# Compartment Review Presentation

**Shingleton Forest Management Unit**

**Compartment 41103**
**Entry Year 2018**
**Acreage: 3,426**
**County Alger**
**Management Area: Deer Park**

**Revision Date:** 2016-08-31

**Stand Examiner:** Mario Molin

### Legal Description:

T49N, R13W, Secs. 12-14, 23-26, 35, 36

### Identified Planning Goals:

Sustainable ecosystem management, and protection of fisheries resources in the Sucker River drainage.

### Soil and topography:

Kalkaska association of soils: very deep, nearly level to very hilly, somewhat excessively drained soils; consisting mainly of Kalkaska and Garlic Sands with Carbondale soils in the depressions and drainages. The landform is a pitted outwash plain.

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

There are a few private parcels, though most of the surrounding land is State owned on the west, and commercial forestland on the east.

### Unique Natural Features:

None

### Archeological, Historical, and Cultural Features:

None

### Special Management Designations or Considerations:

The Barfield Lakes ERA is adjacent to the compartment in Luce County.

### Watershed and Fisheries Considerations:

Fisheries Values: Excellent
The Sucker River is located along the western boundary of this compartment. Native Brook Trout are present and the river receives strong runs of steelhead and Coho Salmon. The Sucker River is recognized as a High Priority trout stream which carries a 300 ft buffer. Any treatments in stands adjacent to the river need to adhere to the 300 ft buffer. Porter Creek located on the southern end of this compartment is not recognized as a coldwater stream. Standard BMP's should be applied in stands with prescribed treatments near the creek.

### Wildlife Habitat Considerations:

This compartment is bounded on the west by the Sucker River and on the east by the Luce County line. The first surveyors (circa 1850) noted a forest that contained an upland mixture of hemlock, white pine, red maple, yellow birch, and balsam fir. Species that occurred in lesser amounts included white birch, sugar maple and beech. Surveyors also mentioned the banks of the Sucker River in this are would provide for good mill sites. Hot fires occurring after the initial wave of logging and reforestation efforts have substantially altered the vegetative community in this area. Currently the landscape within this compartment is dominated by jack pine plantation and large grassy openings that are filling in with aspen, white pine, and cherry. The wildlife habitat management objectives for this compartment include providing habitat for shrubland species, promoting species and structural diversity within the hardwood community, and maintaining closed canopy forest along the sucker river. This compartment lies within the Deer Park Management Area and the featured species within this MA are American marten, Kirtland's warbler, piping plover, and red crossbill.

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

Surface sediments consist of lacustrine (lake) sand and gravel and minor coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau and Munising Formations subcrop below the glacial drift. The Trempealeau could be used for stone and the Munising was used as a building stone in the past. A gravel pit is located in Section 27 and there should be potential. There is no commercial oil and gas production in the UP.

### Vehicle Access:

Most of the compartment is accessible by vehicle on sandy two-track roads.

**Survey Needs:**

Stand 39

**Recreational Facilities and Opportunities:**

Although there are no DNR recreational facilities within the compartment, there are several places along the Sucker River that receive a lot of use as dispersed camping sites. Also, the snowmobile trail is adjacent to the northeast corner of the compartment.

**Fire Protection:**

Although the compartment is far from DNR offices, the area is easily accessed by fire protection vehicles.

**Additional Compartment Information:**

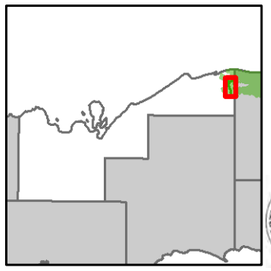
**The following reports from the Inventory are attached:**

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

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

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

# Cover Type & Treatments Map



N

Compartment: 103
T48N, R13W, Sec: 01, 02
T49N, R13W,
Sec: 13, 14, 23-26, 35, 36
County: Alger
Unit: Shingleton
Mgmt Area: Deer Park
YOE: 2018
Acres: 3,426 GIS Calculated
Examiner: Mario Molin
Map Revised: 12/6/2016
Map Phase: Post Review

- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Planting (tree species)
- Regeneration Survey
- Thinning (Crown, Low, Systematic)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
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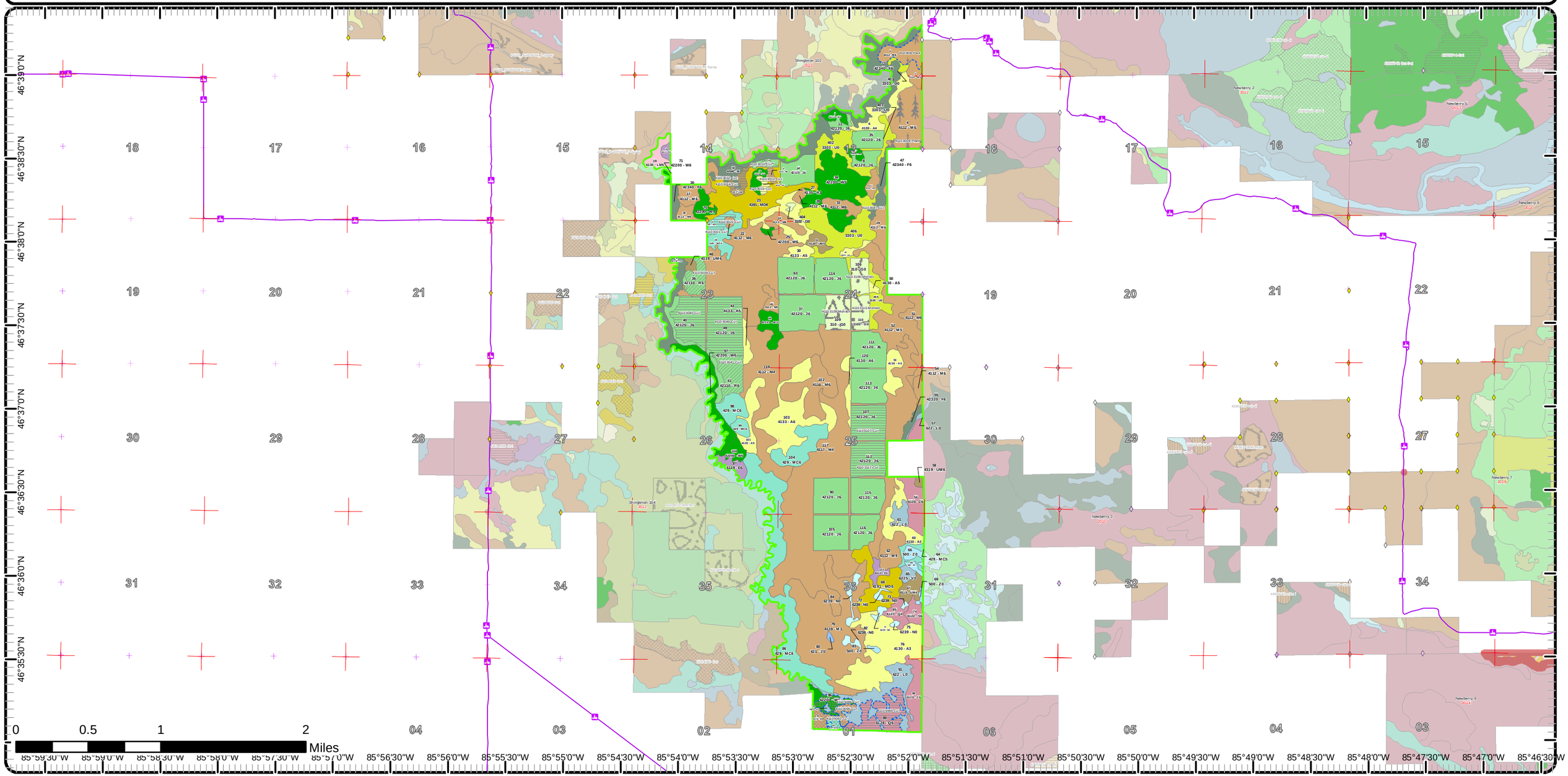
- 330 - Low Density Trees
- 500 - Water
- 621 - Floating Aquatic
- 622 - Lowland Shrub
- 623 - Emergent Wetland



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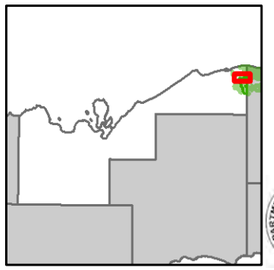

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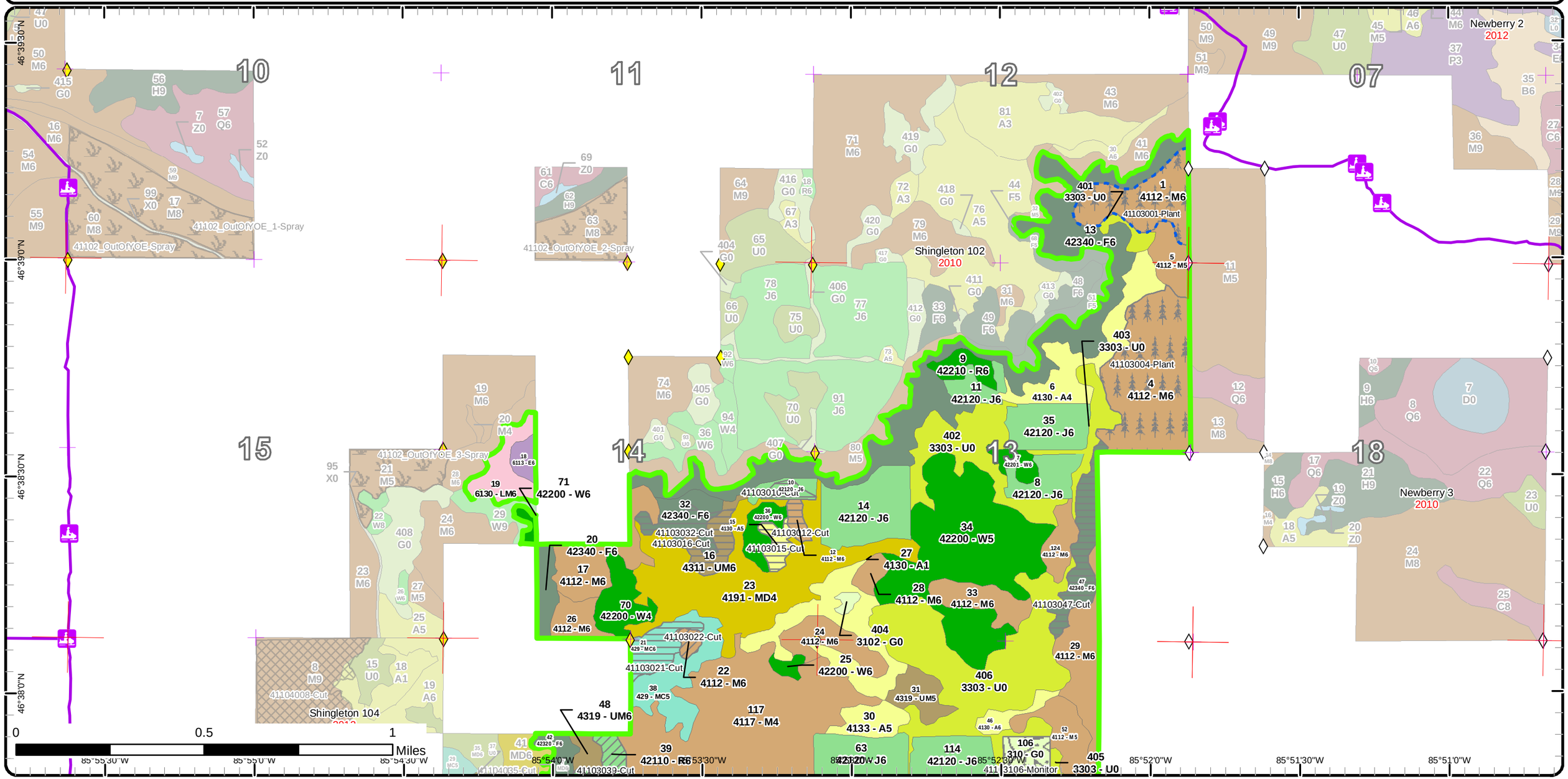

