



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41051

Entry Year 2022

Acreage: 1,050

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 2020-05-08

Stand Examiner: Sheila Clark

Legal Description:

T43N R15W Sections 4, 9, 16, and 17.

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 soil is predominately sand, varying to sandy loam and the topography is level. Some of the stands have higher water tables resulting in saturated soils. The West Branch Manistique River and Stutts Creek flow through the compartment, stands adjacent to them are hillier.

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

Ownership is quite broken within and just outside the compartment. There are a lot of private homes/camps in the area as well as some industrial land. There are numerous camps along Cal Road and access to part of the compartment is through a variety of private ownership. County Road 448 – Smith Lake Road goes through the compartment along with Cal Road, Merwin Truck Trail, and Brace Creek Road. These roads are used on a regular basis by the public for recreational purposes. With the Manistique River in the area, there is a high level for development and land use.

Unique Natural Features:

Wood Turtle (*Clemmys insculpta*, state special concern) are known to occur in this compartment in and along Stutts Creek. This rare reptile could also occur in this compartment in and along the North Branch Manistique River. Veiny meadow-rue (*Thalictrum venulosum*, state special concern plant) could occur along the sandy shores of the North Branch Manistique River in section 4. The prescribed treatments in this compartment are unlikely to adversely impact these species if best management practices are followed along these riparian corridors. Finally, there is potential for nesting Northern Goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of red pine and white pine.

Archeological, Historical, and Cultural Features:

At the intersection of Brace Creek Road and Smith Lake Road is the site of a former CCC Camp.

Special Management Designations or Considerations:

Within the prescribed stands special consideration will be given to the visual impact of the snowmobile trail and Smith Lake Road.

Watershed and Fisheries Considerations:

Fisheries Values – Poor. Both the West Branch Manistique River and Stutts Creek this far downstream are classified as Second Quality Warm Water through this area. There is no need to protect Stutts Creek from encroachment by beaver, but protection from increased sand bed load is still a high priority.

Wildlife Habitat Considerations:

Compartment 51 lies within central Schoolcraft county in the Seney Sand Lake Plain ecological sub-subsection and is part of the Seney-Manistique Swamp Management area with beaver, moose, sharp-tailed grouse, snowshoe hare, and white-tailed deer as featured species. The growing season in this area is less than 100 days with an extreme minimum temperature of -46 degrees F. Average annual snowfall is approximately 100 to 110 inches. Two sizable streams (Stutts Creek and the West Branch Manistique River) traverse this compartment.

Pre-settlement vegetation was likely dominated by red pine, jack pine, and big-toothed aspen on the uplands and cedar, black spruce and open marsh in the lowlands. Fires and beaver ponding were likely the primary forms of natural disturbance. Currently, the forest cover is dominated by early successional types including aspen, jack pine, and red

pine.

Wildlife habitat management objectives include maintaining mature upland and lowland conifer habitat and promoting age and structural diversity in the available aspen. Other wildlife priorities include the creation of dense understory's with retention of woody debris in jack pine and lowland types and retaining soft and hard mast producing species in harvested stands. Rare species that have been recorded in this compartment include the wood turtle, common loon, and gray wolf. Other wildlife species of interest include brown thrasher, blackburnian warbler, ovenbird, marten, mink, red squirrel, and bobcat.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is minor local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation and Big Hill Dolomite subcrop below the glacial drift. The Big Hill could be used for stone. The nearest gravel pit is 3 miles to the west. There is limited gravel potential on State lands.

Vehicle Access:

Vehicle access is excellent within the compartment.

Survey Needs:

None at this present time.

Recreational Facilities and Opportunities:

There is a snowmobile trail running through the entire compartment. Also, the old CCC camp site is posted and the rivers within the compartment are open to a variety of recreational activities.

Fire Protection:

There is a good deal of urban interface challenges to the west of the compartment near Smith Lake. Access is good throughout the compartment. The area is mainly comprised of pine type fuels.

Additional Compartment Information:

The following reports from the Inventory are attached:

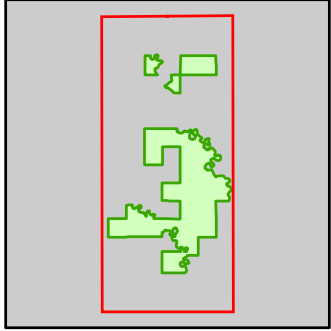
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

