



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41059

Entry Year 2019

Acreage: 1,566

County Schoolcraft

Management Area: Hiawatha Moraine

Revision Date: 2017-08-09

Stand Examiner: Tori Irving

Legal Description:

T43N R15W Sections 20,29 & 32

Identified Planning Goals:

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

Soil and topography:

The soils in Schoolcraft County have recently been re-mapped by the Soil Survey. Specific soils information including Habitat Types can be found in the individual stand comments. In general, the soils are a mix of fine loamy sands in the hardwood areas transitioning to well drained sands in the pine areas. In addition, the low ground in section 20 is poorly drained organic soils. The terrain in the area is relatively flat with the exception of a steep ridge with ravines in stand 17 along the Brace Creek corridor. The Eastern Upper Peninsula Eco-Regional Planning Process is using a Management Area Concept to manage on a broader scale and Land Type Associations (LTA's) are key components to defining the soils and topography within the Management Areas. The majority of the compartment lies within the Hiawatha Moraine LTA however, a portion of section 20 which primarily includes the lowlands is in the Stutts Creek Sands LTA.

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

The compartment is almost entirely contiguous State land except for the portion of private in Section 20. There is little development within the compartment; however, due to the upland ground and easy access to the area, it does receive a good amount of public use.

Unique Natural Features:

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

Archeological, Historical, and Cultural Features:

Refer to HAL report.

Special Management Designations or Considerations:

Roughly half of section 32 is part of a Sharptail Grouse Corridor which is managed both commercially and non-commercially to maintain the area in an open style habitat which the birds need to survive.

Watershed and Fisheries Considerations:

This compartment is divided into a small northern region and large southern region. The northern 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 all other riparian areas, Best Management Practices should be followed.

Wildlife Habitat Considerations:

This compartment lies north of the High Rollways complex. Pre-settlement data show that hemlock, birch, sugar maple, white pine, and beech dominated the forest in this compartment. Balsam fir was common in the understory. Lowlands contained cedar and tamarack. The current forest is substantially different than that found circa 1850. The conifer component with the northern hardwoods has been substantially reduced, a large portion of the compartment contains red pine plantations, large grassy openings, and regenerating aspen stands. This compartment serves as a break-out area for deer migrating out of the Sturgeon Hole Deer Yard in the spring. As such, the wildlife habitat management regime is strongly associated with maintaining large grassy openings that will become snow free earlier than the surrounding landscape and providing hard mast (acorns). An additional goal is to enhance species and structural diversity within the existing northern hardwood stands.

Mineral Resource and Development Concerns and/or Restrictions

Gravel pits are located two miles to the west and there could be some potential within the compartment. There is no known metallic mineral potential in this region. There is no commercial oil and gas production in the UP.

Vehicle Access:

With the exception of the northern block in Section 20, the compartment has excellent access including the High Rollways Truck Trail which is a County Road.

Survey Needs:

Corners will be needed in the southwest quarter of Section 20.

Recreational Facilities and Opportunities:

This compartment does not have any recreational facilities. There is a snowmobile trail just to the east of the compartment. The area gets a lot of recreational users including hunters, birdwatchers, blueberry pickers, ORV users, and snowmobilers.

Fire Protection:

The area has numerous roads which will aid in suppression efforts if a fire were to occur. There is an increased potential for slash fires since so much of the pine is being harvested. In general, the Sharptail Corridor has been managed through fire, therefore most of the 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:

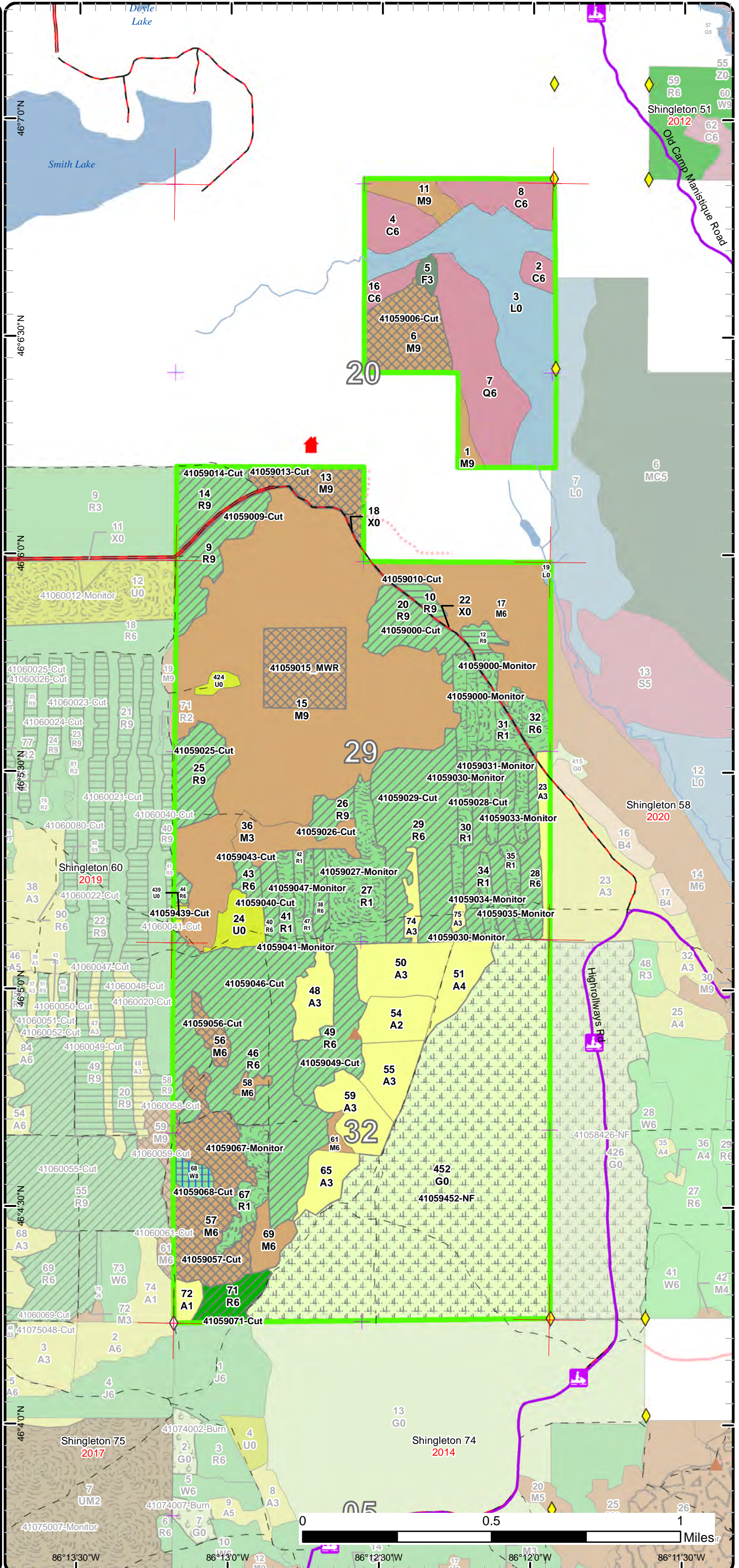
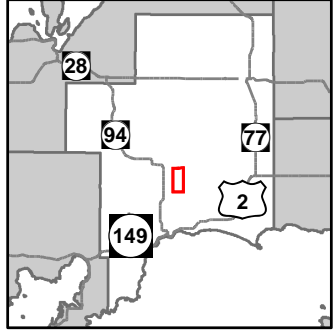
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

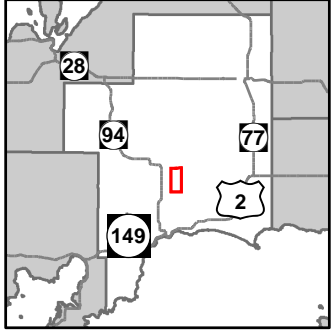
Compartment: 59
 T43N,R15W, Sec: 20, 29, 32
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Hiawatha Moraine
 YOE: 2019
 Acres: 1566.1 GIS Calculated
 Examiner: Tori Irving
 Map Revised: 8/23/2017
 Map Phase: Review