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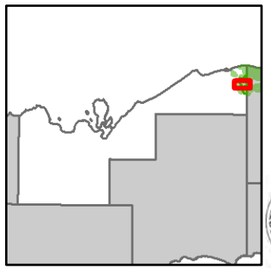

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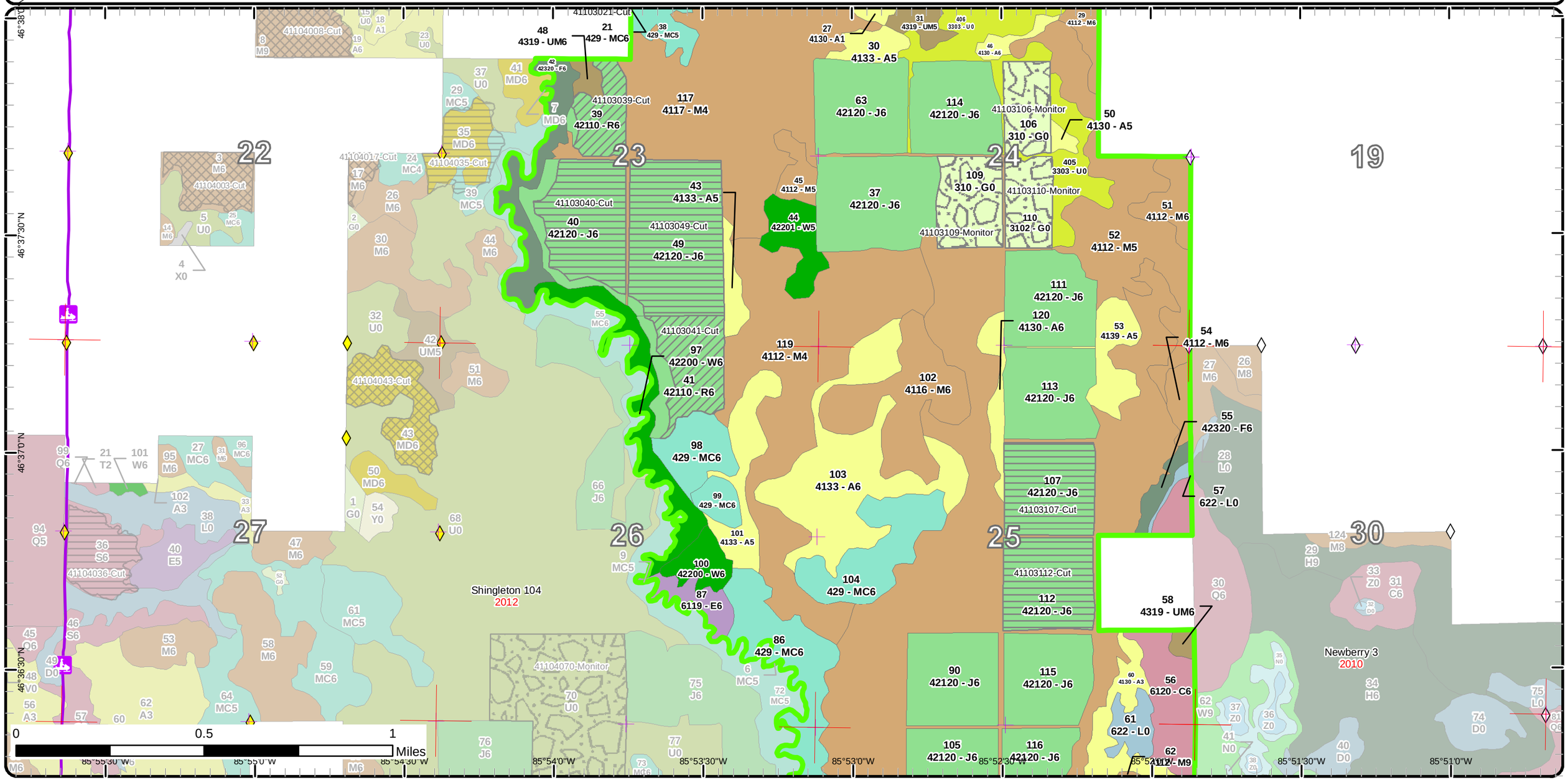

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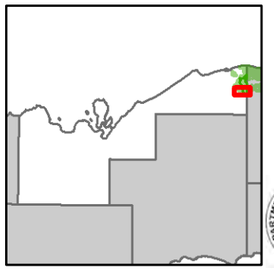

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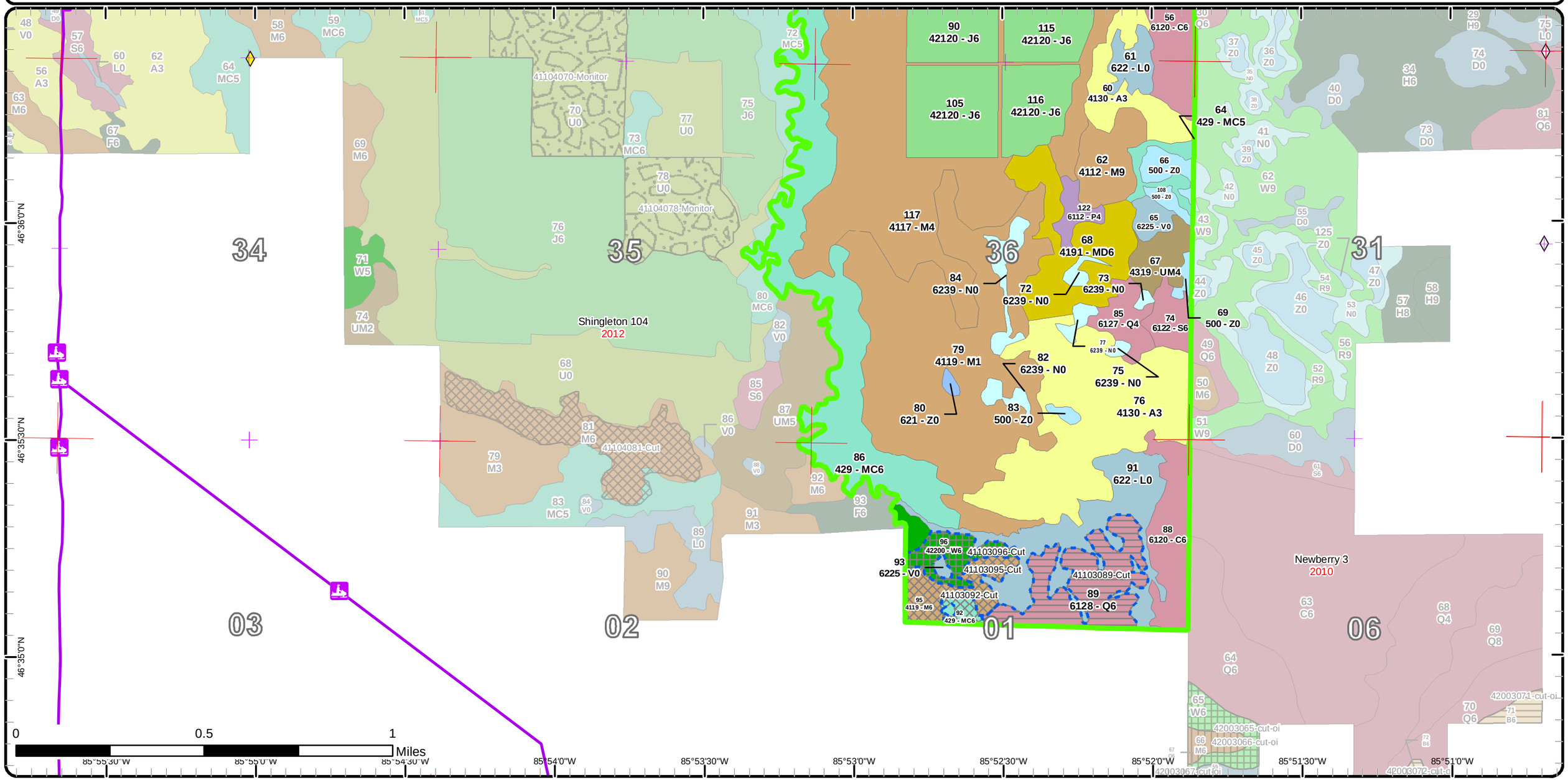
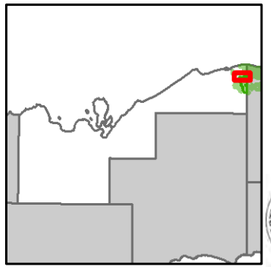