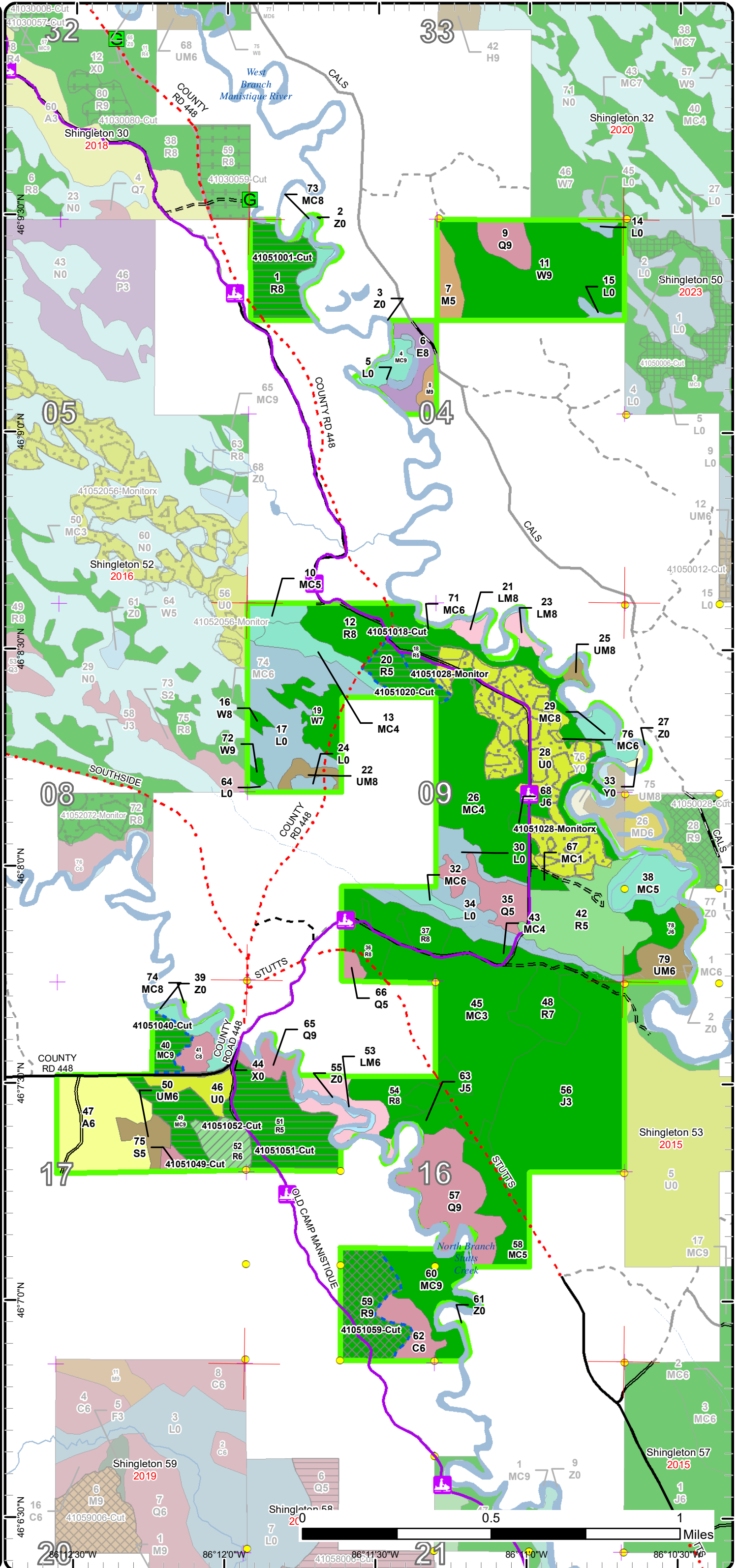
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 51
 T43N,R15W, Sec: 4, 9, 10, 16, 17
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique Swamp
 YOE: 2022
 Acres: 1,050 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 8/25/2020
 Map Phase: Web Post

