



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41058

Entry Year 2020

Acreage: 1,509

County Schoolcraft

Management Area: Hiawatha Moraine

Revision Date: 2018-07-16

Stand Examiner: Tori Irving

Legal Description:

T43N, R15W, Sections 21,28 & 33

Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity, Wildlife and Timber Management are some of the key management components within this compartment.

Soil and topography:

Soils within the compartment range from organic mucky peats on the lowlands to rubicon sands in the old openings and Mcmillan Complexes which are more loamy where the hardwoods occur. There is an abrupt ridge that runs along Brace Creek that separates the uplands from the lowlands within the compartment.

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

The compartment is mostly contiguous State land. However, there are some fragmented forties with camps on them. The camps are mainly used for hunting and summer recreation.

Unique Natural Features:

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

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Several stands on the west side of the compartment are managed for opening maintenance. These stands fit into a larger opening complex which is managed for open land species and also as a breakout area for deer.

Watershed and Fisheries Considerations:

The northeastern region of this compartment borders Stutts Creek. This reach of Stutts Creek is a non-designated stream reach less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended to protect Stutts Creek riparian areas in accordance with Best Management Practices (specifically stand 47).

The central region of this compartment contains Brace Creek which serves as a tributary to Stutts Creek. Brace Creek is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for Brace Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices (specifically stand 13).

Wildlife Habitat Considerations:

Brace Creek is located near the middle of the compartment while Stutts Creek forms the northeastern boundary. The compartment is situated at the northeast end of the Highrollways openings complex, and contains the transition from oak savannah cover type to forested ecosystem. The southwest end is at the edge of the opening complex, northern hardwoods Wildlife objectives include maintaining the large opening habitat in the southwest, providing age class and structural diversity in northern hardwoods through selective cutting, and promoting early successional young deciduous habitat by clear cutting and encouraging birch growth in birch stands. Maintenance of the opening complex is important to white-tailed deer due to the proximity of the Sturgeon Hole deer yard. Hemlock should be left where present, and a component of cherry and beech should be retained to provide sources of soft and hard mast and for species diversity.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located three miles to the west, and there may be some sand potential within the compartment. There is no known metallic mineral potential in this area, and there is no history of mineral leasing. There is no commercial oil and gas production in the UP.

Vehicle Access:

The upland portion of the compartment is in what is locally termed the High Rollways and has the High Rollways Truck Trail which is a county road running through it. This area has many roads and is well used by the public. The east side of the compartment is accessed by the Old Camp Manistique Road.

Survey Needs:**Recreational Facilities and Opportunities:**

The compartment contains a snowmobile trail that runs through much of the compartment. The road system within the compartment gets a good amount of ORV use. The remaining recreational opportunities include hunting, fishing, trapping, bird watching, and berry picking.

Fire Protection:

The area has numerous roads which will aid in suppression efforts if a fire were to occur. However, there is a large area north of Brace Creek which is inaccessible. In general, the Sharptail Corridor has been managed through fire, therefore most of fuel has been removed which lessens the chance for a large fire to occur.

Additional Compartment Information:**The following reports from the Inventory are attached:**

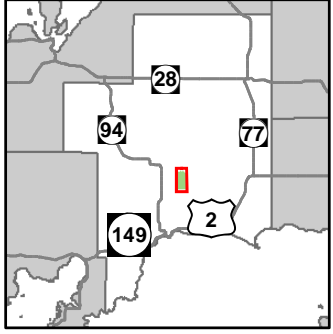
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

