



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41081

Entry Year 2024

Acreage: 2,254

County Schoolcraft

Management Area: Garden Thompson Plains

Stand Examiner: Adam Petrelius

Legal Description:

T42N R17W, Section 36 : T41N R17W, Sections 1, 12, 13

Identified Planning Goals:

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

Soil and topography:

The topography within the compartment fairly consistent. Elevation values peak at 682 feet and drop to 620 near the Indian Lake shoreline. With the exception of a few small stands, the entire compartment is forested. Forested land is mostly northern hardwoods, red pine plantations, and aspen. The two most abundant soils are Rubicon Sand and Kalkaska Sand.

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

State land within this compartment was acquired between 1972 and 1980 from a federal government exchange. The compartment boundary borders private, state land, and some school forest land. It receives heavy use by various people for hunting, berry picking, ORV, walking, riding horses, and fishing. It also sees a lot of illegal use such as littering, off road riding, and firewood theft.

Unique Natural Features:

The northern part of the compartment is a deer wintering area.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains Dufour Creek and Silver Creek both of which serve as tributaries to Indian Lake. Dufour Creek and Silver Creek are designated Type 1 trout streams less than 50' width with a predicted mean July temperature of 59.4 °F (cold streams). 300' buffers are recommended for Dufour Creek and Silver Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is contained within the Escanaba/Door Peninsula ecological sub-subsection. The growing season is 140 days. Extreme minimum temperatures are around -35 degrees F. Annual average snowfall is 70 inches. The compartment falls within the Garden Thompson Plains Management Area which highlights the following Featured Species: American woodcock, ruffed grouse, wild turkey and white-tailed deer. General Land Office (GLO) Surveyor notes show the circa 1850 upland forest in the northern portion of this compartment was dominated by hemlock with a mixture of beech, sugar maple, birch, and beech. Lowlands were predominantly cedar. The southern portion of the compartment contained open and semi-open pine plains containing red and white pine. Windthrow, fire, and beaver ponding were likely the major forms of natural disturbance. Current upland forests are substantially altered from pre-settlement conditions. While there is a fairly significant amount of northern hardwoods remaining within the compartment, the sugar maple is now the most abundant species. In addition red pine plantations, jack pine plantations, and aspen stands are distributed across the southern half of the department. The silver creek basin is a deer yarding area. Wildlife habitat objectives include maintaining species and structural diversity within and between hardwood stands, maintaining age-class diversity between aspen stands and conifer stands, and maintaining closed canopy conifer stands. There are no known rare species within this compartment. Other wildlife species of interest that may utilize this compartment include red-backed salamander, ring-necked snake, brown thrasher, gray squirrel and southern flying squirrel.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. Multiple active sand/gravel pits exist within two miles of the compartment including the State-owned Roberts Pit, which is currently leased to the Schoolcraft County Road Commission. There appears to be some potential for sand within the compartment. High-purity dolomite also occurs beneath the compartment but is likely too deep to have significant economic value. Aside from the Roberts Pit, no other current mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

A lot of roads are present and the land is mostly upland. Access is very good. A portion of the Silver Creek Grade was formerly closed to use 12 years ago due to BMP issues. One road closure was approved in this compartment recently which help deter illegal use of state lands.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

Snowmobile Trails 2 and 7 intersect in the Southern portion of the compartment and Trail 7 continues north through much of the compartment. The Indian Lake State Park Westshore Campground lies to the east. Local equestrian's riders frequently use the area and take advantage of a turn-around at intersection of the snowmobile trails listed above.

Fire Protection:

Response time to fire will be fairly fast due to good access and distance from Thompson office. A variety of fuels exist, mostly upland and spring fires would be the concern here. This area receives a lot of public use also.

Additional Compartment Information:

The following reports from the Inventory are attached:

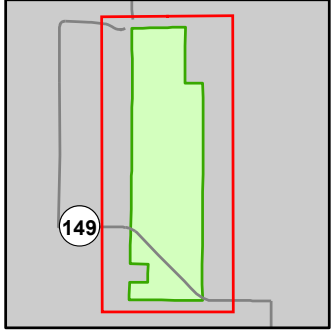
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

