



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41115

Entry Year 2019

Acreage: 1,584

County Schoolcraft

Management Area: Bullock Ranch

Revision Date: 2017-02-08

Stand Examiner: Scott Kentner

Legal Description:

T46N, R13W, Sec. 31, 32; T45N, R13W, Sec. 5, 6

Identified Planning Goals:

To maintain the large opening complexes for a suite of wildlife species dependant upon this type of habitat; and to provide sustainable forest eco-system management.

Soil and topography:

The majority of the compartment is low, marshy ground with ridges of pine. The soil types for the ridges are mainly Deford-Rubicon mixes; while the soil types for the low ground are mainly drained Marky-Deford Mucks or Carbondale, Lupton and Tawas soils.

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

The Seney National Wildlife Refuge borders the south side of the compartment; the town of Seney is in the Northeast of the compartment, and the remainder of the compartment is bordered by state owned land.

Unique Natural Features:

Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features:

Man-made ditches exist where swamp drainage was attempted for farming.

Special Management Designations or Considerations:

HCVA - Fox River

Watershed and Fisheries Considerations:

The Fox River is found on the eastern border of this compartment. The Fox River supports good natural reproduction of brook trout and provides excellent nursery habitat for young fish. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

This compartment lies immediately south and west of the village of Seney. Important features include M-28 on the north the Fox River and M-77 on the east. Clark Ditch empties into Townline Ditch within this compartment. Pre-settlement data show tamarack and spruce as the dominant timber types within this area. A small amount of cedar was also present. Landforms higher above the water table appear to have contained red pine and red maple. Likely due to lowering of the water table associated with Clark and Townline ditches, the current dominant forest species are red pine and jack pine.

The wildlife habitat management objectives for this compartment include protecting the lowland systems and providing age class and structural diversity between upland conifer stands.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica Shale subcrops below the glacial drift. The Utica does not have a current economic use. Gravel pits are not found in the area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

The majority of the compartment is low, wet ground with large islands of pine trees, and is without roads.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

There are no developed DNR recreational facilities within the compartment; but the area is used for hunting.

Fire Protection:

This compartment lies almost entirely within the Fox River Zone Dispatch Area. Lack of roads in most of the compartment makes access to fires difficult.

Additional Compartment Information:

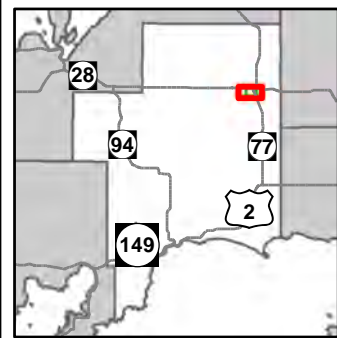
The following reports from the Inventory are attached:

- 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:

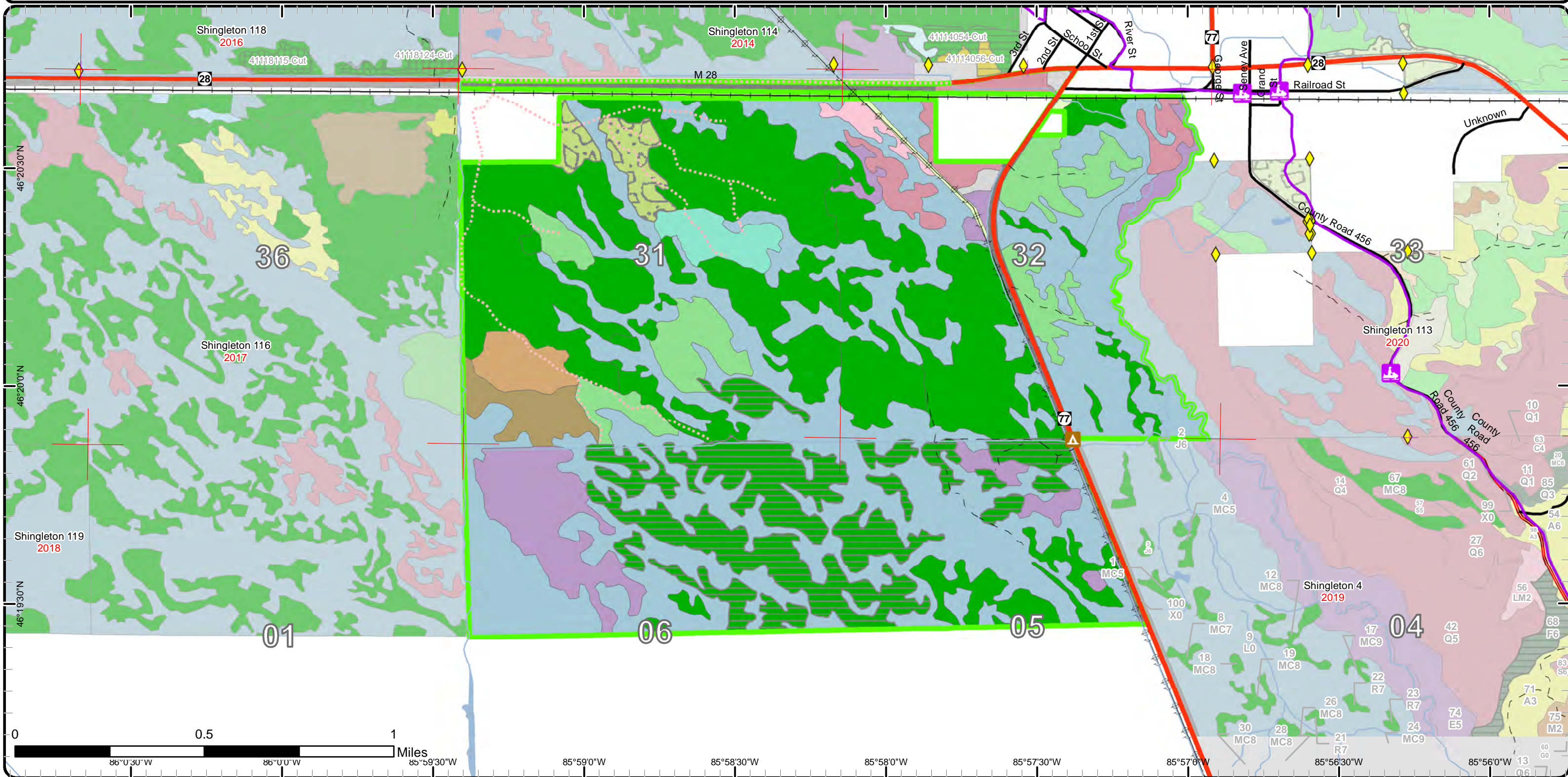
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