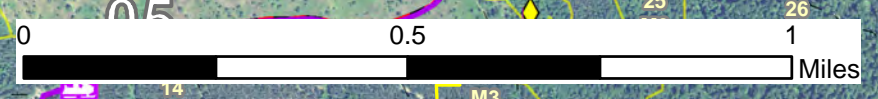
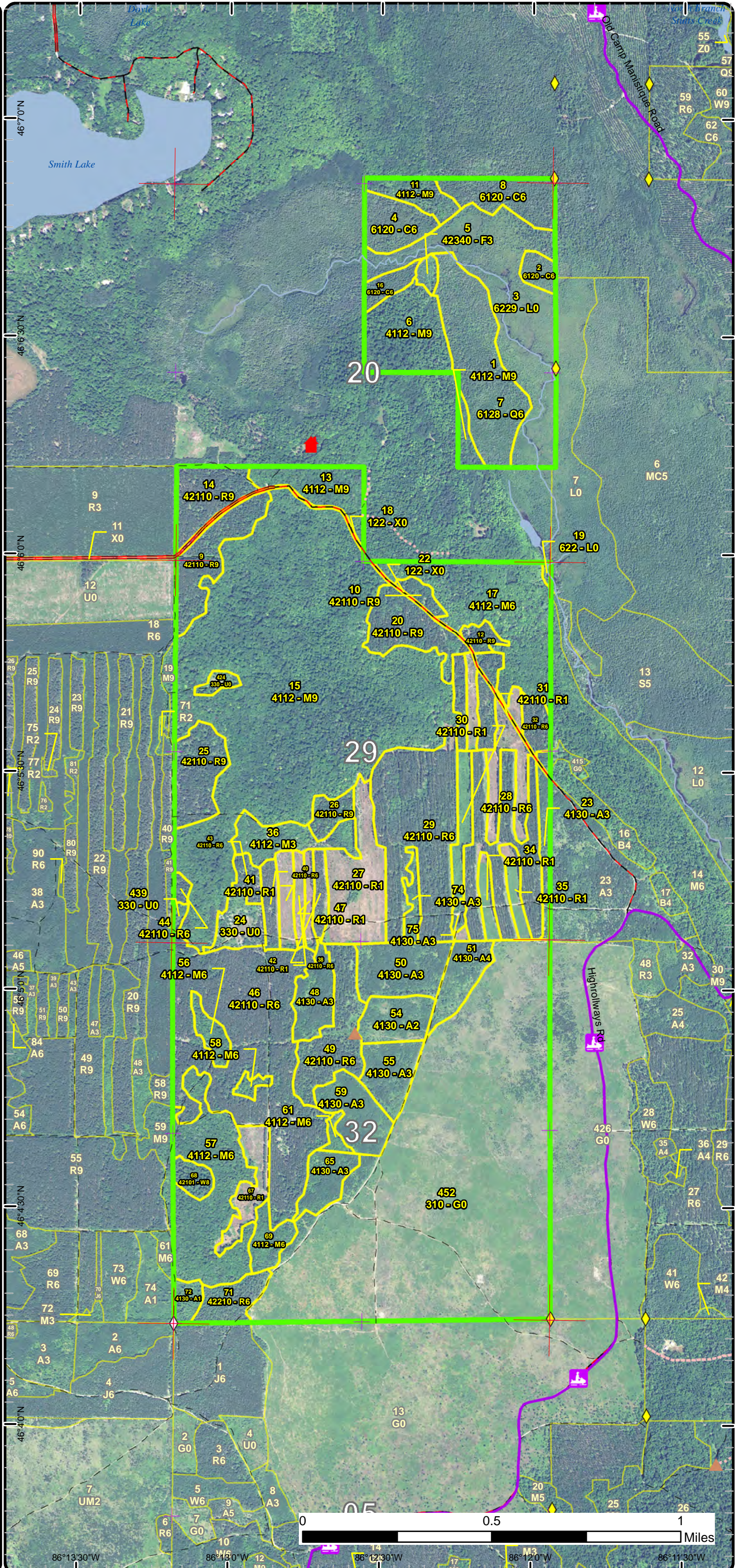
- Miris Corners
- Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- ▲ Berms
- 🏠 Cabin
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Other Treatment - See Comments
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Seed Tree (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Monitoring
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes

Stand Boundary Map

Compartment: 59
 T43N,R15W, Sec: 20, 29, 32
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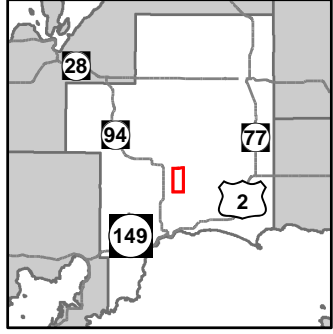
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
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- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
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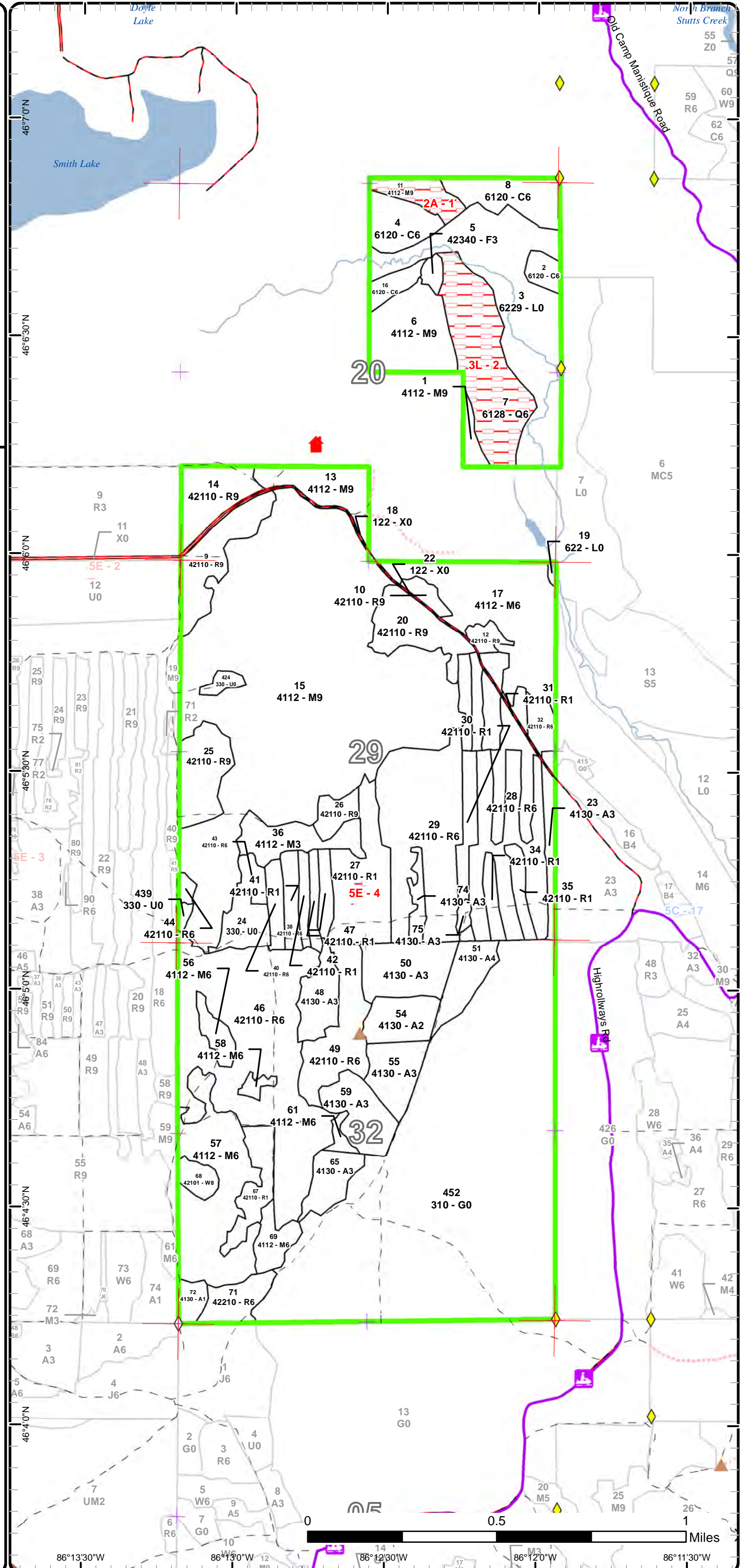
86°13'30"W 86°13'0"W 86°12'30"W 86°12'0"W 86°11'30"W