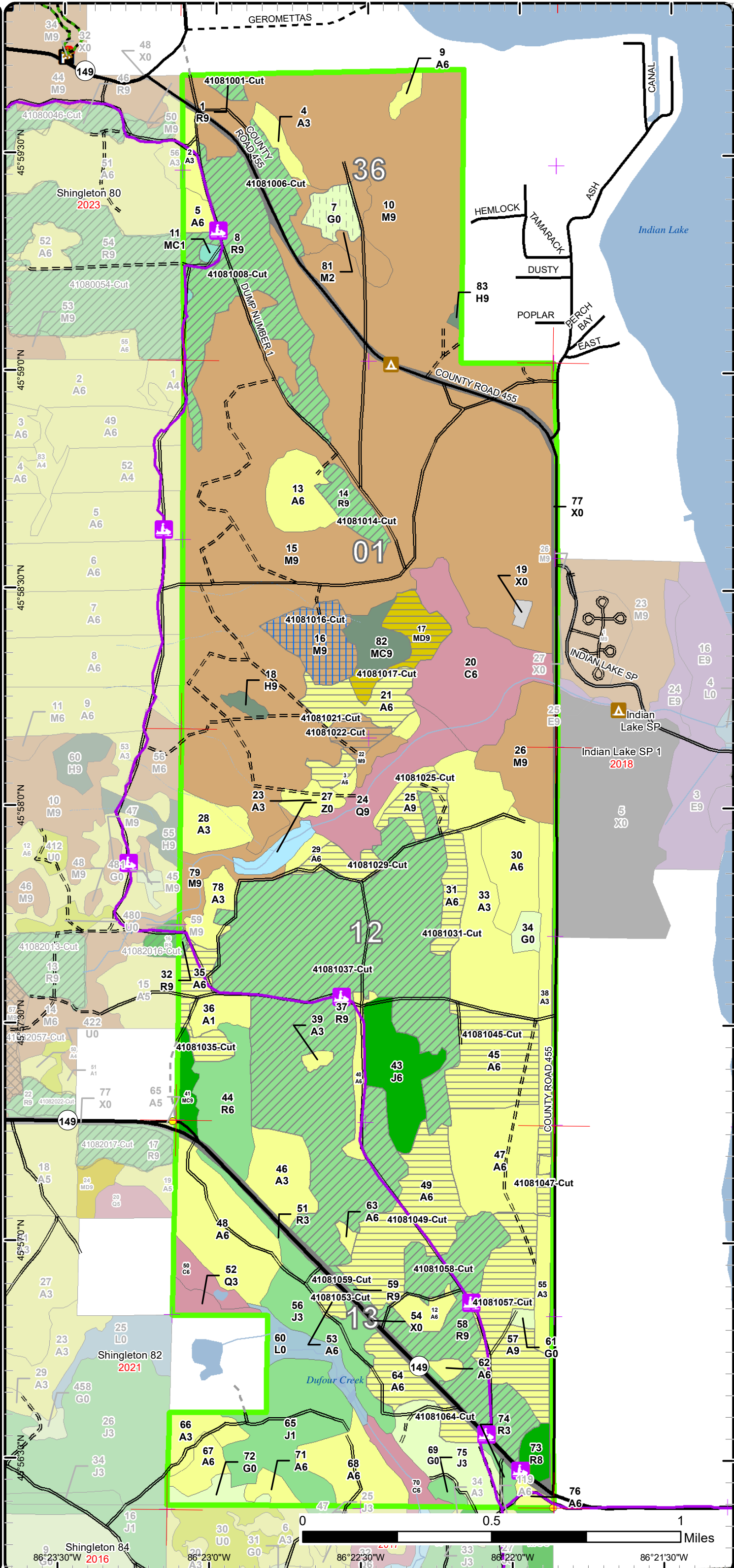
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 81
 T41N, R17W, Sec. 1, 12, 13
 T42N, R17W, Sec. 36
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Garden Thompson Plains
 YOY: 2024
 Acres: 2254.5 GIS Calculated
 Examiner: Adam Petrelius
 Map Revised: 8/17/2022
 Map Phase: Web Post



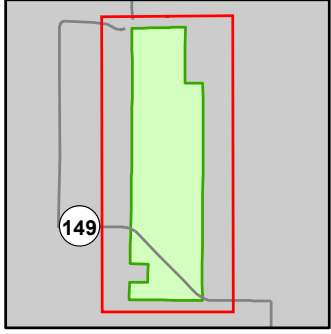
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Culvert
- ▲ Campground
- P Parking Lot
- Sign
- * Trailhead
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



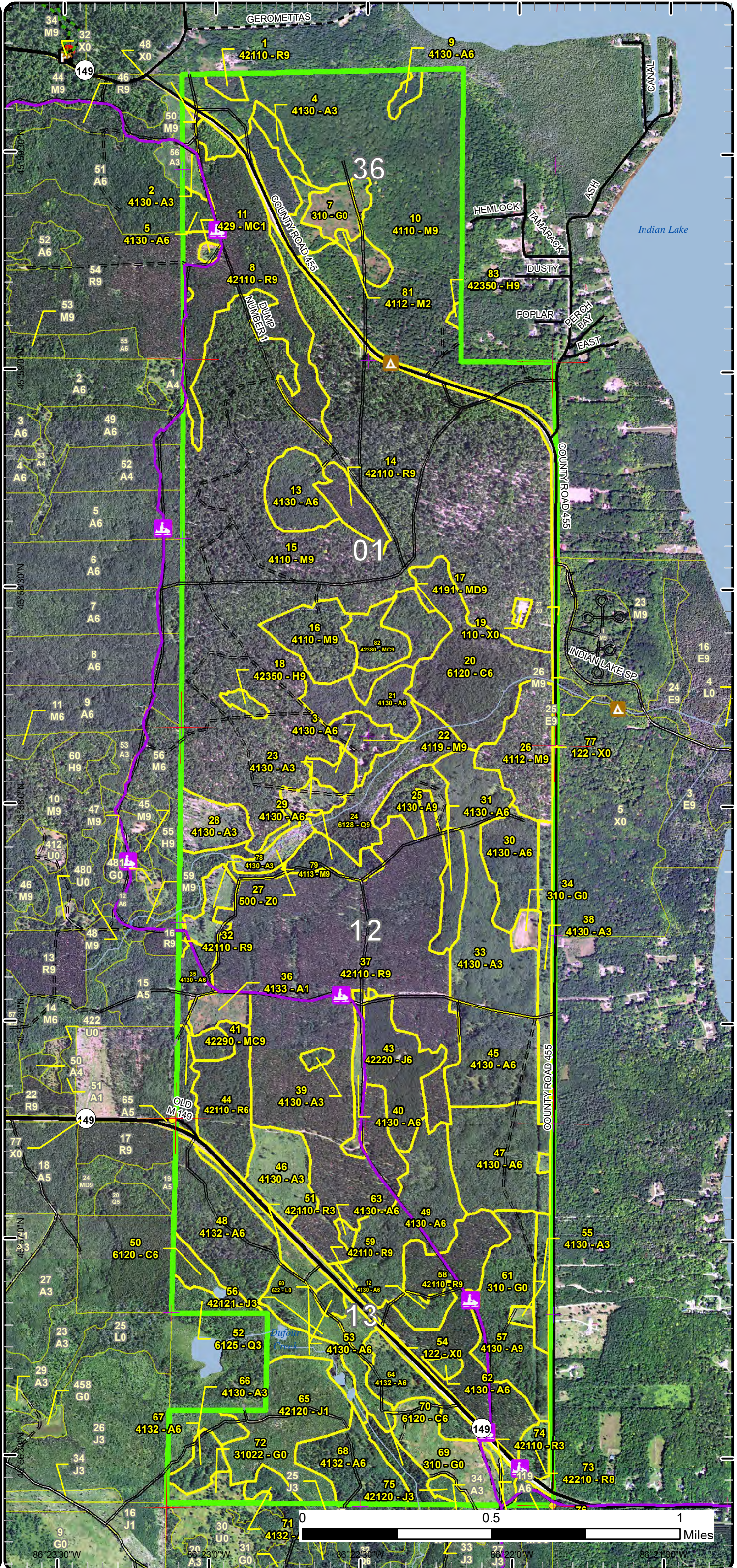
Shingleton 84 86°23'30"W 2016 86°23'0"W 86°22'30"W 86°21'30"W

