlock 8-20" dbhs. Thick hemlock groves with patches of associated timber. Widely scattered large diameter white pine and white spruce. Drainage on eastern edge of stand.
2	4112 - Maple, Beech, Cherry Association	Poletimber Medium	46.5	75	81-110	Fair to poor quality red maple poletimber. Beech, hemlock and sugar maple component. Occasional yellow birch and spruce. BBD prevalent. What beech is left is dying out. Many maple with dead tops.
3	4193 - Birch, Aspen	Poletimber Well	23.9	62	51-80	White birch, red maple, aspen with associated softwood. Birch is dying out. Patches of submerchantable balsam. Red pine planted along Wide Waters Road.
5	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	54.5	79	51-80	OPIC - FMD: cedar, b spruce, fir poletimber. Scattered w pine component. Fir sapling understory with heavier tag alder in areas. Adjacent to S Branch Betsy River.
6	42100 - Planted White Pine	Sawtimber Medium	83.1	79	81-110	Some WP with decent form, some with limbs/crooks. Old dump at the end of the road. OPIC - FMD: w pine, r pine mix of poletimber/sawtimber (planted in spring 1938), residual trees after the Out of Bounds timber sale #007-99, completed 11/02. Areas where the cut was heavier show good aspen and r maple sprouting.
8	42220 - Natural Jack Pine	Sapling Well	37.9	27	Immature	Just coming into pole size. OPIC - FMD: J pine saplings - well stocked. Widely scattered, small pockets of aspen regen. Prison Camp J Pine sale #005-89, completed 8/90. Scarified 10/90 FTP 42-259.
9	42140 - Planted Mixed Pine	Sawtimber Well	18.8	79	141-170	Mixed pine stand - heaviest to j pine with r pine sawtimber/poletimber widely intermixed. W pine also present. Aspen component with aspen lying in pockets, associated r maple. Planted spring 1938.
11	4133 - Aspen, Mixed Pine	Sapling Well	26.3	14	1-50	Nice RP/JP regen in old road. Occasional oak. OPIC - FMD: Aspen regen, poor in areas heavier to pine that was left as residual. Scattered r maple regen from stump sprouts. Residual r and w pine. Out of Bounds sale #007-99, completed 11/02. FTP# 42-502 2000 2-0 r pine planted 05/07 in closed access road. Regen survey 5/30/08 = 950 t/ac (45 nat'l, 500 planted).
12	42260 - Natural Pine, Mixed Deciduous	Sapling Well	96.4	14	Immature	Out of Bounds sale #007-99, completed 11/02 FTP #501, scarification completed 10/02. Variable regen and residual. OPIC - FMD: overall good j pine regen 1-2', though pockets of poor regen occur where the initial stand was heavier to aspen/r maple - these areas show the expected aspen regen and r maple stump sprouting. Fairly heavy windthrow occurrence on residual r and w pine, especially in NE corner of stand.
14	42120 - Planted Jack Pine	Poletimber Well	46.6	79	111-140	JP is dying out. Upland ridges with low pockets. Lots of bog inclusions. OPIC - FMD: Well formed j pine. W1/2 of stand is slightly older and holds larger diams. E end of stand has a heavy small diam w pine poletimber component. Planted spring 1938. Scattered b spruce inclusions in and along small lowland/bog (leatherleaf) openings. Rolling hills occur throughout stand. Pockets of aspen are also present.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	42140 - Planted Mixed Pine	Poletimber Well	43.8	79	111-140	Upland ridges with several bog inclusions. Occasional WB.OPIC - FMD: old j pine mixed with r pine sawtimber/poletimber. Planted spring 1938. Associated b spruce in pockets. W birch, aspen, w pine component.
17	42110 - Planted Red Pine	Sawtimber Poor	76.3	79	51-80	Regen variable throughout the stand. Mice aspen, JP and RP regen with occasional RM, oak and WP. RP regen size varies from <5' to 20' tall.OPIC - FMD: R pine sawtimber stand. Stand was harvested under Dirty Bird Jack Pine sale #013-99, completed 11/03. FTP 42-506: scarification completed 9/02. Regen survey 5/06 showed 592 tr/ac. J pine, aspen was removed, r pine, w pine left as residual. Good j pine regen in more open areas, poor to little underneath r pine canopy. There is however good to excellent r pine seedling establishment (well stocked) inside the r pine canopy. Scattered areas of aspen/r maple regen.
18	6127 - Lowland Pine	Sawtimber Well	9.2	79	51-80	Transition ground. OPIC - FMD: Scattered b spruce seedling/saplings. Leatherleaf and winterberry openings in N and E of the stand.