# Stand Boundary Map



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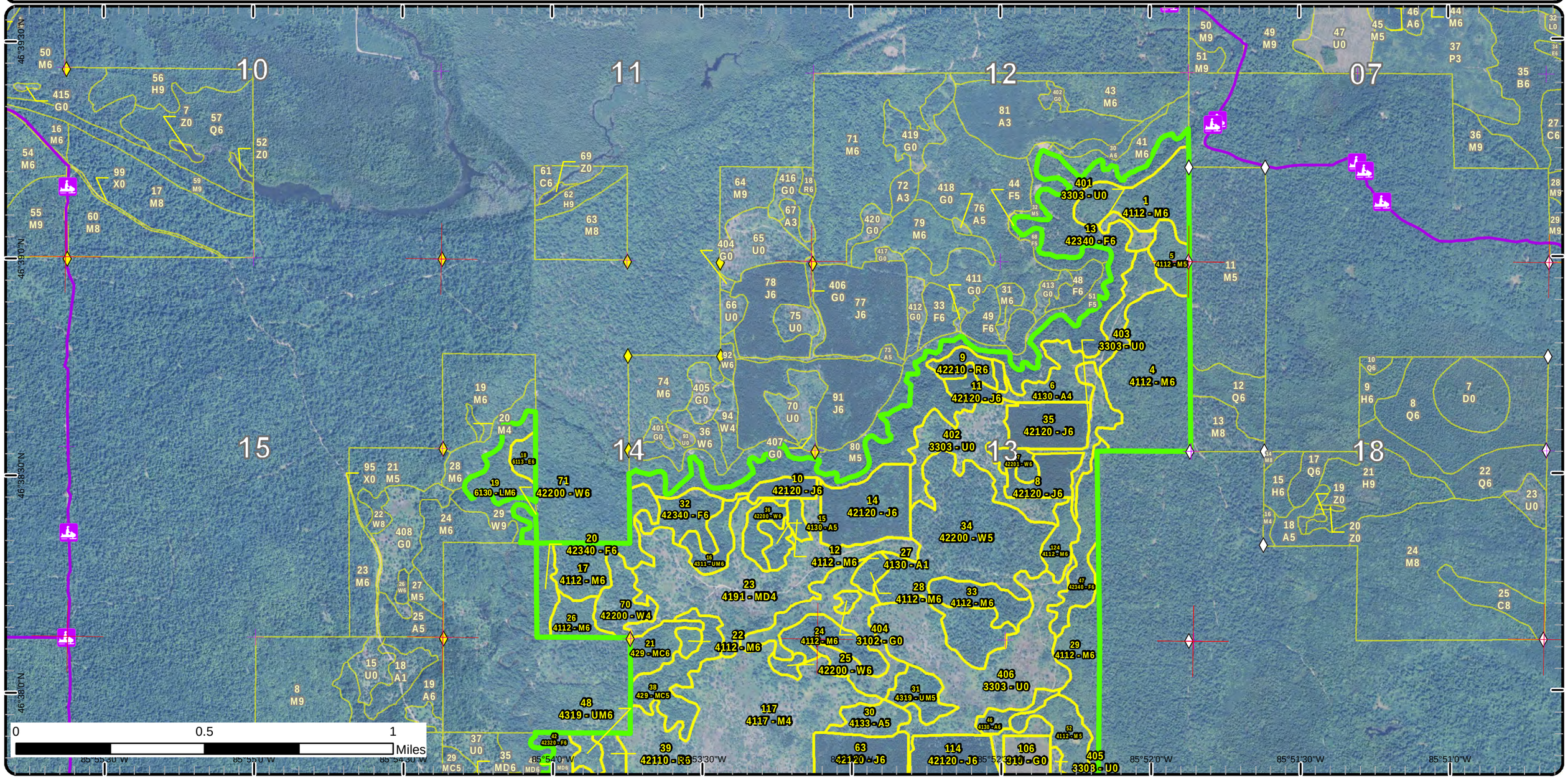

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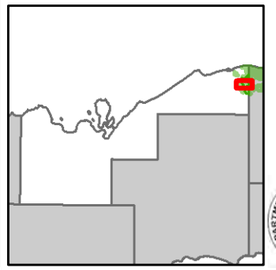

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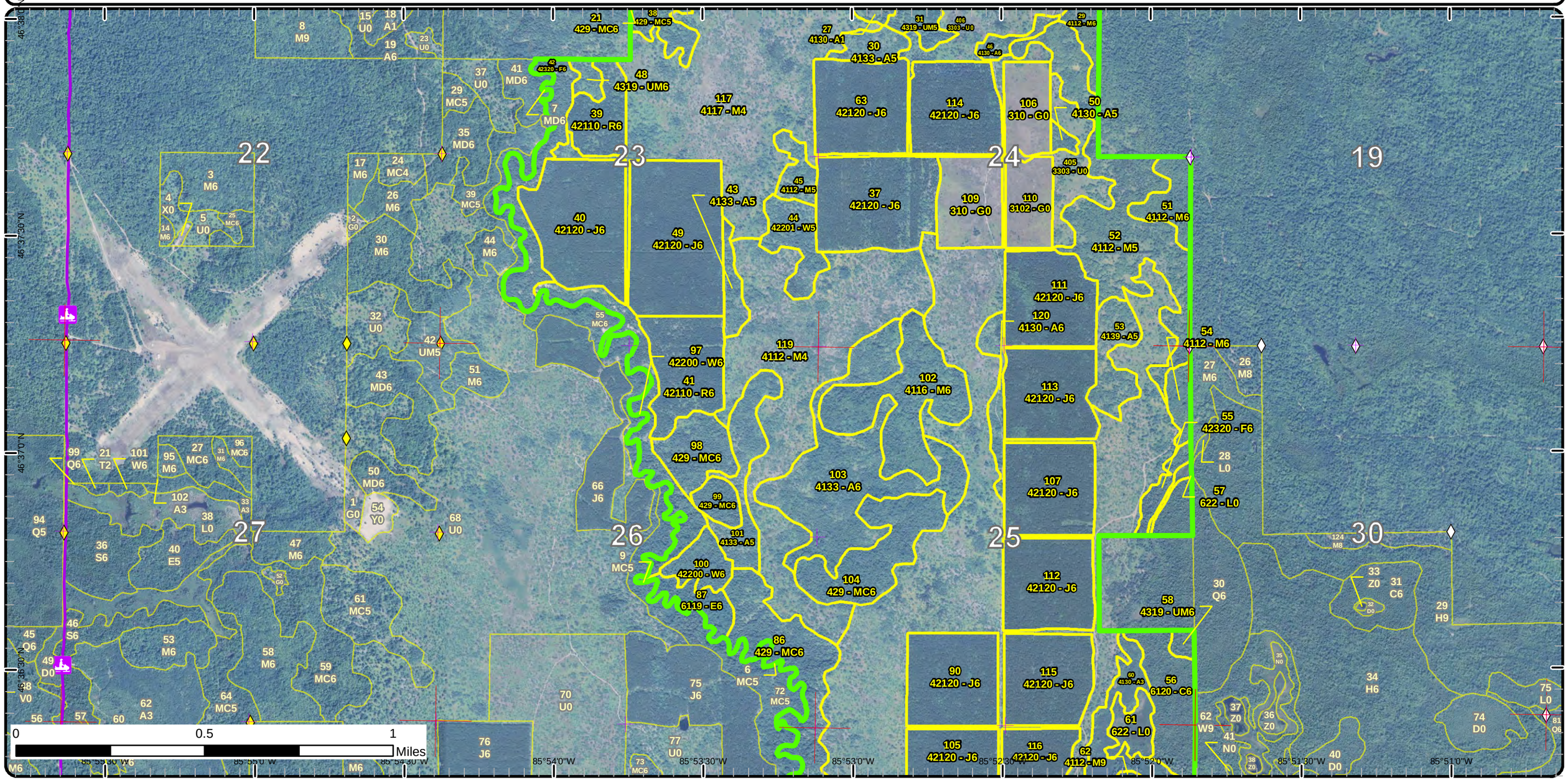

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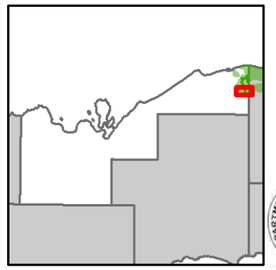