Stand Boundary Map

Compartment: 81
 T41N, R17W, Sec. 1, 12, 13
 T42N, R17W, Sec. 36
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 YOE: 2024
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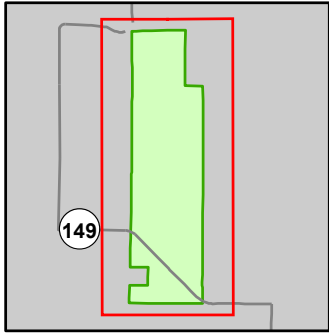


- Miris Corners
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- Stand Boundaries
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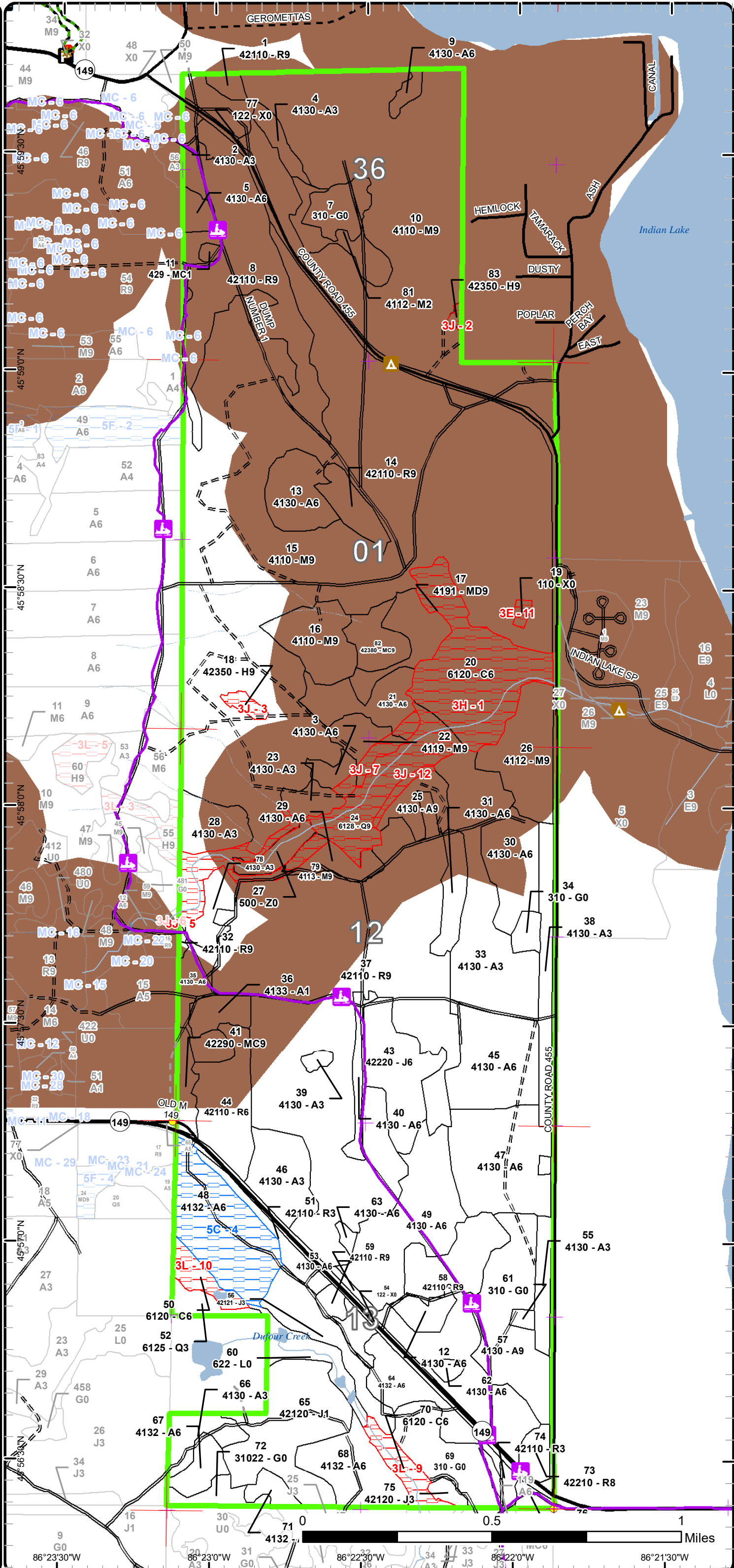


Special Conservation Areas

Compartment: 81
 T41N, R17W, Sec. 1, 12, 13
 T42N, R17W, Sec. 36
 County: Schoolcraft
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 Mgmt Area: Garden Thompson Plains
 YOY: 2024
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- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Culvert
- ▲ Campground
- P Parking Lot
- Sign
- * Trailhead
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Wild & Scenic Rivers (USFS Lands)
- Cold Water Streams
- Deer Winter Range



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	94	79	2	84	289	57	0	0	0	0	0	0	0	0	0	0	0	604
Cedar	0	0	0	0	0	0	0	0	0	58	0	9	10	0	0	0	0	0	77
Hemlock	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	4
Herbaceous Openland	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Jack Pine	0	0	73	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Lowland Conifers	0	0	0	7	0	0	0	0	0	0	0	0	30	0	0	0	0	0	37
Lowland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Natural Mixed Pines	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	16	0	0	15	0	0	12	741	0	0	0	0	0	0	0	784
Red Pine	0	0	18	0	0	28	4	430	1	0	0	0	0	0	0	0	0	0	481
Upland Conifers	0	2	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	15
Urban	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	126	96	170	55	84	289	85	19	438	88	12	751	43	0	0	0	0	0	2255



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 81
Total Compartment Acres: 2,254