Special Conservation Areas & Site Conditions Map

Compartment: 59
 T43N,R15W, Sec: 20, 29, 32
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Hiawatha Moraine
 YOE: 2019
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- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- - - Counties
- ▲ Berms
- Cabin
- Snowmobile Trails
- Designated Snowmobile Trails
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Unavailable
- 2A: Adjacent landowner denied access
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes



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	5	38	69	0	13	0	0	0	0	0	0	0	0	0	0	0	0	125
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	42
Herbaceous Openland	298	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	298
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	45
Lowland Shrub	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Northern Hardwood	0	0	0	16	0	0	0	13	6	0	0	0	0	0	0	0	0	444	479
Red Pine	0	102	0	0	0	0	230	112	11	0	0	0	0	0	0	0	0	20	475
Upland Spruce/Fir	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Total	393	107	41	85	0	13	230	125	17	45	0	0	42	0	0	0	0	469	1566



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 59

Total Compartment Acres: 1,566

Commercial Harvest - 487
 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	1	0	0	0	0	0	0	0	0	1
Northern Hardwood	0	131	0	0	0	0	0	0	0	131
Red Pine	4	0	0	0	0	345	0	0	0	349
White Pine	0	0	0	5	0	0	0	0	0	5
Total	5	131	0	5	0	345	0	0	0	487

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	487	0	0	0	0	0	117	0	298	901
Next Step	0	0	0	0	0	0	738	0	0	738
Total	487	0	0	0	0	0	854	0	298	1639



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
20	41059000-Cut	19.9	42110 - Planted Red Pine	Sawtimber Well	57	111- 140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some areas of the stand will have a residual BA
Specs: lower than 120.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

32	41059000- Monitor	30.2	42110 - Planted Red Pine	Poetimber Well	66	1-50	Monitoring	Herbicide Use	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.
Specs:

Next Step
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Proposed Start Date: 06/20/2017

6	41059006-Cut	28.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand using the guidelines in the Compleat Marker. Create some canopy gaps to promote advanced regeneration.
Specs:

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

Acceptable Northern hardwood species
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

9	41059009-Cut	21.1	42110 - Planted Red Pine	Sawtimber Well	56	51-80	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some parts of the stand will be below a residual of
Specs: 120 BA.

Next Step
Treatments:

Acceptable
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
10	41059010-Cut	3.9	42110 - Planted Red Pine	Sawtimber Well	57	51-80	Harvest	Clearcut with Retention	4112 - Maple, Beech, Cherry Association	Uneven- Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut the stand. Leave a few scattered residual red pine in the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species currently found on-site.

Regen:

Other This stand will be converted to Maple.Beech, Cherry Association from Red Pine plantation.

Comment:

Proposed Start Date: 10/01/2018

12	41059012-Cut	3.9	42110 - Planted Red Pine	Sawtimber Well	57	111- 140	Harvest	Clearcut with Retention	4112 - Maple, Beech, Cherry Association	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Leave a few scattered red pine through out the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species currently found on-site.

Regen:

Other This stand is being converted from Red Pine plantation to Maple, Beech, Cherry Association.

Comment:

Proposed Start Date: 10/01/2018

13	41059013-Cut	17.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand using the guidelines in the Compleat Marker. Create some canopy gaps to promote advanced regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species currently found on-site.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

14	41059014-Cut	18.0	42110 - Planted Red Pine	Sawtimber Well	56	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some parts of the stand will be below a residual of 120 BA.