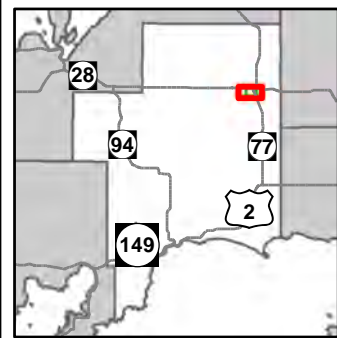


Compartment: 115
 T46N, R13W, Sec: 31, 32
 T45N, R13W, Sec: 6, 5
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2019
 Acres: 1584.1 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 8/23/2017
 Map Phase: Review

- | | | |
|--------------------------------|-----------------------------------|-----------------------------------|
| — Miris Corners | — Active Railroads | ■ 310 - Herbaceous Openland |
| — Remonumented Section Corners | — Streams | ■ 320 - Upland Shrub |
| ◆ Survey Grade GPS Corners | ■ Lakes and Rivers All | ■ 622 - Lowland Shrub |
| — Counties | — Powerline | ■ Lakes |
| ▲ Campground | — Compartment Boundary | ■ 411 - Northern Hardwood |
| — Snowmobile Trails | — 411 - Northern Hardwood | ■ 421 - Planted Pines |
| — Designated Snowmobile Trails | — 421 - Planted Pines | ■ 422 - Natural Pines |
| — Highway | — 422 - Natural Pines | ■ 429 - Mixed Upland Conifers |
| — Paved Roads | — 429 - Mixed Upland Conifers | ■ 430 - Upland Mixed Forest |
| — County Gravel Roads | — 430 - Upland Mixed Forest | ■ 611 - Lowland Deciduous Forest |
| — Gravel Roads | — 611 - Lowland Deciduous Forest | ■ 612 - Lowland Coniferous Forest |
| — Poor Dirt Roads | — 612 - Lowland Coniferous Forest | ■ 613 - Lowland Mixed Forest |
| — Closed | — 613 - Lowland Mixed Forest | ■ 110 - Low Intensity Urban |
| | — 110 - Low Intensity Urban | ■ 122 - Roads/Parking Lot |

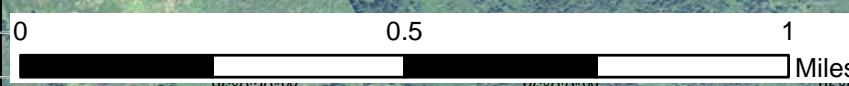
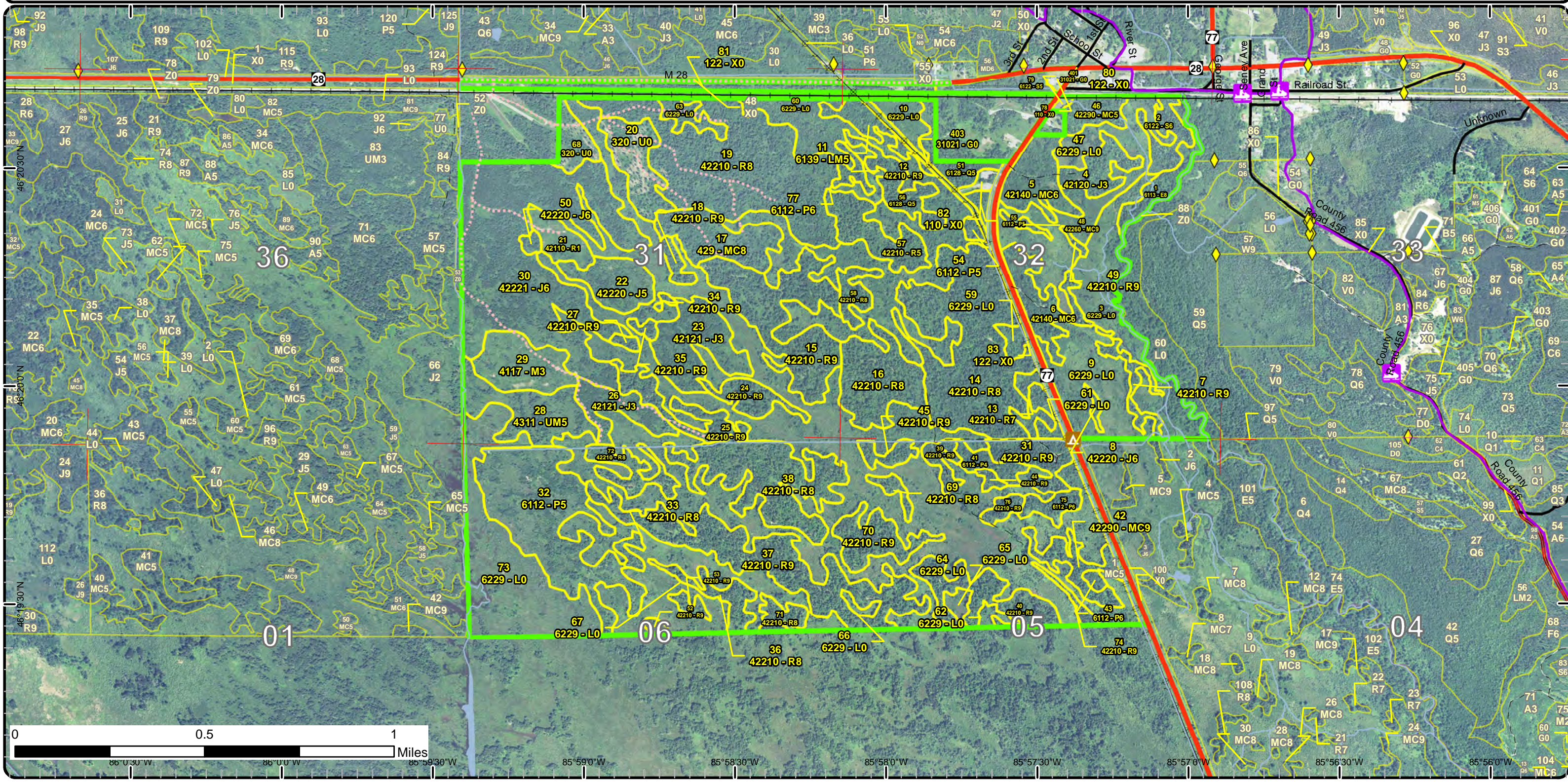