Commercial Harvest - 696
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
Aspen	222	0	0	0	0	0	0	0	0	222
Mixed Upland Deciduous	16	0	0	0	0	0	0	0	0	16
Northern Hardwood	8	0	0	22	0	0	0	0	0	30
Red Pine	2	0	0	0	0	426	0	0	0	428
Total	248	0	0	22	0	426	0	0	0	696

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	696	0	0	0	0	0	0	10	0	706
Next Step	0	1	1	0	0	2	272	0	0	275
Total	696	1	1	0	0	2	272	0	10	981



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	Habitat Cut
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Proposed Treatments:

1	41081001-Cut	3.5	42110 - Planted Red Pine	Sawtimber Well	61	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 120 basal area. Follow forest health guidance from previous thinning if pocket mortality is found. Buffer stressed trees. The buffer should include all stressed red pine (thin crowns, flat tops) and associated apparently healthy red pine such that all red pine are removed up to 1/2 chain from the perimeter of the pocket mortality.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
8	41081006-Cut	13.3	42110 - Planted Red Pine	Sawtimber Well	75	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 120 basal area. Follow forest health guidance from previous thinning if pocket mortality is found. Buffer stressed trees. The buffer should include all stressed red pine (thin crowns, flat tops) and associated apparently healthy red pine such that all red pine are removed up to 1/2 chain from the perimeter of the pocket mortality.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
7	41081007-NF	10.1	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening Enhancement. Prescribed fire, farming (dozing, disking, raking, seeding (native or naturalized species only), fertilizing and liming), brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple and others.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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8	41081008-Cut	76.5	42110 - Planted Red Pine	Sawtimber Well	75	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to 120 basal area. Follow forest health guidance from previous thinning if pocket mortality is found. Buffer stressed trees. The buffer should include all stressed red pine (thin crowns, flat tops) and associated apparently healthy red pine such that all red pine are removed up to 1/2 chain from the perimeter of the pocket mortality. Do not use snowmobile trail during snowmobile season.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

14	41081014-Cut	11.5	42110 - Planted Red Pine	Sawtimber Well	75	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to 120 basal area. Follow forest health guidance from previous thinning if pocket mortality is found. Buffer stressed trees. The buffer should include all stressed red pine (thin crowns, flat tops) and associated apparently healthy red pine such that all red pine are removed up to 1/2 chain from the perimeter of the pocket mortality.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

16	41081016-Cut	22.1	4110 - Sugar Maple Association	Sawtimber Well	100	81-110	Harvest	Seed Tree with Retention	411 - Northern Hardwood	Even-Aged	No
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Prescription Cut all species except hemlock and oak if present. Harvest all beech greater than 10 feet tall. Retention should be drainages, vernal ponds, and seed trees. Restrict harvesting to occur only between October 1 to March 31 for deer hard management.

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

Acceptable Any species
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
17 41081017-Cut	16.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Retention will be the drainage in the north part which should only be crossed in 1 location only. Dense areas of hemlock and drainages should be excluded from sale. Two inch spec should be used on all hardwood trees. Ruffed grouse drumming log specs – add to all aspen stands: Cut one 8” DBH by 8ft long tree per acre and leave it fell immediately adjacent to its stump, which should be at least 4’ high. May take tops. Restrict harvesting to occur only between October 1 to March 31 for deer hard management. Avoid harvesting cedar unless needed for operability purposes.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
3 41081021-25-New	4.6	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Retention will be the 300 foot buffer on Silver Creek. Do not cut serviceberry, dogwood, or conifers less than 4 inches. Ruffed grouse drumming log specs – add to all aspen stands: Cut one 8” DBH by 8ft long tree per acre and leave it fell immediately adjacent to its stump, which should be at least 4’ high. May take tops. Restrict harvesting to occur only between October 1 to March 31 for deer hard management.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
21 41081021-Cut	18.5	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Retention will be the 300 foot buffer on Silver Creek. Do not cut serviceberry, dogwood, and conifers less than 4 inches. Ruffed grouse drumming log specs – add to all aspen stands: Cut one 8” DBH by 8ft long tree per acre and leave it fell immediately adjacent to its stump, which should be at least 4’ high. May take tops. Restrict harvesting to occur only between October 1 to March 31 for deer hard management.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
22 41081022-Cut	7.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Retention will be the 300 foot buffer on Silver Creek. Do not cut conifers less than 4 inches. Protect regeneration in gaps from previous harvest. Ruffed grouse drumming log specs – add to all aspen stands: Cut one 8" DBH by 8ft long tree per acre and leave it fell immediately adjacent to its stump, which should be at least 4' high. May take tops. Restrict harvesting to occur only between October 1 to March 31 for deer hard management.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any species</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
25 41081025-Cut	10.5	4130 - Aspen	Sawtimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Retention will be the 300 foot buffer on Silver Creek. Do not cut serviceberry and dogwood.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> All species</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
29 41081029-Cut	8.3	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Retention will be the 300 foot buffer on Silver Creek. Do not cut serviceberry and dogwood.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any species</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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31 41081031-Cut	11.7	4130 - Aspen	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Retention should be placed on eastern edge of stand adjacent to A3.. Do not cut serviceberry and dogwood.

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

Acceptable Regen: All species

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

35 41081035-Cut	15.0	4130 - Aspen	Poletimber Well	41	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Specs: Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Less than 3% retention is acceptable due to snowmobile trail, multiple roads, and odd shaped stand size. Do not cut serviceberry and dogwood. Do not use snowmobile trail for operations during snowmobile season.