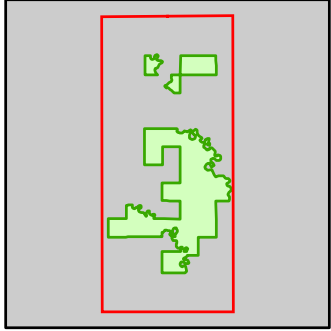


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil

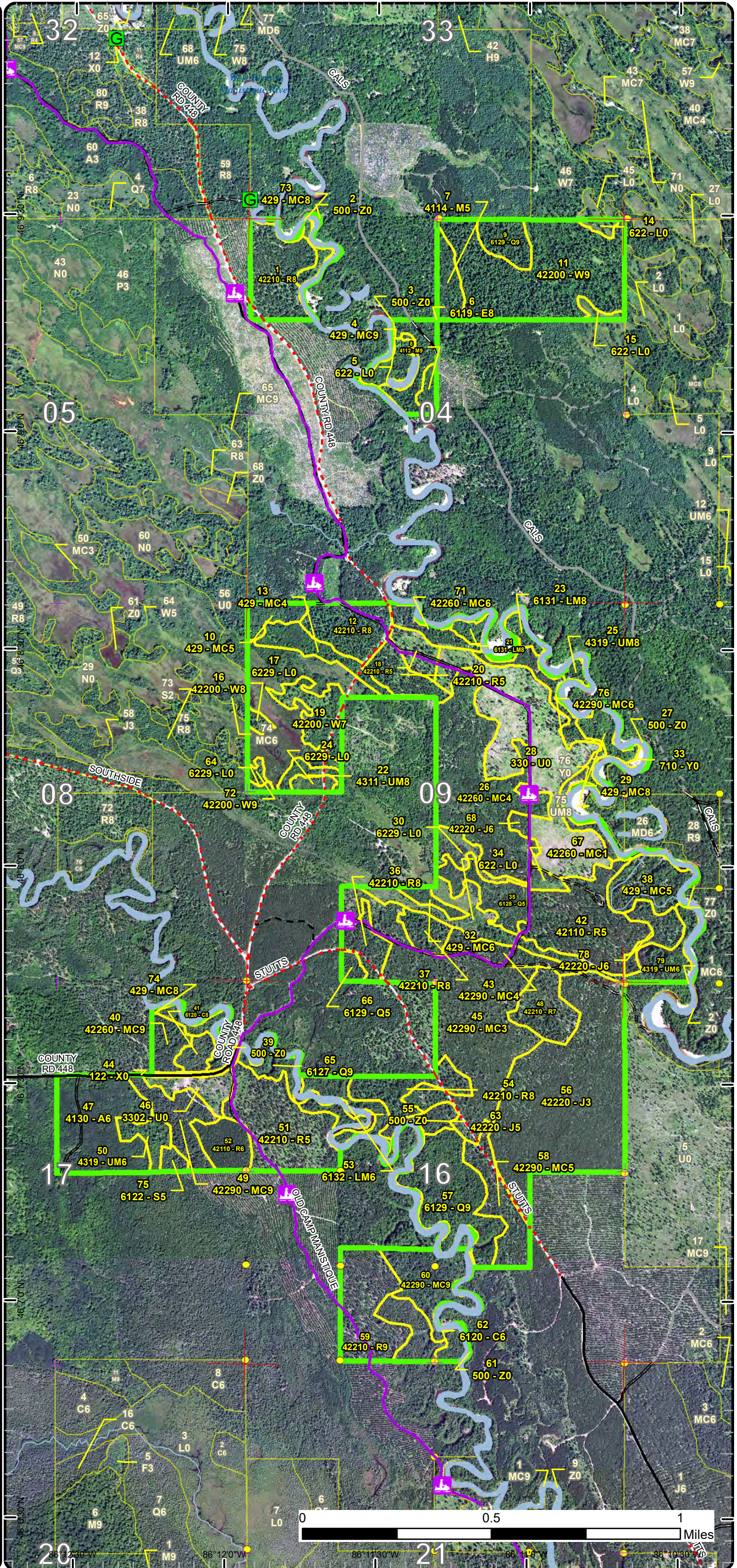


Stand Boundary Map

Compartment: 51
 T43N,R15W, Sec: 4, 9, 10, 16, 17
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 Mgmt Area: Seney Manistique Swamp
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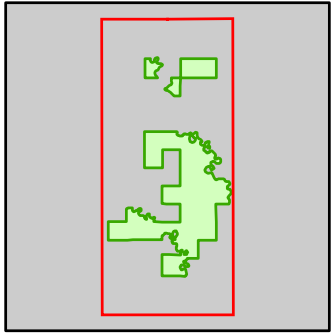