19	42110 - Planted Red Pine	Sawtimber Well	25.6	79	171-200	Well formed r pine poletimber/sawtimber with a j pine component. Areas of high stocked j pine throughout.
20	42220 - Natural Jack Pine	Sapling Well	14.5	16	Immature	Jack pine regen 10'-20' tall. Scattered residual red pine. Most red pine follows the creek corridor. Three Piece Pine sale #014-99; complete 11/13/03. Scarification completed summer 2000. FTP C42-507.
21	42220 - Natural Jack Pine	Sapling Medium	45.3	13	Immature	Patchy regeneration. Overall good though. ~10' - 20' tall. Stand cut as No Name Jack Pine #015-99, completed 11/02. Slow to regenerate - areas of low bog inclusions where black spruce is/was predominate. FTP 42-496: burned 9/04, seeded 1/05. Regeneration survey 5/29/08 = 498 t/ac (436J, 62R).
22	42220 - Natural Jack Pine	Poletimber Well	5.3	67	Unspecified	Stand lies on a long, narrow ridge. Good jack pine poletimber. Stand is interspersed with black spruce and bog swales. Hold for diversity/wildlife corridor - heavy wildlife use between the low ground and the recent cut to the NW.
23	42220 - Natural Jack Pine	Poletimber Well	27.7	42	Unspecified	Jack pine poletimber on a long, narrow ridge. Associated red pine, aspen and white birch saplings. Appears to have been cut 30+/- yrs ago.
24	6126 - Lowland Jack Pine	Poletimber Well	262.3	42	Unspecified	Jack pine regen throughout the stand, better growth on the higher ridges. Stand is overall just moving into the poletimber size class. Associated black spruce saplings. Lowland/bog openings scattered throughout with lowland j pine growing in them. Cut approx 30 yrs ago. Old roads evident on photos, but are mainly grown in. JP ~7" dbh at best on upland ridges.
26	42290 - Natural Mixed Pine	Sawtimber Well	11.4	85	81-110	White pine with associated red pine, jack pine, black spruce. Very low ground - dry bog- labr tea/leatherleaf/winterberry. Jack pine experiencing mortality though it is a low component of the stand. Interspersed bog openings.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	15.7	82	81-110	Occasional hemlock and oak. Scattered low bog pockets. Graduates into bog complex.
29	6122 - Black Spruce	Sapling Medium	21.2	60	Unspecified	Stunted black spruce sapling and small diam poletimber. Associated low quality jack pine saplings and poletimber especially at edges of higher ground. Leather leaf bog.
30	42220 - Natural Jack Pine	Poletimber Well	51.9	42	Unspecified	Nice jack pine poles. Upland ridges with low swales. Red pine poles mixed in on eastern edge. Cut completed 5/75.
31	42220 - Natural Jack Pine	Sapling Well	68.2	14	Immature	Jack pine regen (10' - 20' tall) interspersed with leatherleaf/winterberry low openings. Scattered red pine regen - both within stand and along road. Widely scattered red pine residual. Cut as part of Three Piece Pine sale #014-99, completed 11/03. FTP 42-507: scarification completed in S. part of stand (Unit 3 - south of road) 10/02. N. part of stand (Unit 1) never scarified. Some trenching fall, 2006 and areas hand planted 2007 with regen check 5/30/2008 = 671 t/ac (457 nat'l, 214 planted J).
32	42110 - Planted Red Pine	Sawtimber Medium	51.5	79	81-110	Red pine overstory over jack pine seedling/saplings with red pine seedlings/saplings. Pockets of aspen regen. Regeneration is variable - better in more open areas, but overall good regen exists under remaining residual red pine. Cut as part of Three Piece Pine sale #014-99, cut complete 11/03. Scarification completed summer 2000.
33	42120 - Planted Jack Pine	Sapling Medium	60.1	10	Immature	Jack pine ~ 6' - 10' tall. Red pine regen ~ 4' - 5' tall. Areas of residual red pine and white pine. Some aspen regen on hill tops. Small black spruce component. Part of Three Piece Pine sale (Unit 4) #014-99, completed 11/03. FTP C42-507: trenched 10/06. Hand planted with 2-0 jack pine in 5/07. Regen survey 5/30/08 = 433 t/ac (28 nat'l, 405 planted); very wet.
34	6126 - Lowland Jack Pine	Poletimber Medium	8.2	54	Unspecified	Low ground jack pine and black spruce. 4-6" dbhs 1-2 sticks.
35	42220 - Natural Jack Pine	Poletimber Medium	4.1	70	Unspecified	OPIC - FMD: mature jack pine. Stand is on a long, narrow ridge adjacent to expansive bog (ERA muskeg). Black spruce sapling understory, widely scattered red pine saplings. Access is a major problem and highly questionable for cost/benefit, given the small acreage and wet ground.