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

Acceptable Regen: All species

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

37 41081037-Cut	260.7	42110 - Planted Red Pine	Sawtimber Well	72	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
------------------------	-------	--------------------------	----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Specs: Thin to 120 basal area. Follow forest health guidance from previous thinning if pocket mortality is found. Buffer stressed trees. The buffer should include all stressed red pine (thin crowns, flat tops) and associated apparently healthy red pine such that all red pine are removed up to 1/2 chain from the perimeter of the pocket mortality. Do not use snowmobile trail for operations during the snowmobile season. Areas in the NE should be evaluated for row thinning since operability may be an issue with tight spacing.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
45 41081045-Cut	36.7	4130 - Aspen	Poletimber Well	43		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Do not cut serviceberry and dogwood.</p> <p><u>Specs:</u> Do not use snowmobile trail for harvest operations during snowmobile season. Patch retention should occur, not edge retention due to powerline plantations, and adjacent stands that may be harvested next entry.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> All species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
47 41081047-Cut	4.4	4130 - Aspen	Poletimber Well	32	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Less than 3% retention is acceptable to promote best possible aspen regeneration and small stand size. Do not cut serviceberry and dogwood.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
49 41081049-Cut	47.5	4130 - Aspen	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Patch retention away from edge should be used since adjacent stands will likely be clearcut next year of entry. Do not use snowmobile trail during snowmobile season. Do not cut serviceberry and dogwood.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> All species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
53 41081053-Cut	3.5	4130 - Aspen	Poletimber Well	43	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Less than 3% retention is acceptable to promote best possible aspen regeneration. Do not cut serviceberry and dogwood.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> All species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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57	41081057-Cut	43.1	4130 - Aspen	Sawtimber Well	47	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Retention should be placed along the perimeter of stand 61. Do not cut serviceberry and dogwood. do not use snowmobile trail during snowmobile season

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable All species

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

58	41081058-Cut	59.3	42110 - Planted Red Pine	Sawtimber Well	70	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to 120 basal area. Follow forest health guidance from previous thinning if pocket mortality is found. Buffer stressed trees. The buffer should include all stressed red pine (thin crowns, flat tops) and associated apparently healthy red pine such that all red pine are removed up to 1/2 chain from the perimeter of the pocket mortality. Do not use snowmobile trail for operations during the snowmobile season.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

59	41081059-Cut	1.9	42110 - Planted Red Pine	Sawtimber Well	72	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Zero retention is acceptable since stand is adjacent to state highway for safety concerns. Do not cut serviceberry and dogwood.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable All species

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

64	41081064-Cut	18.2	4132 - Aspen, Jack Pine	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	-------------------------	-----------------	----	--------	---------	-------------------------	-------------	-----------	----

Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Retention should be placed in SW along J3 stand. Do not cut serviceberry and dogwood.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable All species

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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	Habitat Cut
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Approved Treatments:

32	41081032-Cut	0.9	42110 - Planted Red Pine	Sawtimber Well	86	111- 140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to improve spacing for smaller diameter trees and to maximize diameter growth. Some areas of the stand will have a residual BA</p> <p><u>Specs:</u> lower than 120.</p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);</p> <p><u>Treatments:</u> Pesticide, Skidder - Release</p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

Total Treatment 705.8
Acreage Proposed:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 81
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions					
		With Condition			5C	3E	3H	3J	3L	
605	552	44		9	Aspen	44		3	6	
77	0	0		77	Cedar			58		19
4	0	0		4	Hemlock				4	
51	51	0		0	Herbaceous Openland					
103	103	0		0	Jack Pine					
37	7	0		30	Lowland Conifers			30		
14	14	0		0	Lowland Shrub					
16	16	0		0	Mixed Upland Deciduous					
8	8	0		0	Natural Mixed Pines					
783	764	0		19	Northern Hardwood			15	4	
481	481	0		0	Red Pine				0	
15	15	0		0	Upland Conifers					
54	52	0		2	Urban		2			
8	7	0		0	Water			0		
2,254	2,070	44		140	Total Forested Acres	44	2	106	14	19
	92%	2%		6%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	106	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: vernal pond and hemlock							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 81
Year of Entry: 2024

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: vernal pond and hemlock							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold to cut next entry							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3L: Other wildlife concerns	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3L: Other wildlife concerns	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 81
Year of Entry: 2024