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
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- Federal / State / County - Paved Road
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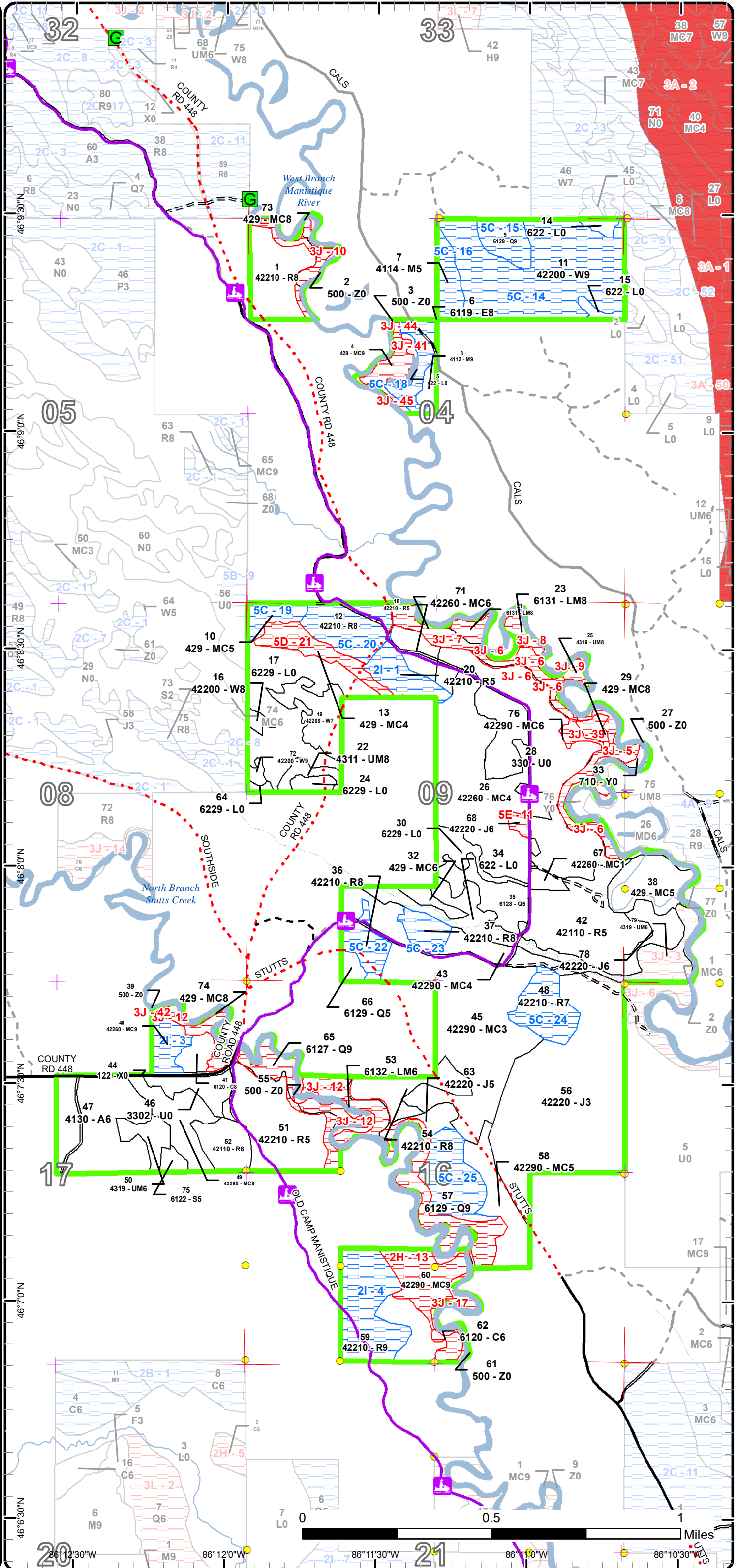


Special Conservation Areas

Compartment: 51
 T43N,R15W, Sec: 4, 9, 10, 16, 17
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique Swamp
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- Miris Corners
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- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Cedar	0	0	0	0	0	0	0	0	0	0	10	0	5	0	0	0	0	0	15
Jack Pine	0	0	0	0	101	0	7	0	0	0	0	0	0	0	0	0	0	0	108
Low-Density Trees	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Lowland Conifers	0	0	0	0	13	0	0	0	3	0	0	41	0	7	0	0	0	0	64
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	10
Lowland Mixed Forest	0	0	0	0	0	0	14	0	3	0	3	0	0	0	0	0	0	0	20
Lowland Shrub	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	2
Natural Mixed Pines	0	0	76	0	59	17	22	0	0	22	33	0	0	0	0	0	0	0	229
Northern Hardwood	0	0	0	0	0	0	0	0	0	3	0	0	0	8	0	0	0	0	11
Red Pine	0	0	0	0	0	11	50	0	62	7	30	0	22	28	0	0	0	0	209
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Conifers	0	0	0	0	16	0	6	0	4	0	12	6	14	0	0	0	0	0	58
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	2	11	4	0	0	0	0	7	23
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
White Pine	0	0	0	0	0	0	0	0	0	15	0	63	2	0	0	0	0	0	80
Total	185	0	76	0	226	28	99	0	72	50	90	132	47	43	0	0	0	7	1049



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 51

Total Compartment Acres: 1,050

Commercial Harvest - 89
 Harvests with Site Condition - 45
 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
Natural Mixed Pines	23	0	0	0	0	0	0	0	0	23
Red Pine	74	27	0	0	0	11	0	0	0	112
Total	97	27	0	0	0	11	0	0	0	134

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	134	0	0	0	0	0	62	0	0	196
Next Step	0	97	97	0	0	206	220	0	0	620
Total	134	97	97	0	0	206	282	0	0	816



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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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Proposed Treatments:

1	41051001-Cut	22.1	42210 - Natural Red Pine	Sawtimber Medium	119	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut stand for planting. Retention will be left along Manistique River. There are also some seasonal drains in the stand. There will be 100 foot buffer along the River.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</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 /2021</p>											
18	41051018-Cut	7.1	42210 - Natural Red Pine	Poletimber Medium	85	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut stand for planting. Due to the small size of this stand there will be no retention other than the buffer. There will be 100 foot buffer along the River, which will only affect the northwest corner.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); Pesticide, Aerial - 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 /2021</p>											
20	41051020-Cut	10.3	42210 - Natural Red Pine	Poletimber Medium	121	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut stand for planting. Retention will be left along the southern edge of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); Pesticide, Aerial - 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> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
40 41051040-Cut	7.7	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	58	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut stand to prepare for planting. Due to small acreage the only retention will be in the buffer to the north.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); Pesticide, Aerial - Release</p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> May be some drains that will limit some prep areas.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
49 41051049-Cut	14.8	42290 - Natural Mixed Pine	Sawtimber Well	85	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest stand for site prep. Retention will be on southern end where ground is lower.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); Pesticide, Aerial - 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 /2021</p>										
51 41051051-Cut	34.7	42210 - Natural Red Pine	Poletimber Medium	78	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut stand to prepare for planting, with retention in the buffer and along the east side of the stand. Buffer along the Stutts is 100 feet.</p> <p><u>Specs:</u> Plant red pine.</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); Pesticide, Aerial - Release; Pesticide, Aerial - 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 /2021</p>										
52 41051052-Cut	10.5	42110 - Planted Red Pine	Poletimber Well	49	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd row thinning.</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 /2021</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
59 41051059-Cut	26.8	42210 - Natural Red Pine	Sawtimber Well	79	111-140	Harvest	Single Tree Selection	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Mark stand to basal area of 80-100 square feet. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any current species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2021</p>										

Approved Treatments:

28 41051028-Monitor	3.8	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> check regeneration <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> jack pine, red pine, white pine <u>Regen:</u> <u>Other</u> Old next step comments: --Robert Burnham : 09/26/2012 comments: Stand is now on proposal, "Atlas Pine" Units 2,3 and 5. Original <u>Comment:</u> Prescription was a shelterwood with the prescription comments stated above. However, the treatment should have really been a clearcut with reserves since it was a jack pine stand with some red and white pine. A Chapter 7 change was approved to reflect this and it was re-coded as clearcut with reserves. Residual BA = white pine 5' and red pine 1'. FTP C41-1542 was created for follow up jack pine regeneration. The additional patches left as retention are west of the snowmobile trail near the south end. Scarify stand after harvest and monitor for regeneration. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2017</p>										
28 41051028-Monitorx	58.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	42220 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Stocking was near 600 trees per acre in fall 2018. Re-evaluate stand during normal inventory cycle. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> jack pine, red pine, white pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2019</p>										

Total Treatment Acreage Proposed: 195.9

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 51
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2I	5C	2H	3J	5D	5E	
36	36	0	0	Aspen							
15	15	0	0	Cedar							
108	105	0	3	Jack Pine				1		2	
72	71	0	1	Low-Density Trees				1			
64	16	28	20	Lowland Conifers		28		20			
11	0	9	1	Lowland Deciduous		9		1			
20	0	0	20	Lowland Mixed Forest				20			
74	74	0	0	Lowland Shrub							
3	3	0	0	Lowland Spruce/Fir							
229	177	7	44	Natural Mixed Pines	7		18	26			
11	3	8	0	Northern Hardwood		8					
209	117	85	7	Red Pine	37	48		7			
1	1	0	0	Sand, Soil							
58	19	6	32	Upland Conifers		6		21	11		
24	11	0	13	Upland Mixed Forest				13			
2	2	0	0	Urban							
36	36	0	0	Water							
80	17	63	0	White Pine		63					
1,050	701	207	142	Total Forested Acres	45	162	18	111	11	2	
	67%	20%	14%	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	Available	2I: Survey needed	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 51
Year of Entry: 2022

3	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2I: Survey needed	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 51
Year of Entry: 2022

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is at bottom of 10 foot drop off. Floods in the spring - difficult to regenerate at this time.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Sheila Clark : Examiner

Compartment: 51

Year of Entry: 2022

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5D: Unproductive Forest Land	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Sheila Clark : Examiner

Compartment: 51

Year of Entry: 2022

22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Sheila Clark : Examiner

Compartment: 51

Year of Entry: 2022

42	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
1	42210 - Natural Red Pine	Sawtimber Medium	22.1	119	81-110	N/A	Stand was harvested last entry period. There is an old oxbow on the east side that has lowland brush and water.																																																						
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2	500 - Water	Nonstocked	3.8		Immature	No	West Branch Manistique River.																																																						
3	500 - Water	Nonstocked	2.0			No	West branch manistique river.																																																						
4	429 - Mixed Upland Conifers	Sawtimber Well	5.6	93	111-140	N/A	1-28-20. Very difficult to access. Stand is along river. No harvest.																																																						
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5	622 - Lowland Shrub	Nonstocked	2.2			No	Old oxbow.																																																						
6	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	10.5	108	81-110	N/A	Birch is dying.																																																						
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7	4114 - Beech, Hemlock	Poletimber Medium	8.1	120	111-140	N/A	Heavy Beech scale. Seasonal drainage, poor access - not enough volume to harvest. 2020 - Most of the beech have died out. Drain blocks this stand from Stand 11.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.9	88	51-80	N/A	This is a nice patch of hardwoods, but too small to harvest alone.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Log/Pole	10	88	Beech	Low	5 - 10 feet	Sapling
Red Maple	10	Pole/Log	9		Balsam Fir	Low	10 - 20 feet	Sapling
Beech	35	Log	16		Hemlock	Low	10 - 20 feet	Sapling
Paper Birch	3	Log	17					
White Pine	15	XLog	24					
Black Cherry	2	Log	14					