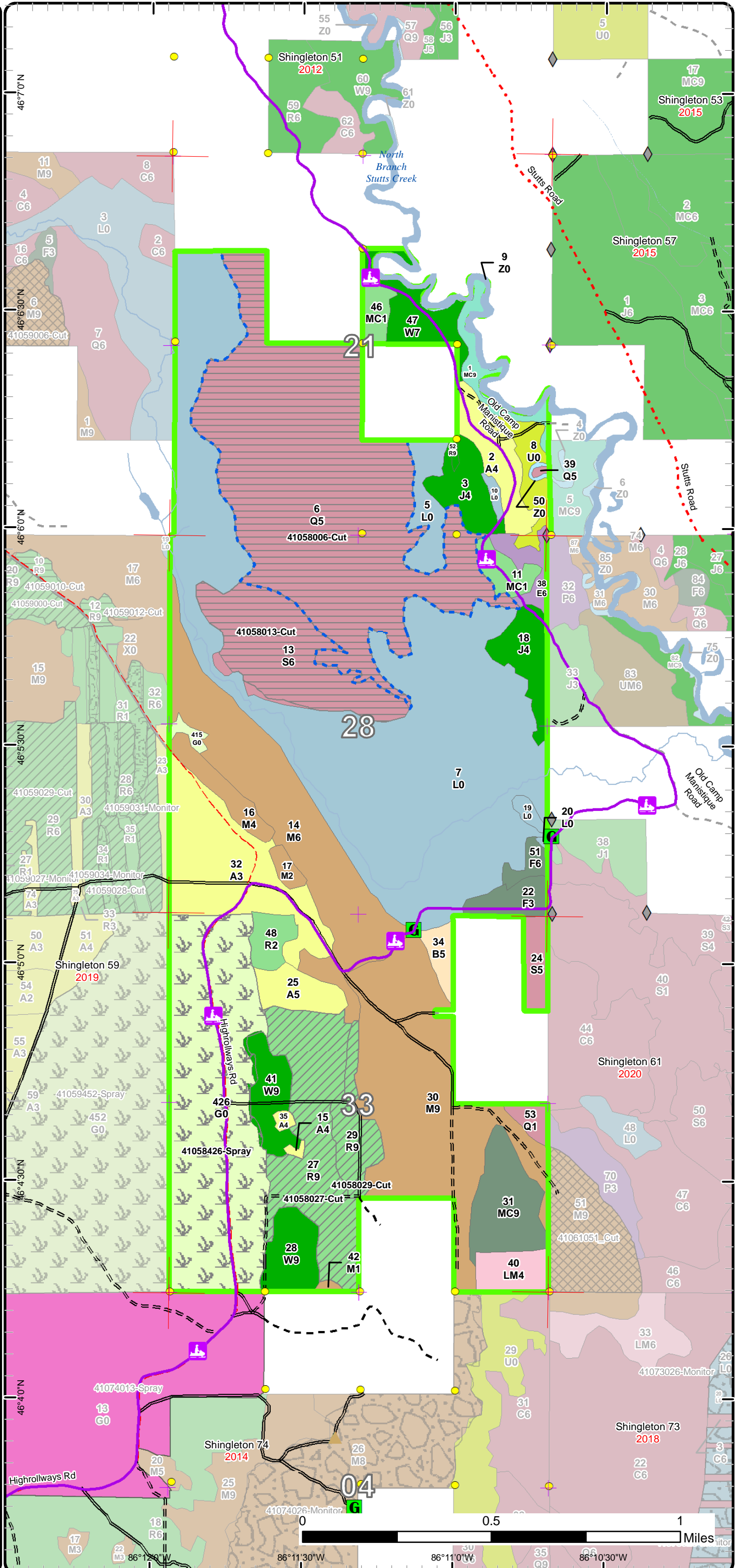
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 58
 T43N,R15W, Sec: 21, 28, 33
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Hiawatha Moraine
 YOE: 2020
 Acres: 1,509 GIS Calculated
 Examiner: Tori Irving
 Map Revised: 12/17/2018
 Map Phase: Post Review



- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚙 Snowmobile Trails
- 🚙 Designated Snowmobile Trails
- ⋯ Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ▲ Berms
- Ⓜ Gate
- ▭ Compartment Boundary
- ▭ Treatments with Site Conditions
- ▭ Clearcut (w/Reserves)
- ▭ Pesticide
- ▭ Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes

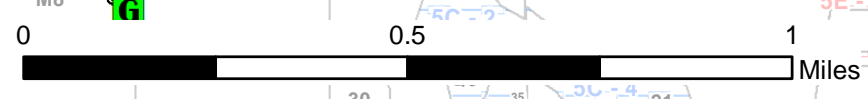
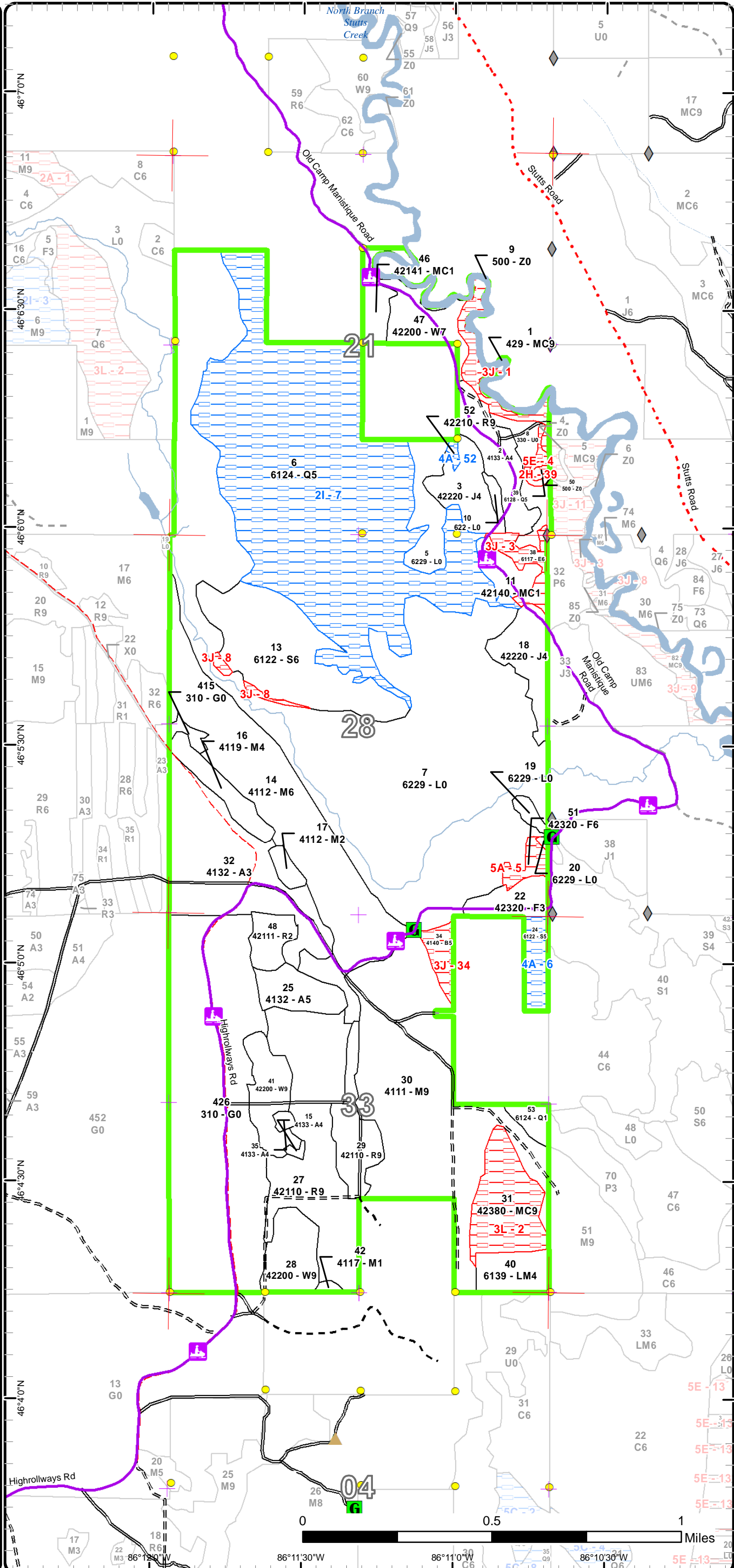


Special Conservation Areas & Site Conditions Map

Compartment: 58
 T43N,R15W, Sec: 21, 28, 33
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Hiawatha Moraine
 YOE: 2020
 Acres: 1,509 GIS Calculated
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- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ▲ Berms
- G Gate
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes



86°11'30"W 86°11'0"W 86°10'30"W

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 | 66 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| Herbaceous Openland | 153 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 153 |
| Jack Pine | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Low-Density Trees | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Lowland Conifers | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 255 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 261 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Lowland Shrub | 357 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 357 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73 |
| Northern Hardwood | 0 | 5 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 227 | 244 |
| Paper Birch | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Planted Mixed Pines | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Red Pine | 0 | 0 | 9 | 0 | 0 | 0 | 90 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 42 |
| Upland Spruce/Fir | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Water | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| White Pine | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| Total | 530 | 21 | 91 | 0 | 100 | 0 | 126 | 0 | 32 | 338 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 269 | 1508 |



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 58
Total Compartment Acres: 1,509

Commercial Harvest - 150
Harvests with Site Condition - 255
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 |
|--------------------|------------|-----------|----------------|-----------|-------------|----------|-------------------|----------|----------|-------------|
| Lowland Conifers | 255 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 255 |
| Lowland Spruce/Fir | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| Red Pine | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 | 0 | 90 |
| Total | 316 | 0 | 0 | 0 | 90 | 0 | 0 | 0 | 0 | 406 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|----------|----------|----------|------------|------------|----------|-----------------|-------------|
| Current | 406 | 0 | 0 | 0 | 0 | 153 | 0 | 0 | 0 | 558 |
| Next Step | 0 | 0 | 0 | 0 | 0 | 0 | 621 | 0 | 0 | 621 |
| Total | 406 | 0 | 0 | 0 | 0 | 153 | 621 | 0 | 0 | 1180 |



| 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 |
|-----------------------|----------------|-------|---------------------------|-------------------|-----------|----------|----------------|-------------------------|---------------------------------|---------------|----------------------|
| 6 | 41058006-Cut | 255.3 | 6124 - Lowland Spruce-Fir | Poletimber Medium | 88 | 1-50 | Harvest | Clearcut with Retention | 612 - Lowland Coniferous Forest | Even-Aged | Draft Field Boundary |

Habitat Cut: No **Site Condition: Survey Needed**

Prescription Cut all trees. Exclude some pockets in the north east corner of the stand and also some fingers along the marsh edges of the stand for retention purposes. Leave some scattered interior pockets of higher density cedar in the stand. Retention should be left at the higher end of the retention guidance.