11	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	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 Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																										
1	42110 - Planted Red Pine	Sawtimber Well	3.5	61	111-140	N/A	First thinning occurred in 2005, North Riley Road Red Pine, 41-006-04-01. Residual basal area was 130.																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>95</td> <td>Log/Pole</td> <td>10</td> <td>61</td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	95	Log/Pole	10	61	Quaking Aspen	5	Pole	9							Stand was cut as part of the North Riley Road Red Pine 4 Sale #41-004-14-01. Sale is now closed. TCR date: 6/3/15											
Canopy Species	% Cover	Size Class	DBH	Age																													
Red Pine	95	Log/Pole	10	61																													
Quaking Aspen	5	Pole	9																														
2	4130 - Aspen	Sapling Well	6.5	7	1-50	N/A	Stand was cut as part of Indian Lake Chips Sale #41-001-14-01. TCR Date 9/14/15.																										
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Balsam Poplar	15	Sapling	2																														
3	4130 - Aspen	Poletimber Well	6.2	45	81-110	N/A																											
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Canopy Species	% Cover	Size Class	DBH	Age																													
Bigtooth Aspen	80	Pole	9	45																													
Black Cherry	20	Pole	9																														
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Balsam Fir	Medium	5 - 10 feet	Sapling																														
4	4130 - Aspen	Sapling Well	6.2	4	1-50	N/A	[10/2/18 TI] Stand was cut as part of Sinkhole Hardwoods Sale # 41-009-13-01. TCR Date 5/25/2018.																										
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5	4130 - Aspen	Poletimber Well	5.3	42	81-110	N/A																											
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Canopy Species	% Cover	Size Class	DBH	Age																													
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Sub-Canopy Species	Density	Avg. Height	Size																														
Black Cherry	Medium	10 - 20 feet	Sapling																														
Beech	Medium	5 - 10 feet	Sapling																														
7	310 - Herbaceous Openland	Nonstocked	10.1	0		Managed Opening	Stand was harvested and burned. Burned in spring 2017. Further opening maintenance work to be completed.																										
8	42110 - Planted Red Pine	Sawtimber Well	89.8	75	111-140	N/A	Stand was row thinned in 1987, second thinning in 1995, third thinning in 2005.																										
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Red Pine	100	Log/Pole	13	75																													
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Bigtooth Aspen	100	Pole	8	32																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
10	4110 - Sugar Maple Association	Sawtimber Well	209.2	100	81-110	N/A	[10/2/18 T1] Stand was cut as part of Sinkhole Hardwoods Sale #41-009-13-01. Residual BA = Hard Maple 53', red maple 6', cherry, 3', fir 1', yellow birch 2', beech 2' total of 67'.*Don Brown WLD comments- Southern portion of stand along 455 was planted with Red Oak saplings in accordance with ftp W41-1629, May 2015. Area east of stand 7 to private was planted with red oak in accordance to FTP W41-1629, May 2017. Rest of stand 10 to the North of stand 7 was planted with Red Oak, May 2018. 10 plots taken in stand. south 20 acres is heavy to beech. scale heavy in south, not bad in north Stand was planted with red oak, mainly near co rd 455 according to ftp W41-1629 in 2015. Stand was again planted in 2017, from eastern edge of stand 7 to west private line, up to the north edge of stand 7.																																							
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Red Maple	10	Log/XLog	14																																											
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Sugar Maple	Medium	>20 feet	Sapling																																											
Beech	Full	10 - 20 feet	Sapling																																											
11	429 - Mixed Upland Conifers	Sapling Poor	2.0	7	1-50	N/A	Stand was row thinned in 1987, second thinning in 1995, third thinning in 2005. Stand was cut as part of the North Riley Road Red Pine 4 Sale #41-004-14-01. Sale is now closed. TCR date: 6/3/15																																							
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12	4130 - Aspen	Poletimber Well	7.6	43	81-110	N/A	Stand should be converted to red pine next year of entry to make planting operations easier.																																							
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13	4130 - Aspen	Poletimber Well	19.4	39	81-110	N/A	Stand was converted from hardwood to aspen for deer browse.																																							
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14	42110 - Planted Red Pine	Sawtimber Well	11.5	75	111-140	N/A	Stand was cut in 2004 with North Riley Road Red Pine Sale, 41-006-04-01. Residual basal area was 110 red pine 10 cherry.																																							
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15	4110 - Sugar Maple Association	Sawtimber Well	479.6	100	81-110	N/A	[12/14/2016 TI] Stand was cut as two sales. The eastern portion was part of Sale # 41-010-13-01 Westshore Hardwood and the eastern portion was part of Sale #41-011-13-01 Silver Grade Hardwood. The eastern portion of the sale was planted with red oak under FTP W41-1629 in May 21015 & 2016. Cut in 1997 and 1998. Stand was planted with red oak saplings in harvested portions according to ftp 1629 in 2015 & 2016.																																																									
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16	4110 - Sugar Maple Association	Sawtimber Well	22.1	100	81-110	N/A	Stand cut in 2005, 4 Buck No Luck sale.																																																									
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17	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.3	80	81-110	N/A																																																										
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18	42350 - Upland Hemlock	Sawtimber Well	3.0	110	111-140	N/A	vernal pond																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
20	6120 - Lowland Cedar	Poletimber Well	57.8	80	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		25	Pole	8		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir		15	Pole	7		Black Spruce	Low	< 5 feet	Sapling
Black Spruce		10	Pole	7					
Northern White Cedar		50	Log	11	80				
21	4130 - Aspen	Poletimber Well	20.5	45	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		80	Pole	9	45	Balsam Fir	Medium	5 - 10 feet	Sapling
Black Cherry		20	Pole	9					
22	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.6	90	111-140	N/A	Previous gap harvest was a failure. A few cherry stump sprouted but most gaps were just full of blackberry and raspberry. Deer browse likely to blame.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10	Log	14		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple		45	Log	12	90	Black Cherry	Medium	10 - 20 feet	Sapling
Bigtooth Aspen		15	Log	10		Red Maple	Medium	>20 feet	Sapling
Hemlock		10	Log	14					
Black Cherry		20	Log	14					