Specs:

Next Step

Treatments:

Acceptable

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
15	41059015_MW R	29.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven- Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Group Selection harvest conducted by Mike Walter's research team. This stand will be harvested leaving all tops greater than 8".
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Northern hardwood species
Regen:

Other
Comment:

Proposed Start Date: 10/01/2016

25	41059025-Cut	19.0	42110 - Planted Red Pine	Sawtimber Well	57	111- 140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin the thicker areas of the stand to a residual of 120 BA. Some areas may be below the target of 120 BA and the overall BA may be lower.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

26	41059026-Cut	6.4	42110 - Planted Red Pine	Sawtimber Well	57	111- 140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some areas of the stand will have a residual BA
Specs: lower than 120.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

27	41059027- Monitor	30.6	42110 - Planted Red Pine	Sapling Poor	5	Immatur re	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.
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
28	41059028-Cut	39.2	42110 - Planted Red Pine	Poletimber Well	66	111- 140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some areas of the stand will have a residual BA
Specs: lower than 120.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

29	41059029-Cut	61.0	42110 - Planted Red Pine	Poletimber Well	66	81-110	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some areas of the stand will have a residual BA
Specs: lower than 120.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

30	41059030- Monitor	10.0	42110 - Planted Red Pine	Sapling Poor	5	Immatu re	Monitoring	Herbicide Use	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.
Specs:

Next Step
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Proposed Start Date: 06/20/2017

31	41059031- Monitor	5.2	42110 - Planted Red Pine	Sapling Poor	5	Immatu re	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.
Specs:

Next Step
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Proposed Start Date: 06/20/2017



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
31	41059033- Monitor	5.0	42110 - Planted Red Pine	Sapling Poor	5	Immatur re	Monitoring	Herbicide Use	42110 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.											
<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> 06/20/2017											
34	41059034- Monitor	5.1	42110 - Planted Red Pine	Sapling Poor	5	Immatur re	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.											
<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> 06/20/2017											
35	41059035- Monitor	5.8	42110 - Planted Red Pine	Sapling Poor	5	Immatur re	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.											
<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> 06/20/2017											
38	41059038-Cut	5.2	42110 - Planted Red Pine	Poletimber Well	66	81-110	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Thin the thicker areas of the stand to a residual of 120 BA. Some areas may be below the target of 120 BA and the overall BA will be lower.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<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
40	41059040-Cut	6.3	42110 - Planted Red Pine	Poetimber Well	66	111-140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Thin the thicker areas of the stand to a residual of 120 BA. Some areas may be below the target of 120 BA and the overall BA will be lower.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

41	41059041-Monitor	7.1	42110 - Planted Red Pine	Sapling Poor	5	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 06/23/2017

42	41059042-Monitor	4.4	42110 - Planted Red Pine	Sapling Poor	5	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

43	41059043-Cut	4.7	42110 - Planted Red Pine	Poetimber Well	57	81-110	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some areas of the stand will have a residual BA

Specs: lower than 120.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
44	41059044-Cut	2.0	42110 - Planted Red Pine	Poletimber Well	57	111-140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some areas of the stand will have a residual BA
Specs: lower than 120.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

46	41059046-Cut	105.4	42110 - Planted Red Pine	Poletimber Well	59	111-140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some areas of the stand will have a residual BA
Specs: lower than 120.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

47	41059047-Monitor	4.4	42110 - Planted Red Pine	Sapling Poor	5	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.
Specs:

Next Step
Treatments:

Acceptable Red Pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

49	41059049-Cut	25.8	42110 - Planted Red Pine	Poletimber Well	59	81-110	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin the thicker areas of the stand to a residual of 120 BA. Some areas may be below the target of 120 BA and the overall BA may be lower.
Specs:

Next Step
Treatments:

Acceptable
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
56	41059056-Cut	6.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	72	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Create regeneration gaps to release advanced regeneration and to promote hardwood regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species currently found onsite.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

57	41059057-Cut	49.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark stand according to the guidelines in the Compleat Marker. Make some canopy gaps to promote regeneration and to also release any advanced regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species currently found onsite.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

67	41059067- Monitor	13.1	42110 - Planted Red Pine	Sapling Poor	5	Immatur re	Monitoring	Herbicide Use	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Monitor stand for future herbicide work to reduce competition for red pine. Refer to FTP C41-1443.

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

68	41059068-Cut	5.4	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Medium	89	51-80	Harvest	Seed Tree with Retention	4220 - Natural White Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Leave a few scattered white pine per acre to serve as seed trees. Residual BA should range between 10-30.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine and a mix of northern hardwood species.

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
71	41059071-Cut	11.0	42210 - Natural Red Pine	Poletimber Well	75	111-140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some areas of the stand will have a residual BA
Specs: lower than 120.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

439	41059439-Cut	1.4	330 - Low-Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut	3102 - Grass		Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut encroaching red maple and jack pine to maintain the grass opening.
Specs:

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

Acceptable Grass
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

452	41059452-NF	298.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription 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 W41-1619
Specs:

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

Acceptable
Regen:

Other Stand will be herbicide and/or burned to remove competing trees to allow for establishment of native grasses as agreed upon at YO E 2019
Comment: compartment review according to ftp W41-1619.