9	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	8.8	108		N/A	2020 - Stand is healthy. Lower ground than surrounding white pine stand. Very little understory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Sapling/Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	40	XLog	24		Hemlock	Low	5 - 10 feet	Sapling
Hemlock	58	Pole/Log	14	108				

10	429 - Mixed Upland Conifers	Poletimber Medium	6.2	107	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole	8	107	Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	2	Pole	6					
Bigtooth Aspen	8	Pole	8					
Balsam Fir	25	Pole/Sapling	5					
Black Spruce	5	Pole	6					
White Pine	20	XLog	20					
Northern White Cedar	10	Pole	8					
Hemlock	5	Log/Pole	12					

11	42200 - Natural White Pine	Sawtimber Well	63.4	109	51-80	N/A	Stand was harvested last entry period.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	83	Log/XLog	20	109	Balsam Fir	Medium	5 - 10 feet	Sapling
Red Pine	2	Log	18		White Pine	Low	5 - 10 feet	Pole
Hemlock	15	Pole/Log	10		Red Maple	Medium	< 5 feet	Sapling
					Beech	Medium	< 5 feet	Sapling
					Hemlock	Low	10 - 20 feet	Pole

2020 - Stand is healthy. West side of the stand has more hemlock present. Harvest was completed in 2006.

12	42210 - Natural Red Pine	Sawtimber Medium	18.0	121	81-110	N/A	Was harvested last entry period.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	XLog/Log	18		Beech	Low	5 - 10 feet	Sapling
Red Pine	90	Log	16	121	Balsam Fir	Medium	10 - 20 feet	Sapling
					White Pine	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 429 - Mixed Upland Conifers Poletimber Poor 11.1 112 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	9		Beech	Low	10 - 20 feet	Sapling
Bigtooth Aspen	25	Pole	9		Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	5	Pole	6		White Pine	Low	10 - 20 feet	Sapling
White Spruce	10	Pole	8					
Black Spruce	10	Pole	6					
White Pine	35	Log/XLog	17	112				
Hemlock	10	Log/XLog	17					

14 622 - Lowland Shrub Nonstocked 2.0 No

15 622 - Lowland Shrub Nonstocked 2.1 No

16 42200 - Natural White Pine Sawtimber Medium 1.6 82 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Log	8		Balsam Fir	Low	10 - 20 feet	Sapling
White Pine	65	XLog/Log	20	82	White Pine	Medium	10 - 20 feet	Sapling
Red Pine	10	XLog/Log	18					
Black Spruce	5	Pole	6					
Paper Birch	5	Pole/Log	8					
Tamarack	5	Pole	6					
Red Maple	5	Pole	8					

17 6229 - Mixed lowland shrub Nonstocked 37.4 Unspecified No

18 42210 - Natural Red Pine Poletimber Medium 7.1 85 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30	Pole	8		White Pine	Low	10 - 20 feet	Sapling
Red Pine	70	Log	16	85	Quaking Aspen	High	10 - 20 feet	Sapling
					Red Maple	Low	10 - 20 feet	Sapling
					Jack Pine	Low	< 5 feet	Seeding

Stand was cut with Atlas Pine and scarified by DNR staff in summer 2014.

[11/19/2015 TI] Stand was cut as part of Atlas Pine Mix Sale #41-022-12-10. TCR date 9/11/2015.

10/1/2018: Passed regeneration check in fall 2018. Lots of aspen in understory along with red maple. Oak planting was listed in next steps so this is being carried forward.

2020: Stand regeneration is mostly aspen. Overstory trees are health. If stand is not managed will convert to mixed aspen stand. Even though stand passed regeneration checks it is predominately white pine and aspen. No one were found during inventory.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19	42200 - Natural White Pine	Sawtimber Poor	13.3	82	51-80	N/A	2010 Harvested less than 10 years ago.																																															
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20	42210 - Natural Red Pine	Poletimber Medium	10.3	121	51-80	N/A	[11/19/2015 TI] Stand was cut as part of Atlas Pine Mix Sale #41-022-12-10. TCR date 9/11/2015.																																						
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21	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Medium	3.0	79	81-110	N/A	stand is healthy.																																																	
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22	4311 - Pine, Aspen Mix	Sawtimber Medium	4.1	111	51-80	N/A																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Medium 3.1 96 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Log	9		Beech	Low	10 - 20 feet	Sapling
Beech	5	Log/XLog	17		Balsam Fir	High	10 - 20 feet	Sapling
Paper Birch	10	Pole	9		White Pine	Medium	10 - 20 feet	Sapling
Northern White Cedar	10	Log/Pole	13					
White Pine	40	XLog/Log	18	96				
Hemlock	5	Log/XLog	14					