Stand Boundary Map



Compartment: 115
 T46N, R13W, Sec: 31, 32
 T45N, R13W, Sec: 6, 5
 County: Schoolcraft
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 YOE: 2019
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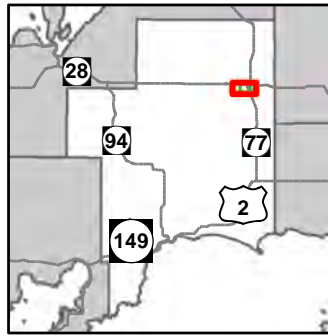
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Counties
- Campground
- Snowmobile Trails
- Designated Snowmobile Trails
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed
- Active Railroads
- Streams
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub



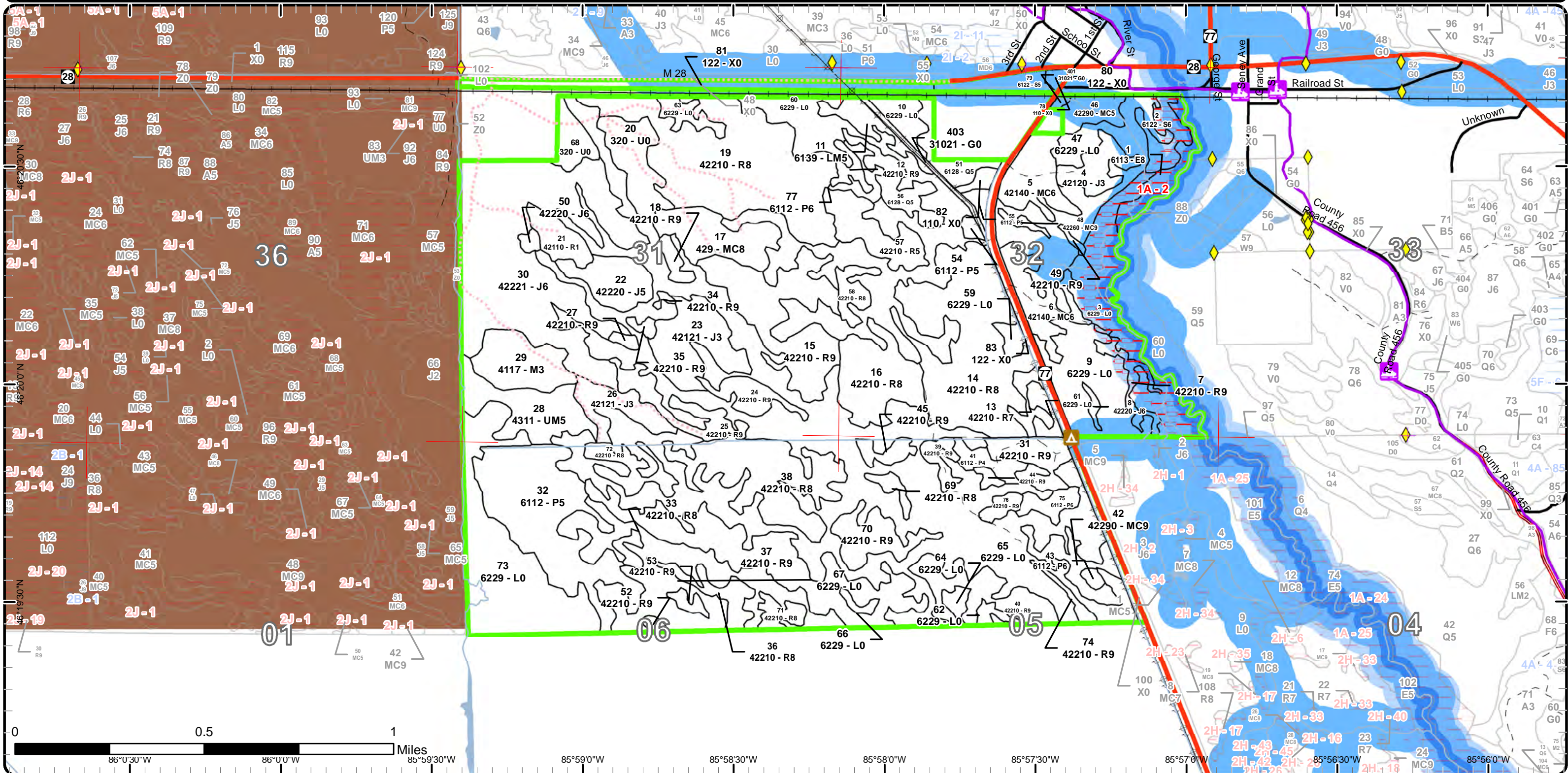
86°0'30"W 86°0'0"W 85°59'30"W 85°59'0"W 85°58'30"W 85°58'0"W 85°57'30"W 85°57'0"W 85°56'30"W 85°56'0"W