37	42110 - Planted Red Pine	Sawtimber Medium	106.6	79	51-80	Variable residual BA. RP/WP over aspen sprouts. Aspen regen is spotty. Some occasional jack pine regen. Stand is widely interspersed with small to mid sized low ground/leatherleaf openings, winterberry at their edges. Stand harvested as "Winterberry Pine", sale #003-09-01. Complete 10/05/09. Parts were scarified in 2010 by Holli (FTP C42-741). Regen 2013: 91 TPA. Fail. Clumpy, patchy, very few.
39	4133 - Aspen, Mixed Pine	Poletimber Well	6.2	55	Unspecified	Smaller diameter aspen with red pine poles within. White pine in understory. Some larger dbh red pine and white pine present.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42220 - Natural Jack Pine	Poletimber Well	23.4	66	Unspecified	Aspen clones within jack pine stand. Occasional red pine and white pine. Multiple lowland leatherleaf pockets and several vernal ponds, especially along east side of the stand. Bermed road thru stand, accessing stand 33.
42	42220 - Natural Jack Pine	Sapling Well	17.5	27	Immature	Primarily jack pine with areas of aspen regeneration. Occasional red pine. Some small bogs within. Goose Marsh Jack Pine sale #004-89. Scarified under FTP C42-244 in 1990.
43	42220 - Natural Jack Pine	Sawtimber Well	5.8	62	Unspecified	Ridge between road and bog. Occasional white birch.
45	42290 - Natural Mixed Pine	Sawtimber Well	12.0	62	111-140	Steep ridge between road and bog. Much steeper than stand 43 to the east. Open sand bank along road has small pole size JP growing on it. Occasional white birch.
46	42210 - Natural Red Pine	Sawtimber Well	3.5	65	51-80	Very narrow road side ridge, drops immediately off into the D0 type to the north. Red pine white pine sawtimber/poletimber. Associated upland black spruce sapling understory, scattered jack pine. Nice buffer between road and bog.
47	42220 - Natural Jack Pine	Poletimber Well	10.0	46	Unspecified	Nice jack pine pole stand with larger, remnant red and white pine. Stand is on a narrow, long ridge, part of it appears to have been cut in the past, records show a possible cut in 1971.
48	6139 - Mixed Lowland Forest	Sapling Poor	12.4	7	Immature	Harvested in 2009 as part of Mystery Well Pine #001-09-01. Completed 10/6/09.
49	42110 - Planted Red Pine	Sawtimber Medium	34.7	79	81-110	Large red pine with white pine logs (WP a bit smaller than RP) and white pine pulp. Variable densities of aspen regen from last cut. Stand harvested via selection as "Mystery Well Pine", sale #001-09-01. Complete 10/05/09. Regen 2013: Spruce 1461 TPA. Fully stocked Flooded. No real red pine regen. Some aspen in north.
50	42110 - Planted Red Pine	Sawtimber Well	12.2	79	81-110	Residual red pine and white pine sawtimber/poletimber left after previous cut. Weak aspen regeneration in understory. Part of Farm Truck Aspen timber sale #040-99; cut completed 1/02.
51	42110 - Planted Red Pine	Sawtimber Poor	26.3	79	1-50	Aspen saps, fully stocked, with red pine and white pine overstory. Pine is patchy with variable BA. Aspen 2" in areas without too much overstory. Red pine and white pine poletimber/sawtimber scattered throughout, some pockets of moderately stocked. Widely scattered small grass/low inclusions. Part of Farm Truck Aspen timber sale #040-99; cut completed 1/02. Nice red pine regen in the old road.
52	42220 - Natural Jack Pine	Poletimber Well	6.0	60	Unspecified	Well formed jack pine poletimber, small dbhs. Associated upland black spruce poletimber and red maple saplings. Scattered small grass/low ground inclusions edged with winterberry.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	6122 - Black Spruce	Sapling Poor	1,461.2	60	Unspecified	Expansive treed bog. Black spruce, jack pine and tamarack. Trees are poorly formed and stunted due to the extreme site conditions. Areas of ponded water and WIDELY scattered high ground ridges/islands of mature j pine, r pine, and w pine. Extensive leatherleaf, sphagnum, bog laurel. Muskeg ERA.
54	6126 - Lowland Jack Pine	Poletimber Medium	299.8	46	Unspecified	Jack pine small pole timber. Heavy associated black spruce saps and poles. White pine is scattered in all sizes. Stand transitions from low ground with slight ridges to bog areas. Frequent interspersed bog openings/water. Stand was cut approx. 1971.