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 909.5

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 59

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	2A	3L	5E
124	124	0	0	Aspen		
42	42	0	0	Cedar		
298	298	0	0	Herbaceous Openland		
15	15	0	0	Low-Density Trees		
45	0	0	45	Lowland Conifers		
75	75	0	0	Lowland Shrub		
479	469	0	10	Northern Hardwood		
474	473	0	1	Red Pine		
3	3	0	0	Upland Spruce/Fir		
5	5	0	0	Urban		
5	5	0	0	White Pine		
1,566	1,510		56	Total Forested Acres		
	96%		4%	Relative Percent		

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2A: Adjacent landowner denied access	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3L: Other wildlife concerns	45	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	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	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	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.6	80	51-80	
2	6120 - Lowland Cedar	Poletimber Well	5.1	113	141-170	
4	6120 - Lowland Cedar	Poletimber Well	14.0	113	171-200	
5	42340 - Upland Spruce/Fir	Sapling Well	2.9	16	Immature	Stand was cut in the winter of 2001 part of Hammerdown Hardwood.
6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	28.3	85	51-80	
7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	45.4	87	81-110	OPIC - FMD: More BA and hardwoods near transition zone. Soils are Carbondale, Lupton Tawas Muck.
8	6120 - Lowland Cedar	Poletimber Well	17.6	113	171-200	
9	42110 - Planted Red Pine	Sawtimber Well	21.1	56	51-80	[9/29/09 BB] Stand is now on proposal 41-006-09-01 Camp 9 Pine, Unit 11, 23 acres. Residual BA = Red Pine 75 sq ft, cherry 1 sq ft, white pine 5 sq ft [7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.
10	42110 - Planted Red Pine	Sawtimber Well	3.9	57	51-80	[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 1, 3 acres. Residual Basal Area = red pine 65 sq ft [7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.
11	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.0	90	111-140	
12	42110 - Planted Red Pine	Sawtimber Well	3.9	57	111-140	[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 1, 4 acres. Residual Basal Area = red pine 83 sq ft [7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.9	85	81-110	
14	42110 - Planted Red Pine	Sawtimber Well	18.0	56	81-110	[9/29/09 BB] Stand is now on proposal 41-006-09-01 Camp 9 Pine, Unit 10, 17 acres. Residual BA = Red Pine 100 sq ft, white pine 1 sq ft [7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	280.6	85	81-110	
16	6120 - Lowland Cedar	Poletimber Well	5.7	113	171-200	
17	4112 - Maple, Beech, Cherry Association	Poletimber Well	53.4	85	81-110	
20	42110 - Planted Red Pine	Sawtimber Well	19.9	57	111-140	
23	4130 - Aspen	Sapling Well	8.5	29	Immature	
25	42110 - Planted Red Pine	Sawtimber Well	19.0	57	111-140	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 7, 18 acres. Residual Basal Area = red pine 115 sq ft, cherry 3 sq ft, jack pine 3 sq ft</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.</p>
26	42110 - Planted Red Pine	Sawtimber Well	6.4	57	111-140	
27	42110 - Planted Red Pine	Sapling Poor	30.6	5	Immature	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 6, 31 acres. 1 acre retention patch in center of stand as well as exclusion of red pine on north with paint line. FTP C41-1443 submitted for red pine planting</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011. Stand is on regeneration timeclock.</p> <p>(7/20/2016 AP) Stand was sprayed with Velpar 6/26/2016 via helicopter.</p> <p>(8/20/2012 AP). Stand was herbicide site prep sprayed by skidder with Garlon/Oust.</p> <p>(6/10/2013 AP): Stand was trenched and then planted in spring 2013. Regen check scheduled for 2014.</p> <p>Year 1 regeneration count 676 red pine, 53 jack pine, 8 white pine. Year 3 counts 575 red pine, 195 jack pine, 5 white pine. FTP is being kept open for herbicide work.</p>
28	42110 - Planted Red Pine	Poletimber Well	39.2	66	111-140	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 3, 37 acres. Residual Basal Area = red pine 112 sq ft, jack pine 6 sq ft, aspen 3 sq ft</p> <p>[5/7/2014 TI] Stand was cut as part of Sale #41-008-09-01 High Rollways Pine. Sale is now closed. TCR date 7/18/2011.</p>
29	42110 - Planted Red Pine	Poletimber Well	61.0	66	81-110	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 5, 57 acres. Residual Basal Area = red pine 91 sq ft, red maple 1 sq ft, white pine 1 sq ft, jack pine 8 sq ft, aspen 5 sq ft, white birch 1 sq ft</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	42110 - Planted Red Pine	Sapling Poor	10.0	5	Immature	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 4, 9 acres. No residual [2-10-10 JS] FTP was not submitted with the sale because there are no inmates available. Evaluate after sale for FTP needs and availability of WLD contract crew.</p> <p>Year 1 regen counts were 765 red pine, 58 jack pine, 11 white pine. a walkthrough was done in year 3 and everything was fine. FTP is being kept open for herbicide work.</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011. Stand is on regeneration timeclock.</p> <p>(7/20/2016 AP) Stand was sprayed with Velpar 6/26/2016 via helicopter.</p>
31	42110 - Planted Red Pine	Sapling Poor	21.4	5	Immature	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 4, 6 acres. No residual. FTP C41-1443 submitted for red pine planting.[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011. Stand is on regeneration timeclock.(7/20/2016 AP) Stand was sprayed with Velpar 6/26/2016 via helicopter.(8/20/2012 AP). Stand was herbicide site prep sprayed by skidder with Garlon/Oust.(6/10/2013 AP): Stand was trenched and then planted in spring 2013. Regen check scheduled for 2014. Year 1 regen count - 765 red pine, 58 jack pine, 11 white pine. Year 3 count was 650 red pine, 150 jack pine, 88 fir. FTP is being kept open for herbicide work.</p>
32	42110 - Planted Red Pine	Poletimber Well	19.5	66	1-50	