Special Conservation Areas & Site Conditions Map

Compartment: 115
T46N, R13W, Sec: 31, 32
T45N, R13W, Sec: 6, 5
County: Schoolcraft
Unit: Shingleton
Mgmt Area: Bullock Ranch
YOE: 2019
Acres: 1584.1 GIS Calculated
Examiner: Scott Kentner
Map Revised: 8/23/2017
Map Phase: Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Counties
- Campground
- Snowmobile Trails
- Designated Snowmobile Trails
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed
- Active Railroads
- Streams
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Unavailable
- 1A: Federal/State/Local Law
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas



Report 1 – Total Acres by Cover Type and Age Class



Age Class

| | Non-Forest | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150+ | Uneven-Aged | Total |
|-----------------------------|------------|----------|-----------|------------|-----------|-----------|-----------|------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|
| Herbaceous Openland | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Jack Pine | 0 | 0 | 0 | 167 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170 |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 0 | 58 | 13 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 12 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 |
| Lowland Shrub | 599 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 599 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 8 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Northern Hardwood | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Planted Mixed Pines | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| Red Pine | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 351 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 487 |
| Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Upland Mixed Forest | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Upland Shrub | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Urban | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| Total | 673 | 0 | 29 | 282 | 23 | 17 | 41 | 386 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 1586 |



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 115
Total Compartment Acres: 1,584

Commercial Harvest - 169
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 |
|----------|--------------|------------|-----------|----------------|-----------|-------------|----------|-------------------|----------|----------|-------------|
| Red Pine | | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 169 |
| | Total | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 169 |

Proposed and Next Step Treatments by Method

| | | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|-----------|--------------|------------|------------|------------|----------|----------|------------|------------|----------|-----------------|-------------|
| Current | | 169 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 194 |
| Next Step | | 0 | 338 | 338 | 0 | 0 | 169 | 363 | 0 | 0 | 1208 |
| | Total | 169 | 338 | 338 | 0 | 0 | 169 | 389 | 0 | 0 | 1402 |



| 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 |
|-----------------------|------------------|-------|--------------------|--------------|-----------|-------------|----------------|-----------------------|-------------------------|---------------|----------------------|
| 20 | 41115020-Monitor | 17.3 | 320 - Upland Shrub | Nonstocked | 0 | Unspecified | Monitoring | Artificial Regen(1yr) | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**PrescriptionSpecs:Next Step ; Monitoring, Artificial Regen(3yr)Treatments:Acceptable Red pineRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 06/15/2017

| | | | | | | | | | | | |
|----|--------------|-----|--------------------------|----------------|----|--------|---------|-------------------------|-------------------------|-----------|----------|
| 24 | 41115024-Cut | 8.6 | 42210 - Natural Red Pine | Sawtimber Well | 65 | 81-110 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|-----|--------------------------|----------------|----|--------|---------|-------------------------|-------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**Prescription Clearcut with Retention: Cut all trees within stand down to 2". Follow retention guidelines.Specs:Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring,Treatments: Artificial Regen(3yr); Pesticide, Skidder/MechanicalAcceptable red pineRegen:OtherComment:Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|--------------------------|----------------|----|--------|---------|-------------------------|-------------------------|-----------|----------|
| 31 | 41115031-Cut | 11.6 | 42210 - Natural Red Pine | Sawtimber Well | 67 | 81-110 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|------|--------------------------|----------------|----|--------|---------|-------------------------|-------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**Prescription Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines.Specs:Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Planting, Replant; Monitoring,Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)Acceptable red pineRegen:OtherComment:Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|--------------------------|------------------|----|------|---------|-------------------------|-------------------------|-----------|----------|
| 33 | 41115033-Cut | 2.8 | 42210 - Natural Red Pine | Sawtimber Medium | 72 | 1-50 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|-----|--------------------------|------------------|----|------|---------|-------------------------|-------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**Prescription Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines.Specs:Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Planting, Replant; Monitoring,Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)Acceptable Red pineRegen:OtherComment: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 |
|-----------------------|----------------|-------|--------------------------|------------------|-----------|----------|----------------|-------------------------|-------------------------|---------------|-----------------|
| 36 | 41115036-Cut | 8.5 | 42210 - Natural Red Pine | Sawtimber Medium | 69 | 51-80 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |

Habitat Cut: No**Site Condition:**

Prescription Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring,
Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|--------------------------|----------------|----|-------|---------|-------------------------|-------------------------|-----------|----------|
| 37 | 41115037-Cut | 50.3 | 42210 - Natural Red Pine | Sawtimber Well | 69 | 51-80 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|------|--------------------------|----------------|----|-------|---------|-------------------------|-------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring,
Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|--------------------------|------------------|----|-------|---------|-------------------------|-------------------------|-----------|----------|
| 38 | 41115038-Cut | 40.5 | 42210 - Natural Red Pine | Sawtimber Medium | 73 | 51-80 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|------|--------------------------|------------------|----|-------|---------|-------------------------|-------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring,
Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|--------------------------|----------------|----|---------|---------|-------------------------|-------------------------|-----------|----------|
| 39 | 41115039-Cut | 4.6 | 42210 - Natural Red Pine | Sawtimber Well | 75 | 111-140 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|-----|--------------------------|----------------|----|---------|---------|-------------------------|-------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring,
Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Red pine

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 |
|---|----------------------|-------|-----------------------------|---------------------|--------------|-----------------|-------------------|----------------------------|----------------------------|------------------|-------------------------|
| 44 | 41115044-Cut | 1.6 | 42210 - Natural Red Pine | Sawtimber Well | 75 | 81-110 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: | | | | | | | | |
| <u>Prescription</u> Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring, | | | | | | | | | | | |
| <u>Treatments:</u> Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) | | | | | | | | | | | |
| <u>Acceptable</u> Red Pine | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 45 | 41115045-Cut | 4.4 | 42210 - Natural Red Pine | Sawtimber Well | 65 | 1-50 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: | | | | | | | | |
| <u>Prescription</u> Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring, | | | | | | | | | | | |
| <u>Treatments:</u> Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) | | | | | | | | | | | |
| <u>Acceptable</u> Red pine | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 68 | 41115068- Monitor | 8.2 | 320 - Upland Shrub | Nonstocked | 0 | Unspec ified | Monitoring | Artificial Regen(1yr) | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |
| Habitat Cut: No | | | Site Condition: | | | | | | | | |
| <u>Prescription</u> | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> ; Monitoring, Artificial Regen(3yr) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Red pine | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> Percent to Treat = 100% | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 06/15/2017 | | | | | | | | | | | |
| 69 | 41115069-Cut | 3.1 | 42210 - Natural Red Pine | Sawtimber Medium | 73 | 1-50 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: | | | | | | | | |
| <u>Prescription</u> Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring, | | | | | | | | | | | |
| <u>Treatments:</u> Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) | | | | | | | | | | | |
| <u>Acceptable</u> Red pine | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 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 |
|-----------------------|-------------------|-------|-----------------------------|-------------------|--------------|-------------|-------------------|----------------------------|----------------------------|------------------|--------------------|
| 70 | 41115070-Cut | 14.5 | 42210 - Natural Red Pine | Sawtimber Well | 71 | 51-80 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |

Habitat Cut: No**Site Condition:**

Prescription Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring,
Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|-----------------------------|---------------------|----|-------|---------|----------------------------|----------------------------|-----------|----------|
| 71 | 41115071-Cut | 5.2 | 42210 - Natural Red Pine | Sawtimber Medium | 71 | 51-80 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|-----|-----------------------------|---------------------|----|-------|---------|----------------------------|----------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Clear-cut with Retention: Remove all a trees down to 2". Follow retention guidelines.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring,
Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|-----------------------------|---------------------|----|-------|---------|----------------------------|----------------------------|-----------|----------|
| 72 | 41115072-Cut | 9.9 | 42210 - Natural Red Pine | Sawtimber Medium | 71 | 51-80 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|-----|-----------------------------|---------------------|----|-------|---------|----------------------------|----------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring,
Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|-----------------------------|-------------------|----|--------|---------|----------------------------|----------------------------|-----------|----------|
| 76 | 41115076-Cut | 3.3 | 42210 - Natural Red Pine | Sawtimber Well | 75 | 81-110 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|-----|-----------------------------|-------------------|----|--------|---------|----------------------------|----------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Clearcut with Retention: Remove all trees down to 2". Follow retention guidelines.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder/Mechanical; Monitoring,
Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 194.4**

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Scott Kentner : Examiner

Compartment: 115
 Year of Entry: 2019

Availability for Management

| Total Acres | Acres Available | Acres Available With Condition | Acres Not Available | Dominant Site Conditions | |
|-------------|-----------------|--------------------------------|---------------------|-----------------------------|----|
| 5 | 5 | 0 | 0 | Herbaceous Openland | |
| 170 | 170 | 0 | 0 | Jack Pine | |
| 80 | 80 | 0 | 0 | Lowland Aspen/Balsam Poplar | |
| 20 | 20 | 0 | 0 | Lowland Conifers | |
| 10 | 0 | 0 | 10 | Lowland Deciduous | 10 |
| 8 | 8 | 0 | 0 | Lowland Mixed Forest | |
| 599 | 562 | 0 | 37 | Lowland Shrub | 37 |
| 17 | 10 | 0 | 7 | Lowland Spruce/Fir | 7 |
| 21 | 21 | 0 | 0 | Natural Mixed Pines | |
| 20 | 20 | 0 | 0 | Northern Hardwood | |
| 33 | 33 | 0 | 0 | Planted Mixed Pines | 0 |
| 487 | 483 | 0 | 4 | Red Pine | 4 |
| 21 | 21 | 0 | 0 | Upland Conifers | |
| 24 | 24 | 0 | 0 | Upland Mixed Forest | |
| 26 | 26 | 0 | 0 | Upland Shrub | |
| 43 | 43 | 0 | 0 | Urban | |
| 1,584 | 1,527 | | 58 | Total Forested Acres | 58 |
| | 96% | | 4% | 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 |
|---|---------------------------------|-----------------------------|-------|----------------------|----------------------|----------------------|----------------------|
| 2 | Unavailable | 1A: Federal/State/Local Law | 58 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Fox River Natural River | | | | | | | |

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 |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

Comments



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 | 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. |
| HCVA | Natural Rivers | There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder. |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|-----------------------------|-------------------|-------|-----------|----------|---|
| 1 | 6113 - Lowland Maple | Sawtimber Medium | 9.8 | 51 | 51-80 | HCVA - Natural River, Fox River. Low, wet area next to the Fox River, flood plains. |
| 2 | 6122 - Black Spruce | Poletimber Well | 9.5 | 56 | 81-110 | HCVA - Natural River, Fox River. |
| 4 | 42120 - Planted Jack Pine | Sapling Well | 11.0 | 20 | Immature | Planted to Jack Pine, with other natural regeneration (r.pine, w.pine, b.spruce, aspen). Scattered large Red and White Pine. |
| 5 | 42140 - Planted Mixed Pine | Poletimber Well | 16.9 | 20 | Immature | Planted to red pine. Low, flat areas have regenerated to aspen. Scattered large red & white pine. M-77 is west boundary of stand. |
| 6 | 42140 - Planted Mixed Pine | Poletimber Well | 16.1 | 20 | Immature | Planted to red pine; some areas with natural regeneration - j.pine and b.spruce. Lower, flat areas have regenerated to aspen. Scattered red and white pine. M-77 is west boundary of stand. |
| 7 | 42210 - Natural Red Pine | Sawtimber Well | 6.5 | 67 | 81-110 | HCVA - Natural River, Fox River. Small island chain in a large marsh near the Fox River. |
| 8 | 42220 - Natural Jack Pine | Poletimber Well | 1.4 | 53 | 51-80 | Small flat area with trees in a large marsh. Visible from M-77. |
| 11 | 6139 - Mixed Lowland Forest | Poletimber Medium | 7.8 | 40 | 81-110 | Adjacent to the railroad and the powerline; near M-28. Low, wet area with red pine and aspen. |
| 12 | 42210 - Natural Red Pine | Sawtimber Well | 3.7 | 63 | 51-80 | Thinned last entry. Regeneration is aspen, maple and spruce on the flatter terrain; and red, white, and jack pine on the ridges. |
| 13 | 42210 - Natural Red Pine | Sawtimber Poor | 4.2 | 64 | 1-50 | Thinned last entry - BA varies, but is generally sparse. Regeneration is mainly aspen and maple. Next to M-77. |
| 14 | 42210 - Natural Red Pine | Sawtimber Medium | 71.8 | 64 | 51-80 | Thinned in past- variable BA 20-90. Flat areas with tall brush and aspen & maple regeneration; ridges with blueberry and pine regeneration. |
| 15 | 42210 - Natural Red Pine | Sawtimber Well | 42.0 | 65 | 51-80 | Cut apx. 1997. Old roads have pine regeneration. Flat ground vegetated by tall brush and aspen regeneration. |
| 16 | 42210 - Natural Red Pine | Sawtimber Medium | 26.8 | 65 | 51-80 | Thinned last entry - BA varries from 20 to 90. |
| 17 | 429 - Mixed Upland Conifers | Sawtimber Medium | 21.5 | 67 | 1-50 | Cut apx. 1996. Mainly flat ground with tall brush and dense grass/sedge. Red and White Pine are widely spaced. Old roads have JP regeneration. |
| 18 | 42210 - Natural Red Pine | Sawtimber Well | 3.5 | 67 | 51-80 | Cut apx. 1997. Flat ground with tall brush and aspen regeneration; higher ground with blueberry and pine regeneration. |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|--|-------------------|-------|-----------|----------|---|
| 19 | 42210 - Natural Red Pine | Sawtimber Medium | 82.2 | 65 | 81-110 | Thinned apx 1997; BA is variable from 30-90. Low ground with aspen regeneration and tall brush; higher ground with blueberry and some pine regeneration in the old roads. Low, wet areas throughout. |
| 21 | 42110 - Planted Red Pine | Sapling Poor | 9.1 | 13 | Immature | [8-25-06] 1116 red pine/acre were handplanted by Dept. of Corrections under FTP C41-922 - partial FTP completion dtd 6-16-06. Schedule survival check for 2007. [5/11/07 km] Survival check with D.Kuhr: zero planted trees were found (none either dead or alive). Don is planning to plant this stand in fall 07 or spring 08. Higher ground has blueberry/sedge; lower ground has thick sedge and tall brush. [6/1/09] Area was planted with summer students. 1st year regen check needed in 2010 [10-18-10] 2010 regen check 286 rp T/A. May need additional work. The ridges of stand 21 are at 900T/A the numbers are high because the trees were planted quite close. The low areas are a mix of lowland brush with some scattered trees these areas are below 600 t/a. Judging by the photo from 1998 these areas are regenerating to a similar condition. Close the FTP at this point, as regeneration is successful. (9/13RH) |
| 22 | 42220 - Natural Jack Pine | Poletimber Medium | 15.1 | 22 | Immature | Ridges with more jack pine; lower ground with more brush. |
| 23 | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Well | 24.3 | 24 | Immature | Planted to jack pine; natural regeneration includes red pine, white pine and aspen. |
| 24 | 42210 - Natural Red Pine | Sawtimber Well | 8.6 | 65 | 81-110 | Ridges of red pine in a marsh. Regeneration is red pine, white pine and b.spruce. |
| 25 | 42210 - Natural Red Pine | Sawtimber Well | 13.1 | 65 | 81-110 | Narrow ridges of red pine. Regeneration consists of red pine, white pine, jack pine and b.spruce. |
| 26 | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Well | 12.3 | 28 | Immature | Regenerating to a mix of jack pine and aspen, with a few red and white pine. Higher ground has blueberry, lower ground has thick sedge and tall brush. |
| 27 | 42210 - Natural Red Pine | Sawtimber Well | 1.5 | 65 | 81-110 | Small, high knob of red pine. |
| 28 | 4311 - Pine, Aspen Mix | Poletimber Medium | 23.8 | 29 | Immature | Regenerating to a mix of trees: mainly aspen with some jack pine and a few red and white pine. Higher ground has blueberry; lower ground has thick sedge and tall brush. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|----------------------|-------|--------------|-------------|--|
| 29 | 4117 - Mixed N. Hardwood - Pine | Sapling Well | 20.2 | 17 | Immature | Cut under sale #032-99. FTP C41-922: no regeneration work was done. [5/11/07 km] Walk through regen check with D.Kuhr. Natural regen is sparse (aspen, red pine, jackpine); Don is planning to plant this stand in fall 07 or spring 08. Higher ground has blueberry; lower ground has thick sedge and tall brush. [6/1/09] Area was planted with summer students. 1st year regen check needed in 2010 [10-18-10] 2010 regen check 460 rp T/A. May need additional work. The ridges in stand 29 are lower but are still at 700 t/a because the trees were planted quite close. The low areas are a mix of lowland brush with some scattered trees these areas are below 600 t/a. Judging by the photo from 1998 these areas are regenerating to a similar condition. Close the FTP at this point, as regeneration is successful. (RH9/13) |
| 30 | 42221 - Natural Jack Pine, Mixed Deciduous | Poletimber Well | 104.7 | 22 | Immature | North part of stand is higher ground and has more JP, while south 1/2 has some lower areas and more aspen and Black spruce. Overall a JP stand. |
| 31 | 42210 - Natural Red Pine | Sawtimber Well | 11.6 | 67 | 81-110 | Near M-77. |
| 32 | 6112 - Lowland Aspen | Poletimber Medium | 58.2 | 21 | Immature | Cut between 1993-1996 as sale #047-91, with an FTP for prescribed burn (C41-604). [1-29-04 RFT] FTP cancelled. Areas that can regenerate already have. [5/11/07 km] Walk through regen check with D.Kuhr. Some of the higher ground has naturally regenerated to jack pine with aspen, red pine and white pine. The higher ground has blueberry; the lower ground (majority) has thick sedge and tall brush. Very difficult access; surrounded by low, wet areas and ditches. |
| 33 | 42210 - Natural Red Pine | Sawtimber Medium | 2.8 | 72 | 1-50 | Ridges of pine, thinned last entry. Variable BA 20-90. |
| 34 | 42210 - Natural Red Pine | Sawtimber Well | 0.8 | 65 | 81-110 | Small, high knob of red pine. |
| 35 | 42210 - Natural Red Pine | Sawtimber Well | 1.7 | 65 | 81-110 | Small, high knob of red pine. |
| 36 | 42210 - Natural Red Pine | Sawtimber Medium | 8.5 | 69 | 51-80 | Ridges of pine, thinned last entry. BA varriable from 20-90. |
| 37 | 42210 - Natural Red Pine | Sawtimber Well | 50.3 | 69 | 51-80 | Ridges of pine, thinned last entry. Variable BA 20-90. |
| 38 | 42210 - Natural Red Pine | Sawtimber Medium | 40.5 | 73 | 51-80 | Ridges of pine, thinned last entry. Variable BA 20-90. |
| 39 | 42210 - Natural Red Pine | Sawtimber Well | 4.6 | 75 | 111-140 | Blueberry on ridges; med/tall brush in lower areas. |
| 40 | 42210 - Natural Red Pine | Sawtimber Well | 20.7 | 76 | 81-110 | Thinned apx. 2000; BA variable - from 20-90. Great Regen within old roads from thinning. |



