



# Compartment Review Presentation

## Shingleton Forest Management Unit

Compartment 41140

Entry Year 2019

Acreage: 1,195

County Alger

Management Area: Danaher Kingston Outwash

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**Revision Date:** 2017-07-13

**Stand Examiner:** Mario Molin

**Legal Description:**

: T48N R15W Sections 26, 34-36

**Identified Planning Goals:**

The main goal in this compartment is to conduct multiple resource management for current and future generations.

**Soil and topography:**

The topography in this compartment is rolling with more elevation changes near the streams and rivers. This compartment contains several soil types; Saugatuck sand, which is low to fair natural fertility, white pine and low land hardwoods will grow on this soil; Autrain sand, low in natural fertility, growing yellow birch, beech, maple and hemlock types; Rubicon sand, also low in natural fertility having mainly pine growing on it; and the mucks/peat soils types having the marshes and bogs. The LTS's for this compartment are Munising moraine II in the NW part and Kingston Outwash for the remainder of the compartment.

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

Ownership within the compartment is broken up with private industry lands.

**Unique Natural Features:**

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

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

N/A

**Special Management Designations or Considerations:**

The West Branch of the Fox River is a HCVA for Natural Rivers.

**Watershed and Fisheries Considerations:**

This compartment contains the West Branch of the Fox River and stream reaches of Grass Creek, Loon Creek, and Pelican Creek. There are sufficient areas with spawning gravel to support brook trout in the West Branch, while the above mentioned tributaries support mainly warm-water fisheries. 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 along the Fox River Road north of the village of Seney. Pre-settlement data indicate the virgin forest in this area was a composite of white pine, hemlock, beech, red maple, balsam fir, and yellow birch. Mountain ash was an important component of the understory. Lowlands were dominated by spruce.

The current forests continue to contain white pine in most locations; however, most of the other species have been reduced while red pine has significantly increased.

The wildlife management objectives for this compartment include managing for an age-class, species, and structural diversity with the forested system.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and lacustrine (lake) sand & gravel. 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. Gravel pits are not located in this area, but there could be some potential. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

The Sunrise Grade can be driven through the center of the compartment with a good two-track going to the north or south

for more access. Skid roads have mainly been blocked after timber sales reducing more roads to be developed.

**Survey Needs:**

Unknown at this time.

**Recreational Facilities and Opportunities:**

The snowmobile trail follows the Sunrise Grade east and west with another snowmobile trail going south off the grade. The Fox River Pathway follows the West Branch through most of the compartment.

**Fire Protection:**

Fire response to the area will be slow because there is no real direct route to the area. The areas with the most potential for wildfires are the pine plantations and access is from the south.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

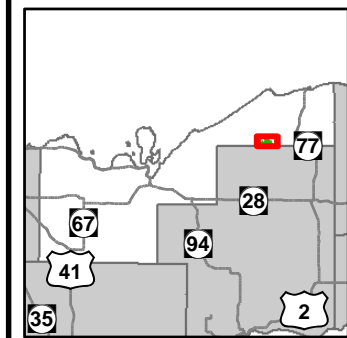
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

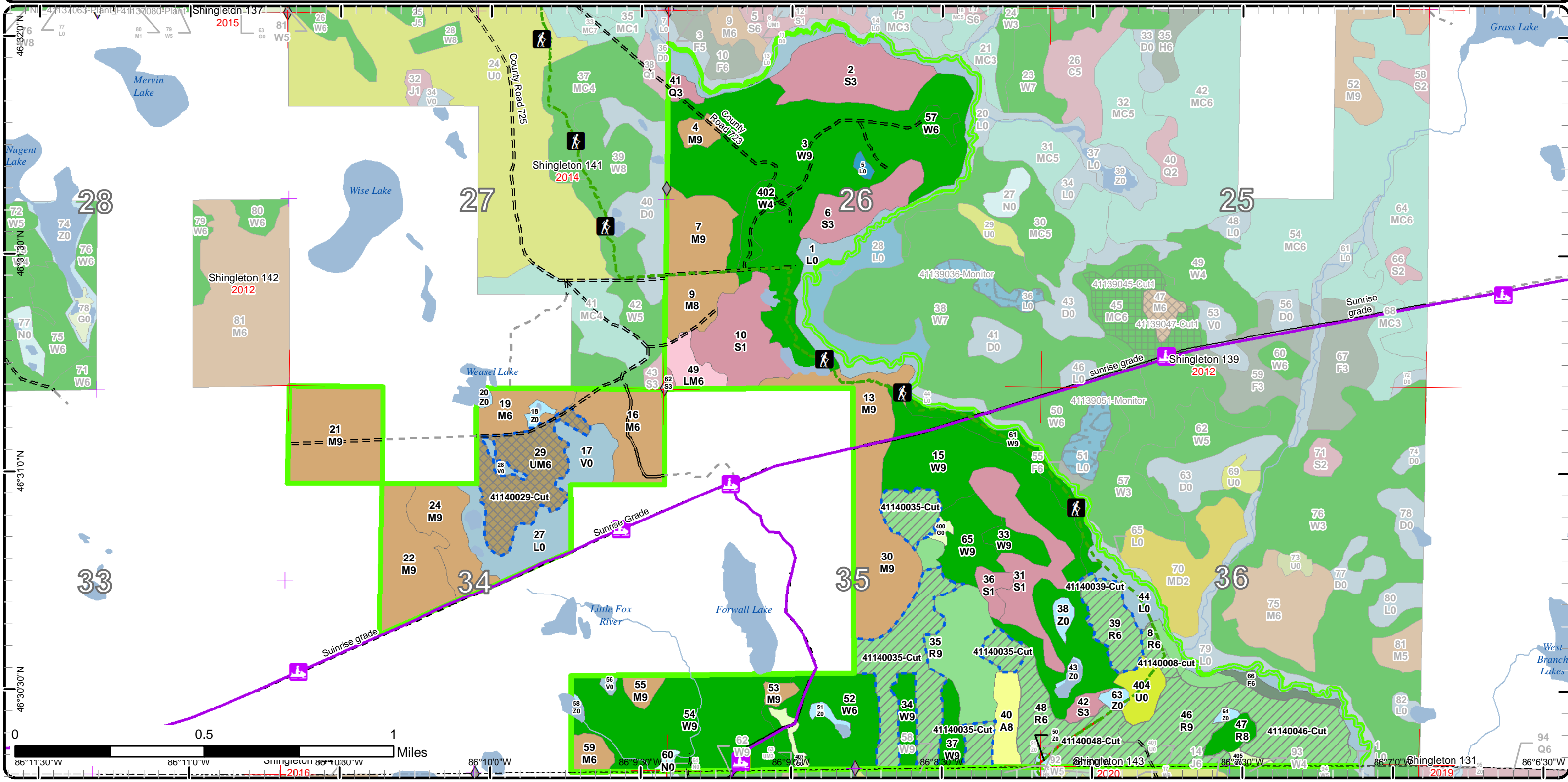
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 140  
 T48N, R15W, Sec: 26, 34-36  
 County: Alger  
 Unit: Singleton  
 Mgmt Area: Danaher Kingston  
 Outwash  
 YOE: 2019  
 Acres: 1,195 GIS Calculated  
 Examiner: Mario Molin  
 Map Revised: 7/30/2018  
 Map Phase: Post Review

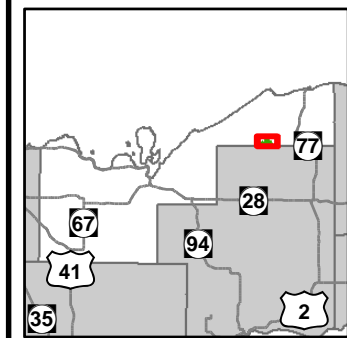


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

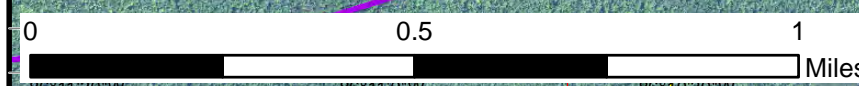
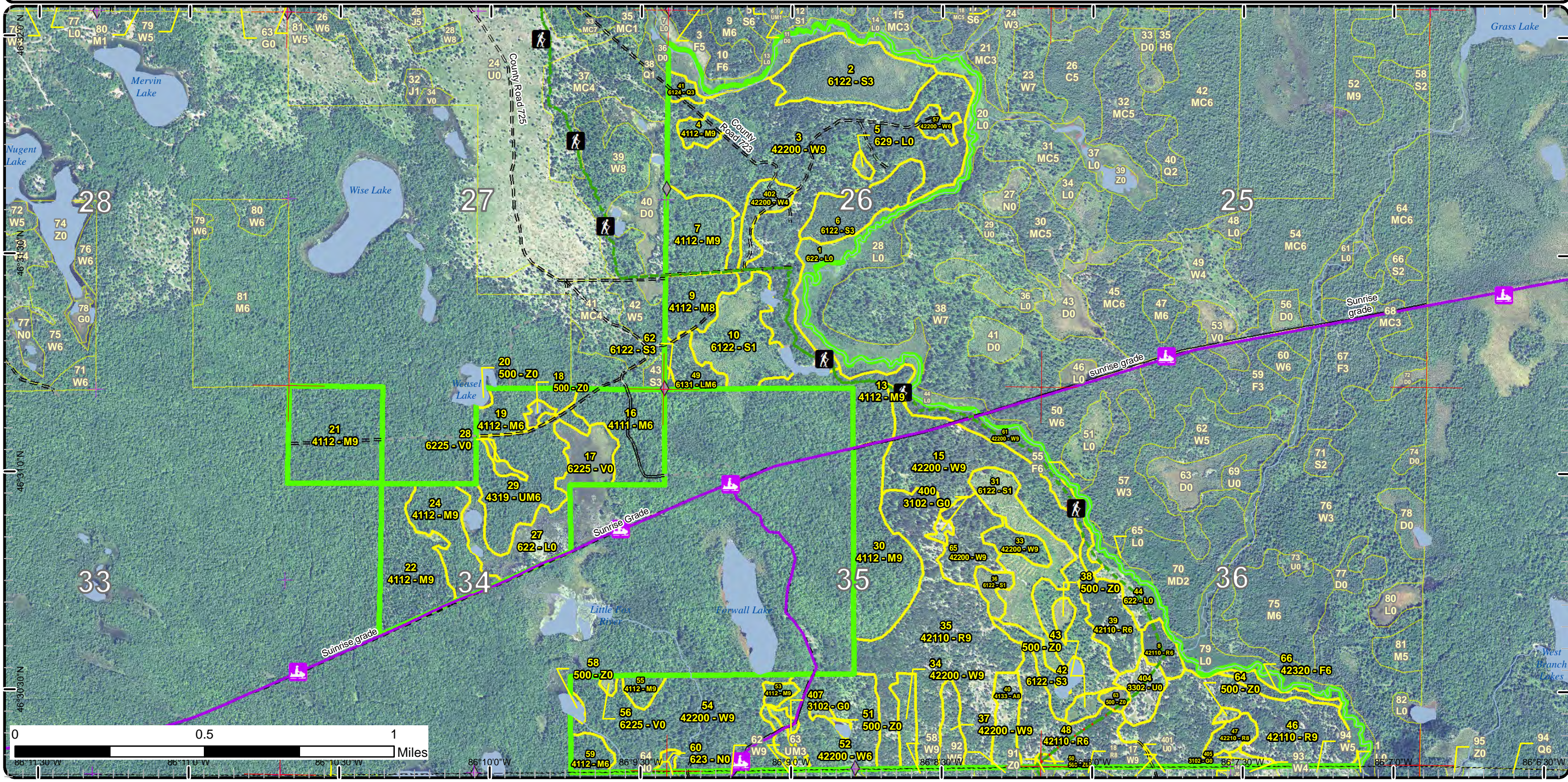


# Stand Boundary Map

Compartment: 140  
 T48N, R15W, Sec: 26, 34-36  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Danaher Kingston  
 Outwash  
 YOE: 2019  
 Acres: 1,195 GIS Calculated  
 Examiner: Mario Molin  
 Map Revised: 7/30/2018  
 Map Phase: Post Review



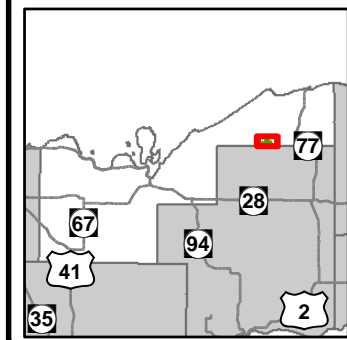
- Miris Corners
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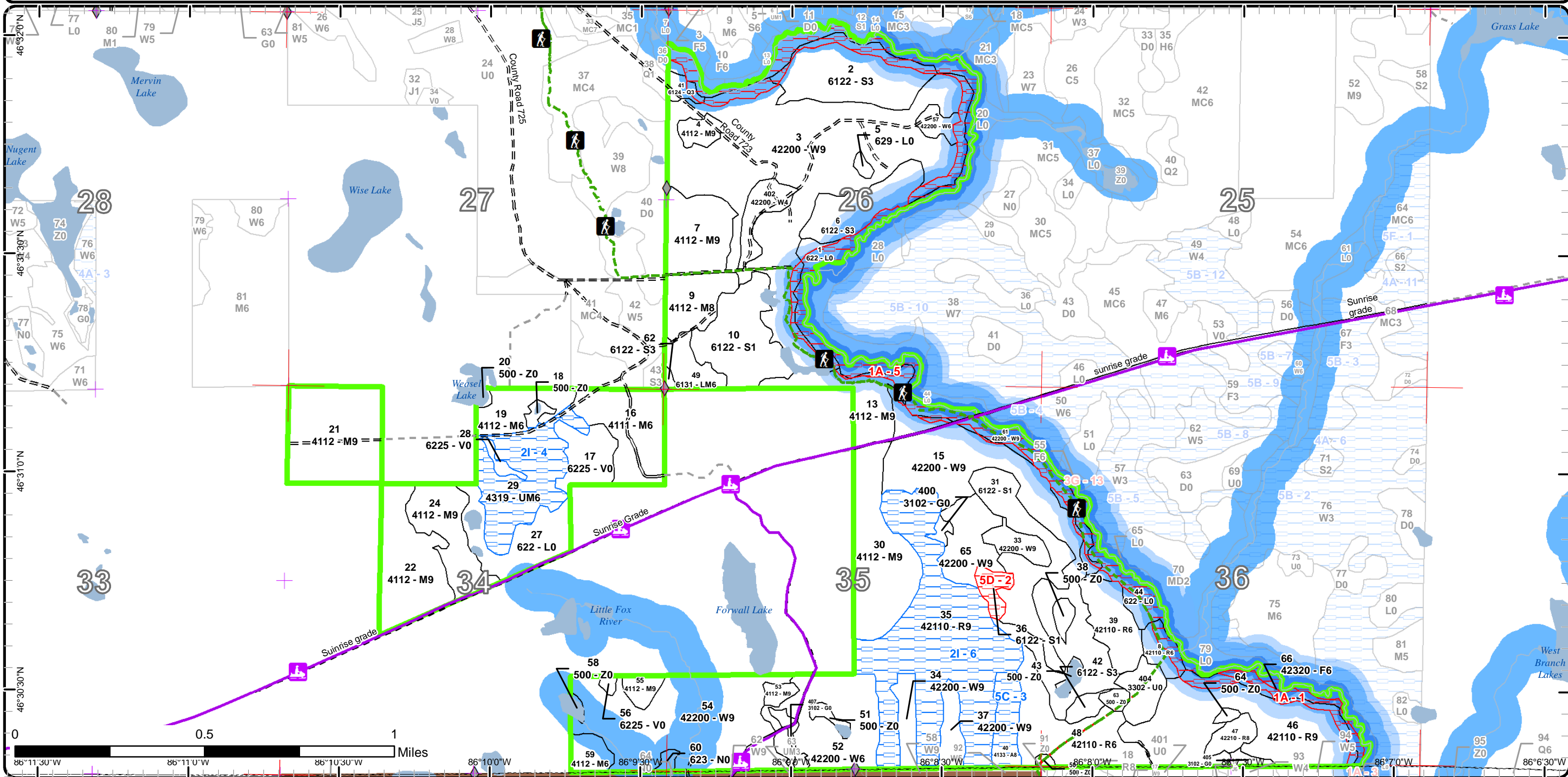
46°30'30" N  
 46°31'0" N  
 46°31'30" N  
 46°32'0" N  
 86°11'30" W  
 86°11'0" W  
 86°10'30" W  
 86°10'0" W  
 86°9'30" W  
 86°9'0" W  
 86°8'30" W  
 86°8'0" W  
 86°7'30" W  
 86°7'0" W

# Special Conservation Areas & Site Conditions Map

Compartment: 140  
 T48N, R15W, Sec: 26, 34-36  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Danaher Kingston  
 Outwash  
 YOE: 2019  
 Acres: 1,195 GIS Calculated  
 Examiner: Mario Molin  
 Map Revised: 7/30/2018  
 Map Phase: Post Review



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- Designated Bicycle Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 5D: Unproductive Forest Land
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

|                      | Non-Forest | 0-9      | 10-19     | 20-29     | 30-39    | 40-49    | 50-59      | 60-69      | 70-79    | 80-89     | 90-99     | 100-109  | 110-119  | 120-129  | 130-139  | 140-149  | 150+     | Uneven-Aged | Total       |
|----------------------|------------|----------|-----------|-----------|----------|----------|------------|------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|-------------|-------------|
| Aspen                | 0          | 0        | 0         | 0         | 0        | 0        | 11         | 0          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 11          |
| Bog                  | 17         | 0        | 0         | 0         | 0        | 0        | 0          | 0          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 17          |
| Herbaceous Openland  | 7          | 0        | 0         | 0         | 0        | 0        | 0          | 0          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 7           |
| Low-Density Trees    | 9          | 0        | 0         | 0         | 0        | 0        | 0          | 0          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 9           |
| Lowland Conifers     | 0          | 0        | 0         | 3         | 0        | 0        | 0          | 0          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 3           |
| Lowland Mixed Forest | 0          | 0        | 0         | 0         | 0        | 0        | 0          | 0          | 0        | 9         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 9           |
| Lowland Shrub        | 82         | 0        | 0         | 0         | 0        | 0        | 0          | 0          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 82          |
| Lowland Spruce/Fir   | 0          | 0        | 33        | 30        | 1        | 0        | 56         | 0          | 0        | 5         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 125         |
| Marsh                | 2          | 0        | 0         | 0         | 0        | 0        | 0          | 0          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 2           |
| Northern Hardwood    | 0          | 0        | 0         | 0         | 0        | 0        | 0          | 14         | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 238         | 252         |
| Red Pine             | 0          | 0        | 0         | 0         | 0        | 0        | 96         | 122        | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 218         |
| Upland Mixed Forest  | 0          | 0        | 0         | 0         | 0        | 0        | 0          | 0          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 37          | 36          |
| Upland Spruce/Fir    | 0          | 0        | 0         | 0         | 0        | 0        | 0          | 0          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 5           | 5           |
| 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        | 0        | 0          | 16         | 0        | 0         | 72        | 0        | 0        | 0        | 0        | 0        | 0        | 316         | 404         |
| <b>Total</b>         | <b>133</b> | <b>0</b> | <b>33</b> | <b>33</b> | <b>1</b> | <b>0</b> | <b>163</b> | <b>152</b> | <b>0</b> | <b>14</b> | <b>72</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>596</b>  | <b>1196</b> |



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2019

Acres of Harvest

Compartment 140  
Total Compartment Acres: 1,195

Commercial Harvest - 93  
Harvests with Site Condition - 117  
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            | 0        | 0         | 0              | 0         | 0           | 174        | 0                 | 0        | 0        | 174         |
| Upland Mixed Forest | 0        | 37        | 0              | 0         | 0           | 0          | 0                 | 0        | 0        | 37          |
| <b>Total</b>        | <b>0</b> | <b>37</b> | <b>0</b>       | <b>0</b>  | <b>0</b>    | <b>174</b> | <b>0</b>          | <b>0</b> | <b>0</b> | <b>210</b>  |

### Proposed and Next Step Treatments by Method

|              | Harvest    | Site Prep | Planting  | Seeding  | Burning  | Pesticide | Monitoring | Other    | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|-----------|----------|----------|-----------|------------|----------|-----------------|-------------|
| Current      | 210        | 0         | 0         | 0        | 0        | 0         | 0          | 0        | 0               | 210         |
| Next Step    | 0          | 74        | 74        | 0        | 0        | 0         | 110        | 0        | 0               | 258         |
| <b>Total</b> | <b>210</b> | <b>74</b> | <b>74</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>110</b> | <b>0</b> | <b>0</b>        | <b>468</b>  |



| S<br>t<br>a<br>n<br>d | Treatment<br>Name | Acres | Stand<br>CoverType          | Size<br>Density    | Stand<br>Age | BA<br>Range | Treatment<br>Type | Treatment<br>Method    | Cover Type<br>Objective    | Age<br>Structure | Approval<br>Status      |
|-----------------------|-------------------|-------|-----------------------------|--------------------|--------------|-------------|-------------------|------------------------|----------------------------|------------------|-------------------------|
| 8                     | 41140008-cut      | 4.0   | 42110 - Planted<br>Red Pine | Poletimber<br>Well | 62           | 111-<br>140 | Harvest           | Systematic<br>Thinning | 4211 - Planted<br>Red Pine | Even-Aged        | Draft Field<br>Boundary |

**Habitat Cut: No****Site Condition:**Prescription first entry row thinning.Specs:Next StepTreatments:Acceptable Red pineRegen:OtherComment:Proposed Start Date: 10/01/2018

|    |              |      |                               |                    |    |        |         |                 |                               |                 |                         |
|----|--------------|------|-------------------------------|--------------------|----|--------|---------|-----------------|-------------------------------|-----------------|-------------------------|
| 29 | 41140029-Cut | 36.5 | 4319 - Mixed<br>Upland Forest | Poletimber<br>Well | 96 | 81-110 | Harvest | Group Selection | 4319 - Mixed<br>Upland Forest | Uneven-<br>Aged | Draft Field<br>Boundary |
|----|--------------|------|-------------------------------|--------------------|----|--------|---------|-----------------|-------------------------------|-----------------|-------------------------|

**Habitat Cut: No****Site Condition: Survey Needed**Prescription Remove all spruce, fir, and beech, green tree some larger beech.Specs: Avoiding using Sunrise Grade if possible when cut, there is access from the North off of the Adams Trail.Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Any mix of species.Regen:OtherComment:Proposed Start Date: 10/01/2018

|    |              |      |                             |                   |    |        |         |                        |                            |           |                         |
|----|--------------|------|-----------------------------|-------------------|----|--------|---------|------------------------|----------------------------|-----------|-------------------------|
| 35 | 41140035-Cut | 63.9 | 42110 - Planted<br>Red Pine | Sawtimber<br>Well | 59 | 81-110 | Harvest | Systematic<br>Thinning | 4211 - Planted<br>Red Pine | Even-Aged | Draft Field<br>Boundary |
|----|--------------|------|-----------------------------|-------------------|----|--------|---------|------------------------|----------------------------|-----------|-------------------------|

**Habitat Cut: No****Site Condition: Survey Needed**Prescription First entry thinning, mark rows/for operations.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/01/2018

|    |              |      |                             |                    |    |             |         |                        |                            |           |                         |
|----|--------------|------|-----------------------------|--------------------|----|-------------|---------|------------------------|----------------------------|-----------|-------------------------|
| 39 | 41140039-Cut | 16.3 | 42110 - Planted<br>Red Pine | Poletimber<br>Well | 62 | 111-<br>140 | Harvest | Systematic<br>Thinning | 4211 - Planted<br>Red Pine | Even-Aged | Draft Field<br>Boundary |
|----|--------------|------|-----------------------------|--------------------|----|-------------|---------|------------------------|----------------------------|-----------|-------------------------|

**Habitat Cut: No****Site Condition: Federal/State/Local Law**Prescription 1st entry thinningSpecs:Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)Treatments:Acceptable Red pineRegen:OtherComment:Proposed Start Date: 10/01/2018





| S<br>t<br>a<br>n<br>d | Treatment Name | Acres | Stand CoverType          | Size Density   | Stand Age | BA Range | Treatment Type | Treatment Method    | Cover Type Objective    | Age Structure | Approval Status      |
|-----------------------|----------------|-------|--------------------------|----------------|-----------|----------|----------------|---------------------|-------------------------|---------------|----------------------|
| 46                    | 41140046-Cut   | 57.4  | 42110 - Planted Red Pine | Sawtimber Well | 62        | 81-110   | Harvest        | Systematic Thinning | 4211 - Planted Red Pine | Even-Aged     | Draft Field Boundary |

**Habitat Cut: No**

**Site Condition:**

Prescription row thinning  
Specs:

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

Acceptable Red pine  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

|    |              |      |                          |                 |    |        |         |                     |                         |           |                      |
|----|--------------|------|--------------------------|-----------------|----|--------|---------|---------------------|-------------------------|-----------|----------------------|
| 48 | 41140048-Cut | 32.0 | 42110 - Planted Red Pine | Poletimber Well | 62 | 81-110 | Harvest | Systematic Thinning | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------------------|-----------------|----|--------|---------|---------------------|-------------------------|-----------|----------------------|

**Habitat Cut: No**

**Site Condition:**

Prescription First entry thinning, row thin/mark for operations.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment Acreage Proposed: 210.1**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Mario Molin : Examiner

Compartment: 140  
Year of Entry: 2019

### Availability for Management

| Total<br>Acres | Acres<br>Available | Acres Avail    |     | Acres<br>Not Available |                      | Dominant Site Conditions |    |    |     |   |
|----------------|--------------------|----------------|-----|------------------------|----------------------|--------------------------|----|----|-----|---|
|                |                    | With Condition |     |                        |                      | 2I                       | 5C | 1A | 5D  |   |
| 11             | 0                  | 11             | 0   | 0                      | Aspen                |                          | 11 |    |     |   |
| 17             | 17                 | 0              | 0   | 0                      | Bog                  |                          |    |    |     |   |
| 7              | 7                  | 0              | 0   | 0                      | Herbaceous Openland  |                          |    |    |     |   |
| 9              | 9                  | 0              | 0   | 0                      | Low-Density Trees    |                          |    |    |     |   |
| 3              | 2                  | 0              | 1   | 1                      | Lowland Conifers     |                          |    |    | 1   |   |
| 9              | 9                  | 0              | 0   | 0                      | Lowland Mixed Forest |                          |    |    |     |   |
| 82             | 29                 | 0              | 53  | 53                     | Lowland Shrub        |                          |    |    | 53  |   |
| 125            | 114                | 0              | 11  | 11                     | Lowland Spruce/Fir   |                          |    |    | 6   | 5 |
| 2              | 2                  | 0              | 0   | 0                      | Marsh                |                          |    |    |     |   |
| 251            | 248                | 0              | 3   | 3                      | Northern Hardwood    |                          |    |    | 3   |   |
| 218            | 108                | 96             | 13  | 13                     | Red Pine             | 96                       |    |    | 13  |   |
| 37             | 0                  | 37             | 0   | 0                      | Upland Mixed Forest  | 37                       |    |    |     |   |
| 5              | 1                  | 0              | 4   | 4                      | Upland Spruce/Fir    |                          |    |    | 4   |   |
| 16             | 16                 | 0              | 0   | 0                      | Water                |                          |    |    |     |   |
| 403            | 298                | 0              | 106 | 106                    | White Pine           |                          |    |    | 106 |   |
| 1,195          | 860                | 143            | 192 | 192                    | Total Forested Acres | 133                      | 11 |    | 187 | 5 |
|                | 72%                | 12%            | 16% | 16%                    | 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                     | 1A: Federal/State/Local Law  | 9     | Unspecified          | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |                              |       |                      |                      |                      |                      |
| 2                | Unavailable                     | 5D: Unproductive Forest Land | 5     | Unspecified          | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |                              |       |                      |                      |                      |                      |

**Report 4 – Site Conditions**

Shingleton Mgt. Unit

Compartment: 140

Mario Molin : Examiner

Year of Entry: 2019

|                  |             |                                                                              |    |             |             |             |             |
|------------------|-------------|------------------------------------------------------------------------------|----|-------------|-------------|-------------|-------------|
| 3                | Available   | 5C: Delay treatment for age/size class diversity or exceptional site quality | 11 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |                                                                              |    |             |             |             |             |
| 4                | Available   | 2I: Survey needed                                                            | 37 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |                                                                              |    |             |             |             |             |
| 5                | Unavailable | 1A: Federal/State/Local Law                                                  | 97 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |                                                                              |    |             |             |             |             |
| 6                | Available   | 2I: Survey needed                                                            | 96 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |                                                                              |    |             |             |             |             |

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

| SCA Name | SCA Category | Detail Type | Recommendation | Acres |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

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Comments

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**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               | 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:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------|-----------------------------------------|------------------|-------|-----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2     | 6122 - Black Spruce                     | Sapling Well     | 36.2  | 58        | 1-50     | OPIC - FMD: Spruce is growing up nicely. Should make S4 soon. There are nice white pine on the edges. Some tamarack and fir and mixed in, 5-15' tall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3     | 42200 - Natural White Pine              | Sawtimber Well   | 147.2 | 96        | 51-80    | Cut in 1997 Sale (49-91-01) removed everything except red and white pine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4     | 4112 - Maple, Beech, Cherry Association | Sawtimber Well   | 5.0   | 96        | 51-80    | Cut 11/97, sale # 49-91-01, some scattered large white pine and hemlock. Good regeneration coming in of beech, red and sugar maple and cherry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6     | 6122 - Black Spruce                     | Sapling Well     | 20.1  | 58        | 1-50     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 7     | 4112 - Maple, Beech, Cherry Association | Sawtimber Well   | 22.7  | 96        | 81-110   | Recently thinned 11/97, sale # 49-91-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 8     | 42110 - Planted Red Pine                | Poletimber Well  | 6.8   | 62        | 111-140  | OPIC - FMD: These stands were planted in 1956 and again in 1961 after failures. Some areas have a more dense BA because of the replant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9     | 4112 - Maple, Beech, Cherry Association | Sawtimber Medium | 15.1  | 96        | 51-80    | Fox River Pathway now parallels the road to the north.<br>Cut in 2011, TS 41-040-10-01 Weasel Lake II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10    | 6122 - Black Spruce                     | Sapling Poor     | 30.1  | 21        | Immature | Cut 11/97, sale # 49-91-01, removed all but red and white pine. Nice band of large white pine in the middle of the stand. Regeneration is 0.5-10' tall depending on the species.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 13    | 4112 - Maple, Beech, Cherry Association | Sawtimber Well   | 20.5  | 96        | 51-80    | Some hemlock on the north transition zone.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 15    | 42200 - Natural White Pine              | Sawtimber Well   | 77.4  | 96        | 51-80    | [04/11/03] TS # 036-00 Stanley Lake Softwood Complex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 16    | 4111 - S.Maple, Hard Mast Association   | Poletimber Well  | 27.7  | 96        | 51-80    | Cut in 8/95. Underplanted w/red oak in 1997. Looks like it may have been a shelterwood cut in the past, could go in and remove most of the overstory if wanted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 19    | 4112 - Maple, Beech, Cherry Association | Poletimber Well  | 13.7  | 66        | 81-110   | OPIC - FMD: Red maple is sparse, good hemlock regeneration 12 to 20 in height, ground is moist. Red maple site index = 50. LEAVE HEMLOCK AND YELLOW BIRCH. Stand is under contract for DOC sale. Thin to promote same species mix. New retention guidelines will be used with new contract. [8-26-09] DOC sale (028-01) was cancelled uncut after Camp Cusino closed.<br>Sent: Tuesday, August 17, 2010 4:01 PM<br>To: Stampfly, Jeffrey (DNRE)<br>Subject: RE: Reason for dropping c140 std 19<br><br>I would use 1E for the first one. If you want two then add 5D. I just think that with equipment uses it would tear up the advanced regeneration that is coming up. The height ranges from 1' – 20' tall, but have sm DBH. The over story is total junk rm and it was only Rx before b/c of inmates and the firewood they would get for it. Natural process will continue on without it. Just more slowly |



| Stand | Level 4 Cover Type                      | Size Density     | Acres | Stand Age | BA Range    | General Comments:                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------|-----------------------------------------|------------------|-------|-----------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21    | 4112 - Maple, Beech, Cherry Association | Sawtimber Well   | 40.7  | 96        | 81-110      | Cut in 8/95.<br>Appears to have been cut heavily in the past, most regen is beech. Next entry consider cutting, BA should be better and perhaps beech regen will have died back some.                                                                                                                                                                                                                                                      |
| 22    | 4112 - Maple, Beech, Cherry Association | Sawtimber Well   | 32.4  | 96        | 51-80       | Cut in 2011 TS# 41-040-10-01A few scattered yellow birch was seen.                                                                                                                                                                                                                                                                                                                                                                         |
| 24    | 4112 - Maple, Beech, Cherry Association | Sawtimber Well   | 21.4  | 96        | 81-110      | 2017- Poor site with some terrain, hemlock in the lower areas, and transitions to lower ground to the north with more hemlock.                                                                                                                                                                                                                                                                                                             |
| 29    | 4319 - Mixed Upland Forest              | Poletimber Well  | 36.5  | 96        | 81-110      |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 30    | 4112 - Maple, Beech, Cherry Association | Sawtimber Well   | 38.6  | 81        | 51-80       | cut in 8/95. Underplanted w/red oak in 1997.                                                                                                                                                                                                                                                                                                                                                                                               |
| 31    | 6122 - Black Spruce                     | Sapling Poor     | 29.2  | 14        | Immature    | OPIC - FMD: Cut everything but the white pine, found mostly along the outer edge of the stand. Follow Natural Rivers guidelines.[04/11/03] Under contract TS # 036-00 Stanley Lake Softwood Complex.[01/13/05] RFT - sale is now closed TCR dtd 11/29/04.Regen is looking really good. There are already lots of spruce established with more filling in. Some white pine on the "knobs". There should also be fir and tamarck to fill in. |
| 33    | 42200 - Natural White Pine              | Sawtimber Well   | 6.8   | 96        | 81-110      | Cut in 2004 TS # 036-00 Stanley Lake Softwood Complex.                                                                                                                                                                                                                                                                                                                                                                                     |
| 34    | 42200 - Natural White Pine              | Sawtimber Well   | 7.8   | 61        | 1-50        |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 35    | 42110 - Planted Red Pine                | Sawtimber Well   | 96.1  | 59        | 81-110      | Density and size does vary throughout the stand.                                                                                                                                                                                                                                                                                                                                                                                           |
| 36    | 6122 - Black Spruce                     | Sapling Poor     | 5.1   | 86        | Unspecified | Spruce bog.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 37    | 42200 - Natural White Pine              | Sawtimber Well   | 7.7   | 61        | 1-50        |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 39    | 42110 - Planted Red Pine                | Poletimber Well  | 16.3  | 62        | 111-140     | OPIC - FMD: These stands were planted in 1956 and again in 1961 after failures. Some areas have a more dense BA because of the replant.                                                                                                                                                                                                                                                                                                    |
| 40    | 4133 - Aspen, Mixed Pine                | Sawtimber Medium | 10.6  | 51        | 51-80       |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 41    | 6124 - Lowland Spruce-Fir               | Sapling Well     | 3.2   | 24        | Immature    | OPIC - FMD: Area cut with #49-91. Scattered large wp remain on edges. There is well established fir, red maple, spruce, aspen, cedar, and white birch 1-20' tall.                                                                                                                                                                                                                                                                          |
| 42    | 6122 - Black Spruce                     | Sapling Well     | 3.5   | 14        | Immature    | [04/11/03] TS # 036-00 Stanley Lake Softwood Complex.                                                                                                                                                                                                                                                                                                                                                                                      |