34	42110 - Planted Red Pine	Sapling Poor	5.1	5	Immature	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 4, 6 acres. No Residual FTP C41-1443 submitted for red pine planting</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011. Stand is on regeneration timeclock.</p> <p>(7/20/2016 AP) Stand was sprayed with Velpar 6/26/2016 via helicopter.</p> <p>(8/20/2012 AP). Stand was herbicide site prep sprayed by skidder with Garlon/Oust.</p> <p>(6/10/2013 AP): Stand was trenched and then planted in spring 2013. Regen check scheduled for 2014.</p> <p>Year 1 regen count - 765 red pine, 58 jack pine, 11 white pine. Year 3 count was 720 red pine, 90 jack pine. FTP is being kept open for herbicide work.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	42110 - Planted Red Pine	Sapling Poor	5.8	5	Immature	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 4, 6 acres. No Residual FTP C41-1443 submitted for red pine planting</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011. Stand is on regeneration timeclock.</p> <p>(7/20/2016 AP) Stand was sprayed with Velpar 6/26/2016 via helicopter.</p> <p>(8/20/2012 AP). Stand was herbicide site prep sprayed by skidder with Garlon/Oust.</p> <p>(6/10/2013 AP): Stand was trenched and then planted in spring 2013. Regen check scheduled for 2014.</p> <p>Year 1 regen counts: 765 red pine, 58 jack pine, 11 white pine. Year 3 counts - 910 red pine, 140 jack pine. FTP is being kept open for herbicide work.</p>
36	4112 - Maple, Beech, Cherry Association	Sapling Well	15.8	24	Immature	
38	42110 - Planted Red Pine	Poletimber Well	5.2	66	81-110	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 7, 5 acres. Residual Basal Area = red pine 110 sq ft</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.</p>
40	42110 - Planted Red Pine	Poletimber Well	6.3	66	111-140	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 7, 6 acres. Residual Basal Area = red pine 118 sq ft</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.</p>
41	42110 - Planted Red Pine	Sapling Poor	7.1	5	Immature	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 8, 8 acres. No Residual FTP C41-1443 submitted for red pine planting</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011. Stand is on regeneration timeclock.</p> <p>(6/10/2013 AP): Stand was trenched and then planted in spring 2013. Regen check scheduled for 2014.</p> <p>Year 1 regen counts were 905 red pine. a walkthrough was done in year 3 and everything was fine. FTP is being kept open for herbicide work.</p> <p>(7/20/2016 AP) Stand was sprayed with Velpar 6/26/2016 via helicopter.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	42110 - Planted Red Pine	Sapling Poor	4.4	5	Immature	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 8, 4 acres. No Residual FTP C41-1443 submitted for red pine planting</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011. Stand is on regeneration timeclock.</p> <p>(6/10/2013 AP): Stand was trenched and then planted in spring 2013. Regen check scheduled for 2014.</p> <p>Year 1 regen counts were 905 red pine. a walkthrough was done in year 3 and everything was fine. FTP is being kept open for herbicide work.</p> <p>(7/20/2016 AP) Stand was sprayed with Velpar 6/26/2016 via helicopter.</p>
43	42110 - Planted Red Pine	Poletimber Well	4.7	57	81-110	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 7, 4 acres. Residual Basal Area = red pine 90 sq ft, jack pine 13 sq ft</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.</p>
44	42110 - Planted Red Pine	Poletimber Well	2.0	57	111-140	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 7, 2 acres. Residual Basal Area = red pine 130 sq ft</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.</p>
46	42110 - Planted Red Pine	Poletimber Well	105.4	59	111-140	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 10,11, 107 acres. Residual Basal Area = red pine 113 sq ft</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.</p>
47	42110 - Planted Red Pine	Sapling Poor	4.4	5	Immature	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 8, 4 acres. No Residual FTP C41-1443 submitted for red pine planting</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011. Stand is on regeneration timeclock.</p> <p>(6/10/2013 AP): Stand was trenched and then planted in spring 2013. Regen check scheduled for 2014.</p> <p>Year 1 regen counts were 905 red pine. a walkthrough was done in year 3 and everything was fine. FTP is being kept open for herbicide work.</p> <p>(7/20/2016 AP) Stand was sprayed with Velpar 6/26/2016 via helicopter.</p>
48	4130 - Aspen	Sapling Well	12.8	25	Immature	
49	42110 - Planted Red Pine	Poletimber Well	25.8	59	81-110	<p>[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 9, 24 acres. Residual Basal Area = red pine 71 sq ft, additional scattered trees marked in green</p> <p>[7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	4130 - Aspen	Sapling Well	21.6	25	Immature	
51	4130 - Aspen	Poletimber Poor	12.8	41	1-50	
54	4130 - Aspen	Sapling Medium	13.8	16	Immature	Sale was cut summer 2001, Wide Spread Aspen and TSI'd 2001.
55	4130 - Aspen	Sapling Well	14.9	25	Immature	
56	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.1	72	81-110	
57	4112 - Maple, Beech, Cherry Association	Poletimber Well	49.1	85	81-110	Sale thinned summer 2000, 41-046-99-01
58	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.3	68	81-110	[9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 11, 2 acres. Residual Basal Area = red maple 85 sq ft [7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011.
59	4130 - Aspen	Sapling Well	17.1	16	Immature	
61	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.5	67	81-110	
65	4130 - Aspen	Sapling Well	11.1	25	Immature	
67	42110 - Planted Red Pine	Sapling Poor	13.1	5	Immature	OPIC - FMD: Stand is a plantation. There is a 1/2 chain strip of red pine included in the middle as well. In addition there is some red pine on the east side and on the south. Stand is healthy now but should be cut. Convert stand to red pine after stand is cut. The future stand will include jack pine volunteers that occur naturally within the new plantation. Retention will be a component of the red pine on the east side. The soils are Kalkaska and the Habitat Type is PARVAa [9/28/09 BB] Stand is now on proposal, 41-008-09 High Rollways Pine, Unit 12, 12 acres. Residual Basal Area = red pine 5 sq ft FTP C41-1443 submitted for red pine planting [7/19/11 AP] Sale is now closed, TCR date is 7/18/11. Cut spring 2011. Stand is on regeneration timeclock. (6/10/2013 AP): Stand was trenched and then planted in spring 2013. Regen check scheduled for 2014. Year 1 regen counts were 872 red pine, year 3 counts were 783 red pine. FTP is being kept open for herbicide work. (7/20/2016 AP) Stand was sprayed with Velpar 6/26/2016 via helicopter.