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

Acceptable A mix of species currently found on site will be acceptable regeneration.
Regen:

Other Include the 2" spec in the sale.
Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|------|---------------------|-----------------|----|-------|---------|-------------------------|---------------------------|-----------|----------------------|
| 13 | 41058013-Cut | 60.5 | 6122 - Black Spruce | Poletimber Well | 87 | 51-80 | Harvest | Clearcut with Retention | 6124 - Lowland Spruce-Fir | Even-Aged | Draft Field Boundary |
|----|--------------|------|---------------------|-----------------|----|-------|---------|-------------------------|---------------------------|-----------|----------------------|

Habitat Cut: No **Site Condition:**

Prescription Cut all trees. Buffer the river on the west side of the stand. Leave a few retention patches on the interior of the stand for seed source for black spruce regeneration. Include cedar in the retention patches.

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

Acceptable A mix of species currently found onsite will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|------|--------------------------|----------------|----|--------|---------|--------------|--------------------------|-----------|----------------------|
| 27 | 41058027-Cut | 70.9 | 42110 - Planted Red Pine | Sawtimber Well | 58 | 81-110 | Harvest | Low Thinning | 42110 - Planted Red Pine | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------------------|----------------|----|--------|---------|--------------|--------------------------|-----------|----------------------|

Habitat Cut: No **Site Condition:**

Prescription Thin stand and focus on areas with higher BA and also the trees that will grow out of a merchantable age class within the next ten years. Residual BA should be around 100. Do not cut any oak within the stand.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|------|--------------------------|----------------|----|---------|---------|--------------|-------------------------|-----------|----------------------|
| 29 | 41058029-Cut | 19.0 | 42110 - Planted Red Pine | Sawtimber Well | 58 | 111-140 | Harvest | Low Thinning | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------------------|----------------|----|---------|---------|--------------|-------------------------|-----------|----------------------|

Habitat Cut: No **Site Condition:**

Prescription Thin stand to 120 BA and focus on thicker areas and trees that will grow out of a merchantable age class over the next ten years. Do not cut any oak.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019



| 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 |
|-----------------------|----------------|-------|---------------------------|--------------|-----------|-------------|----------------|------------------|---------------------------|---------------|----------------------|
| 426 | 41058426-Spray | 152.7 | 310 - Herbaceous Openland | Nonstocked | | Unspecified | Pesticide | Other - Specify | 310 - Herbaceous Openland | | Draft Field Boundary |

Habitat Cut: No

Site Condition:

Prescription Specs: Per the 2019 Compartment Review the decision was made to schedule a herbicide treatment, preferably aerial and then monitor for when to do an Rx Burn afterwards.

Next Step Treatments: Monitoring, Prescribed Burn ; Monitoring, Herbicide Use

Acceptable Regen: Grass.

Other Comment: Prescribed fire, farming (dozing, disking, raking, seeding (native or naturalized species only) fertilizing, liming), brushhog or herbicide removal of competing trees and/or establishment of native hard and soft mast producers such as red oak, crabapple or others according to ftp W41-1619Stand will be herbicide and/or burned to remove competing trees to allow for establishment of native grasses as agreed upon at YOE 2019 compartment review according to ftp W41-1619.

Proposed Start Date: 10/1 /2018

Total Treatment Acreage Proposed: 558.4

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 58

Year of Entry: 2020

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Acres Not Available | Dominant Site Conditions | Dominant Site Conditions | | | | | | | | |
|----------------|--------------------|----------------|----|------------------------|--------------------------|--------------------------|----|----|----|----|----|----|---|---|
| | | With Condition | | | | 2I | 4A | 2H | 3J | 3L | 5A | 5E | | |
| 103 | 103 | 0 | 0 | 0 | Aspen | | | | | | | | | |
| 153 | 153 | 0 | 0 | 0 | Herbaceous Openland | | | | | | | | | |
| 36 | 36 | 0 | 0 | 0 | Jack Pine | | | | | | | | | |
| 13 | 11 | 0 | 2 | 2 | Low-Density Trees | | | | | | | | | 2 |
| 261 | 5 | 255 | 1 | 1 | Lowland Conifers | 255 | | 1 | | | | | | |
| 9 | 0 | 0 | 9 | 9 | Lowland Deciduous | | | | 9 | | | | | |
| 13 | 13 | 0 | 0 | 0 | Lowland Mixed Forest | | | | | | | | | |
| 357 | 357 | 0 | 0 | 0 | Lowland Shrub | | | | | | | | | |
| 73 | 61 | 10 | 2 | 2 | Lowland Spruce/Fir | | 10 | | 2 | | | | | |
| 244 | 244 | 0 | 0 | 0 | Northern Hardwood | | | | | | | | | |
| 7 | 0 | 0 | 7 | 7 | Paper Birch | | | | 7 | | | | | |
| 16 | 16 | 0 | 0 | 0 | Planted Mixed Pines | | | | | | | | | |
| 100 | 99 | 1 | 0 | 0 | Red Pine | | 1 | | | | | | | |
| 42 | 0 | 0 | 42 | 42 | Upland Conifers | | | | 12 | 30 | | | | |
| 16 | 11 | 0 | 5 | 5 | Upland Spruce/Fir | | | | | | 5 | | | |
| 7 | 7 | 0 | 0 | 0 | Water | | | | | | | | | |
| 56 | 56 | 0 | 0 | 0 | White Pine | | | | | | | | | |
| 1,509 | 1,173 | 267 | 69 | 69 | Total Forested Acres | 255 | 11 | 1 | 30 | 30 | 5 | | 2 | |
| | 78% | 18% | 5% | 5% | Relative Percent | | | | | | | | | |