24 6229 - Mixed lowland shrub Nonstocked 3.0 Unspecified No water, drainage tag alder balsam fir

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	10 - 20 feet	Sapling

25 4319 - Mixed Upland Forest Sawtimber Medium 1.8 96 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Log	9		Red Maple	Low	10 - 20 feet	Sapling
Beech	5	Log/XLog	17		Beech	Low	10 - 20 feet	Sapling
Paper Birch	10	Log/Pole	12		Balsam Fir	Medium	10 - 20 feet	Sapling
Northern White Cedar	10	Log/XLog	14		White Pine	Medium	10 - 20 feet	Sapling
White Pine	40	Log/XLog	17	96				
Hemlock	5	Log/XLog	14					

26 42260 - Natural Pine, Mixed Deciduous Poletimber Poor 56.0 37 51-80 N/A Jack pine and white pine on uplands, other species on lowland.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Pole/Sapling	6	37
White Spruce	3	Pole	6	
Black Spruce	2	Pole	5	
White Pine	15	Sapling/Pole	4	
Jack Pine	45	Sapling/Pole	4	37

1-22-20 Stand is healthy. No activity.

27 500 - Water Nonstocked 16.5 No

28 330 - Low-Density Trees Nonstocked 63.5 0 Unspecified 429 - Mixed Upland Conifers Harvesting complete in July 2015. On schedule to scarify now.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Beech	Low	< 5 feet	Sapling
Red Maple	Low	< 5 feet	Sapling
Quaking Aspen	Low	< 5 feet	Sapling

[11/19/2015 TI] Stand was cut as part of Atlas Pine Mix Sale #41-022-12-10. TCR date 9/11/2015.

Regeneration was checked in fall 2018. Stocking is near 600 trees per acre and will be evaluated next year also during the normal inventory cycle.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
29	429 - Mixed Upland Conifers	Sawtimber Medium	6.3	96	51-80	N/A	Old oxbow dry no brush. Come to a cliff with 10 foot drop. Small stand, but next to jack pine stand that is scheduled to be harvested. Thin stand, leave hemlock, cedar wolffy white pine. Buffer Manistique river, however thin within buffer.																																												
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32	429 - Mixed Upland Conifers	Poletimber Well	3.5	72	1-50	N/A	1-14-20 Ridge surrounded by lowland. Healthy no activity.																																												
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33	710 - Sand, Soil	Nonstocked	1.0			No	Sand bar in west branch of manistique river.																																												
34	622 - Lowland Shrub	Nonstocked	18.8			No																																													
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35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	13.2	37	51-80	N/A	Combination of upland and lowland - mostly low.																																												
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36	42210 - Natural Red Pine	Sawtimber Medium	8.8	94	111-140	N/A	Some areas are overstocked, other areas are wide open. BA is slightly skewed due to large dbh. Harvested last entry.																																																
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38	429 - Mixed Upland Conifers	Poletimber Medium	15.6	34	81-110	N/A	2010 Beaver activity in past. open pockets. 2020- Stand has low ground, old oxbows.																																																
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40	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.7	58	111-140	N/A	1-10-20 Stand is healthy.																																																
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41	6120 - Lowland Cedar	Sawtimber Medium	4.8	110		N/A																																																	
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43	42290 - Natural Mixed Pine	Poletimber Poor	10.1	96	81-110	N/A	This stand is along haymeadow creek. A transitional area.																																																
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44	122 - Road/Parking Lot	Nonstocked	2.2			No	County Road 448																																																
45	42290 - Natural Mixed Pine	Sapling Well	76.3	19	51-80	N/A	Scattered red and white pine left from last harvest.																																																
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46	3302 - Low Density Conifer Trees	Nonstocked	8.0			No																																																	
47	4130 - Aspen	Poletimber Well	36.5	38	81-110	N/A	good site.																																																
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Red maple pulp - 19.19 cords																																																							
Paper birch pulp - 76.78 cords																																																							
Quaking aspen pulp - 638.05 cords																																																							
Balsam fir pulp - 56.11 cords																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
48	42210 - Natural Red Pine	Sawtimber Poor	14.3	94	1-50	N/A																																																					
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51	42210 - Natural Red Pine	Poletimber Medium	34.7	78	51-80	N/A	(11/10/2013) Stand was harvested with timbersale 41-041-12-01 Lunch on the Stutts. Residual basal areas were 40 red pine, and 1 white pine. Stand will be put on the list to scarify. There are not too many open areas to scarify, but a few. 11/9/2017 - Stand was scarified, attempted, and was not enough room to operate. Regeneration was counted in 2017 and failed. Featured stand is red pine and stand should be re-inventoried in 2020 and possibly coded for final harvest/trench/plant. 2020 - Stand is healthy. Regeneration has not filled in due to high residual basal area. Stand should be harvested and replanted.																																																				
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52	42110 - Planted Red Pine	Poletimber Well	10.5	49	111-140	N/A	2020 Lots of small diameter trees. need to thin 3rd row. Tops right at 30% live crown.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53 6132 - Mixed Lowland Forest with Cedar Poletimber Well 13.6 56 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole	9	
Red Maple	15	Pole	8	
White Pine	30	Pole	8	56
Hemlock	5	Log/Pole	10	
Northern White Cedar	20	Pole	6	
White Ash	10	Pole	6	
Paper Birch	10	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling

54 42210 - Natural Red Pine Sawtimber Medium 13.6 59 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole	8	
White Pine	15	XLog	22	
Red Pine	30	XLog	20	120
Red Pine	50	Pole	9	59

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Aspen (spp.)	Medium	10 - 20 feet	Sapling

55 500 - Water Nonstocked 8.3 No Stutts Creek

56 42220 - Natural Jack Pine Sapling Well 92.2 36 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2	Log	17	
Red Pine	8	Pole	8	
Jack Pine	5	Pole	6	
Jack Pine	85	Sapling	4	36

57 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 32.3 109 51-80 N/A 1-13-20 drainage separating this stand from 58. No activity. lots of drains and old oxbows.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log	16	
Paper Birch	10	Log/Pole	12	
Black Spruce	10	Log/Pole	12	
Northern White Cedar	10	Log/Pole	10	
White Pine	25	XLog/Log	20	
Hemlock	40	XLog/Log	20	109



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
58	42290 - Natural Mixed Pine	Poletimber Medium	16.9	48	81-110	N/A																																																																									
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Jack Pine	50	Pole	8	48																																																																											
59	42210 - Natural Red Pine	Sawtimber Well	26.8	79	111-140	N/A	thin to 80-90 remove jp (11/10/2013) Stand was harvested with timbersale 41-041-12-01 Lunch on the Stutts. Residual basal areas were 23 white pine, 55 red pine, and 4 cedar.																																																																								
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60	42290 - Natural Mixed Pine	Sawtimber Well	23.3	95	111-140	N/A	historic flood plain, has old oxbows																																																																								
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<p>could select wp logs if had market otherwise hwd pulp sale .</p> <p>1-7-20 Low ground. Trees are healthy. No activity.</p>																																																																															
61	500 - Water	Nonstocked	2.0			No	Stutts Creek																																																																								
62	6120 - Lowland Cedar	Poletimber Well	10.1	95	81-110	N/A	1-7-20 drain in south west section. trees smaller more poles and saplings.																																																																								
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63	42220 - Natural Jack Pine	Poletimber Medium	5.4	59	81-110	N/A																																																																									
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64	6229 - Mixed lowland shrub	Nonstocked	1.0	0	Unspecified	No																																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
65	6127 - Lowland Pine	Sawtimber Well	6.6	129	81-110	N/A	Previous inventory: old growth stand. could cut wp & red pine xlogs or hwd pulp.																																													
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66	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.7	74	81-110	N/A																																														
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67	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	2.9	37	1-50	N/A	Jack pine and white pine on uplands, other species on lowland.																																													
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68	42220 - Natural Jack Pine	Poletimber Well	1.8	58	81-110	N/A	1-23-2020 Retention patch from harvest of stand 28 (Atlas Pine).																																													
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71	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	6.7	85	111-140	N/A	Stand was cut with Atlas Pine and scarified by DNR staff in summer 2014.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
72	42200 - Natural White Pine	Sawtimber Well	1.6	111	51-80	N/A																																																											
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73	429 - Mixed Upland Conifers	Sawtimber Medium	3.0	119	81-110	N/A	1-28-20 Old oxbow and lower ground that adjacent red pine stand. More cedar and balsam fir. Not good plantation ground.																																																										
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75	6122 - Black Spruce	Poletimber Medium	2.5	85	81-110	N/A	1-10-20 This stand was delineated from the adjacent stand 49, mostly low ground and not conducive to clear cutting and making into a plantation.																																																										
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76	42290 - Natural Mixed Pine	Poletimber Well	14.0	59	81-110	N/A	[11/19/2015 TI] Stand was part of Atlas Pine Mix Sale #41-022-12-10. TCR date 9/11/2015. 1/20 This is part of the retention for the harvest of Stand 28.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78 42220 - Natural Jack Pine Poletimber Well 8.5 34 81-110 N/A stand is healthy

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Pole/Log/Sap	9		White Pine	Medium	5 - 10 feet	Sapling
Red Pine	10	Pole/Log	8		Jack Pine	Medium	5 - 10 feet	Sapling
Jack Pine	70	Pole/Sapling	5	34				

79 4319 - Mixed Upland Forest Poletimber Well 11.1 107 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole/Log	9	107	Red Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	20	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	5	Pole	7		White Pine	Low	5 - 10 feet	Sapling
White Pine	20	XLog/Log	20					
Hemlock	10	Log/Pole	10					