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 59
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Medium	5.4	89	51-80	41-046-99-01; 5 actual acres, Stand cut fall 2000, stand ready for TSI [1/17/03 BB] Stand was TSI'd in the summer of 2002.
69	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.5	67	51-80	
71	42210 - Natural Red Pine	Poletimber Well	11.0	75	111-140	41-046-99-01; Sale cut spring 2000, 13 actual acres
72	4130 - Aspen	Sapling Poor	4.9	7	Immature	[6/8/17 TI] Stand is starting to fill in with aspen and red maple. [9/28/09 BB] Stand is now on proposal, 41-007-09 Goliath Again, Unit 9, 5 acres. Residual Basal Area = beech 3 sq ft, white pine 5 sq ft [2-10-10 JS] A 2" spec was added to the sale and no FTP was submitted. I dropped the 4-1-1 cult codes here so this stand doesn't show up in a cult work query. [12/13/2010 bb] Sale was cut in the summer 2010, sale is now closed. TCR Date 12/6/2010
74	4130 - Aspen	Sapling Well	4.8	16	Immature	Sale cut and TSI'd summer 2001 Widespread Aspen.
75	4130 - Aspen	Sapling Well	1.7	16	Immature	



Stand	Cover Type	Acres	Managed Site	General Comments:
3	6229 - Mixed lowland shrub	73.7	No	Brace Creek.
18	122 - Road/Parking Lot	3.1	No	
19	622 - Lowland Shrub	0.8	No	OPIC - FMD: Stand is a beaver pond along Brace Creek. Soils are Carbondale, Lupton, Tawas Muck
22	122 - Road/Parking Lot	2.3	No	OPIC - FMD: High-Rollways Truck Trail and R-O-W
24	330 - Low-Density Trees	10.4	Yes	
424	330 - Low-Density Trees	3.0	Yes	
439	330 - Low-Density Trees	1.4	Yes	Stand is filling in with jack pine and red maple.
452	310 - Herbaceous Openland	298.0	Yes	<p>OPIC - FMD: Burned spring 2000, burn propagated a lot of aspen and jack pine. It didn't kill all the stuff that was there prior to burn including jack pine inclusions. The stand still has trees that the fire did not kill as well as a new flush of trees. The adjacent stand 53 is being converted back to grass with a chipping operation, include this stand as part of that job and what ever is not chipped can be cut down by inmates. The soils are Rubicon and the Habitat Type is PArV</p> <p>Pre-review discussion led to prescribing all the stands in this compartment and adjacent so the entire block can be managed at the same time. The intent is to try and accomplish the job by chipping, however after the job is chipped it will be burned. If the burning cannot be accomplished inmates will remove the rest of the trees manually.</p> <p>[9/30/09 BB] Sale is now on proposal, Roll-O-Ways Chips 35-09. (10/1/2015) stand was harvested with Roll-O-Way chips and was burned in spring of 2015.</p>