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

| Site No. | Dominant Site Cond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|-----------------------------------|---------------------------------|---|-------|----------------------|----------------------|----------------------|----------------------|
| 1 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 2 | Unavailable | 3L: Other wildlife concerns | 30 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Hemlock stand | | | | | | | |

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 58

Year of Entry: 2020

| | | | | | | | |
|-----------|-------------|---|-----|-------------|-------------|-------------|-------------|
| 3 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 9 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 4 | Unavailable | 5E: Long-Term Retention | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Unavailable | 5A: Not able to obtain desirable regeneration | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Available | 4A: No Markets Available for these Forest Products | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 7 | Available | 2I: Survey needed | 255 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 8 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 34 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 58

Year of Entry: 2020

| | | | | | | | |
|------------------|--------------------|---|---|-------------|-------------|-------------|-------------|
| 39 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 52 | Available | 4A: No Markets Available for these Forest Products | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

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 Lake | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200. |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210. |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|---|-------------------|-------|-----------|----------|--|
| 1 | 429 - Mixed Upland Conifers | Sawtimber Well | 11.9 | 78 | 81-110 | Stand is a riparian corridor for Stutts Creek which includes oxbows and drainages. |
| 2 | 4133 - Aspen, Mixed Pine | Poletimber Poor | 21.3 | 37 | 1-50 | |
| 3 | 42220 - Natural Jack Pine | Poletimber Poor | 17.4 | 37 | 1-50 | |
| 6 | 6124 - Lowland Spruce-Fir | Poletimber Medium | 255.3 | 88 | 1-50 | |
| 11 | 42140 - Planted Mixed Pine | Sapling Poor | 9.2 | 8 | 1-50 | Regeneration walkthrough done spring of 2010. Not much of anything here. Black spruce is dominant species, but numbers are well below 600 tpa. Stand is not fully stocked and was referred to TMS. Stand was trenched and planted to jack pine. Passed regen check with 428 jack pine, 57 white pine, 14 black spruce, 14 red pine. areas that were not trenched have 5 to 10 foot tall fir and red maple. |
| 13 | 6122 - Black Spruce | Poletimber Well | 62.9 | 87 | 51-80 | OPIC - FMD: Soils are Carbon Lupton Tawas Muck |
| 14 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 99.0 | 89 | 51-80 | [6/4/10 bb] Stand is now on proposal 41-17-10 Brace Creek Hardwood 2 Actual Stand acres = 79. Units 2 and 3. Residual BA hard maple 41 sq ft, red maple 36 sq ft, paper birch 1 sq ft, beech 1 sq ft and cherry 1 sq ft. Stand shrank due to steep ridge on east which is retention. FTP W41-1454 submitted for oak underplanting as well. [10/3/2013 TI] Sale is closed. TCR date 6/21/13. May 2012: Oak sapings were planted by WLD. |
| 15 | 4133 - Aspen, Mixed Pine | Poletimber Poor | 0.9 | 38 | 1-50 | |
| 16 | 4119 - Mixed Northern Hardwoods | Poletimber Poor | 12.2 | 30 | Immature | [6/4/10 bb] Stand is now on proposal 41-17-10 Brace Creek Hardwood 2 Actual Stand acres = 13. Unit 1. Residual BA red maple 36 sq ft, paper birch 3 sq ft. FTP W41-1454 submitted for oak underplanting as well. [10/3/2013 TI] Sale is closed. TCR date 6/21/13. May 2012): Oak saplings were planted by WLD. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|----------------------|-------|--------------|-------------|---|
| 17 | 4112 - Maple, Beech, Cherry Association | Sapling Medium | 3.9 | 5 | Immature | <p>The birch within stand is not going to hold on for much longer there is already approximately 30 square feet of birch snags within the stand. It is expected to be difficult to regenerate the birch due to deer browsing, therefore, leave the maple component so the stand can transition over time into the adjacent stand. If the birch doesn't regenerate northern hardwoods is an acceptable species alternative. As agreed at pre-review leave some birch for retention.</p> <p>[6/4/10 bb] Stand is now on proposal 41-17-10 Brace Creek Hardwood 2 Actual Stand acres = 5. Unit 1. Residual BA red maple 36 sq ft, paper birch 3 sq ft. FTP W41-1454 submitted for oak underplanting as well.</p> <p>[10/03/2013 TI] Sale is closed. TCR date 6/21/13.</p> <p>May 2012): Oak saplings were planted by WLD.</p> <p>The stand is being heavily browsed by deer. The adjacent stand is aspen and some aspen is starting to fill in on the edges.</p> |
| 18 | 42220 - Natural Jack Pine | Poletimber Poor | 18.3 | 36 | 1-50 | |
| 22 | 42320 - Upland Spruce | Sapling Well | 11.3 | 13 | Immature | <p>OPIC - FMD: SET UP WITH STANDS IN COMPARTMENT 61. SNOWMOBILE TRAIL RUNS THROUGH STAND.</p> <p>[6/23/05 BB] Sale is now closed, Brace Creek Sale. Stand cut winter 2005. Check regeneration in 2009.</p> <p>(4/28/2010 AP) Regeneration walkthrough done spring of 2010. Fully stocked mixture of black spruce and tamarack. Trees are 1 foot tall.</p> |
| 24 | 6122 - Black Spruce | Poletimber Medium | 10.2 | 77 | 51-80 | This stand was aquired in 1994 as part of settlement for the adjacent cabin trespass on the west side of the forty. |
| 25 | 4132 - Aspen, Jack Pine | Poletimber Medium | 14.1 | 38 | 1-50 | |
| 27 | 42110 - Planted Red Pine | Sawtimber Well | 70.9 | 58 | 81-110 | <p>The stand is now nearly 50 years old and never thinned. There are areas with good stocking as well as areas with poor stocking. There are some other species like aspen and hardwood that didn't show on plots. There is a jack pine inclusion on the west edge. Thin stand but in areas of less stocking maintain basal area by modified row thinning where more than every third row is left.</p> <p>[6/4/10 bb] Stand is now on proposal 41-16-10 Mad Hawk Red Pine. Actual Stand acres = 72. Units 1,2 and 5. Residual BA was a bit low but was due to voids in red pine stocking, extra rows were left to bolster residual and only jack pine and aspen were designated everything else was marked. Residual BA red pine 78 sq ft, white pine 5 sq ft, red maple 1 sq ft, paper birch 1 sq ft and cherry 1 sq ft.</p> <p>[7/19/11 bb] Sale is now closed, TCR date is 7/18/11. This was a thinning so no regen tracking. Cut spring 2011.</p> |
| 28 | 42200 - Natural White Pine | Sawtimber Well | 18.1 | 58 | 51-80 | <p>[6/4/10 bb] Stand is now on proposal 41-16-10 Mad Hawk Red Pine. Actual Stand acres = 15. Unit 4. Residual BA red pine 24 sq ft, white pine 57 sq ft, red maple 1 sq ft, paper birch 3 sq ft</p> <p>[7/19/11 bb] Sale is now closed, TCR date is 7/18/11. This was a thinning so no regen tracking. Cut spring 2011.</p> |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------|-------|--------------|-------------|--|
| 29 | 42110 - Planted Red Pine | Sawtimber Well | 19.0 | 58 | 111-140 | Stand cut under contract 34-00, Mad Hawk Sale. Stand was cut spring of 2001. [6/4/10 bb] Stand is now on proposal 41-16-10 Mad Hawk Red Pine. Actual Stand acres =16. Unit 3. Residual BA red pine 116 sq ft, red maple 1 sq ft, and cherry 1 sq ft. [7/19/11 bb] Sale is now closed, TCR date is 7/18/11. This was a thinning so no regen tracking. Cut spring 2011. |
| 30 | 4111 - S.Maple, Hard Mast Association | Sawtimber Well | 127.8 | 89 | 51-80 | OPIC - FMD: (9/14/06 AP) FTP C41-858 closed with letter. Majority of acreage was planted. To late to plant remaining acreage. Stand was cut between 1995-1996. There are heavy areas of beech and beech bark disease is just entering the stand. For this reason, cut stand now to salvage some of the beech and attempt to convert those areas to other species. There is good regen but when cut concentrate on making quality regen holes in areas lacking regen. [6/4/10 bb] Stand is now on proposal 41-17-10 Brace Creek Hardwood 2 Actual Stand acres = 132. Units 4,5 and 6. Residual BA hard maple 50 sq ft, red maple 08 sq ft, hemlock 3 sq ft, beech 7 sq ft and cherry 1 sq ft, yellow birch 3 sq ft, red pine 1 sq ft. [10/3/2013 TI] Sale is closed. TCR date 6/21/13. |
| 31 | 42380 - Non Pine Upland Conifer, Mixed Deciduous | Sawtimber Well | 30.2 | 80 | 141-170 | |
| 32 | 4132 - Aspen, Jack Pine | Sapling Well | 65.5 | 17 | Immature | [10-24-03 BB] Southern part of the stand was cut under contract 34-00, Mad Hawk Sale. Stand was cut in the spring of 2001. The stand is regenerating well but hardly any birch is coming back. |
| 34 | 4140 - Other Upland Deciduous | Poletimber Medium | 7.1 | 79 | 51-80 | Stand turns to spruce on the east and south. There is a creek that runs through the stand which makes the stand in-operable. |
| 35 | 4133 - Aspen, Mixed Pine | Poletimber Poor | 1.5 | 38 | 1-50 | |
| 38 | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber Well | 9.0 | 79 | 51-80 | The stand is a buffer area for two different creeks. |
| 39 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Medium | 0.7 | 75 | 1-50 | |
| 40 | 6139 - Mixed Lowland Forest | Poletimber Poor | 13.5 | 35 | 1-50 | OPIC - FMD: Stand is an M3 on the west, as you go east it gets wetter and turns to aspen birch. Good regen though lots of tag alder. Nice yellow birch on west edge red maple throughout. Soils are Carbondale-Lupton-Tawas mucks. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|-----------------|-------|--------------|-------------|---|
| 41 | 42200 - Natural White Pine | Sawtimber Well | 17.9 | 58 | 51-80 | <p>[6/4/10 bb] Stand is now on proposal 41-16-10 Mad Hawk Red Pine. Actual Stand acres = 15. Unit 4. Residual BA red pine 24 sq ft, white pine 57 sq ft, red maple 1 sq ft, paper birch 3 sq ft</p> <p>[7/19/11 bb] Sale is now closed, TCR date is 7/18/11. This was a thinning so no regen tracking. Cut spring 2011.</p> |
| 42 | 4117 - Mixed N. Hardwood - Pine | Sapling Poor | 1.1 | 7 | Immature | <p>OPIC - FMD: Stand is very small final harvest stand and leave hemlock and white pine. Soils are Rubicion and the Habitat type is PARV.</p> <p>[6/4/10 bb] Stand is now on proposal 41-16-10 Mad Hawk Red Pine. Actual Stand acres = 1. Component of Unit 5 To ease sale prep the stand was marked for cutting.. Residual BA white pine 5 sq ft, aspen 10 sq ft, beech 10 sq ft and red maple 5 sq ft.</p> <p>[7/19/11 bb] Sale is now closed, TCR date is 7/18/11. This was a final harvest so the stand is on the timeclock. Cut spring 2011.</p> |
| 46 | 42141 - Planted Mixed Pine, Mixed Deciduous | Sapling Poor | 7.1 | 5 | Immature | <p>10/12/11 bb Stand is now on proposal 23-10-01, Unit 1, 6 acres. Residual BA white pine 3' and red pine 9'</p> <p>stand was trenched and planted in spring 2015. 333 jack pine, 16 white pine, 16 black spruce, 16 red pine + aspen. About 30% of stand is fully stocked aspen. Poor regeneration numbers jack pine due to poor trenching. Thick slash mat created trenching issues and less available planting areas. Nothing can be done now, stand is a fully stocked mixed stand now.</p> |
| 47 | 42200 - Natural White Pine | Sawtimber Poor | 20.0 | 83 | 1-50 | <p>10/12/11 bb Stand is now on proposal 23-10-01, Unit 1, 6 acres. Residual BA white pine 15' and red pine 10'. Stutts Creek was adequately buffered.</p> <p>[10/3/2013 TI] Sale is closed. TCR date 6/21/13.</p> <p>Site was planted to jack pine accidentally by TMS. but I would suggest the MO be switched to jack pine. There is a lot of aspen competition and herbicide work would not be feasible due to existing pine in overstory. This will never be a quality red pine plantation.</p> <p>1st year regen check - 413 jack pine, 57 white pine, 14 red pine, 100 black spruce. Approximately 20% of stand is fully stocked with aspen also and scattered aspen was present on all plots.</p> |
| 48 | 42111 - Planted Red Pine, Mixed Deciduous | Sapling Medium | 9.4 | 16 | Immature | <p>OPIC - FMD: Stand cut under contract 34-00, Mad Hawk Sale. Stand was cut summer of 2001. Stand was planted under FTP C41-996, never burned, planted in spring 2002. Waiting for regen count results.</p> <p>[1/7/04 BB] Stand was covered under FTP-996, stand was never burned and therefore this FTP was cancelled with a blanket letter.</p> <p>New OI Comments, the red pine is being over-topped by a fully stocked stand of A3 which needs to be treated. FTP C41-997 is still open and release work should occur soon. Soils are Rubicion and the Habitat type is PARV.</p> <p>(8/25/08 AP) Inmates hinged aspen and site looks good.</p> <p>(6/3/2010 AP) FTP 997 is closed after review by TMS. No further release work needed.</p> |
| 51 | 42320 - Upland Spruce | Poletimber Well | 5.1 | 77 | Unspecified | |

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 58
Year of Entry: 2020



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|-------------------------------|-------------------|-------|--------------|-------------|---|
| 52 | 42210 - Natural Red Pine | Sawtimber Well | 1.0 | 92 | 81-110 | Stand access is difficult due to multiple drainages in adjacent stands. |
| 53 | 6124 - Lowland Spruce- Fir | Sapling Poor | 5.3 | 15 | Immature | OPIC - FMD: [10-24-03 BB] Stand cut under contract 34-00, Mad Hawk Sale. Stand was cut winter 2003. Did a walk through regen survey and the stand is fully stocked with spruce and balsam. There is even hemlock regen near the ridge. The red maple and birch were browsed hard but are still trying to sprout. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|----------------------------|-------|--------------|---|
| 5 | 6229 - Mixed lowland shrub | 17.0 | No | |
| 7 | 6229 - Mixed lowland shrub | 334.9 | No | OPIC - FMD: Soils are Carbon Lupton Tawas Muck |
| 8 | 330 - Low-Density Trees | 13.4 | | 10/12/11 bb Stand is now on proposal 23-10-01, Unit 2, 12 acres. All retention was excluded in sale boundary 4 acres (25%). [10/3/2013 TI] Sale is closed. TCR date 6/21/13. |
| 9 | 500 - Water | 6.0 | No | OPIC - FMD: Stutt Creek. |
| 10 | 622 - Lowland Shrub | 2.0 | No | OPIC - FMD: Soils are Carbon Lupton Tawas Muck |
| 19 | 6229 - Mixed lowland shrub | 2.8 | | OPIC - FMD: [6/23/05 BB] Sale is now closed, Brace Creek Sale. Stand cut winter 2005. Check regeneration in 2009. Stand examined in spring of 2008 under normal inventory with a walk through regen check which showed a few black spruce but not enough to be considered even adequately stocked. However, the stand has 1 more year before it needs to be fully stocked so check again next year. Soils are Proper Fine sand and the Habitat type is PVE. (4/28/2010 AP) Regeneration walkthrough done spring of 2010. Not much of anything here. Black spruce is dominant species, but numbers are well below 600 tpa. Stand is not fully stocked and was referred to TMS. FTP #C41-1466 Trench and Replant Jack pine. Part of Brace Creek Pine, sale 27-2000 originally spruce that dried out and did not regenerate. |
| 20 | 6229 - Mixed lowland shrub | 0.5 | | Stand is not regenerating very well but slowly filling in with lowland species. OPIC - FMD: [6/23/05 BB] Sale is now closed, Brace Creek Sale. Stand cut winter 2005. Check regeneration in 2009. Stand examined in spring of 2008 under normal inventory with a walk through regen check which showed a few black spruce but not enough to be considered even adequately stocked. However, the stand has 1 more year before it needs to be fully stocked so check again next year. Soils are Proper Fine sand and the Habitat type is PVE. (4/28/2010 AP) Regeneration walkthrough done spring of 2010. Not much of anything here. Black spruce is dominant species, but numbers are well below 600 tpa. Stand is not fully stocked and was referred to TMS. FTP #C41-1466 Trench and Replant Jack pine. Part of Brace Creek Pine, sale 27-2000 originally spruce that dried out and did not regenerate. |
| 50 | 500 - Water | 0.8 | No | OPIC - FMD: Oxbow of Stutt Creek. |
| 415 | 310 - Herbaceous Openland | 2.7 | No | |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|---------------------------|-------|--------------|--|
| 426 | 310 - Herbaceous Openland | 150.7 | Yes | OPIC - FMD: Burned spring 2000. Aspen and jack pine sprouted back, jack pine area quite vigorously. Schedule for chipping with adjacent stands and burn again after sale. Soils are Rubicion and the Habitat type is PArV. Compartment Review Decision treat stand with adjacent compartment in 2009 YOE. [9/30/09 BB] Sale is now on proposal, Roll-O-Ways Chips 35-09. [10/3/2013 TI] Sale is closed. TCR date is 11/26/2012 (10/1/2015) stand was harvested with Roll-O-Way chips and was burned in spring of 2015. |