55	4319 - Mixed Upland Forest	Sawtimber Well	56.2	80	111-140	Very mixed stand. Mature aspen, low quality red maple and scattered jack pine, white pine. Inclusions of well stocked hemlock. Areas heavily stocked with a sapling understory of red maple, hemlock, fir, and scattered white birch and beech. Access is an issue with private lands and expansive swamp/bog.
58	6125 - Lowland Black Spruce, Jack Pine	Sapling Poor	44.8	60	Unspecified	Treed bog
59	6122 - Black Spruce	Sapling Poor	63.7	60	Unspecified	Expansive treed bog. Black spruce, jack pine and tamarack. Trees are poorly formed and stunted due to the extreme site conditions. Areas of ponded water and WIDELY scattered high ground ridges/islands of mature j pine, r pine, and w pine. Extensive leatherleaf, sphagnum, bog laurel. Muskeg ERA.
60	6122 - Black Spruce	Sapling Medium	349.9	60	Unspecified	Expansive treed bog. Black spruce, jack pine and tamarack. Trees are poorly formed and stunted due to the extreme site conditions. Areas of ponded water and WIDELY scattered high ground ridges/islands of mature j pine, r pine, and w pine. Extensive leatherleaf, sphagnum, bog laurel. Muskeg ERA.
61	6122 - Black Spruce	Sapling Medium	179.1	60	Unspecified	Expansive treed bog. Black spruce and tamarack. Trees are poorly formed and stunted due to the extreme site conditions. Areas of ponded water and WIDELY scattered high ground ridges/islands of mature j pine, r pine, and w pine. Extensive leatherleaf, sphagnum, bog laurel. Muskeg ERA.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	623 - Emergent Wetland	1.6	No	Bog/wetland inclusion. Seasonally ponded.
7	622 - Lowland Shrub	17.1	No	Drainage.
10	310 - Herbaceous Openland	3.1		Burned in 2016 Prison Camp Fire. All JP regen is dead from fire. Scattered live WP/RP residual logs, especially near north end.
13	623 - Emergent Wetland	4.8	No	OPIC - FMD: open leatherleaf bog ringed with winterberry. Seasonally ponded
15	623 - Emergent Wetland	6.2	No	OPIC - FMD: open leatherleaf/sedge bog, seasonally ponded. Edged by winterberry. N. "finger" of stand more grown into winterberry.
25	6224 - Treed Bog	176.6	No	Expansive treed bog. Black spruce and tamarack. Trees are poorly formed and stunted due to the extreme site conditions. Areas of ponded water and WIDELY scattered high ground ridges/islands of mature j pine, r pine, and w pine. Extensive leatherleaf, sphagnum, bog laurel. Muskeg ERA.
28	6225 - Bog	85.7	No	Expansive treed bog. Black spruce and tamarack. Trees are poorly formed and stunted due to the extreme site conditions. Areas of ponded water and WIDELY scattered high ground ridges/islands of mature j pine, r pine, and w pine. Extensive leatherleaf, sphagnum, bog laurel. Muskeg ERA.
36	6225 - Bog	1.7	No	Open leatherleaf bog ringed by winterberry. Seasonally ponded.
38	6225 - Bog	10.3	No	Several leatherleaf openings ringed by winterberry stringed together, with low ridges between. Seasonally ponded.
41	500 - Water	4.5	No	
44	6224 - Treed Bog	138.1	No	Expansive treed bog. Black spruce and tamarack. Trees are poorly formed and stunted due to the extreme site conditions. Areas of ponded water and WIDELY scattered high ground ridges/islands of mature j pine, r pine, and w pine. Extensive leatherleaf, sphagnum, bog laurel. Muskeg ERA
56	6224 - Treed Bog	3.0	No	
57	6224 - Treed Bog	394.0	No	Expansive treed bog. Black spruce and tamarack. Trees are poorly formed and stunted due to the extreme site conditions. Areas of ponded water and WIDELY scattered high ground ridges/islands of mature j pine, r pine, and w pine. Extensive leatherleaf, sphagnum, bog laurel. Muskeg ERA.
62	500 - Water	6.9	No	Very wet area within bog type; usually holds water.
63	500 - Water	3.3	No	Small water holes in bog type.



Stand	Cover Type	Acres	Managed Site	General Comments:
64	6225 - Bog	1.4	No	
400	310 - Herbaceous Openland	11.1	No	Old Prison Camp area, open grass/bracken. Some cement pads still present. Occasional apple trees. Scattered large open grown w pine clump and aspen clump. Serves as a County turn-around/winter parking for area. Used heavily by hunters, ORVs as camping/staging area.