23	4130 - Aspen	Sapling Well	7.0	5	1-50	N/A	Stand was cut as part of Sale #41-002-14-01 Lotsa Eyes. TCR Date 9/13/2017.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		100	Sapling	1	5				
24	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	30.1	110	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		10	Pole	8		Black Ash	Low	10 - 20 feet	Sapling
Northern White Cedar		20	Pole	9		Red Maple	Low	5 - 10 feet	Sapling
Hemlock		40	Log/XLog	16	110	Balsam Fir	Medium	5 - 10 feet	Sapling
Black Cherry		5	Log/XLog	14					
Yellow Birch		5	Log	12					
Red Maple		20	Log/XLog	14					
25	4130 - Aspen	Sawtimber Well	13.2	50	81-110	N/A	mixed ages		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log	10		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		80	Log	10	50	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Paper Birch		10	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
26	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.9	100	81-110	N/A	Stand cut in winter 2015, westshore hardwood. Oak was planted by WLD division also.																																							
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27	500 - Water	Nonstocked	7.7			No																																								
28	4130 - Aspen	Sapling Well	15.0	5	1-50	N/A	Stand was cut as part of Sale #41-002-14-01 Lotsa Eyes. TCR Date 9/13/2017.																																							
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29	4130 - Aspen	Poletimber Well	11.4	45	81-110	N/A	Eastern edge is mostly black spruce and jack pine, but isn't large enough to type out as separate stand.																																							
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32	42110 - Planted Red Pine	Sawtimber Well	1.0	86	111-140	N/A	Stand was prescribed at 2011 Compartment Review to be treated with C82, stand 16, it is now on proposal Bread Box Pine 35-11, Unit 2. Residual basal area 132ft red pine, red maple 6 ft. Stand was harvested with sale number 41-035-11-01, Breadbox Pine. TCR date of 6/19/2013.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
34	310 - Herbaceous Openland	Nonstocked	4.6																																			
35	4130 - Aspen	Poletimber Well	15.0	41	81-110	N/A																																
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36	4133 - Aspen, Mixed Pine	Sapling Poor	8.9	7	1-50	N/A	burn was prescribed last year of entry, but no records of completion [11/19/2015 TI] Stand was cut as part of Indian Lake Chips Sale # 41-001-14-01. TCR date 9/14/2015.																															
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37	42110 - Planted Red Pine	Sawtimber Well	260.7	72	111-140	N/A	Thinned in 1987 and 2005. variable basal areas. Stand was cut as part of the Red Pine Alley 3 Sale (#41-003-14-01). TCR date 6/17/15.																															
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38	4130 - Aspen	Sapling Well	18.7	6	1-50	N/A	Stands comments last year of entry stated to leave stand for visual management since it was converting to white pine. Stand was cut as part of Sale #41-017-09-01 Lotsa Eyes. TCR Date 9/13/2017.																															
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39	4130 - Aspen	Sapling Well	2.1	23	1-50	N/A	Stand should be converted to red pine next year of entry when adjacent stand is final harvested.																															
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40	4130 - Aspen	Poletimber Well	8.0	40	51-80	N/A	Stand should be converted to red pine next year of entry when adjacent stands are harvested.																															
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41	42290 - Natural Mixed Pine	Sawtimber Well	8.1	72	81-110	N/A	Stand was cut in 1995 in which everything was cut except red pine and white pine.																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	42220 - Natural Jack Pine	Poletimber Well	29.8	25	1-50	N/A	Stand was cut and scarified in summer 1996. Road into stand is approved for closure		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		5	Pole/Sapling	5					
Jack Pine		95	Pole/Sapling	5	25				
44	42110 - Planted Red Pine	Poletimber Well	28.1	58	81-110	N/A	Stand was species thinned with Red Pine Alley Sale in 2006. Residual basal area was 56 sq. ft.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		10	Sapling	3		Bigtooth Aspen	Full	10 - 20 feet	Sapling
Red Pine		90	Pole	9	58	Red Maple	Medium	5 - 10 feet	Sapling
45	4130 - Aspen	Poletimber Well	36.7	43		N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		95	Pole	9	43	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Black Cherry		5	Pole	8		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
46	4130 - Aspen	Sapling Well	21.5	6	Immature	N/A	Stand was cut as part of Sale #41-002-14-01 Lotsa Eyes. TCR date 9/13/2017.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		95	Sapling	1	6	Red Pine	Low	>20 feet	Log
Red Pine		5	Log	16		Paper Birch	Low	>20 feet	Pole
47	4130 - Aspen	Poletimber Well	44.5	32	81-110	N/A	Stand is a series of aspen strip cuts which occurred between 1989 and 1995.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		5	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Bigtooth Aspen		90	Pole	7	32	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Red Maple		5	Pole	7		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
48	4132 - Aspen, Jack Pine	Poletimber Well	44.2	54	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	8		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
White Pine		5	Log	16		Balsam Fir	Medium	5 - 10 feet	Sapling
Jack Pine		20	Pole	9		White Pine	Low	< 5 feet	Sapling
Bigtooth Aspen		60	Pole	9	54				
Paper Birch		5	Pole	6					
49	4130 - Aspen	Poletimber Well	47.5	43	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		80	Pole	9	43	Balsam Fir	Medium	< 5 feet	Sapling
Red Maple		5	Pole	8		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Black Cherry		5	Pole	8					
Paper Birch		10	Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
50	6120 - Lowland Cedar	Poletimber Well	8.6	100	141-170	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Pole	7		Black Spruce		
Northern White Cedar		75	Pole	9	100	Black Ash		
Paper Birch		5	Pole	7		Alder		
						Density		
						Avg. Height		
						Size		
51	42110 - Planted Red Pine	Sapling Well	14.8	13	1-50	N/A	Cut in 2004 Dufour Headwaters Sale (41-015-04-01) FTP W41-1387 was completed in 2008. This was an FTP written to remove submerchantable Scotch Pine. Stand was planted with red pine in spring 2008. 2010 regen check showed 692 red pine. 5/31/2018: Stand is fully regenerated and not in need of additional herbicide work. FTP 1165 is closed.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		10	Sapling	2				
Red Pine		80	Sapling	3	13			
Jack Pine		10	Sapling	2				
52	6125 - Lowland Black Spruce, Jack Pine	Sapling Well	6.8	26	1-50	N/A	Regen check in 2005 revealed a fully stocked black spruce stand with jack pine and tamarack present as well.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Spruce		40	Sapling	2	26			
Jack Pine		20	Sapling	2				
Tamarack		40	Sapling	2	26			
53	4130 - Aspen	Poletimber Well	3.5	43	81-110	N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		95	Pole	8	43			
Jack Pine		5	Pole	9				
54	122 - Road/Parking Lot	Nonstocked	18.3			No		