| Stand | Shingleton Mgt. Unit | | Report 7 – Forested Stands | | | Compartment: 115 Year of Entry: 2019 |
|-------|--|----------------------|----------------------------|--------------|-------------|---|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 41 | 6112 - Lowland Aspen | Poletimber Poor | 6.2 | 37 | 51-80 | Low, wet ground with scattered trees. |
| 42 | 42290 - Natural Mixed Pine | Sawtimber Well | 11.5 | 67 | 51-80 | Near M-77. Ridges of pine in a marsh. Flat areas have aspen regeneration; higher ground has pine regeneration in the old roads. |
| 43 | 6112 - Lowland Aspen | Poletimber Well | 1.5 | 37 | 1-50 | Aspen with a few scattered pine trees. Many trees are still 2-4" DBH. |
| 44 | 42210 - Natural Red Pine | Sawtimber Well | 1.6 | 75 | 81-110 | Ridges of red pine. Regeneration is a mix of aspen and r.maple with some red pine, white pine and b.spruce. |
| 45 | 42210 - Natural Red Pine | Sawtimber Well | 4.4 | 65 | 1-50 | Thinned apx. 2000. |
| 46 | 42290 - Natural Mixed Pine | Poletimber Medium | 8.2 | 52 | 51-80 | Railroad ROW is north boundary, and it is near M-77. Low, wet ground with a few small ridges. There is an intermittent drain through the stand. Species composition and BA varies throughout. |
| 48 | 42260 - Natural Pine, Mixed Deciduous | Sawtimber Well | 1.6 | 67 | 51-80 | Small, narrow ridge in a large marsh; visible from M-77. |
| 49 | 42210 - Natural Red Pine | Sawtimber Well | 1.0 | 67 | 51-80 | Small, narrow ridge in a large marsh. |
| 50 | 42220 - Natural Jack Pine | Poletimber Well | 1.7 | 37 | 81-110 | JP are about 2-3 sticks tall |
| 51 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Medium | 8.4 | 54 | 111-140 | Between the powerline and the railroad, near M-28 and M-77. Low, wet ground with scattered trees and tall brush. |
| 52 | 42210 - Natural Red Pine | Sawtimber Well | 1.2 | 69 | 51-80 | Small knoll of pine, adjacent to SNWR. |
| 53 | 42210 - Natural Red Pine | Sawtimber Well | 2.4 | 69 | 51-80 | Ridges of pine, thinned last entry. BA varriable from 20-90. |
| 54 | 6112 - Lowland Aspen | Poletimber Medium | 1.7 | 52 | 81-110 | Low, wet area with scattered trees. Near the powerline and M-77. |
| 55 | 6112 - Lowland Aspen | Poletimber Medium | 2.3 | 56 | 81-110 | Near the powerline and M-77. Low, wet ground with scattered trees. |
| 56 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Medium | 11.8 | 40 | 51-80 | Chain of ridges in a large marsh. Higher ground with blueberry, lower ground with med-tall brush. |
| 57 | 42210 - Natural Red Pine | Poletimber Medium | 16.9 | 65 | 51-80 | Thinned last entry - BA is variable 30-80. Regeneration on the lower ground consists of aspen and spruce; regeneration on the higher ground consists of j.pine, r.pine, and w.pine. |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|--------------------------|-------------------|-------|-----------|----------|---|
| 58 | 42210 - Natural Red Pine | Sawtimber Medium | 6.5 | 64 | 51-80 | Thinned last entry - BA varies from 30-80. Regeneration consists of r.pine and w.pine on the higher ground and aspen, spruce and r.maple on the lower ground. |
| 69 | 42210 - Natural Red Pine | Sawtimber Medium | 3.1 | 73 | 1-50 | Ridges of pine, thinned last entry. Variable BA 20-90. |
| 70 | 42210 - Natural Red Pine | Sawtimber Well | 14.5 | 71 | 51-80 | Ridges of pine, thinned last entry. Variable BA 20-90. |
| 71 | 42210 - Natural Red Pine | Sawtimber Medium | 5.2 | 71 | 51-80 | Ridges of pine, thinned last entry. Variable BA 20-90. |
| 72 | 42210 - Natural Red Pine | Sawtimber Medium | 9.9 | 71 | 51-80 | Ridges of pine, thinned last entry. Variable BA 20-90. |
| 74 | 42210 - Natural Red Pine | Sawtimber Well | 2.6 | 67 | 51-80 | Narrow ridge of pine in a large marsh. Adjacent to SNWR. Regeneration is mainly aspen. |
| 75 | 6112 - Lowland Aspen | Poletimber Well | 5.5 | 37 | 51-80 | Low, wet ground with scattered trees. Near M-77. |
| 76 | 42210 - Natural Red Pine | Sawtimber Well | 3.3 | 75 | 81-110 | Ridges of red pine. Regeneration is a mix of aspen and r.maple with some red pine, white pine and b.spruce. |
| 77 | 6112 - Lowland Aspen | Poletimber Well | 4.7 | 45 | 81-110 | Low, wet area with a large clone of aspen. Near the railroad and M-28. |
| 79 | 6122 - Black Spruce | Poletimber Medium | 7.5 | 30 | 51-80 | West of Seney Office. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|----------------------------|-------|--------------|---|
| 3 | 6229 - Mixed lowland shrub | 38.0 | No | HCVA - Natural River, Fox River. Large low, wet area with scattered trees. |
| 9 | 6229 - Mixed lowland shrub | 32.5 | No | Low, wet area adjacent to M-77. Tall brush with scattered trees. |
| 10 | 6229 - Mixed lowland shrub | 7.2 | No | At intersection of powerline and railroad, near M-28. Low, wet, and brushy; with a few scattered trees. |
| 20 | 320 - Upland Shrub | 17.3 | | Thinned apx. 1997. [11-04-10] Stand is now under contract TS# 41-031-09-01 Bear Bait. Residual BA-red pine = 24 sq.ft./acre. See FTP's C41-1442 (red pine regeneration) and W41-1459 (oak underplanting.) [05-01-12] Sale is completed TCR dtd 04/30/12. Trenched 6/1/16. Planted spring 2017 |
| 47 | 6229 - Mixed lowland shrub | 43.5 | No | Low, wet ground with tall brush and scattered clumps of trees. A portion of the stand is adjacent to M-77. |
| 59 | 6229 - Mixed lowland shrub | 3.2 | No | Low, wet area near M-77. A few scattered trees. |
| 60 | 6229 - Mixed lowland shrub | 83.5 | No | Low, wet area with tall brush and a few scattered trees. Near the railroad and M-28. |
| 61 | 6229 - Mixed lowland shrub | 5.1 | No | Low, wet area near M-77. A few scattered trees. |
| 62 | 6229 - Mixed lowland shrub | 2.4 | No | Low, wet area next to SNWR. |
| 63 | 6229 - Mixed lowland shrub | 5.5 | No | Low, wet area near the railroad and M-28. A few scattered trees. |
| 64 | 6229 - Mixed lowland shrub | 2.8 | No | Low, wet area next to SNWR. |
| 65 | 6229 - Mixed lowland shrub | 260.5 | No | Large marsh extending from M-28 to the Seney National Wildlife Refuge. Med/tall brush with scattered trees. Contains islands of pine. |
| 66 | 6229 - Mixed lowland shrub | 1.7 | No | |
| 67 | 6229 - Mixed lowland shrub | 54.4 | No | Low, wet area with tall brush, in between islands of red pine. Adjacent to SNWR. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|----------------------------|-------|--------------|--|
| 68 | 320 - Upland Shrub | 8.2 | | Thinned apx. 1994. Aspen regeneration in the flat areas. [11-04-10] Stand is now under contract TS# 41-031-09-01 Bear Bait. Residual BA - red pine = 21 sq.ft./acre. See FTP's C41-1442 (red pine regeneration) and W41-1459 (oak underplanting.) [05-01-12] Sale is completed TCR dtd 04/30/12. Site Trenched 6/1/16. Planted spring 2017 |
| 73 | 6229 - Mixed lowland shrub | 58.7 | No | Low, wet area with tall bursh, adjacent to Clark Ditch, with Townline Ditch going through the stand. Borders SNWR. |
| 78 | 110 - Low Intensity Urban | 1.5 | No | Seney Field Office and Parking lot. |
| 80 | 122 - Road/Parking Lot | 1.4 | No | M-28 and M-77 |
| 81 | 122 - Road/Parking Lot | 19.0 | No | Southern part of M-28 and strip of land between M-28 and the railroad. |
| 82 | 110 - Low Intensity Urban | 2.4 | No | Electric substation site. |
| 83 | 122 - Road/Parking Lot | 18.6 | No | M-77 ROW |
| 401 | 31021 - Cool Season Grass | 0.9 | No | Small grassy area at intersection of M-77 and railroad. |
| 403 | 31021 - Cool Season Grass | 3.8 | No | Powerline ROW. |