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## Shingleton Mgt. Unit

## Report 7 – Forested Stands

Compartment: 140  
Year of Entry: 2019

| Stand | Level 4 Cover Type                       | Size Density     | Acres | Stand Age | BA Range | General Comments:                                                                                                                                                                                                                         |
|-------|------------------------------------------|------------------|-------|-----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 46    | 42110 - Planted Red Pine                 | Sawtimber Well   | 60.6  | 62        | 81-110   | OPIC - FMD: These stands were planted in 1956 and again in 1961 after failures. Some areas have a more dense BA because of the replant. Those spots are starting to prune. Other more open areas may have developed b/c of frost pockets. |
| 47    | 42210 - Natural Red Pine                 | Sawtimber Medium | 5.8   | 61        | 81-110   | [04/11/03] TS # 036-00 Stanley Lake Softwood Complex.<br>Area also planted to red pine in '56 and '61.                                                                                                                                    |
| 48    | 42110 - Planted Red Pine                 | Poletimber Well  | 32.0  | 62        | 81-110   | OPIC - FMD: These stands were planted in 1956 and again in 1961 after failures. Some areas have a more dense BA because of the replant. Those spots are starting to prune. Other more open areas may have developed b/c of frost pockets. |
| 49    | 6131 - Hemlock, White Pine, Maple, Birch | Poletimber Well  | 9.1   | 86        | 51-80    | There is a small pocket of red maple, M5/M6 with scattered white pine in it.                                                                                                                                                              |
| 52    | 42200 - Natural White Pine               | Poletimber Well  | 36.1  | 51        | 1-50     |                                                                                                                                                                                                                                           |
| 53    | 4112 - Maple, Beech, Cherry Association  | Sawtimber Well   | 2.8   | 66        | 81-110   | OPIC - TS# #33-79.                                                                                                                                                                                                                        |
| 54    | 42200 - Natural White Pine               | Sawtimber Well   | 71.9  | 96        | 81-110   | OPIC - cut 1n 1979 TS# 33-79.                                                                                                                                                                                                             |
| 55    | 4112 - Maple, Beech, Cherry Association  | Sawtimber Well   | 4.4   | 66        | 81-110   | OPIC - FMD: Cut heavily last time #33-79, treated in '82. Reproduction is mainly hardwood with a mix of maple, beech and cherry.                                                                                                          |
| 57    | 42200 - Natural White Pine               | Poletimber Well  | 4.5   | 51        | 1-50     |                                                                                                                                                                                                                                           |
| 59    | 4112 - Maple, Beech, Cherry Association  | Poletimber Well  | 6.4   | 66        | 81-110   | OPIC - FMD: Cut heavily last time TS #33-79, treated in '82.                                                                                                                                                                              |
| 61    | 42200 - Natural White Pine               | Sawtimber Well   | 17.8  | 96        | 81-110   | Can not cut- River buffer and Pathway                                                                                                                                                                                                     |
| 62    | 6122 - Black Spruce                      | Sapling Well     | 0.9   | 36        | 1-50     |                                                                                                                                                                                                                                           |
| 65    | 42200 - Natural White Pine               | Sawtimber Well   | 17.1  | 96        | 81-110   |                                                                                                                                                                                                                                           |
| 66    | 42320 - Upland Spruce                    | Poletimber Well  | 4.9   | 51        | 51-80    | Cant harvest- River buffer and Pathway.                                                                                                                                                                                                   |
| 402   | 42200 - Natural White Pine               | Poletimber Poor  | 9.2   | 51        | 1-50     |                                                                                                                                                                                                                                           |





| Stand | Cover Type                       | Acres | Managed Site | General Comments:                                                                               |
|-------|----------------------------------|-------|--------------|-------------------------------------------------------------------------------------------------|
| 1     | 622 - Lowland Shrub              | 38.6  | No           | West Branch Fox River. Low area follows the West Branch of the Fox River.                       |
| 5     | 629 - Mixed non-forested wetland | 1.4   | No           | Seasonal pond.                                                                                  |
| 17    | 6225 - Bog                       | 13.5  | No           |                                                                                                 |
| 18    | 500 - Water                      | 1.9   | No           |                                                                                                 |
| 20    | 500 - Water                      | 1.2   | No           |                                                                                                 |
| 27    | 622 - Lowland Shrub              | 22.3  | No           | Marsh                                                                                           |
| 28    | 6225 - Bog                       | 2.1   | No           |                                                                                                 |
| 38    | 500 - Water                      | 2.8   | No           |                                                                                                 |
| 43    | 500 - Water                      | 2.3   | No           | Seasonal pond                                                                                   |
| 44    | 622 - Lowland Shrub              | 19.9  | No           | OPIC - FMD: HCVA - NR- West Branch Fox River. Low that follows the West Branch of the Fox River |
| 50    | 500 - Water                      | 1.0   | No           | seasonal pond                                                                                   |
| 51    | 500 - Water                      | 2.3   | No           | Pond.                                                                                           |
| 56    | 6225 - Bog                       | 1.2   | No           |                                                                                                 |
| 58    | 500 - Water                      | 1.3   | No           |                                                                                                 |
| 60    | 623 - Emergent Wetland           | 1.5   | No           |                                                                                                 |
| 63    | 500 - Water                      | 2.3   | No           | Seasonal pond                                                                                   |
| 64    | 500 - Water                      | 1.2   | No           | Seasonal pond                                                                                   |
| 400   | 3102 - Grass                     | 1.6   | No           | Some scattered pine filling in                                                                  |



| Stand      | Cover Type                       | Acres | Managed Site | General Comments:                           |
|------------|----------------------------------|-------|--------------|---------------------------------------------|
| <b>404</b> | 3302 - Low Density Conifer Trees | 9.3   | No           |                                             |
| <b>405</b> | 3102 - Grass                     | 2.2   | No           | Some scattered trees of red and white pine. |
| <b>407</b> | 3102 - Grass                     | 3.0   | No           |                                             |