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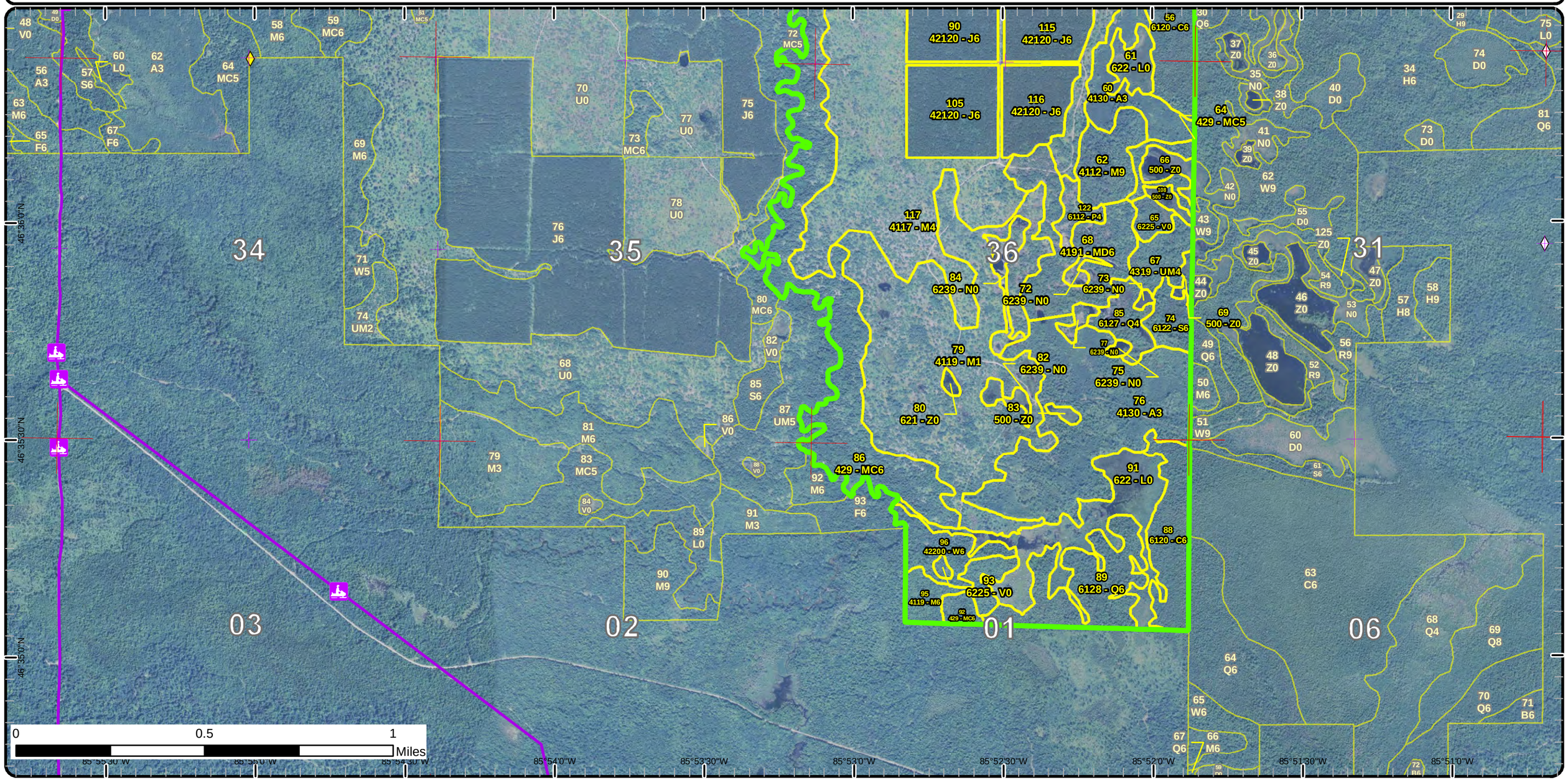
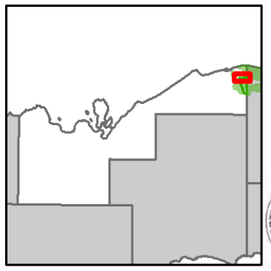


# Special Conservation Areas & Site Conditions Map



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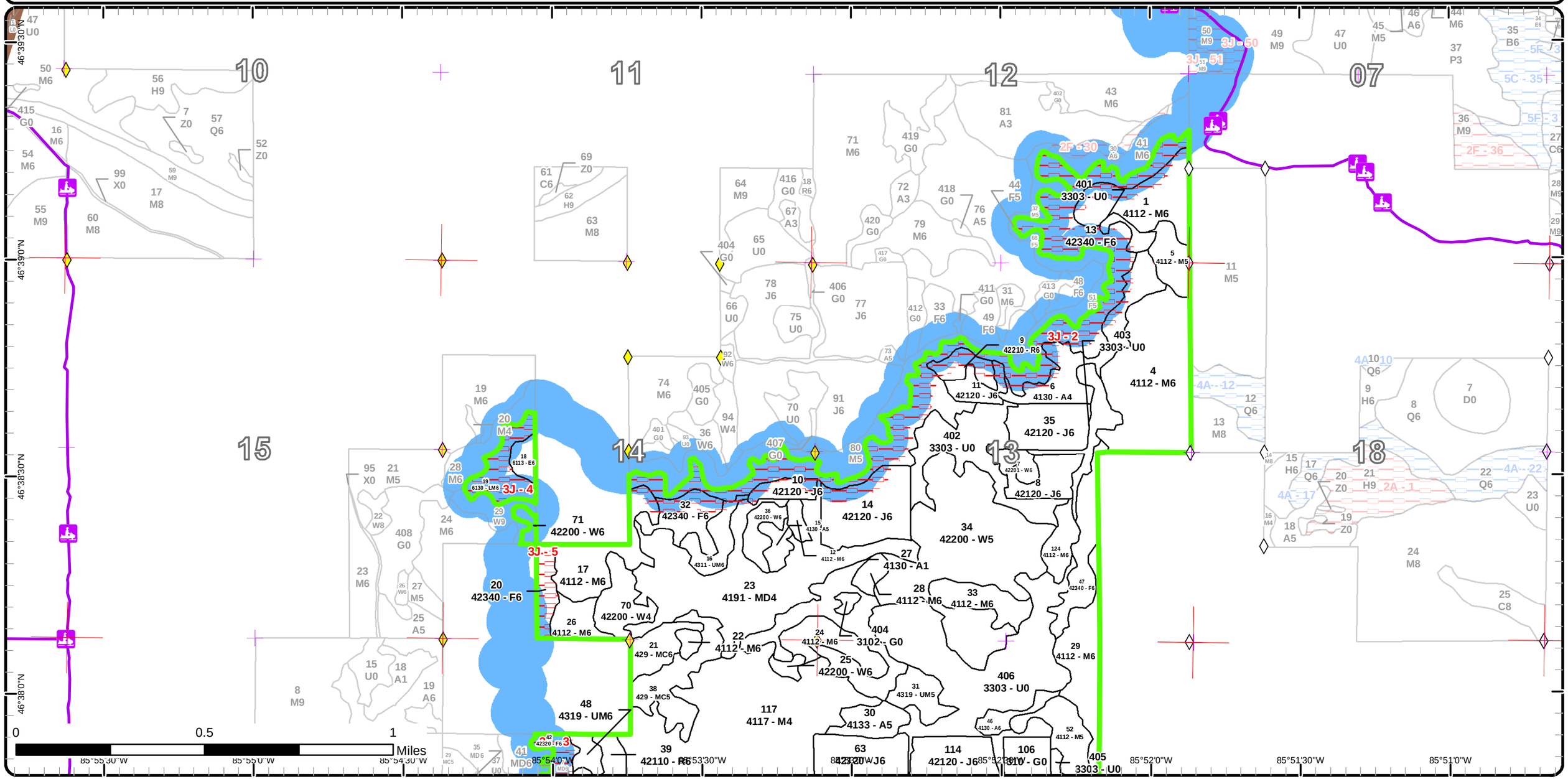
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- High Priority Trout Stream Buffer
- Deer Winter Range



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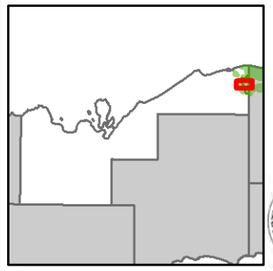

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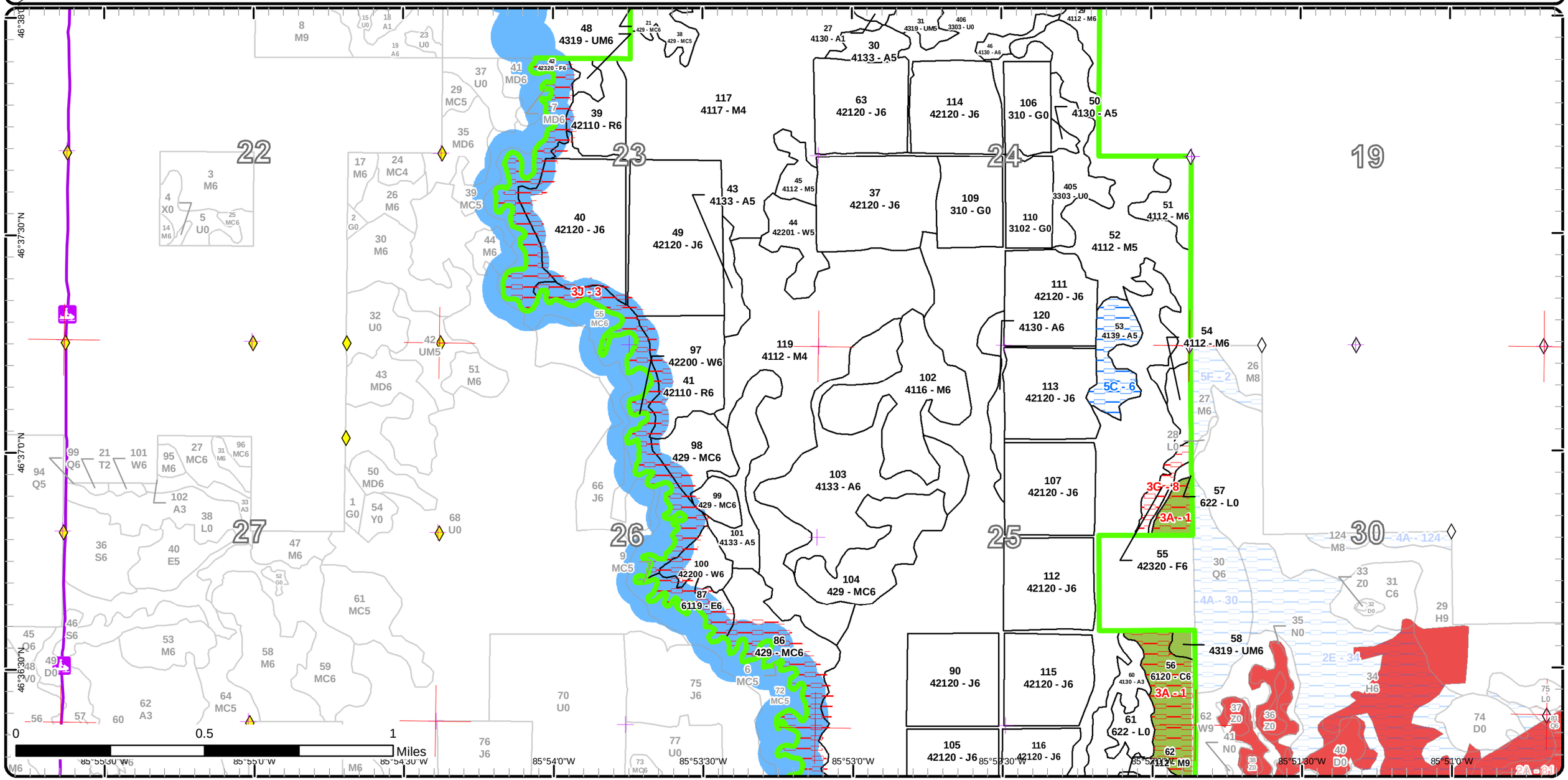
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Potential old growth / biodiversity
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- High Priority Trout Stream Buffer
- Verified Type 2 Old Growth



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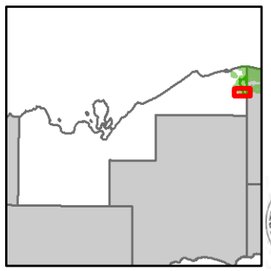

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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 3A: Potential old growth / biodiversity
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Verified Type 2 Old Growth

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

**Shingleton Mgt. Unit** **Compartment 103 Year of Entry 2018**

**Mario Molin : 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 | 29 | 135 | 25 | 33 | 107 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **349** |
| **Bog** | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **7** |
| **Cedar** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | **65** |
| **Herbaceous Openland** | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **67** |
| **Jack Pine** | 0 | 0 | 0 | 0 | 0 | 596 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **596** |
| **Low-Density Trees** | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **139** |
| **Lowland Aspen/Balsam Poplar** | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **7** |
| **Lowland Conifers** | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **55** |
| **Lowland Deciduous** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | **16** |
| **Lowland Mixed Forest** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **13** |
| **Lowland Shrub** | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **64** |
| **Lowland Spruce/Fir** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **11** |
| **Marsh** | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **20** |
| **Mixed Upland Deciduous** | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71 | **117** |
| **Northern Hardwood** | 0 | 0 | 0 | 0 | 139 | 584 | 87 | 56 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 340 | **1210** |
| **Red Pine** | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **59** |
| **Upland Conifers** | 0 | 0 | 0 | 0 | 0 | 36 | 47 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 129 | **234** |
| **Upland Mixed Forest** | 0 | 0 | 0 | 0 | 0 | 4 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | **39** |
| **Upland Spruce/Fir** | 0 | 0 | 0 | 0 | 0 | 29 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116 | **158** |
| **Water** | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **16** |
| **White Pine** | 0 | 0 | 0 | 0 | 0 | 20 | 55 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 | **184** |
| **Total** | **313** | **29** | **135** | **25** | **172** | **1429** | **314** | **124** | **96** | **0** | **0** | **0** | **0** | **0** | **0** | **35** | **0** | **756** | **3426** |

# Report 2 – Treatment Summary

**Shingleton Mgt. Unit**

**Year of Entry: 2018**

**Acres of Harvest**

**Compartment 103**

**Total Compartment Acres: 3,426**

Commercial Harvest - 282

Harvests with Site Condition - 76

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** | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **5** |
| **Jack Pine** | 185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **185** |
| **Lowland Conifers** | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **42** |
| **Northern Hardwood** | 3 | 17 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | **22** |
| **Red Pine** | 0 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | **44** |
| **Upland Conifers** | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **14** |
| **Upland Mixed Forest** | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **8** |
| **Upland Spruce/Fir** | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **24** |
| **White Pine** | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | **13** |
| **Total** | **277** | **21** | **0** | **13** | **0** | **47** | **0** | **0** | **0** | **357** |

## Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|---|---|---|---|---|---|---|---|---|---|---|
| **Current** | 357 | 0 | 79 | 0 | 0 | 0 | 65 | 0 | 0 | **501** |
| **Next Step** | 0 | 260 | 199 | 0 | 0 | 107 | 454 | 0 | 0 | **1021** |
| **Total** | **357** | **260** | **278** | **0** | **0** | **107** | **519** | **0** | **0** | **1522** |

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 41103001-Plant | 24.8 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 60 | 81-110 | Planting | Underplant | 4119 - Mixed Northern Hardwoods | Uneven-Aged | Draft Field Boundary |

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

Prescription Specs: Underplant with Oak

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

Acceptable Regen: Mixed northern hardwoods

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 41103004-Plant | 53.9 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 60 | 51-80 | Planting | Underplant | 411 - Northern Hardwood | Uneven-Aged | Draft Field Boundary |

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

Prescription Specs: Underplant with oak.

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

Acceptable Regen: Mixed northern hardwoods

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 41103010-Cut | 3.0 | 42120 - Planted Jack Pine | Poletimber Well | 45 | 111-140 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clearcut with retention, retention is the river buffer.

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

Acceptable Regen: red pine

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 41103012-Cut | 3.0 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 52 | 81-110 | Harvest | Clearcut | 413 - Aspen | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clearcut, no retention due to size and to promote aspen. Use 2" spec.

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

Acceptable Regen: Aspen and mixed hardwood

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 41103015-Cut | 4.8 | 4130 - Aspen | Poletimber Medium | 47 | 51-80 | Harvest | Clearcut | 413 - Aspen | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clearcut with no retention, due to small size. Use 2" spec.

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

Acceptable Regen: Aspen

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 41103016-Cut | 8.2 | 4311 - Pine, Aspen Mix | Poletimber Well | 57 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clearcut with retention, retention will be the river buffer. Use 2" spec.

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

Acceptable Regen: Aspen with other species.

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 41103021-Cut | 9.6 | 429 - Mixed Upland Conifers | Poletimber Well | 60 | 111-140 | Harvest | Clearcut with Retention | 429 - Mixed Upland Conifers | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clearcut with retention, put retention north of stand 22. Use 2" spec.

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

Acceptable Regen: Any mix of upland conifers

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | 41103022-Cut | 2.5 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 65 | 81-110 | Harvest | Crown Thinning | 411 - Northern Hardwood | Uneven-Aged | Draft Field Boundary |

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

Prescription Specs: Mark down to 80BA, remove clumps/doubles and mark for access.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 41103032-Cut | 7.6 | 42340 - Upland Spruce/Fir | Poletimber Well | 47 | 81-110 | Harvest | Clearcut with Retention | 42340 - Upland Spruce/Fir | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clearcut with retention, retention will be the river buffer. Use 2" spec.

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

Acceptable Regen: Spruce and fir with other species.

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | 41103039-Cut | 17.3 | 42110 - Planted Red Pine | Poletimber Well | 42 | 111-140 | Harvest | Systematic Thinning | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: First entry (3rd row) thinning. Do not mark in aspen clones.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 41103040-Cut | 42.5 | 42120 - Planted Jack Pine | Poletimber Well | 42 | 111-140 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clearcut with retention, retention will be the river buffer.

Next Step Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial

Acceptable Regen: Red pine.

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | 41103041-Cut | 26.9 | 42110 - Planted Red Pine | Poletimber Well | 42 | 81-110 | Harvest | Systematic Thinning | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: First entry (3rd row) thinning.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 47 | 41103047-Cut | 16.5 | 42340 - Upland Spruce/Fir | Poletimber Well | 46 | 81-110 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clear cut with retention. Leave any Oak and Hemlock is present. Use 2"spec.

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

Acceptable Regen: Mixed species of coniferous and deciduous

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 41103049-Cut | 64.6 | 42120 - Planted Jack Pine | Poletimber Well | 42 | 111-140 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clearcut with retention, retention will be river buffer.

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

Acceptable Regen: Re-planted to jack pine

Other Comment: Retention from stand 40 will serve as retention for 49 as well. Both stands are the same, planted the same year.

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 41103089-Cut | 41.9 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 74 | 81-110 | Harvest | Clearcut with Retention | 612 - Lowland Coniferous Forest | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clearcut with retention, Retention should be along an edge where ground gets inoperable. Reserve cedar and any hemlock if present. Adding on to the SBW stand.

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

Acceptable Regen: Mix of lowland conifers

Other Comment: Unsure if corners exist, but there is private line painted in.

Proposed Start Date: 10/14/2016

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 92 | 41103092-Cut | 4.3 | 429 - Mixed Upland Conifers | Poletimber Well | 65 | 111-140 | Harvest | Group Selection | 4119 - Mixed Northern Hardwoods | Uneven-Aged | Draft Field Boundary |

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

Prescription Specs: Cut all spruce, fir, aspen and paper birch. No cut cedar and hemlock, may mark other species if needed for operations. Use 2" speck on fir. Stand is being added due to the SBW stand

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

Acceptable Regen: Any mix of current species on site.

Other Comment:

Proposed Start Date: 10/14/2016

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 95 | 41103095-Cut | 16.6 | 4119 - Mixed Northern Hardwoods | Poletimber Well | 90 | 81-110 | Harvest | Group Selection | 4119 - Mixed Northern Hardwoods | Uneven-Aged | Draft Field Boundary |

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

Prescription Specs: Cut all spruce fir aspen and paper birch. No cut cedar and hemlock, may mark other species if needed for operations. Use 2" speck on fir. Adjacent stand was flagged for SBW, adding this stand with SBW salvage.

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

Acceptable Regen: Any mix of species currently on site.

Other Comment:

Proposed Start Date: 10/14/2016

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 96 | 41103096-Cut | 12.7 | 42200 - Natural White Pine | Poletimber Well | 65 | 111-140 | Harvest | Seed Tree with Retention | 42200 - Natural White Pine | Uneven-Aged | Draft Field Boundary |

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

Prescription Specs: Seed tree with retention, retention will be the river buffer. No cut oak and hemlock. Green tree 20-30 BA of white pine.

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

Acceptable Regen: White pine with any mix of conifer species.

Other Comment:

Proposed Start Date: 10/14/2016

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 106 | 41103106-Monitor | 19.2 | 310 - Herbaceous Openland | Nonstocked | 0 | Unspecified | Monitoring | Artificial Regen(1yr) | 4212 - Planted Jack Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: monitor

Next Step Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: JAck pine

Other Comment: Percent to Treat = 100%

Proposed Start Date: 08/09/2016

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 107 | 41103107-Cut | 37.7 | 42120 - Planted Jack Pine | Poletimber Well | 45 | 111-140 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clear cut with retention. Maintain/re-establish the 40/fire breaks.

Next Step Treatments: SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant

Acceptable Regen: Jack Pine

Other Comment:

Proposed Start Date: 10/01/2017

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 41103109-Monitor | 26.7 | 310 - Herbaceous Openland | Nonstocked | 0 | Unspecified | Monitoring | Artificial Regen(1yr) | 4212 - Planted Jack Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: regen check for Jack pine.

Next Step Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: Jack pine

Other Comment: Percent to Treat = 100%

Proposed Start Date: 08/09/2016

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | 41103110-Monitor | 19.3 | 3102 - Grass | Nonstocked | 0 | Unspecified | Monitoring | Artificial Regen(1yr) | 4212 - Planted Jack Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: monitor

Next Step Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: Jack pine

Other Comment: Percent to Treat = 100%

Proposed Start Date: 08/09/2016

| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112 | 41103112-Cut | 37.3 | 42120 - Planted Jack Pine | Poletimber Well | 45 | 111-140 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | Draft Field Boundary |

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

Prescription Specs: Clear cut with retention. Maintain/re-establish 40/fire breaks.

Next Step Treatments: SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant

Acceptable Regen: Jack Pine

Other Comment:

Proposed Start Date: 10/01/2017

**Total Treatment Acreage Proposed: 500.9**

# Report 4 – Site Conditions

**Shingleton Mgt. Unit**

**Mario Molin : Examiner**

**Compartment: 103**

**Year of Entry: 2018**

## Availability for Management

| Total Acres | Acres Available | *Acres Avail With Condition* | Acres Not Available | | Dominant Site Conditions *4A* | *5C* | 3A | 3G | 3J | 5D |
|---|---|---|---|---|---|---|---|---|---|---|
| 349 | 325 | ***18*** | 6 | **Aspen** | | ***18*** | | | 6 | |
| 7 | 7 | ***0*** | 0 | **Bog** | | | | | | |
| 65 | 30 | ***0*** | 35 | **Cedar** | | | 35 | | | |
| 67 | 67 | ***0*** | 0 | **Herbaceous Openland** | | | | | | |
| 596 | 578 | ***0*** | 19 | **Jack Pine** | | | | | 19 | |
| 139 | 138 | ***0*** | 1 | **Low-Density Trees** | | | | | 1 | |
| 7 | 0 | ***0*** | 7 | **Lowland Aspen/Balsam Poplar** | | | | | | 7 |
| 55 | 13 | ***42*** | 0 | **Lowland Conifers** | ***42*** | | | | | |
| 16 | 5 | ***0*** | 10 | **Lowland Deciduous** | | | | | 10 | |
| 13 | 0 | ***0*** | 13 | **Lowland Mixed Forest** | | | | | 13 | |
| 64 | 63 | ***0*** | 1 | **Lowland Shrub** | | | | | 1 | |
| 11 | 11 | ***0*** | 0 | **Lowland Spruce/Fir** | | | | | | |
| 20 | 20 | ***0*** | 0 | **Marsh** | | | | | | |
| 116 | 116 | ***0*** | 1 | **Mixed Upland Deciduous** | | | | | 1 | |
| 1209 | 1178 | ***17*** | 14 | **Northern Hardwood** | ***17*** | | | | 14 | |
| 59 | 46 | ***0*** | 13 | **Red Pine** | | | | | 13 | |
| 235 | 136 | ***4*** | 95 | **Upland Conifers** | ***4*** | | | | 95 | |
| 39 | 38 | ***0*** | 1 | **Upland Mixed Forest** | | | | | 1 | |
| 159 | 35 | ***0*** | 124 | **Upland Spruce/Fir** | | | | 7 | 117 | |
| 16 | 16 | ***0*** | 0 | **Water** | | | | | | |
| 184 | 135 | ***13*** | 37 | **White Pine** | ***13*** | | | | 37 | |
| 3,426 | 2,957 | ***93*** | 376 | Total Forested Acres | ***76*** | ***18*** | 35 | 7 | 327 | 7 |
| | 86% | ***3%*** | 11% | 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** | **3A: Potential old growth / biodiversity** | 35 | Unspecified | Unspecified | Unspecified | Unspecified |

**Comments:**

Meets criteria for type 2 old growth.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | **Unavailable** | **3J: Water quality / BMPs (stream, river, or lake)** | 115 | Unspecified | Unspecified | Unspecified | Unspecified |

**Comments:**
Priority trout stream 300ft buffer

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | **Unavailable** | **3J: Water quality / BMPs (stream, river, or lake)** | 192 | Unspecified | Unspecified | Unspecified | Unspecified |

**Comments:**
Priority trout stream 300ft buffer.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | **Unavailable** | **3J: Water quality / BMPs (stream, river, or lake)** | 13 | 2F: Too steep | Unspecified | Unspecified | Unspecified |

**Comments:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | **Unavailable** | **3J: Water quality / BMPs (stream, river, or lake)** | 7 | Unspecified | Unspecified | Unspecified | Unspecified |

**Comments:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6 | **Available** | **5C: Delay treatment for age/size class diversity or exceptional site quality** | 18 | Unspecified | Unspecified | Unspecified | Unspecified |

**Comments:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7 | **Unavailable** | **5D: Unproductive Forest Land** | 7 | Unspecified | Unspecified | Unspecified | Unspecified |

**Comments:**
Low density trees scattered around, flooded in spring,

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | **Unavailable** | **3G: Other Influence zones - See comments** | 7 | 4A: No Markets Available for these Forest Products | 2I: Survey needed | Unspecified | Unspecified |

**Comments:**

Adjacent to small seasonal creek and old growth stand, to preserve the integrity of both stands no harvest should be done. Buffering the creek will reduce the stand size significantly to where it will no longer be commercially desirable

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9 | **Available** | **4A: No Markets Available for these Forest Products** | 42 | 2B: Unknown if access through adjacent landowner(s) is possible | 2D: Portable Bridge Needed (Dept. bridge will be adequate) | 2I: Survey needed | Unspecified |

**Comments:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10 | **Available** | **4A: No Markets Available for these Forest Products** | 4 | 2B: Unknown if access through adjacent landowner(s) is possible | 2D: Portable Bridge Needed (Dept. bridge will be adequate) | 2I: Survey needed | Unspecified |

**Comments:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11 | **Available** | **4A: No Markets Available for these Forest Products** | 17 | 2B: Unknown if access through adjacent landowner(s) is possible | 2D: Portable Bridge Needed (Dept. bridge will be adequate) | 2I: Survey needed | Unspecified |

**Comments:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | **Available** | **4A: No Markets Available for these Forest Products** | 13 | 2B: Unknown if access through adjacent landowner(s) is possible | 2D: Portable Bridge Needed (Dept. bridge will be adequate) | 2I: Survey needed | Unspecified |

**Comments:**

## 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 |
|---|---|---|---|---|
| | Type 1 or Type 2 Old Growth | Verified Type 2 Old Growth Area | **Proposed SCA** | 7 |
| **Comments** | | | | |
| Meets old growth criteria. | | | | |
| | Type 1 or Type 2 Old Growth | Verified Type 2 Old Growth Area | **Proposed SCA** | 28 |
| **Comments** | | | | |
| Meets old growth criteria. | | | | |
| | Potential Old Growth | | **SCA Removal** | 11 |
| **Comments** | | | | |
| Adjacent to Barfield lakes ERA. Does not meet current SCA criteria. | | | | |

## 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 Lake | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200. |
| 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. |
| 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 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 24.8 | 60 | 81-110 | [6-24-09] Stand is now under contract TS#41-040-08-01 GM Hilltop Hardwood. See also FTP W41-1394 (handplant oak.) Residual Basal Area: White pine = 1; hemlock = 1; white spruce = 2; beech = 7; red maple = 38; sugar maple = 28; total = 77 sq.ft./acre. [8-10-12] Sale is now closed/completed TCR dtd 6-28-12. |
| 4 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 53.9 | 60 | 51-80 | [6-24-09] Stand is now under contract TS#41-040-08-01 GM Hilltop Hardwood. See also FTP W41-1394 (handplant oak.) Residual Basal Area: White pine = 2; hemlock = 1; fir & spruce = 1; mixed deciduous (beech, y.birch, b.cherry & aspen) = 3; red maple = 40; sugar maple = 21; total = 68 sq.ft./acre. [8-10-12] Sale is now closed/completed TCR dtd 6-28-12. |
| 5 | 4112 - Maple, Beech, Cherry Association | Poletimber Medium | 9.5 | 45 | 1-50 | 2016: Fairly low quality trees with lots of die back on the maples. |
| 6 | 4130 - Aspen | Poletimber Poor | 24.6 | 29 | 51-80 | |
| 7 | 42201 - Natural White Pine, Mixed Deciduous | Poletimber Well | 5.2 | 51 | 81-110 | |
| 8 | 42120 - Planted Jack Pine | Poletimber Well | 10.5 | 45 | 111-140 | 2016: Planted in 1971. Scattered cherry and a few w.pine and b.fir. |
| 9 | 42210 - Natural Red Pine | Poletimber Well | 6.5 | 72 | 51-80 | 2008: Mixed stand: some areas with mainly red or jack pine, and some all mixed. Remove all Jack Pine and thin all of the other species. Near the Sucker River - stay apx. 1 chain from the bluff. Hand plant red pine in openings created by logging. soil=Kalkaska sand, 1-6% slopes, burned [11-23-09] Stand is now under contract - TS 41-013-08-01 Sucker River Mix. Residual BA: r.pine = 50 w.pine = 13; w.spruce = 7; total = 70 sq.ft./acre. [8-27-10] Sale is completed TCR dtd 8-23-10. See FTP C41-1392 (handplant red pine.) 2016: Go back in a hand plant redpine |
| 10 | 42120 - Planted Jack Pine | Poletimber Well | 5.6 | 45 | 111-140 | 2016: Planted spring of 1971 |
| 11 | 42120 - Planted Jack Pine | Poletimber Well | 6.6 | 45 | 141-170 | 2016: Jack pine planted in 1971. |
| 12 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 3.0 | 52 | 81-110 | |
| 13 | 42340 - Upland Spruce/Fir | Poletimber Well | 89.1 | 60 | 51-80 | 2016: Steep hill along the Sucker River; also includes some flat areas at the top of the bank and at the bottom along the river. There is an old trail road along the top of the hill with parking and camping places that are used by fishermen. |
| 14 | 42120 - Planted Jack Pine | Poletimber Well | 26.7 | 45 | 111-140 | 2016: Planted in 1971. |

| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|---|---|---|---|---|---|---|
| 15 | 4130 - Aspen | Poletimber Medium | 4.8 | 47 | 51-80 | |
| 16 | 4311 - Pine, Aspen Mix | Poletimber Well | 9.0 | 57 | 81-110 | 2016: Aspen is in decline, appears to be of better quality than some of the surrounding aspen stands. |
| 17 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 20.1 | 65 | 51-80 | [11-23-09] Stand is now under contract - TS 41-013-08-01 Sucker River Mix. Residual BA: w.pine = 2; w.spruce = 3; r.maple = 45; sugar maple = 18; beech = 5; hemlock = 2; balsam fir = 1; total = 76 sq.ft./acre.<br>[8-27-10] Sale is completed TCR dtd 8-23-10. See FTP W41-1393 (handplant oak.) FTP canceled.<br><br>[11/03/2011 JB] FTP W41-1393 is cancelled as part of 2012 Compartment Review. |
| 18 | 6113 - Lowland Maple | Poletimber Well | 4.3 | 65 | 111-140 | 2016: Must cross private property with a gate to access stand. |
| 19 | 6130 - Fir, Aspen, Maple | Poletimber Well | 13.0 | 78 | 81-110 | 2016: Steep hill and bottomland along the Sucker River. |
| 20 | 42340 - Upland Spruce/Fir | Poletimber Well | 7.4 | 67 | 111-140 | |
| 21 | 429 - Mixed Upland Conifers | Poletimber Well | 9.6 | 60 | 111-140 | 2008: Mix of trees on hilly ground. Survey corner is within this stand. The private land was marked by Grossman Co. this summer. |
| 22 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 2.5 | 65 | 81-110 | Fairly nice red maple stand, many are multi stemmed, is harvested focus on mutli stem and access, this is most likely first entry. |
| 23 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Poor | 70.7 | 50 | 1-50 | |
| 24 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 13.3 | 65 | 51-80 | [11-23-09] Stand is now under contract - TS 41-013-08-01 Sucker River Mix. Residual BA: w.pine = 1; w.spruce = 2; mixwed hardwoods = 71; total = 74 sq.ft./acre.-<br>[8-27-10] Sale is completed TCR dtd 8-23-10. See FTP W41-1393 (handplant oak.)<br><br>[11/03/2011 JB] FTP W41-1393 is cancelled as part of 2012 Compartment Review. |
| 25 | 42200 - Natural White Pine | Poletimber Well | 2.5 | 52 | 1-50 | |
| 26 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 8.3 | 65 | 51-80 | 2015: Hardwoods with dense b.fir understory. The private land to the south has just had the property lines put in this summer, and is marked for cutting. |

| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|---|---|---|---|---|---|---|
| 27 | 4130 - Aspen | Sapling Poor | 28.9 | 6 | Immature | [11-23-09] Stand is now under contract - TS 41-013-08-01 Sucker River Mix. Residual BA: w.pine = 4; w.spruce = 6; red maple = 1; total = 11 sq.ft./acre.<br>[8-27-10] Sale is completed TCR dtd 8-23-10. |
| 28 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 4.0 | 78 | 81-110 | [11-23-09] Stand is now under contract - TS 41-013-08-01 Sucker River Mix. Residual BA: w.pine = 2; w.spruce = 6; mixed hardwood = 66; total = 74 sq.ft./acre.<br>[8-27-10] Sale is completed TCR dtd 8-23-10. |
| 29 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 21.6 | 60 | 81-110 | |
| 30 | 4133 - Aspen, Mixed Pine | Poletimber Medium | 9.2 | 34 | 1-50 | 2016: Many of the aspen trees are dead or in decline. |
| 31 | 4319 - Mixed Upland Forest | Poletimber Medium | 9.4 | 52 | 81-110 | 2016: Basically a red maple stand with pockets of conifers. |
| 32 | 42340 - Upland Spruce/Fir | Poletimber Well | 12.8 | 47 | 81-110 | |
| 33 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 12.1 | 60 | 51-80 | [8-27-10] Sale is completed TCR dtd 8-23-10. See FTP W41-1393 (handplant oak.)<br>[11/03/2011 JB] FTP W41-1393 is cancelled as part of 2012 Compartment Review. |
| 34 | 42200 - Natural White Pine | Poletimber Medium | 78.9 | 60 | 81-110 | 2016: Small inclusion of red pine.<br>[11-23-09] Stand is now under contract - TS 41-013-08-01 Sucker River Mix. Residual BA: w.pine = 50 ; w.spruce = 2; r.pine = 5; total = 57 sq.ft./acre. |
| 35 | 42120 - Planted Jack Pine | Poletimber Well | 16.9 | 45 | 141-170 | 2016: Planted spring 1971. |
| 36 | 42200 - Natural White Pine | Poletimber Well | 7.3 | 41 | 51-80 | |
| 37 | 42120 - Planted Jack Pine | Poletimber Well | 50.2 | 45 | 111-140 | 2016: Planted spring 1971. |
| 38 | 429 - Mixed Upland Conifers | Poletimber Medium | 19.2 | 56 | 1-50 | |
| 39 | 42110 - Planted Red Pine | Poletimber Well | 18.5 | 42 | 111-140 | Planted spring 1974. Many of the rows are not contiguous. |
| 40 | 42120 - Planted Jack Pine | Poletimber Well | 51.8 | 42 | 111-140 | Planted spring 1974. |
| 41 | 42110 - Planted Red Pine | Poletimber Well | 34.2 | 42 | 81-110 | Planted spring 1974. |

| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|---|---|---|---|---|---|---|
| 42 | 42320 - Upland Spruce | Poletimber Well | 26.8 | 51 | 51-80 | Flat area at top of bluff, steep hill and flat area at bottom next to the river. Mix of trees - mainly w.spruce and w.pine. There is an old trail road along the top of the hill. |
| 43 | 4133 - Aspen, Mixed Pine | Poletimber Medium | 7.9 | 38 | 1-50 | |
| 44 | 42201 - Natural White Pine, Mixed Deciduous | Poletimber Medium | 17.1 | 51 | 51-80 | |
| 45 | 4112 - Maple, Beech, Cherry Association | Poletimber Medium | 9.0 | 51 | 81-110 | |
| 46 | 4130 - Aspen | Poletimber Well | 5.0 | 31 | 1-50 | |
| 47 | 42340 - Upland Spruce/Fir | Poletimber Well | 16.5 | 46 | 81-110 | 2016: North turns to more spruce. |
| 48 | 4319 - Mixed Upland Forest | Poletimber Well | 4.4 | 42 | 81-110 | |
| 49 | 42120 - Planted Jack Pine | Poletimber Well | 65.5 | 42 | 111-140 | Planted spring of 1974. |
| 50 | 4130 - Aspen | Poletimber Medium | 2.6 | 51 | 51-80 | |
| 51 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 13.4 | 65 | 51-80 | 2016: Stand is mainly even aged poles with occasion pockets of older log size trees. Northern portion is heavy with B. Fir understory. |
| 52 | 4112 - Maple, Beech, Cherry Association | Poletimber Medium | 75.2 | 51 | 81-110 | |
| 53 | 4139 - Aspen, Mixed Deciduous | Poletimber Medium | 17.8 | 53 | 1-50 | |
| 54 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 7.4 | 65 | 81-110 | |
| 55 | 42320 - Upland Spruce | Poletimber Well | 6.5 | 56 | 51-80 | |
| 56 | 6120 - Lowland Cedar | Poletimber Well | 35.4 | 147 | 111-140 | 2006: SCA - POG, stand is near the Barfield Lakes ERA in Luce County. (Comments last inventory (BAV) suggested this stand should be potential old growth.) Newberry Management Unit will let us know when they are writing the ERA plan for Barfield Lakes. |
| 58 | 4319 - Mixed Upland Forest | Poletimber Well | 2.9 | 55 | 51-80 | 2016: Steep knob in the middle od lowland cedar, basically a mix of all species in the area. Paper birch was once dominate but is in decline and dying out. |

| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|---|---|---|---|---|---|---|
| 60 | 4130 - Aspen | Sapling Well | 27.1 | 16 | Immature | 2016: Cut in 1999-2000; TSI with inmates in 2001. |
| 62 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 22.0 | 65 | 51-80 | 2016: Cut 2012 |
| 63 | 42120 - Planted Jack Pine | Poletimber Well | 39.1 | 45 | 111-140 | 2016: Planted spring 1971. |
| 64 | 429 - Mixed Upland Conifers | Poletimber Medium | 7.8 | 51 | 51-80 | SCA-Ridge in a pond that extends into the Barfield Lakes ERA in Luce Co. |
| 67 | 4319 - Mixed Upland Forest | Poletimber Poor | 13.5 | 53 | 81-110 | 2016: Aspen is both species. |
| 68 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 45.6 | 53 | 51-80 | 2006: Higher ground with brackenfern, lower ground is seasonally wet and has low-med brush. Trees are in groups. Part of sale #68-98 returned to the State uncut. |
| 70 | 42200 - Natural White Pine | Poletimber Poor | 13.1 | 48 | 51-80 | |
| 71 | 42200 - Natural White Pine | Poletimber Well | 2.3 | 78 | 51-80 | 2016: Steep slope and bottomland along the Sucker River. |
| 74 | 6122 - Black Spruce | Poletimber Well | 10.6 | 66 | 51-80 | |
| 76 | 4130 - Aspen | Sapling Well | 108.1 | 16 | Immature | OPIC - FMD: Cut in 1999-2000. Dense regeneration - mixed species including: bigtooth and quaking aspen, r.maple, b.fir, w.spruce and w.pine. Hilly terrain. soil=Kalkaska sand, 6-15% slopes, burned; and Garlic sand 15-35% slopes |
| 79 | 4119 - Mixed Northern Hardwoods | Sapling Poor | 171.5 | 35 | 1-50 | 2006: Previously typed as a grass stand. Large area filling in with trees - cherry, aspen, r.maple, w.pine, b.fir and w.spruce. Rolling terrain. soil=Kalkaska sand, 1-6% slopes, burned |
| 85 | 6127 - Lowland Pine | Poletimber Poor | 12.8 | 53 | 1-50 | 2006: Interspersed with low, wet areas. |
| 86 | 429 - Mixed Upland Conifers | Poletimber Well | 129.3 | 56 | 51-80 | Steep hill and bottom land along Sucker River; also includes a narrow flat area at the top of the hill with an old trail road along the edge. The south facing slopes have less vegetation, and more raw sand exposed. |
| 87 | 6119 - Mixed Lowland Deciduous Forest | Poletimber Well | 11.5 | 70 | 81-110 | Unique bottomland hardwood to the area, looks to be the original river channel. |
| 88 | 6120 - Lowland Cedar | Poletimber Well | 29.8 | 76 | 81-110 | 2016: Ground is dryer to the north with more B. Spruce.2006: Wet ground throughout much of the stand, with some slightly higher, dry places. Scattered large white pine. There is a flowing creek within the stand, and some seasonal drainages. (Headwaters of Porter Creek.) |

| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|---|---|---|---|---|---|---|
| 89 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 41.9 | 74 | 81-110 | 2006: Scattered large white pine. Seasonal drainages within the stand between the small bogs, and flowing toward Porter Creek. |
| 90 | 42120 - Planted Jack Pine | Poletimber Well | 38.2 | 45 | 111-140 | 2016: Planted spring 1971. |
| 92 | 429 - Mixed Upland Conifers | Poletimber Well | 4.9 | 65 | 111-140 | |
| 95 | 4119 - Mixed Northern Hardwoods | Poletimber Well | 16.6 | 90 | 81-110 | 2016: Pvt South boundary is painted and appears accurate. |
| 96 | 42200 - Natural White Pine | Poletimber Well | 16.8 | 65 | 111-140 | 2016: Looked for corner, GPS shows it to be in the river, no evidence of corner found.<br><br>2006: Scattered large white pine. Dense regeneration: b.fir, w.spruce, w.pine, r.maple & cherry. Seasonal drainages within the stand between the small bogs, and flowing toward Porter Creek. 99=r.maple, cherry and aspen |
| 97 | 42200 - Natural White Pine | Poletimber Well | 29.9 | 56 | 51-80 | Steep hill and bottom land along Sucker River; also includes a narrow flat area at the top of the hill with an old trail road along the edge. The south facing slopes have less vegetation, and more raw sand exposed. |
| 98 | 429 - Mixed Upland Conifers | Poletimber Well | 19.9 | 57 | 81-110 | OPIC - FMD: Variable species composition and density. Regeneration species include: b.fir, w.spruce, w.pine, r.maple, aspen, and cherry. soil=Kalkaska sand, 1-6% slopes, burned |
| 99 | 429 - Mixed Upland Conifers | Poletimber Well | 7.7 | 66 | 81-110 | |
| 100 | 42200 - Natural White Pine | Poletimber Well | 11.4 | 66 | 111-140 | 2016: occasional Extra-Large White pine. |
| 101 | 4133 - Aspen, Mixed Pine | Poletimber Medium | 23.9 | 46 | 1-50 | |
| 102 | 4116 - Mixed N. Hardwood - Aspen | Poletimber Well | 50.3 | 45 | 51-80 | |
| 103 | 4133 - Aspen, Mixed Pine | Poletimber Well | 77.7 | 46 | 51-80 | |
| 104 | 429 - Mixed Upland Conifers | Poletimber Well | 36.3 | 48 | 81-110 | |
| 105 | 42120 - Planted Jack Pine | Poletimber Well | 38.1 | 45 | 111-140 | 2016: Planted spring 1971. |
| 107 | 42120 - Planted Jack Pine | Poletimber Well | 37.7 | 45 | 111-140 | 2016: Planted spring 1971. |
| 111 | 42120 - Planted Jack Pine | Poletimber Well | 37.3 | 45 | 111-140 | 2016: Planted spring 1971. |

| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|---|---|---|---|---|---|---|
| 112 | 42120 - Planted Jack Pine | Poletimber Well | 37.3 | 45 | 111-140 | 2016: Planted spring 1971. |
| 113 | 42120 - Planted Jack Pine | Poletimber Well | 37.0 | 45 | 111-140 | 2016: Planted spring 1971. |
| 114 | 42120 - Planted Jack Pine | Poletimber Well | 36.7 | 45 | 111-140 | 2016: Planted spring 1971. |
| 115 | 42120 - Planted Jack Pine | Poletimber Well | 35.5 | 45 | 111-140 | 2016: Planted spring 1971. |
| 116 | 42120 - Planted Jack Pine | Poletimber Well | 25.6 | 45 | 111-140 | 2016: Planted spring 1971. |
| 117 | 4117 - Mixed N. Hardwood - Pine | Poletimber Poor | 523.9 | 45 | 1-50 | |
| 119 | 4112 - Maple, Beech, Cherry Association | Poletimber Poor | 138.9 | 35 | 1-50 | |
| 120 | 4130 - Aspen | Poletimber Well | 11.2 | 38 | 51-80 | |
| 122 | 6112 - Lowland Aspen | Poletimber Poor | 7.2 | 50 | 51-80 | 2016: This is a "dry lowland" Seasonally flooded shallow valley. |
| 124 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 7.9 | 60 | 81-110 | |

| Stand | Cover Type | Acres | Managed Site | General Comments: |
|---|---|---|---|---|
| 57 | 622 - Lowland Shrub | 1.8 | No | 2006: Low, wet area with med-tall shrubs around the edge, and sedges/grasses throughout. A few scattered cedar and tamarack. |
| 61 | 622 - Lowland Shrub | 10.2 | No | 2006: Small marsh; sometimes has standing water. |
| 65 | 6225 - Bog | 6.0 | No | |
| 66 | 500 - Water | 7.1 | No | 2016: This pond crosses into Luce county, where it is part of the Barfield Lakes ERA bog. Consult with Newberry Management Unit when they write the Barfield Lakes ERA plan. |
| 69 | 500 - Water | 2.6 | No | 2006: SCA - This pond crosses into Luce county, where it is part of the Barfield Lakes ERA bog. Consult with Newberry Management Unit when they are writing the Barfield Lakes ERA plan. |
| 72 | 6239 - Mixed Emergent Wetland | 2.4 | No | 2006: Small marsh - occasionally flooded. |
| 73 | 6239 - Mixed Emergent Wetland | 1.1 | No | 2006: Small marsh - occasionally flooded. |
| 75 | 6239 - Mixed Emergent Wetland | 1.3 | No | 2006: Small marsh - occasionally flooded. |
| 77 | 6239 - Mixed Emergent Wetland | 3.0 | No | 2006: Small marsh - occasionally flooded. Soil=Rousseau-Dawson complex, 0-15% slopes |
| 80 | 621 - Floating Aquatic | 1.4 | No | 2016: Small pond/bog. |
| 82 | 6239 - Mixed Emergent Wetland | 4.0 | No | 2016: Pond/wetland marsh area. |
| 83 | 500 - Water | 1.7 | No | 2016: Small pond/bog. |
| 84 | 6239 - Mixed Emergent Wetland | 8.5 | No | 2016: Pond/bog type. |
| 91 | 622 - Lowland Shrub | 51.7 | No | 2006: Low ground surrounding Porter Creek, which flows into the Sucker River. There is an illegal ORV bridge where the road crosses Porter Creek. A BMP NCR has been filled out to romove the bridge. |
| 93 | 6225 - Bog | 1.3 | No | 2006: Small bog with a seasonal drainage flowing toward Porter Creek. Soil=Carbondale, Lupton and Tawas soils. |

| Stand | Cover Type | Acres | Managed Site | General Comments: |
|---|---|---|---|---|
| **106** | 310 - Herbaceous Openland | 19.2 | | Planted in spring of 1971.<br>[5/22/08] Under contract TS# 41-003-08-01 Pull-Up Jack Pine. Residual BA: Cherry = 1 sq.ft./acre. See also FTP C41-1351 (jack pine regeneration.)<br>[8-26-09] Sale completed TCR dtd 8-26-09. Regen will be checked during next inventory cycle for YOE 2018.<br>[9/25/10] Received completion report for scarification on 62 acres at $54/acre. Needs regeneration check in 2013.<br>(10/21/15) Planted spring 2015, to Jack pine needs a regen check.<br>Fall 2015 Regen check: 396 TPA, Needs to be replanted.<br>Fail 2016 Regen survey: 396 TPA, Needs replant.<br>Planted summer 2016 to jack pine, needs regen check. |
| **108** | 500 - Water | 3.2 | No | 2016: This pond crosses into Luce county, where it is part of the Barfield Lakes ERA bog. Consult with Newberry Management Unit when they write the Barfield Lakes ERA plan. |
| **109** | 310 - Herbaceous Openland | 26.7 | | OPIC - FMD: Planted in spring of 1971. Budworm attack in summer of 2006.<br>[1/10/07 KM] It was decided at compartment review to cut this stand, to provide more age classes of JP within the compartment.<br>[5/22/08] Under contract TS# 41-003-08-01 Pull-Up Jack Pine. Residual BA: Red Pine - 1; cherry - 1; total = 2 sq.ft./acre. See also FTP C41-1351 (jack pine regeneration.)<br>[8-26-09] sale completed TCR dtd 8-26-09. Regen will be checked during next inventory cycle for YOE 2018.<br>[9/25/10] Received completion report for scarification on 62 acres at $54/acre. Needs regeneration check in 2013.<br>Regen survey fall 2015 396 TPA, needs replant check again in 2016, still needs replant.<br>Replanted summer 2016 to Jack pine. Needs regen check. |
| **110** | 3102 - Grass | 19.3 | | =Planted in spring of 1971.<br>[1/10/07 KM] It was decided at compartment review to cut this stand, to provide more age classes of JP within the compartment.<br>[5/22/08] Under contract TS# 41-003-08-01 Pull-Up Jack Pine. Residual BA: White pine = 1 sq.ft./acre. See also FTP C41-1351 (jack pine regeneration.)<br>[8-26-09] sale completed TCR dtd 8-26-09. Regen will be checked during next inventory cycle for YOE 2018.<br>[9/25/10] Received completion report for scarification on 62 acres at $54/acre. Needs regeneration check in 2013.<br>Regen survey 2015 fall. 396 TPA needs replant. check again in 2016, still needs replant.<br>Replanted summer 2016 to jack pine. Needs regen check. |
| **401** | 3303 - Mixed Low Density Trees | 3.4 | No | 2008: Small grassy opening, filling in with trees (w.pine, w.spruce, cherry and b.fir). |
| **402** | 3303 - Mixed Low Density Trees | 29.8 | No | |
| **403** | 3303 - Mixed Low Density Trees | 10.6 | No | 2008: Small grassy opening filling in with trees. |
| **404** | 3102 - Grass | 1.7 | No | OPIC - FMD: Small grassy opening filling in with trees. Habitat Type = PVE soil=Kalkaska sand, 1-6% slopes, burned |
| **405** | 3303 - Mixed Low Density Trees | 21.7 | No | |

| Stand | Cover Type | Acres | Managed Site | General Comments: |
|---|---|---|---|---|
| **406** | 3303 - Mixed Low Density Trees | 73.1 | No | OPIC - FMD: Large grassy opening. Rolling terrain. Scattered trees: w.pine, cherry, w.spruce, aspen. Habitat Type = PVE soil=Kalkaska sand, 6-15% slopes, burned |