55	4130 - Aspen	Sapling Well	9.0	16	1-50	N/A	Stand cut in December 2004, 4 buck no luck, 41-023-04-01. TSI work occurred in 2005. Regen walkthrough passed in 2009.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		3	Log/Pole	12				
White Pine		5	Log	12				
Bigtooth Aspen		92	Sapling	3	16			
56	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	21.5	13	1-50	N/A	Cut with Dufour Headwaters Sale (41-015-04-01). Stand was planted in 2009. 2010 Regen check showed 834 jack pine, 14 other conifer.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		20	Sapling	1				
Jack Pine		80	Sapling	1	13			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
57	4130 - Aspen	Sawtimber Well	43.1	47	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole	10		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole	8		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Bigtooth Aspen		85	Log/Pole	10	47				
58	42110 - Planted Red Pine	Sawtimber Well	60.0	70	111-140	N/A	Stand was pruned in 1989 with corrections. Thinned in 1987, and 2005. Residual basal area from last thinning (Red Pine Alley Sale) was 104 sq. ft. Stand was cut as part of Red Pine Alley 3 (Sale #41-003-14-01). Sale is now closed. TCR date 6/17/15.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/XLog	14	70	Beech	Low	5 - 10 feet	Sapling
59	42110 - Planted Red Pine	Sawtimber Well	1.9	72	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/XLog	14	72	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
						Balsam Fir	Medium	< 5 feet	Sapling
60	622 - Lowland Shrub	Nonstocked	13.5			No			
61	310 - Herbaceous Openland	Nonstocked	1.9			No			
62	4130 - Aspen	Poletimber Well	2.5	39	81-110	N/A	Stand should be converted to red pine next year of entry to make planting operations easier.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		100	Pole	8	39	Bigtooth Aspen	Low	10 - 20 feet	Sapling
63	4130 - Aspen	Poletimber Well	1.7	43	81-110	N/A	Stand should be converted to red pine next year of entry when adjacent pine stands are final harvested.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	8		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Black Cherry		5	Pole	8		Balsam Fir	Medium	< 5 feet	Sapling
Paper Birch		10	Pole	9					
Bigtooth Aspen		80	Pole	9	43				
64	4132 - Aspen, Jack Pine	Poletimber Well	18.2	49	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		20	Pole	8		Red Pine	Low	5 - 10 feet	Sapling
Red Pine		10	Log	14		Scotch Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen		70	Pole/Log	9	49	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
65	42120 - Planted Jack Pine	Sapling Poor	48.2	13		N/A	Cut with sale 41-015-04-01 Dufour Headwaters. Stand was planted to jack pine in 2009, 2010 regen check showed 894 jack pine, 14 other conifer. Sprayed in fall 2010.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		10	Sapling	2					
Jack Pine		90	Sapling	2	13				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
66	4130 - Aspen	Sapling Well	11.9	13	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		100	Sapling	3	13				
67	4132 - Aspen, Jack Pine	Poletimber Well	9.0	38	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		20	Pole	9		Quaking Aspen	Low	10 - 20 feet	Sapling
Quaking Aspen		80	Pole	7	38				
68	4132 - Aspen, Jack Pine	Poletimber Well	25.4	41	51-80	N/A	Stand is an old grass stand that is filling in. Some pockets remain still. multiple ages present		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		20	Pole	9		Quaking Aspen	High	10 - 20 feet	Sapling
Quaking Aspen		70	Pole/Sapling	7	41				
Black Cherry		10	Pole	7					
69	310 - Herbaceous Openland	Nonstocked	26.6	0	Unspecified	Managed Opening	Stand was burned in 2011. Has a history of garbage dumping in area. [11/19/2015 TI] Stand was cut as part of Indian Lake Chips Sale # 41-001-14-01. TCR date 9/14/2015.		
70	6120 - Lowland Cedar	Poletimber Well	10.2	110		N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		5	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce		5	Pole	6					
White Spruce		5	Log	14					
Northern White Cedar		70	Pole/Log	9	110				
White Pine		5	Log/Pole	14					
Paper Birch		5	Pole	8					
Red Maple		5	Pole	7					
71	4132 - Aspen, Jack Pine	Poletimber Well	5.3	38	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		65	Pole/Sapling	7	38	Quaking Aspen	Low	10 - 20 feet	Sapling
Jack Pine		35	Pole	8					
72	31022 - Warm Season Grass	Nonstocked	7.5			Managed Opening			
73	42210 - Natural Red Pine	Sawtimber Medium	6.4	74	51-80	N/A	Stand had salvage work done in 1997. Stand was cut as part of Sale #41-002-14-01 Lotsa Eyes. TCR Date 9/13/2017.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		80	Log/XLog	14	74	Quaking Aspen	Full	10 - 20 feet	Sapling
White Pine		20	Log/XLog	16	74				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
74	42110 - Planted Red Pine	Sapling Well	3.6	13	1-50	N/A	Stand cut with Dufour Headwaters Sale 41-015-04-01. Planted to red pine in 2009. 2010 regen check was 692 red pine.5/31/2018: Stand is fully regenerated and not in need of additional herbicide work. FTP 1165 is closed.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		80	Sapling	2	13			
Bigtooth Aspen		10	Sapling/Pole	2				
Jack Pine		10	Sapling	2				
75	42120 - Planted Jack Pine	Sapling Well	3.1	13	1-50	N/A	Cut with sale 41-015-04-01 Dufour Headwaters. Stand was planted to jack pine in 2009, 2010 regen check showed 894 jack pine, 14 other conifer.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		100	Sapling	2	13			
76	4132 - Aspen, Jack Pine	Poletimber Well	3.3	41	81-110	N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		20	Pole	9				
Quaking Aspen		80	Pole	8	41			
			Sub-Canopy Species	Density	Avg. Height	Size		
			Quaking Aspen	Low	10 - 20 feet	Sapling		
77	122 - Road/Parking Lot	Nonstocked	33.6	0	Unspecified	No		
78	4130 - Aspen	Sapling Well	10.2	5	1-50	N/A	Stand was cut as part of Sale #41-002-14-01 Lotsa Eyes. TCR Date 9/13/2017.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		90	Sapling	1	5			
Hemlock		10	Log/XLog	14				
79	4113 - R.Maple, Conifer	Sawtimber Well	15.3	65	81-110	N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Hemlock		10	Log	12				
White Pine		20	Log	12				
Balsam Fir		10	Pole	8				
Red Maple		60	Log	10	65			
			Sub-Canopy Species	Density	Avg. Height	Size		
			Balsam Fir	Medium	5 - 10 feet	Sapling		
81	4112 - Maple, Beech, Cherry Association	Sapling Medium	15.6	28	1-50	N/A	Stand was harvested and burned. Burned in spring 2017	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Cherry		30	Sapling	3				
Red Maple		70	Sapling	3	28			
			Sub-Canopy Species	Density	Avg. Height	Size		
			Red Maple	Medium	5 - 10 feet	Sapling		
			Black Cherry	Medium	5 - 10 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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82 42380 - Non Pine Upland Conifer, Mixed Deciduous Sawtimber Well 12.6 80 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	45	Log/XLog	16	80
Black Cherry	5	Log	12	
Sugar Maple	5	Log	14	
Yellow Birch	5	Log	14	
Bigtooth Aspen	10	Log	12	
Northern White Cedar	20	Log/Pole	12	
Red Maple	10	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	Low	>20 feet	Pole

83 42350 - Upland Hemlock Sawtimber Well 1.1 100 81-110 N/A vernal pond

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole	9	
Hemlock	80	Log/XLog	16	100
Red Maple	10	Log/XLog	14	
Yellow Birch	5	Log/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling