



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41126

Entry Year 2019

Acreage: 3,646

County Schoolcraft

Management Area: Danaher Kingston Outwash

Revision Date: 2017-05-12

Stand Examiner: Scott Kentner

Legal Description:

T47N, R14W, sec. 25-27, 34-36

Identified Planning Goals:

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

Soil and topography:

Rubicon Sand, 0-6% slopes

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

There are two privately owned camps within the compartment, some private and industrial private land to the south, otherwise surrounded by state owned land.

Unique Natural Features:

Currently under review by MNFI.

Archeological, Historical, and Cultural Features:

Old logging camp within the compartment.

Special Management Designations or Considerations:

none

Watershed and Fisheries Considerations:

No fisheries concerns.

Wildlife Habitat Considerations:

Located approximately 5 miles northwest of Seney, the Sunken Lake Road bisects this compartment. Pre-settlement data show white pine, red pine, and beech dominated the virgin forests. Red maple, yellow birch, white birch, and hemlock were also common. Surveyors noted large amounts of dead fallen and blown over trees. Mountain ash was a common understory species.

Current land cover is significantly different from the circa 1850 forests. Now, the land is a composite of large openings, jack pine and red pine plantations, and a smattering of aspen, white pine, and oak.

This area lies within the defined corridor for large opening complexes. As such, the primary wildlife habitat objectives are to consolidate the large openings and the forest blocks making both of these systems more valuable to their respective suites of species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. The Trenton and Black River are quarried for stone/dolomite elsewhere in the UP. Gravel pits are not found in the general area, but there could be some potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

Good access; trail roads throughout the compartment.

Survey Needs:

Recreational Facilities and Opportunities:

Although there are no developed DNR recreational facilities within the compartment, the area is used for hunting, blueberry picking, ATV riders, and snowmobiling.

Fire Protection:

Pine species and large openings dominate the landscape. Level terrain and numerous roads make the area easily accessible.

Additional Compartment Information:

The following reports from the Inventory are attached:

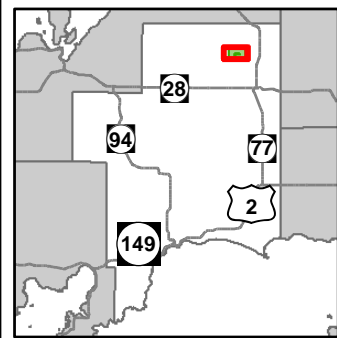
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

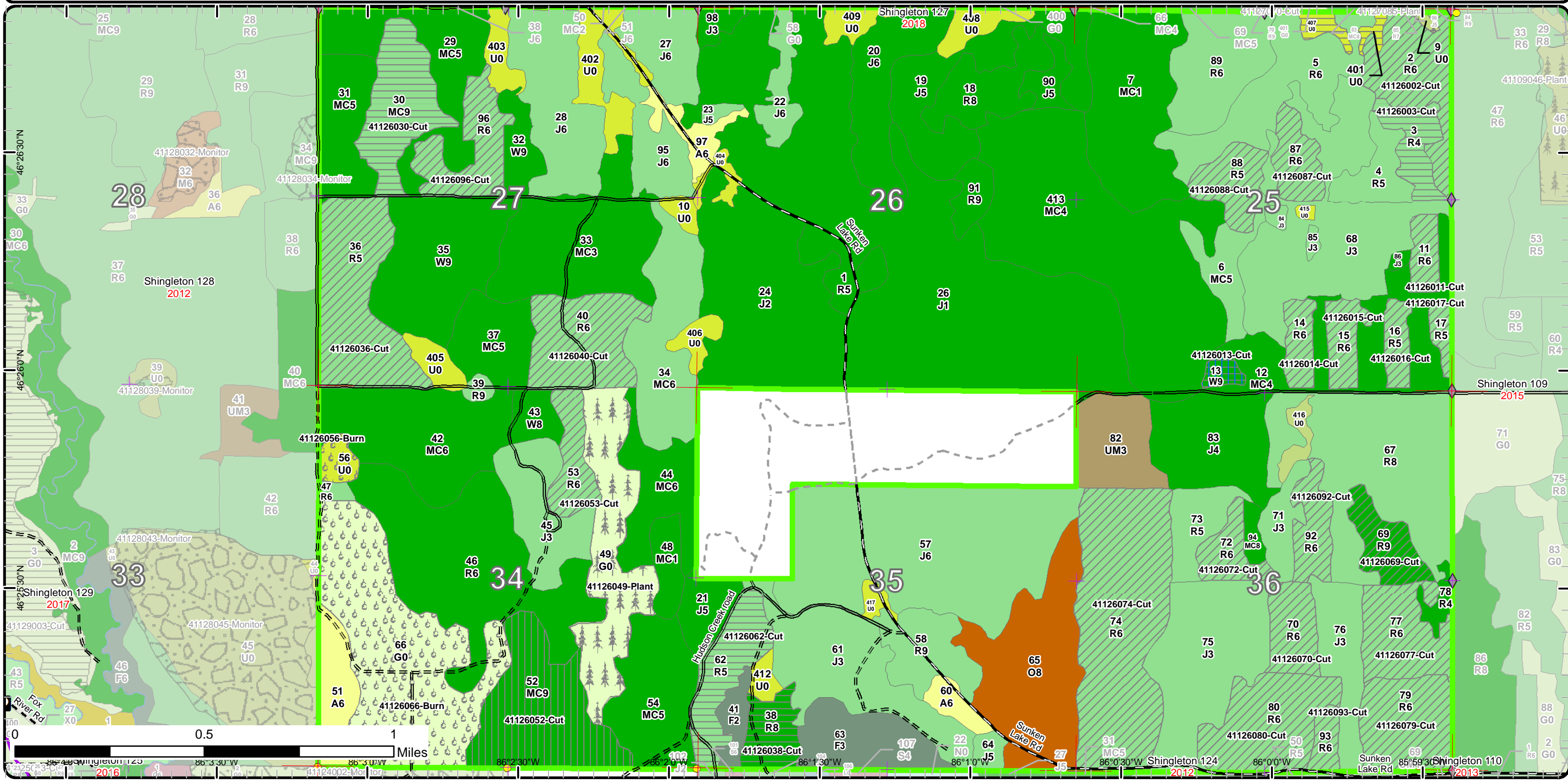
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 126
 T47N, R14W, Sec: 25-27, 34-36
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Danaher Kingston
 Outwash
 YOE: 2019
 Acres: 3,646 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 7/30/2018
 Map Phase: Post Review

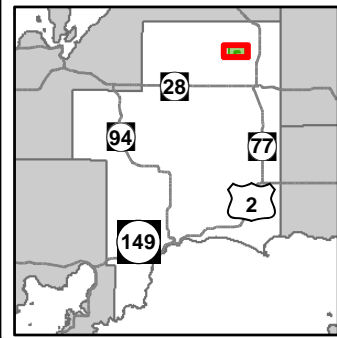


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Designated Snowmobile Trails
- Perennial River
- Compartment Boundary
- Planting (tree species)
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees

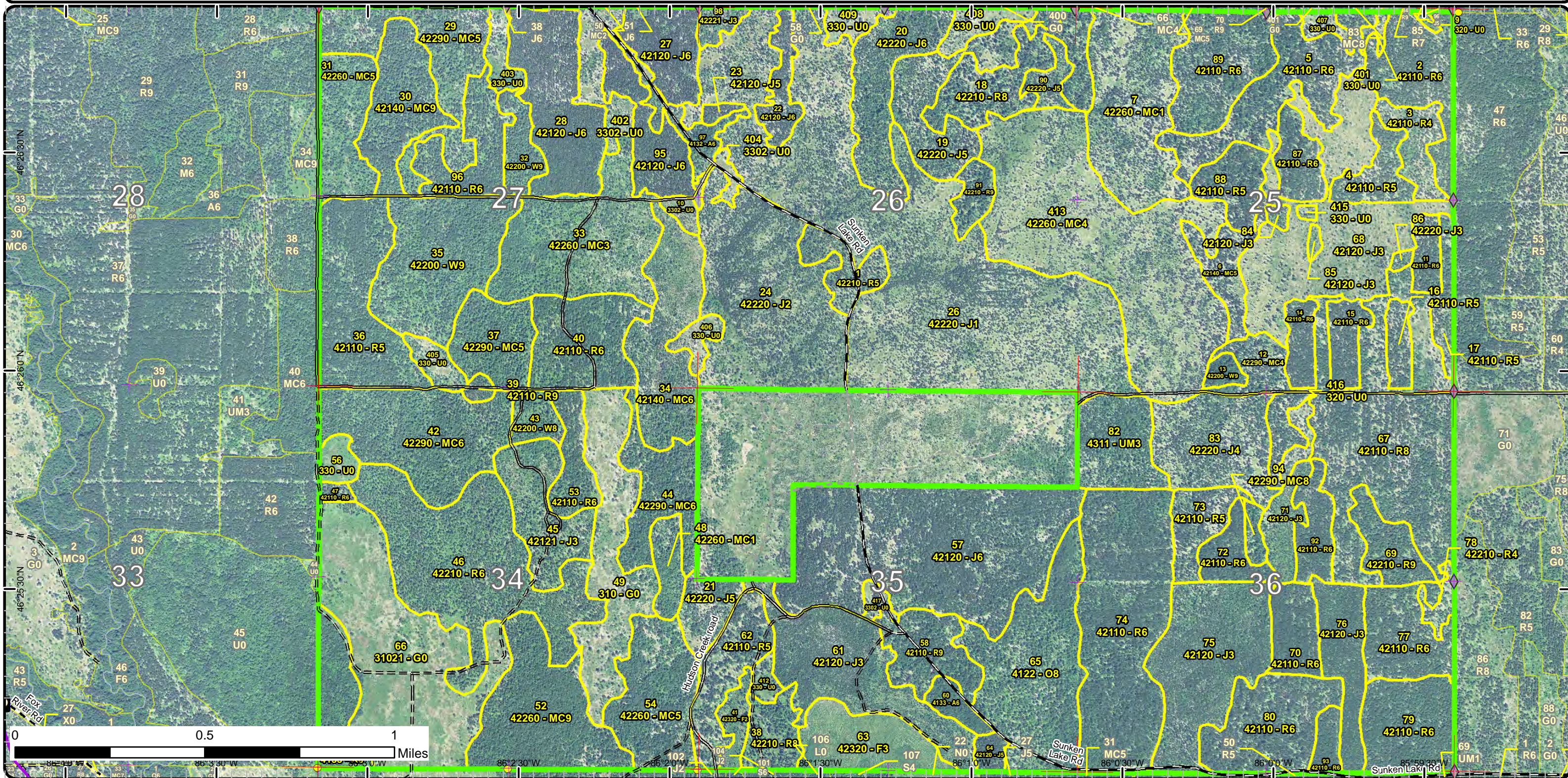


Stand Boundary Map

Compartment: 126
 T47N, R14W, Sec: 25-27, 34-36
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Danaher Kingston
 Outwash
 YOE: 2019
 Acres: 3,646 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 7/30/2018
 Map Phase: Post Review

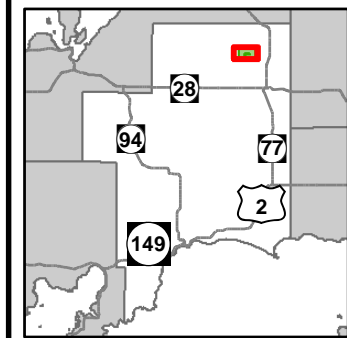


- Miris Corners
 - + Remonumented Section Corners
 - Survey Grade Corners
 - ◆ Field Grade Corners
 - Counties
 - DNR - Primary Forest Road
 - DNR - Secondary Forest Road
 - DNR - Forest Access Route
 - Federal / State - Dirt / Gravel Road
 - Private - Dirt / Gravel Road
 - Designated Snowmobile Trails
 - Perennial River
 - Compartment Boundary
 - Stand Boundaries
- 412 - Oak Types
 - 413 - Aspen
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 430 - Upland Mixed Forest
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low Density Trees

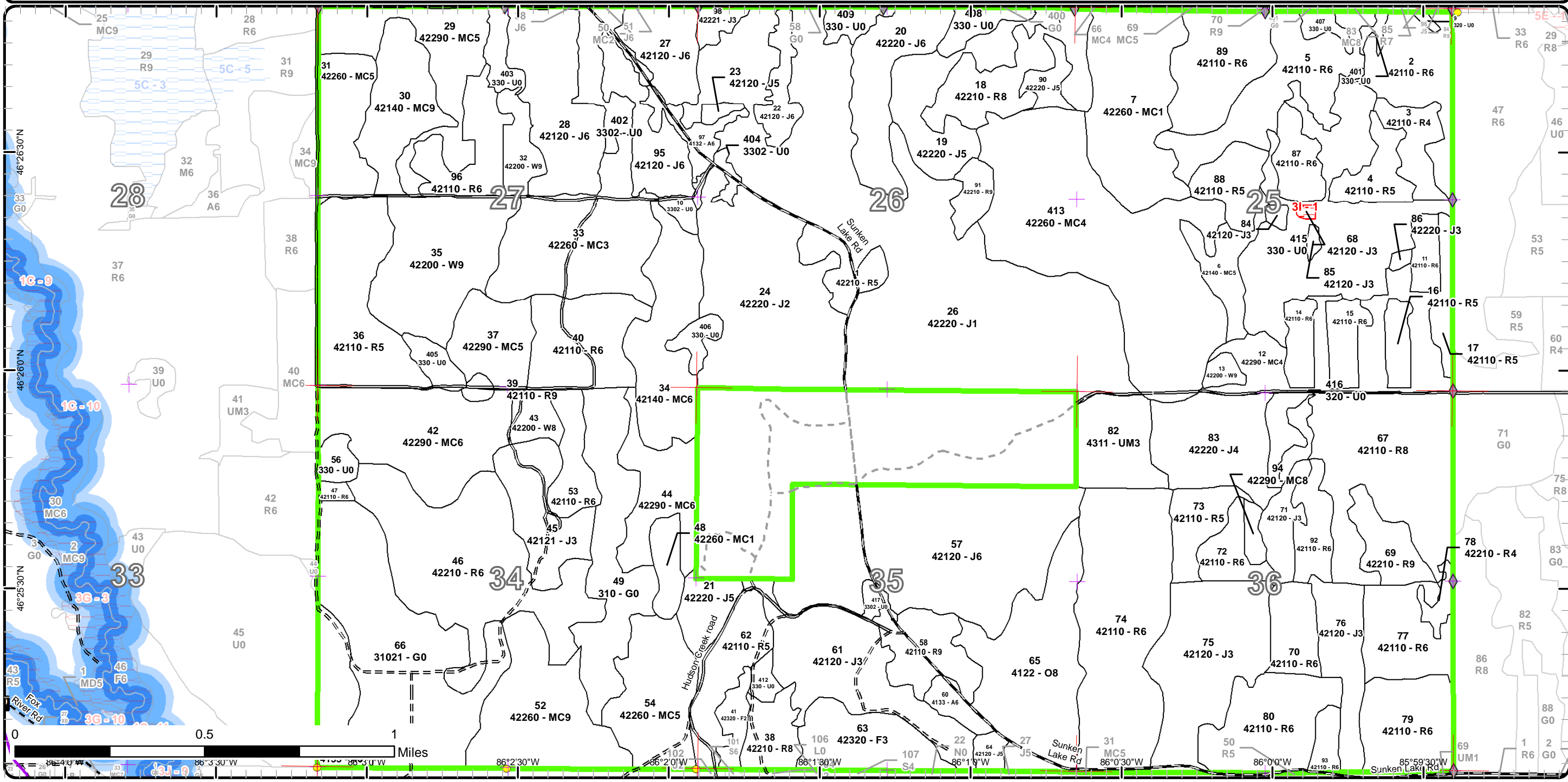


Special Conservation Areas & Site Conditions Map

Compartment: 126
 T47N, R14W, Sec: 25-27, 34-36
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Danaher Kingston
 Outwash
 YOE: 2019
 Acres: 3,646 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 7/30/2018
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Designated Snowmobile Trails
- Perennial River
- Compartment Boundary
- Unavailable
- 3I: Historical / archeological (add locked comments)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- 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	12	0	33	0	0	0	0	0	0	0	0	0	0	0	0	45
Herbaceous Openland	179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179
Jack Pine	0	96	5	311	457	289	0	0	0	0	0	0	0	0	0	0	0	0	1158
Low-Density Trees	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Natural Mixed Pines	0	0	0	252	73	55	181	34	112	0	0	0	0	0	0	0	0	5	710
Oak	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	0	0	80
Planted Mixed Pines	0	0	54	0	0	0	19	39	0	0	0	0	0	0	0	0	0	0	112
Red Pine	0	0	0	0	0	17	822	60	189	0	0	0	0	0	0	0	0	0	1087
Upland Mixed Forest	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Spruce/Fir	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
White Pine	0	0	0	0	0	0	72	14	11	0	0	0	0	0	0	0	0	0	96
Total	282	96	103	575	562	394	1174	147	312	0	0	0	0	0	0	0	0	5	3645



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 126
Total Compartment Acres: 3,646

Commercial Harvest - 753
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Low-Density Trees	7	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	0	0	0	0	64	0	0	0	0	64
Planted Mixed Pines	39	0	0	0	0	0	0	0	0	39
Red Pine	65	0	0	0	0	573	0	0	0	638
White Pine	0	0	0	5	0	0	0	0	0	5
Total	111	0	0	5	64	573	0	0	0	753

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	753	0	61	0	124	0	0	0	0	938
Next Step	0	163	103	0	17	65	528	0	0	876
Total	753	163	164	0	141	65	528	0	0	1814



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
2	41126002-Cut	38.4	42110 - Planted Red Pine	Poletimber Well	59	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

3	41126003-Cut	16.8	42110 - Planted Red Pine	Poletimber Poor	59	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut: Cut all trees down to 2" except oak if present. No retention due to small stand size.

Specs:

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

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

9	41126009- Plant	1.1	320 - Upland Shrub	Nonstocked	0	Unspec ified	Planting	Underplant	412 - Oak Types	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Plant site to oak and jack pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, birch

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

11	41126011-Cut	9.4	42110 - Planted Red Pine	Poletimber Well	55	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
13	41126013-Cut	4.7	42200 - Natural White Pine	Sawtimber Well	58	81-110	Harvest	Seed Tree with Retention	4220 - Natural White Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Seed tree: Mark 10-20 BA of White and Red pine with Green paint. Leave some paper birch and other species.

Specs:

Next Step ; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable White pine, Red pine, Jack pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

14	41126014-Cut	11.1	42110 - Planted Red Pine	Poletimber Well	55	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

15	41126015-Cut	12.8	42110 - Planted Red Pine	Poletimber Well	55	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

16	41126016-Cut	9.5	42110 - Planted Red Pine	Poletimber Medium	55	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
17	41126017-Cut	5.8	42110 - Planted Red Pine	Poletimber Medium	55	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

30	41126030-Cut	38.9	42140 - Planted Mixed Pine	Sawtimber Well	63	111- 140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention: Cut all trees, leave retention pocket.

Specs:

Next Step

SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

36	41126036-Cut	62.2	42110 - Planted Red Pine	Poletimber Medium	57	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription 1sr entry thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

38	41126038-Cut	17.1	42210 - Natural Red Pine	Sawtimber Medium	70	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention: Cut all trees. Remove slash.

Specs:

Next Step

SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder/Mechanical; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
40	41126040-Cut	43.1	42110 - Planted Red Pine	Poletimber Well	57	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> 1st entry thinning: Mark every 3rd row.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Red pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
49	41126049- Plant	59.9	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Planting	Initial Plant	42120 - Planted Jack Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> plant site to Jack pine											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Trenching; ; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Jack pine											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
52	41126052-Cut	64.0	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	70	81-110	Harvest	Shelterwood with Retention	4122 - Oak, Pine	Two-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Shelterwood with retention: Mark stand to promote oak and to release oak regeneration. In areas with no oak, mark red and white to shelterwood											
<u>Specs:</u> levels (40-60BA where possible). Protect oak regen where it exist.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Primarily: Oak Secondary: Red pine, White pine, Paper Birch											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
53	41126053-Cut	18.0	42110 - Planted Red Pine	Poletimber Well	54	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> 1st Entry thinning: Mark every 3rd row to harvest.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Red pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
56	41126056-Burn	7.0	330 - Low-Density Trees	Nonstocked	0	Unspecified	Burn	Opening	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Rx Burn: Opening Maintenance, burn in spring or fall to kill all aspen and red maple starting to grow into opening.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

62	41126062-Cut	30.6	42110 - Planted Red Pine	Poletimber Medium	73	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention: Cut all trees down to 2". Remove all slash. Leave Retention near edge in case of spraying operation.

Specs:

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

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

66	41126066-Burn	117.4	31021 - Cool Season Grass	Nonstocked	0	Unspecified	Burn	Opening	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Rx Burn: Opening Maintenance, burn in spring or fall to kill all aspen and red maple starting to grow into opening.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

69	41126069-Cut	18.8	42210 - Natural Red Pine	Sawtimber Well	68	81-110	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Crown thinning: Mark larger trees (>10") to release smaller trees to grow. Mark for maneuverability first. Residual BA will be variable but should

Specs: not be below 60. Leave a few large Red and White Pine trees for wildlife.

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
70	41126070-Cut	19.1	42110 - Planted Red Pine	Poletimber Well	54	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

72	41126072-Cut	14.1	42110 - Planted Red Pine	Poletimber Well	54	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

74	41126074-Cut	106.2	42110 - Planted Red Pine	Poletimber Well	58	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

77	41126077-Cut	33.1	42110 - Planted Red Pine	Poletimber Well	58	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
79	41126079-Cut	37.9	42110 - Planted Red Pine	Poletimber Well	58	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

80	41126080-Cut	46.0	42110 - Planted Red Pine	Poletimber Well	58	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

87	41126087-Cut	16.0	42110 - Planted Red Pine	Poletimber Well	55	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

88	41126088-Cut	19.0	42110 - Planted Red Pine	Poletimber Medium	55	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
92	41126092-Cut	16.8	42110 - Planted Red Pine	Poletimber Well	54	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

93	41126093-Cut	7.5	42110 - Planted Red Pine	Poletimber Well	54	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription First Entry Thinning: Mark every 3rd row for harvest.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

96	41126096-Cut	28.4	42110 - Planted Red Pine	Poletimber Well	57	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription 1st entry thinning: Mark every 3rd row.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

401	41126401-Cut	2.5	330 - Low-Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening Maintenance/ Clearcut: Harvest all trees down to 2" except oak if present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Grass

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
407	41126407-Cut	4.8	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Opening Maintenance/ Clearcut: Harvest all trees down to 2", except oak if present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Grass

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 938.0

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Scott Kentner : Examiner

Compartment: 126
 Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	
45	45	0	0	Aspen	
179	179	0	0	Herbaceous Openland	
1158	1158	0	0	Jack Pine	
96	95	0	1	Low-Density Trees	1
711	711	0	0	Natural Mixed Pines	
80	80	0	0	Oak	
111	111	0	0	Planted Mixed Pines	
1087	1087	0	0	Red Pine	
32	32	0	0	Upland Mixed Forest	
7	7	0	0	Upland Shrub	
44	44	0	0	Upland Spruce/Fir	
96	96	0	0	White Pine	
3,646	3,645		1	Total Forested Acres	1
	100%		0%	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	3I: Historical / archeological (add locked comments)	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
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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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42210 - Natural Red Pine	Poletimber Medium	16.5	48	1-50	Shelterwood/seed cut in 2001.
2	42110 - Planted Red Pine	Poletimber Well	38.4	59	81-110	Hardwood and aspen were removed in 2002.
3	42110 - Planted Red Pine	Poletimber Poor	16.8	59	81-110	Sparse red pine plantation. Hardwoods and aspen were removed in 2002.
4	42110 - Planted Red Pine	Poletimber Medium	16.8	59	51-80	Hardwood and aspen were removed in 2002.
5	42110 - Planted Red Pine	Poletimber Well	52.2	55	81-110	Competing hardwoods cut last entry.
6	42140 - Planted Mixed Pine	Poletimber Medium	18.6	55	51-80	A lot of open areas within the stand.
7	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	72.5	30	Immature	
11	42110 - Planted Red Pine	Poletimber Well	9.4	55	81-110	Planted RP with variable BA due to poor row integrity.
12	42290 - Natural Mixed Pine	Poletimber Poor	54.5	48	1-50	Old grass stand filling in with trees (white pine, jack pine, aspen, red pine). Part of a swap involving grass and treed areas: let regenerate naturally.
13	42200 - Natural White Pine	Sawtimber Well	4.7	58	81-110	: Large white and red pine scattered throughout. Regeneration consists mainly of white pine.
14	42110 - Planted Red Pine	Poletimber Well	11.1	55	111-140	Planted RP with variable BA due to poor row integrity.
15	42110 - Planted Red Pine	Poletimber Well	12.8	55	111-140	Planted RP with variable BA due to poor row integrity.
16	42110 - Planted Red Pine	Poletimber Medium	9.5	55	81-110	Planted RP - rows are often sparse.
17	42110 - Planted Red Pine	Poletimber Medium	5.8	55	81-110	Planted RP - rows are often sparse.
18	42210 - Natural Red Pine	Sawtimber Medium	41.0	63	51-80	Shelterwood/seed cut in 2000 - scattered red and white pine left. Regeneration is a mix of white pine, red pine.
19	42220 - Natural Jack Pine	Poletimber Medium	40.5	28	Immature	
20	42220 - Natural Jack Pine	Poletimber Well	41.1	29	51-80	



Stand	Shingleton Mgt. Unit		Report 7 – Forested Stands			Compartment: 126 Year of Entry: 2019	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
21	42220 - Natural Jack Pine	Poletimber Medium	15.4	49	51-80		
22	42120 - Planted Jack Pine	Poletimber Well	13.9	48	51-80		
23	42120 - Planted Jack Pine	Poletimber Medium	2.6	30	51-80	Very poor plantation.	
24	42220 - Natural Jack Pine	Sapling Medium	106.3	30	Immature	Patchy Jack Pine regeneration, with scattered small grassy openings. Ground cover consists mainly of grass and lichen. South West corner is where most the aspen is present mixed in with the JP.	
26	42220 - Natural Jack Pine	Sapling Poor	294.5	36	1-50	Variable density jack pine (J1-J3).	
27	42120 - Planted Jack Pine	Poletimber Well	26.0	48	111-140		
28	42120 - Planted Jack Pine	Poletimber Well	55.1	48	81-110	Jack pine with red pine mixed into the rows.	
29	42290 - Natural Mixed Pine	Poletimber Medium	50.5	57	1-50	Thinned in 2000. Regeneration species include: white pine, aspen, red maple. South part of stand is a different density than the north part. South part has random red planation remnants scattered.	
30	42140 - Planted Mixed Pine	Sawtimber Well	38.9	63	111-140	Thinned last entry.	
31	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	32.7	54	1-50	Sunken complex: 41-054-99-01. Thinned.	
32	42200 - Natural White Pine	Sawtimber Well	13.8	68	81-110	Thinned. TS: 41-054-99-01 Sunken Complex.	
33	42260 - Natural Pine, Mixed Deciduous	Sapling Well	75.9	21	Immature	[4-29-04]Thinned under TS # 54-99 Sunken Complex; sale is now closed.	
34	42140 - Planted Mixed Pine	Poletimber Well	53.7	17	Immature	(05-21-01): JP planted under C41-724; schedule regen check in 2002. [9-4-03 RFT] 2003 survey indicates 298 JP + 215 other trees per acre - regen is successful.	
35	42200 - Natural White Pine	Sawtimber Well	66.9	53	81-110	Sunken Complex. 41-054-99-01	
36	42110 - Planted Red Pine	Poletimber Medium	62.2	57	111-140	[4-29-04] This stand was thinned under TS # 54-99 Sunken Complex; sale is now closed. Planted RP of variable BA. Regeneration species are a mix of white pine, red maple and aspen.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	42290 - Natural Mixed Pine	Poletimber Medium	29.2	58	51-80	[4-29-04] Thinned under TS # 54-99 Sunken Complex; sale is now closed.
38	42210 - Natural Red Pine	Sawtimber Medium	17.1	70	1-50	Stand was cut with TS#04-00. Stand is now a shelterwood /seedtree with great Red pine regen.
39	42110 - Planted Red Pine	Sawtimber Well	3.0	70	81-110	[11-04-10] Stand is now under contract TS# 41-034-09-01 Birds Rehab Pine. Residual BA- red pine = 73; white pine = 25; total = 98 sq.ft./acre.
40	42110 - Planted Red Pine	Poletimber Well	43.1	57	81-110	Hardwood and aspen were removed last entry.
41	42320 - Upland Spruce	Sapling Medium	9.4	17	Immature	Cut under TS#04-00 TCR dtd 10/14/01. Stand is well stocked with a mixture of regeneration. Most of the regeneration is black spruce.
42	42290 - Natural Mixed Pine	Poletimber Well	68.8	54	51-80	Stand was cut with TS#54-99, Sunken Lake Complex. Stand is mostly white pine poles with an aspen understory.
43	42200 - Natural White Pine	Sawtimber Medium	10.5	78	1-50	
44	42290 - Natural Mixed Pine	Poletimber Well	34.3	64	81-110	Even mixture of red pine and white pine.
45	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	35.9	21	Immature	Scarified under C41-724. Part of area (24 ACRES) already regenerated to J3 - regen ok in 2000. (05-14-01): JP planted in the rest of the stand under C41-724; schedule regen check in 2002. [9-4-03 RFT] 2003 survey indicates 298 JP + 215 other trees per acre - regen is successful.
46	42210 - Natural Red Pine	Poletimber Well	110.5	70	81-110	[11-04-10] contract TS# 41-034-09-01Birds rehab Pine. Residual BA- red pine, white pine.
47	42110 - Planted Red Pine	Poletimber Well	2.8	54	81-110	[11-04-10] contract TS# 41-034-09-01Birds rehab Pine. Residual BA - red pine = 95 sq.ft./acre.
48	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	12.2	24	Immature	2001 regen check: 716 jp/ss/ac.
51	4133 - Aspen, Mixed Pine	Poletimber Well	25.4	41	81-110	10/25/12 bb A small inclusion of this stand was included with a sale in the Adjacent Compartment 128. Sale is Kicken Aspen, 39-12. Also some retention was included along the line in the adjacent compartment 128, DO not include this when the balance of this stand is prepared.
52	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	64.1	70	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	42110 - Planted Red Pine	Poletimber Well	18.0	54	111-140	red pine plantation.
54	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	48.2	75	51-80	
57	42120 - Planted Jack Pine	Poletimber Well	151.1	40	141-170	OPIC - FMD: Jack Pine interspersed with small grass openings. Scattered residual red and white pine (<10 BA). Soil=Rubicon Sand 0-6% slopes
58	42110 - Planted Red Pine	Sawtimber Well	27.9	78	51-80	Cut in 2001.
60	4133 - Aspen, Mixed Pine	Poletimber Well	8.0	41	81-110	Stand cut and TSI'd in 1977. Two-aged stand, red pine logs over and aspen understory. Aspen is starting to reach merchantability. Stand should be held until aspen reaches maturity.
61	42120 - Planted Jack Pine	Sapling Well	64.4	24	Immature	8 acres planted spring 1996. Regeneration check in 2000 shows these acres successfully regenerated. FTP C41-668 completed 716 jp/ss/ac 1/01.
62	42110 - Planted Red Pine	Poletimber Medium	30.6	73	81-110	Basal area is inconsistent. Stand consists of patches of red pine and open areas.
63	42320 - Upland Spruce	Sapling Well	34.5	17	Immature	Cut under TS#04-00 TCR dtd 10/14/01. Stand is well stocked with a mixture of regeneration. Most of the regeneration is black spruce.
64	42120 - Planted Jack Pine	Poletimber Medium	5.0	39	81-110	
65	4122 - Oak, Pine	Sawtimber Medium	80.0	53	51-80	Cut under TS# 51-99-01 TCR dtd 6-13-01. See FTP# W41-946 (Aspen TSI, retaining pine/oak). [11/22/02] RFT - FTP W41-946 complete 11/15/02. Mix of Oak, white pine and red pine. Regeneration is a mix of oak, white pine, Red pine.
67	42110 - Planted Red Pine	Sawtimber Medium	100.7	55	81-110	poorly stocked plantation Variable BA - some rows are sparse. Grass and reindeer moss in the openings.
68	42120 - Planted Jack Pine	Sapling Well	95.6	8	Immature	[07/15/10] Cut under TS 41-002-09-01 Lonely Pines; sale is now closed/completed TCR dtd 07/14/10. See FTP C41-1405 (jack pine planting.) Residual BA = 5 sq.ft./acre of red & white pine. (Stand was trenched in summer of 2012 by holli and planted in spring of 2013 by Superior forestry Planted approx. 1111 T/A cost of 9900.00. Regeneration check scheduled in 2014. Regen check in 2017, passed close FTP.
69	42210 - Natural Red Pine	Sawtimber Well	18.8	68	81-110	Thinned in 1994.
70	42110 - Planted Red Pine	Poletimber Well	19.1	54	111-140	Planted red pine.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	42120 - Planted Jack Pine	Sapling Well	14.1	20	171-200	OPIC - FMD: [9-4-03 RFT] 2003 survey indicates 571 JP + 96 other trees per acre - regen is successful. Jack pine with some red maple, aspen and red pine. Also a few residual white and jack pine. Soil=Rubicon Sand 0-6% slopes
72	42110 - Planted Red Pine	Poletimber Well	14.1	54	111-140	Plantation with pockets of Jack pine in the center of stand.
73	42110 - Planted Red Pine	Poletimber Medium	18.6	54	51-80	Poor survival in plantation.
74	42110 - Planted Red Pine	Poletimber Well	106.2	58	111-140	Competing species were cut out. Ben's oleo Acres TS: 41-051-99-01 TCR 2001.
75	42120 - Planted Jack Pine	Sapling Well	71.3	20	Immature	OPIC - FMD: [9-4-03 RFT] 2003 survey indicates 571 JP + 96 other trees per acre - regen is successful. Scattered residual trees (<10 sq.ft.) including jack pine, red pine, white pine, red maple, and aspen. Soil=Rubicon Sand 0-6% slopes
76	42120 - Planted Jack Pine	Sapling Well	29.1	20	141-170	[9-4-03 RFT] 2003 survey indicates 571 JP + 96 other trees per acre.
77	42110 - Planted Red Pine	Poletimber Well	33.1	58	111-140	Variable BA - openings in rows. Mainly red pine with some jack pine. Rows seem to run Eastish to Westish
78	42210 - Natural Red Pine	Poletimber Poor	5.8	59	1-50	Sparse red pine scattered.
79	42110 - Planted Red Pine	Poletimber Well	37.9	58	111-140	White pine is mixed in with the plantation, mostly on the east side of the stand.
80	42110 - Planted Red Pine	Poletimber Well	46.0	58	111-140	Red pine with some Jack on the east side of stand. Scattered openings.
82	4311 - Pine, Aspen Mix	Sapling Well	31.8	31	Immature	Mixed aspen with jack pine, white pine.
83	42220 - Natural Jack Pine	Poletimber Poor	48.3	36	1-50	Jack pine with aspen mixed in. A few merchantable trees (<10 BA) jack pine, red pine and white pine.
84	42120 - Planted Jack Pine	Sapling Well	2.0	16	Immature	Planted in 2002. Some natural regeneration from cut in 1996.
85	42120 - Planted Jack Pine	Sapling Well	1.6	16	Immature	OPIC - FMD: Planted in 2002. Some natural regeneration from cut in 1996.
86	42220 - Natural Jack Pine	Sapling Well	1.5	16	Immature	Planted in 2002. Some natural regeneration from cut in 1996.
87	42110 - Planted Red Pine	Poletimber Well	16.0	55	81-110	Hardwood and aspen were removed last entry.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
88	42110 - Planted Red Pine	Poletimber Medium	19.0	55	111-140	Hardwood and aspen were removed last entry.
89	42110 - Planted Red Pine	Poletimber Well	42.9	55	81-110	
90	42220 - Natural Jack Pine	Poletimber Medium	8.6	28	Immature	OPIC - FMD: Jack pine with some red maple, aspen and white pine. Scattered residual tree species are red pine, jack pine and white pine (91/2). Soil=Rubicon Sand 0-6% slopes
91	42210 - Natural Red Pine	Sawtimber Well	10.1	58	51-80	Cut last entry. Regeneration species include: jack pine, white pine and red pine.
92	42110 - Planted Red Pine	Poletimber Well	16.8	54	111-140	
93	42110 - Planted Red Pine	Poletimber Well	7.5	54	111-140	
94	42290 - Natural Mixed Pine	Sawtimber Medium	4.8	53	51-80	Mixed pine, Harvest stand when Jack pine is mature.
95	42120 - Planted Jack Pine	Poletimber Well	27.9	48	81-110	
96	42110 - Planted Red Pine	Poletimber Well	28.4	57	111-140	
97	4132 - Aspen, Jack Pine	Poletimber Well	11.8	23	Immature	
98	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	6.2	20	Immature	
413	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	163.5	28	1-50	Southeast part of the stand was burned in a wildfire. Next entry or when trees become merchantable, stand should be harvested for opening maintenance.



Stand	Cover Type	Acres	Managed Site	General Comments:
9	320 - Upland Shrub	1.1		: 1999: Cut with Cmp 127 adjacent stand With sale #042-08-01, c127. [11-23-09] Stand is now under contract - TS 41-042-08-01 Blueberry Pine. Residual BA: rp = 34; wp = 21; total = 55 sq.ft./acre. [11-23-10] Sale is now completed TCR dtd 11-10-10. Schedule regen survey.
10	3302 - Low Density Conifer Trees	4.2	No	Grassy opening along Sunken Lake Road.
49	310 - Herbaceous Openland	61.4		[11-04-10] Stand is now under contract TS# 41-034-09-01 Birds rehab Pine. Residual BA - oak = 2 sq.ft./acre. See FTP C41-1446 jack pine regeneration. Scarified by Holli: 7/15/16 Checked 5/30/17 no regen, pretty sure this stand is going to need to be trenched and planted. Site was trenched summer 2018, by DNR staff.
56	330 - Low-Density Trees	7.0	Yes	[11-04-10] Stand is now under contract TS# 41-034-09-01 Birds Rehab Pine. See FTP W41-1445 (opening maint.)
66	31021 - Cool Season Grass	117.7	Yes	[11-04-10] Stand is now under contract TS# 41-034-09-01 Birds Rehab Pine. See FTP W41-1447 (opening maint.)
401	330 - Low-Density Trees	2.5	Yes	
402	3302 - Low Density Conifer Trees	21.5	No	Scattered small trees:
403	330 - Low-Density Trees	9.0	No	Scattered small trees: white pine, jack pine, aspen and red pine.
404	3302 - Low Density Conifer Trees	4.8	No	
405	330 - Low-Density Trees	8.3	No	A few scattered trees around the edges: white pine, jack pine, aspen and red maple.
406	330 - Low-Density Trees	6.9	No	A few scattered trees.
407	330 - Low-Density Trees	4.8	Yes	
408	330 - Low-Density Trees	9.8	Yes	
409	330 - Low-Density Trees	7.5	Yes	
412	330 - Low-Density Trees	4.8	No	TS#04-00 TCR dtd 10/14/01.
415	330 - Low-Density Trees	1.1	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
416	320 - Upland Shrub	5.7	No	A few scattered trees: white pine, jack pine, aspen and red maple.
417	3302 - Low Density Conifer Trees	3.9	No	