



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41174

Entry Year 2024

Acreage: 1,416

County Alger

Management Area: Pictured Rocks Buffer

Stand Examiner: Steve Touvila

Legal Description:

T48N R17W Section 31, T47N R17W Section 4-8

Identified Planning Goals:

Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

Soil and topography:

Rolling except for the steep ridges in section 31. The area contains high quality hardwood soils.

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

Pictured Rocks National Lake Shore is to the north. There is Hancock lands to the east which s encumbered with a Conservation Easement.

Unique Natural Features:

The compartment contains the West Branch and the main branch of the Mosquito River.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

This Compartment is within the dedicated Pictured Rocks National Lakeshore Buffer.

Watershed and Fisheries Considerations:

Fisheries Concerns: This compartment contains the Mosquito River and Chapel Creek which are designated trout streams supporting native brook trout populations. The riparian management zone (RMZ) should be set at 100 feet along the streams for stands with any harvest treatment. For these stands, Fisheries Division requests no cutting within the RMZ for these streams. For clear-cut treatments in stands where aspen is a major component or a management objective for regeneration, a buffer of 300 feet should be maintained, plus 5 feet per 1% of slope.

Wildlife Habitat Considerations:

This compartment is located in the Grand Marias Sandy End Moraine Outwash sub-subsection. The average growing season is approximately 120 days. The extreme winter temperature generally reaches approximately -35o F. Snowfall in this compartment averages 200 inches or more annually. The compartment falls within the Pictured Rocks Buffer Management Area which highlights the following Featured Species: American marten, blackburnian warbler, northern goshawk and pileated woodpecker. General Land Office (GLO) Surveyor notes show sugar maple and beech were the dominant tree species on the uplands in this compartment. Hemlock, yellow birch and balsam fir were mentioned in about half the locations while white birch, ironwood, and elm were less abundant. Tamarack, spruce and white pine were lightly scattered with the area. Lowlands were dominated by cedar but also contained tamarack, spruce, fir, alder and black ash. Windthrow and beaver ponding were likely the major forms of natural disturbance within the compartment. Current forests appear to be similar in species composition to pre-settlement conditions. Sugar maple dominates the upland and cedar, spruce and fir occupy the lowlands.

Wildlife habitat objectives are primarily associated with maintaining within and between stand structural and species diversity associated with northern hardwood forests. Gray wolves and moose (Michigan special concern) utilize the compartment, but no rare species have actually been recorded. Other wildlife species of interest that may utilize this compartment include eastern newt, blue-spotted salamander, great-crested flycatcher, broad-winged hawk, masked shrew and eastern chipmunk.

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. The nearest known active sand/gravel pit is just over one mile southeast. There appears to be some good potential for sand & gravel within the compartment, but bedrock is at or near the surface across the area. The compartment appears to be entirely within the boundaries of Pictured Rocks National Lakeshore, and surface mining may be restricted. No 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:

Poor at times due to heavy soils. Access to T48N R17W Section 31 and T47N R17W Section 6 can be difficult due to wet soils, streams, and blockades.

Survey Needs:

Survey corners and boundary lines should be established, especially adjacent to Hancock property. Confirm boundaries adjacent to Pictured Rocks National Lakeshore.

Recreational Facilities and Opportunities:

Chapel Falls sits to the north which is owned and managed by the Pictured Rocks National Lakeshore. This has become a destination spot in recent years and grown outside of what the site can sustain which is also impacting State land on peak days. The DNR has been working with the park to help resolve these issues.

Fire Protection:

Wildfire is not a major concern here due to the forest cover type and soils

Additional Compartment Information:

The following reports from the Inventory are attached:

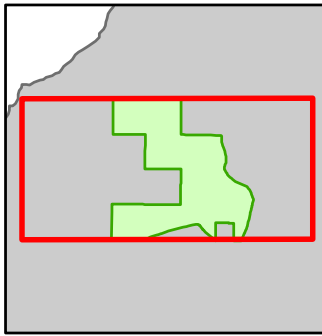
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

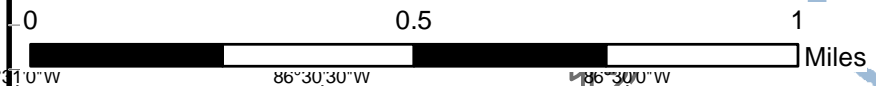
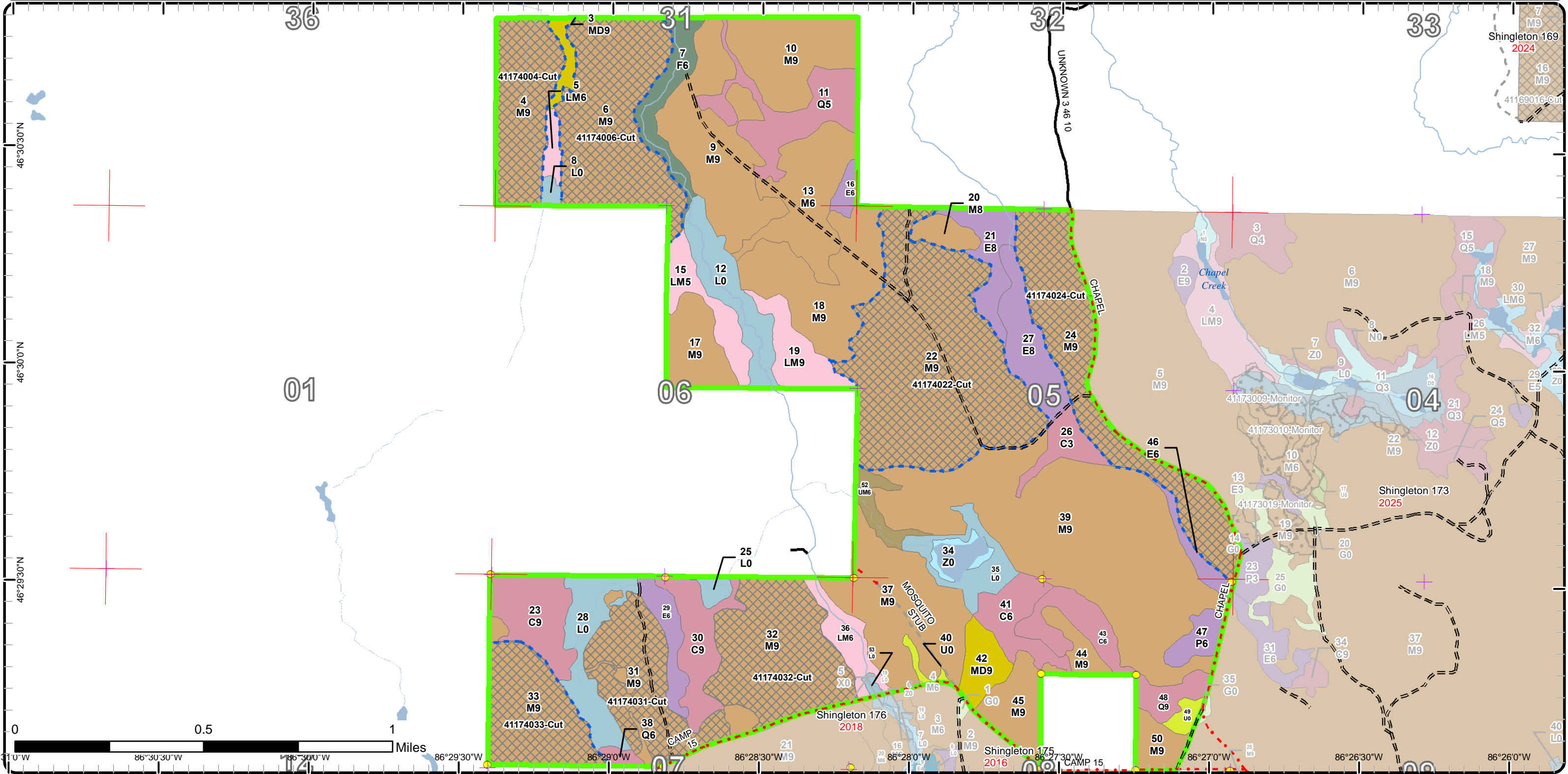
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 174
 T48N, R17W, Sec: 31
 County: Alger
 Unit: Shingleton
 Mgmt Area: Pictured Rocks Buffer
 YOE: 2024
 Acres: 1416.1 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 8/17/2022
 Map Phase: Web Post



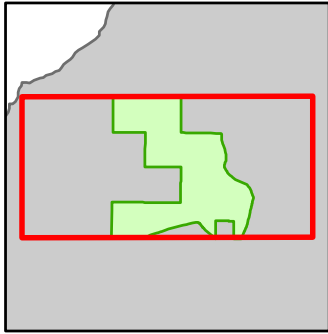
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



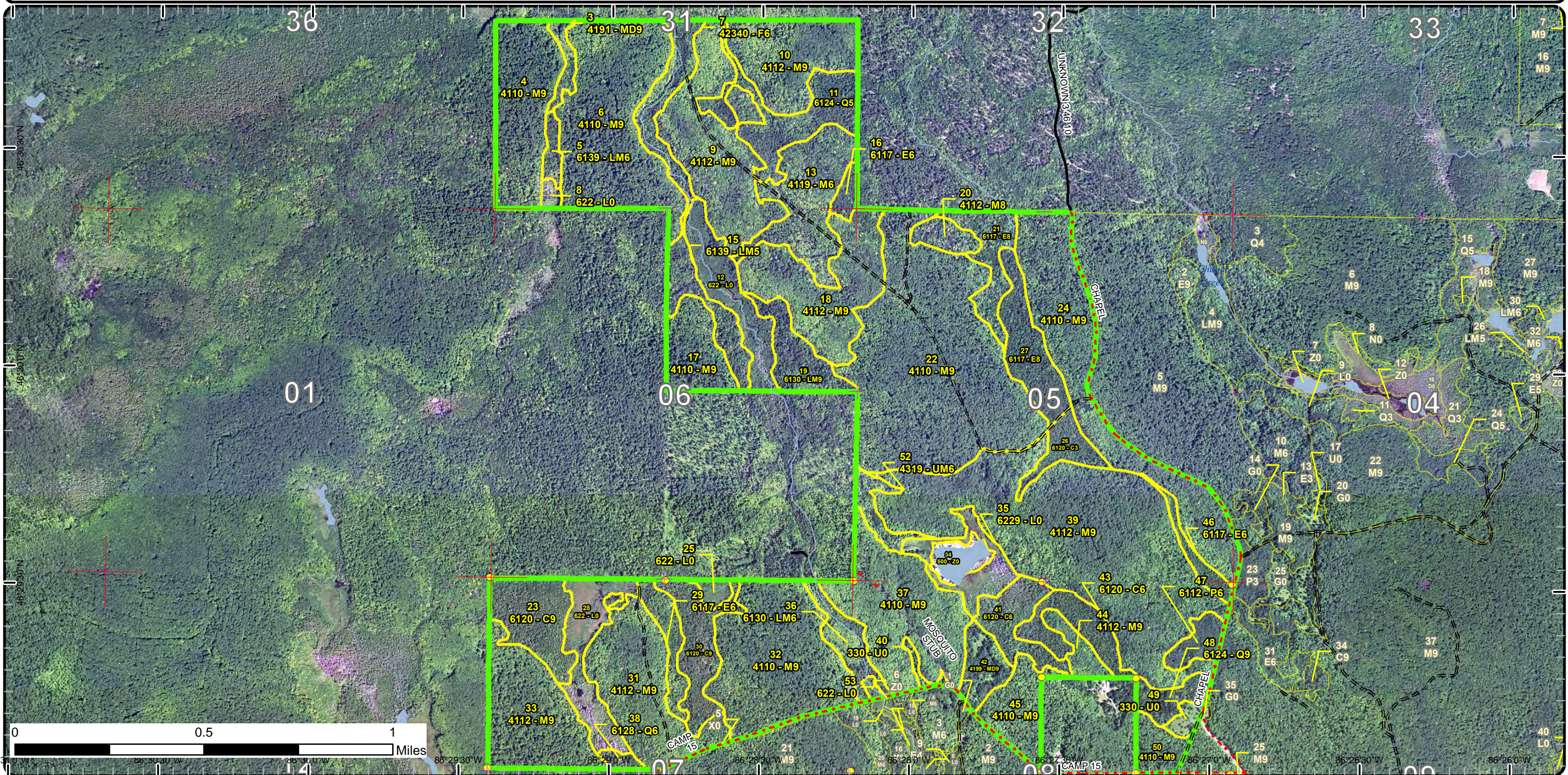
46°30'30"N 46°30'0"N 46°29'30"N 46°29'0"N 86°31'0"W 86°30'30"W 86°30'0"W 86°29'30"W 86°29'0"W 86°28'30"W 86°28'0"W 86°27'30"W 86°27'0"W 86°26'30"W 86°26'0"W

Stand Boundary Map

Compartment: 174
 T48N, R17W, Sec: 31
 County: Alger
 Unit: Shingleton
 Mgmt Area: Pictured Rocks Buffer
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 Map Revised: 8/17/2022
 Map Phase: Web Post

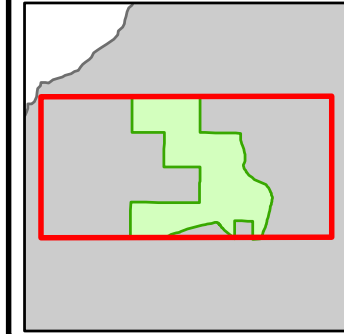


- Miris Corners
 - + Remonumented Section Corners
 - Survey Grade Corners
 - Counties
 - DNR - Forest Access Route
 - Federal / State / County - Paved Road
 - County - Gravel Road
 - Private - Dirt / Gravel Road
 - Intermittent Stream
 - Lake/Pond
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 - Stand Boundaries
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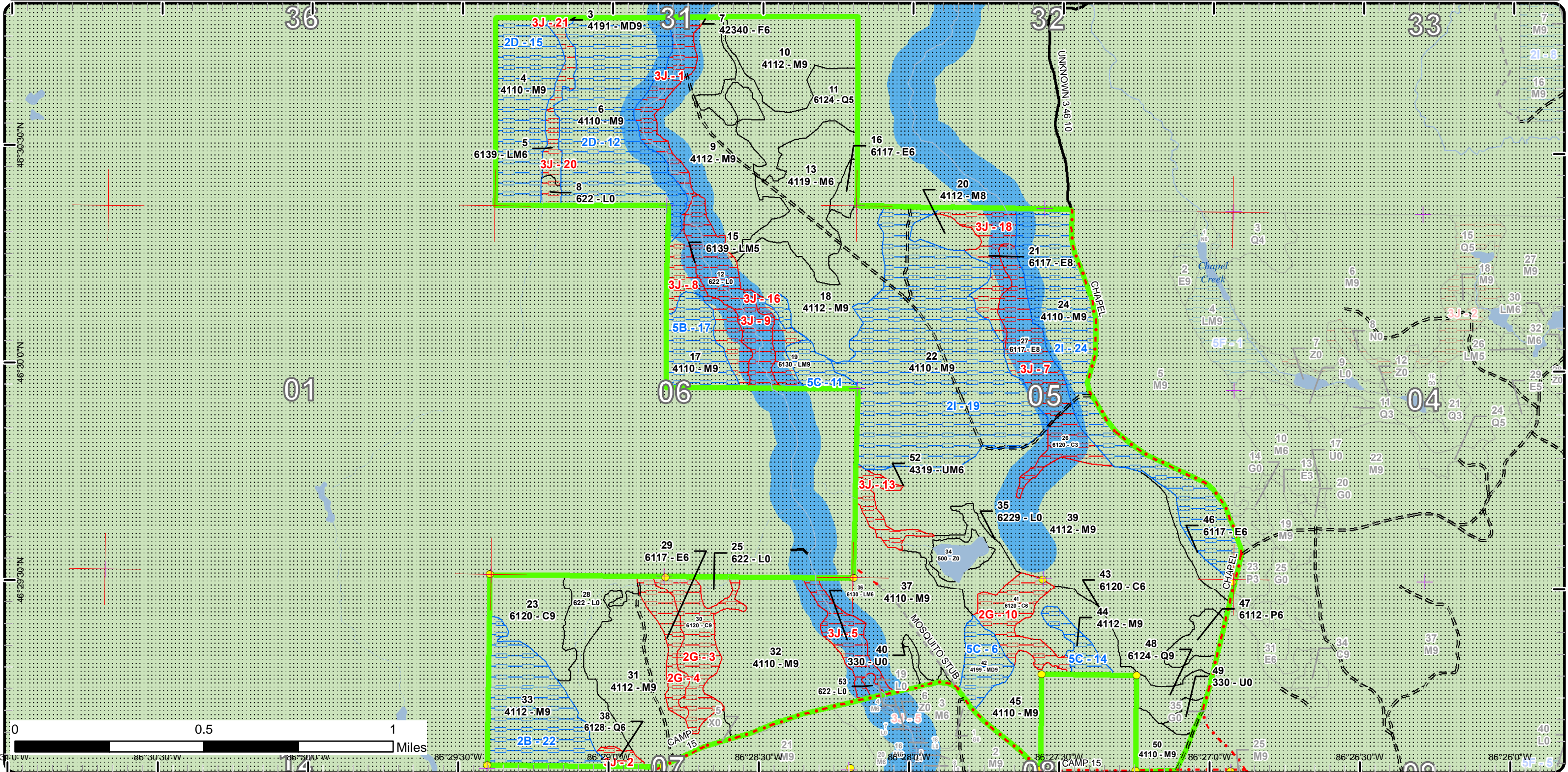


Special Conservation Areas

Compartment: 174
 T48N, R17W, Sec: 31
 County: Alger
 Unit: Shingleton
 Mgmt Area: Pictured Rocks Buffer
 YOE: 2024
 Acres: 1416.1 GIS Calculated
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 Map Revised: 8/17/2022
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- Miris Corners
- ✚ Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- .-.- County - Gravel Road
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



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
Cedar	0	0	0	0	11	0	0	0	0	0	0	87	0	0	0	0	0	0	98
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	32	0	0	0	10	0	0	0	3	0	0	0	0	0	0	45
Lowland Deciduous	0	0	0	0	0	7	0	17	42	0	0	0	0	0	0	0	0	0	65
Lowland Mixed Forest	0	0	0	0	0	5	14	17	0	18	0	0	0	0	0	0	0	0	54
Lowland Shrub	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	0	60	207	735	8	0	0	0	0	0	0	0	0	1010
Upland Mixed Forest	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Spruce/Fir	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	91	0	0	0	41	38	12	74	251	795	26	0	90	0	0	0	0	0	1416



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 174
Total Compartment Acres: 1,416

Commercial Harvest - 117
Harvests with Site Condition - 395
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
Northern Hardwood		0	513	0	0	0	0	0	0	0	513
	Total	0	513	0	0	0	0	0	0	0	513

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		513	0	0	0	0	0	0	0	0	513
Next Step		0	0	0	0	0	513	0	0	0	513
	Total	513	0	0	0	0	513	0	0	0	1025



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:

4	41174004-Cut	45.5	4110 - Sugar Maple Association	Sawtimber Well	84	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select cut to an average BA of 85 while following the complete marker and creating regeneration gaps. Don't cut hemlock or cedar if found. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwoods <u>Regen:</u></p> <p><u>Other</u> Landowner access and a temporary bridge will be needed. <u>Comment:</u></p> <p><u>Site Condition:</u> Portable Bridge Needed <u>Proposed Start Date:</u> 10/1 /2023</p>											
6	41174006-Cut	82.3	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Select cut to an average BA of 85 while following the complete marker and creating regeneration gaps. Don't cut hemlock or cedar if found. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwoods <u>Regen:</u></p> <p><u>Other</u> Landowner access and temporary bridge will be needed. <u>Comment:</u></p> <p><u>Site Condition:</u> Portable Bridge Needed <u>Proposed Start Date:</u> 10/1 /2023</p>											
22	41174022-Cut	147.0	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Select cut to an average BA of 85 while following the complete marker and creating regeneration gaps. Don't cut hemlock or cedar if found. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwoods <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed <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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24 41174024-Cut	75.0	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
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Prescription Specs: Thin to an average BA of 85 creating regeneration gaps following the complete marker. Try to open up some of the black cherry regeneration if possible. Don't cut hemlock or cedar if found.

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

Acceptable Regen: northern hardwoods

Other Comment: The southern part of this stand was part of stand 39 last entry. It wasn't treated with the rest of stand 39 and site conditioned with the details of too many acres to treat last entry and will treat it this entry.

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023

31 41174031-Cut	48.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
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Prescription Specs: Select cut to an average BA of 85 while following the complete marker and creating regeneration gaps. Try to regenerate some black cherry if possible. Don't cut hemlock or cedar.

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

Acceptable Regen: northern hardwoods

Other Comment: Excluded from the proposed treatment is a narrow strip of small diameter black ash and yellow birch in lowland ground. The treatment acreage may vary when line work is completed.

Site Condition:

Proposed Start Date: 10/1 /2023

32 41174032-Cut	68.8	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
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Prescription Specs: Select cut to an average BA of 85 while following the complete marker and creating regeneration gaps. Try to regenerate some black cherry if possible. Don't cut hemlock or cedar if found.

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

Acceptable Regen: northern hardwoods.

Other Comment: The proposed treatment line excludes an area in the southwest part of the stand. Here there are low areas and thick balsam fir that is small pole size to sapling. Wait until next treatment to consider this area.

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
33 41174033-Cut	45.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	84	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select cut to an average BA of 85 while following the complete marker and creating regeneration gaps. Try to open up some of the black cherry regeneration. Don't cut hemlock or cedar if found.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> northern hardwoods</p> <p><u>Other Comment:</u> Will need access through private land.</p> <p><u>Site Condition:</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 512.5

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 174
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2B	2D	2I	5B	5C	2G	3J
98	45	0	53	Cedar						42	11
6	6	0	0	Low-Density Trees							
9	9	0	0	Lowland Aspen/Balsam Poplar							
45	42	0	3	Lowland Conifers							3
66	11	0	54	Lowland Deciduous						12	42
53	0	11	43	Lowland Mixed Forest					11		43
76	48	0	29	Lowland Shrub							29
18	0	13	6	Mixed Upland Deciduous					13		6
1010	583	427	0	Northern Hardwood	47	128	222	22	8		0
8	0	0	8	Upland Mixed Forest							8
18	0	0	18	Upland Spruce/Fir							18
9	9	0	0	Water							
1,416	753	450	214	Total Forested Acres	47	128	222	22	31	54	159
	53%	32%	15%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for the Mosquito River. Many areas contain steep river banks.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A 2-3' wide stream runs through the stand.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 174
Year of Entry: 2024

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Soft organic soils. Northern portion of stand contains a tributary that flows into the Mosquito River.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Soft organic soils. Northern part of stand contains a tributary that flows into the Mosquito River.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mosquito River flows through this stand.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	35	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Buffer for Chapel Creek.							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream buffer, drainages, and some deep organic soils in places.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
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Compartment: 174
Year of Entry: 2024

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mosquito River.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	82	2B: Unknown if access through adjacent landowner(s) is possible	2I: Survey needed	Unspecified	Unspecified
Comments: Survey will be needed in addition to the other site conditions. 2-30' department bridge will be adequate.							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A tributary of the Mosquito River flows through this stand. Many areas are hilly river banks.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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15	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	46	2B: Unknown if access through adjacent landowner(s) is possible	2I: Survey needed	Unspecified	Unspecified
Comments: Survey will be needed in addition to the other site conditions. 2-30' department bridges will be adequate.							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' buffer for the Mosquito River.							
17	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Chapel Creek runs through the northeast part of the stand.							
19	Available	2I: Survey needed	147	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A branch of the Mosquito River runs through this stand.							

Report 4 – Site Conditions

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Compartment: 174
Year of Entry: 2024

21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A branch of the Mosquito River runs through this stand.							
22	Available	2B: Unknown if access through adjacent landowner(s) is possible	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	2I: Survey needed	75	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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
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
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3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.5	86	81-110	N/A	This is a hardwood dominated stand along a tributary of the Mosquito River. This stand acts as a buffer and contains a variety of tree species and slight changes of topography. Dense areas of balsam fir.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Log	10	
White Spruce	10	Pole/Sapling	5	
Yellow Birch	10	Pole/Log	9	
Red Maple	10	Log/Pole	11	
Quaking Aspen	5	Log/Pole	10	
Balsam Fir	25	Pole/Sapling	6	
Sugar Maple	35	Log/Pole	11	86

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling

4	4110 - Sugar Maple Association	Sawtimber Well	45.5	84	111-140	N/A	This stand was single tree harvested under the contract TS# 41-026-04-01, Mosquito West from 2005-2009. .
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	85	Log/Pole	11	84
Yellow Birch	5	Log/Pole	10	
Red Maple	10	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	Variable	Sapling
Sugar Maple	Full	10 - 20 feet	Sapling

5	6139 - Mixed Lowland Forest	Poletimber Well	4.7	55	81-110	N/A	This stand is a buffer for the Mosquito River.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole/Log	9	
Red Maple	15	Pole/Log	9	
Yellow Birch	15	Log/Pole	10	
Black Ash	10	Pole/Sapling	5	
Balsam Fir	20	Pole	8	55
White Spruce	20	Pole	9	
Northern White Cedar	15	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling

6	4110 - Sugar Maple Association	Sawtimber Well	82.3	86	111-140	N/A	This stand was single tree harvested under the contract TS # 41-026-04-01, Mosquito West from 2005-2009.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	3	Pole/Log	9	
Balsam Fir	2	Pole	7	
Sugar Maple	85	Log/Pole	11	86
Red Maple	10	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling
Black Cherry	Trace	Variable	Sapling

7	42340 - Upland Spruce/Fir	Poletimber Well	18.5	48	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	10	Pole	6	
Yellow Birch	10	Pole	8	
Black Spruce	10	Pole	6	
Balsam Fir	50	Pole	6	48
Red Maple	20	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 622 - Lowland Shrub Nonstocked 2.4 Unspecified No

9 4112 - Maple, Beech, Cherry Association Sawtimber Well 59.7 64 51-80 N/A Big Mosquito HW 41-025-14-01 units 1-3

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	22	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Yellow Birch	8	Pole/Log	9		Sugar Maple	Medium	Variable	Sapling
Quaking Aspen	1	Pole	8		Red Maple	Medium	Variable	Sapling
White Spruce	2	Log	14		White Spruce	Trace	< 5 feet	Sapling
Hemlock	5	Log/Pole	10		Quaking Aspen	Trace	10 - 20 feet	Sapling
Paper Birch	1	Pole/Log	8		Beech	Low	5 - 10 feet	Sapling
Sugar Maple	61	Log/Pole	10	64				

10 4112 - Maple, Beech, Cherry Association Sawtimber Well 39.1 84 81-110 N/A Big Mosquito HW 41-025-14-01 units 5, 4

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	72	Log/Pole	11	84	Red Maple	Medium	Variable	Sapling
Yellow Birch	1	Pole/Log	9		Sugar Maple	Medium	Variable	Sapling
Black Cherry	1	Pole	7		Yellow Birch	Trace	Variable	Sapling
Hemlock	4	Log	12		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	1	Pole	6		Beech	Low	< 5 feet	Sapling
Balsam Fir	5	Sapling/Pole	4					
White Spruce	1	Log/Pole	10					
Red Maple	15	Log/Pole	11					

11 6124 - Lowland Spruce-Fir Poletimber Medium 32.0 35 1-50 N/A Thick regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	10	Pole/Sapling	5		Northern White Cedar	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	5	Pole/Sapling	6		Black Ash	Low	5 - 10 feet	Sapling
Quaking Aspen	5	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	5	Pole/Sapling	5		Red Maple	Medium	>20 feet	Sapling
Yellow Birch	5	Pole/Sapling	5		Balsam Fir	High	>20 feet	Sapling
Black Spruce	20	Sapling/Pole	4					
Balsam Fir	30	Pole/Sapling	5	35				
Northern White Cedar	20	Sapling/Pole/Log	3					

12 622 - Lowland Shrub Nonstocked 26.1 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 4119 - Mixed Northern Hardwoods Poletimber Well 40.6 71 81-110 N/A There are a few drainages that flow from this stand to the Mosquito River, with two main areas being about 30' wide. These areas are north of the road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	39	Pole/Log	8	71	Beech	Medium	Variable	Sapling
White Spruce	1	Log	14		Balsam Fir	Medium	10 - 20 feet	Sapling
Yellow Birch	10	Log/Pole	10		Hemlock	Low	Variable	Sapling
Black Ash	2	Pole	6		Sugar Maple	Medium	Variable	Sapling
Northern White Cedar	3	Log/Pole	10		Red Maple	Medium	Variable	Sapling
Hemlock	3	Log	14		Black Ash	Low	10 - 20 feet	Sapling
Beech	1	Log	12					
Black Spruce	1	Pole	8					
Sugar Maple	30	Pole/Log	8					
Balsam Fir	10	Pole	5					

15 6139 - Mixed Lowland Forest Poletimber Medium 17.0 76 81-110 N/A Most of the cedar is in the southern part of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Log	9		Black Ash	Low	Variable	Sapling
Balsam Fir	13	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	13	Log/Pole	12		Sugar Maple	Medium	Variable	Sapling
Black Ash	8	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Black Cherry	10	Sapling/Pole	4					
White Spruce	18	Log/Pole	12	76				
Red Maple	15	Pole/Log	9					
Northern White Cedar	13	Log/Pole	10					

16 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 4.4 71 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Pole	6		Paper Birch	Low	>20 feet	Sapling
Balsam Fir	15	Pole	6		Black Ash	Low	< 5 feet	Sapling
Black Spruce	15	Pole	8		Black Spruce	Low	< 5 feet	Sapling
Northern White Cedar	10	Pole	8		Red Maple	Low	Variable	Sapling
Black Ash	5	Pole	5					
Quaking Aspen	4	Pole	8					
Red Maple	31	Pole	7	71				

17 4110 - Sugar Maple Association Sawtimber Well 21.9 86 81-110 N/A The stand was single tree harvested under the contract TS # 41-026-04-01, Mosquito West between 2005-2009.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	11		Black Cherry	Trace	10 - 20 feet	Sapling
Black Cherry	3	Pole	8		Sugar Maple	Full	10 - 20 feet	Sapling
Sugar Maple	82	Log/Pole	11	86	Balsam Fir	Low	Variable	Sapling
					Beech	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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18 4112 - Maple, Beech, Cherry Association Sawtimber Well 51.7 81 81-110 N/A Big Mosquito HW 41-025-14-01 units 7-9

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	3	Pole	6		Beech	Medium	5 - 10 feet	Sapling
Sugar Maple	62	Log/Pole	10	81	Balsam Fir	Medium	Variable	Sapling
Red Maple	30	Log/Pole	10		Sugar Maple	Medium	5 - 10 feet	Sapling
Yellow Birch	5	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
					Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
					Yellow Birch	Low	5 - 10 feet	Sapling

19 6130 - Fir, Aspen, Maple Sawtimber Well 18.0 96 81-110 N/A There's a small upland patch of red maple in the southern part of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	20	Log	12		Black Ash	Low	Variable	Sapling
Balsam Fir	20	Pole	9		Tag Alder	Medium	10 - 20 feet	Tall Shrub
White Spruce	20	Log	14	96	Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	1	Pole/Log	9		Red Maple	Low	Variable	Sapling
Black Cherry	1	Pole	8					
Paper Birch	18	Pole/Log	9					
Red Maple	20	Pole/Log	8					

20 4112 - Maple, Beech, Cherry Association Sawtimber Medium 7.7 91 51-80 N/A Big Mosquito HW 41-025-14-01 unit 6. Diseased beech was cut leaving a lower basal area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	43	Log/Pole/XLog	14	91	Red Maple	Medium	Variable	Sapling
Red Maple	38	Log/Pole/XLog	14		Hemlock	Trace	< 5 feet	Sapling
Hemlock	2	Log	14		Beech	Medium	Variable	Sapling
Black Cherry	2	Pole	6		Balsam Fir	Low	Variable	Sapling
Yellow Birch	14	Pole	8		White Spruce	Low	< 5 feet	Sapling
Paper Birch	1	Pole	8		Sugar Maple	Medium	Variable	Sapling
					Yellow Birch	Medium	>20 feet	Sapling

21 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 17.8 83 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	3	Pole	6		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Hemlock	1	Log	14		Yellow Birch	Medium	>20 feet	Sapling
Yellow Birch	20	Log/Pole	10		Red Maple	Medium	>20 feet	Sapling
White Spruce	15	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Black Ash	29	Pole	8	83	Black Ash	Medium	>20 feet	Sapling
Northern White Cedar	5	Pole/Log	9		White Spruce	Trace	Variable	Sapling
Red Maple	27	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22 4110 - Sugar Maple Association Sawtimber Well 147.0 86 111-140 N/A This stand was thinned around 2006 under contract TS # 027-04 Mosquito East.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	1	Log/Pole	11		Beech	Trace	5 - 10 feet	Sapling
Red Maple	5	Log/Pole	12		Sugar Maple	High	5 - 10 feet	Sapling
Yellow Birch	1	Log	12		Balsam Fir	Trace	10 - 20 feet	Sapling
Beech	1	Log	11					
Sugar Maple	91	Log/Pole	12	86				
Basswood	1	Log/Pole	11					

23 6120 - Lowland Cedar Sawtimber Well 26.5 110 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log	14		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	70	Log	12	110	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	10	Pole/Log	9		Red Maple	Low	Variable	Sapling
Paper Birch	5	Log/Pole	10					
Yellow Birch	5	Log/Pole	12					
Balsam Fir	5	Pole	8					

24 4110 - Sugar Maple Association Sawtimber Well 75.0 86 111-140 N/A Stand was thinned under contract TS # 027-04 Mosquito East around 2006.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling
Balsam Fir	2	Pole	6		White Spruce	Trace	< 5 feet	Sapling
White Spruce	2	Log/Pole	13		Ironwood	Trace	10 - 20 feet	Sapling
Yellow Birch	1	Pole/Log	9		Sugar Maple	Full	10 - 20 feet	Sapling
Hemlock	2	Pole/Log	9		Beech	Low	5 - 10 feet	Sapling
Red Maple	11	Log/Pole	11		Black Cherry	Low	5 - 10 feet	Sapling
Sugar Maple	80	Log/Pole	11	86				
Black Cherry	1	Pole/Log	9					

25 622 - Lowland Shrub Nonstocked 3.9 Unspecified No

26 6120 - Lowland Cedar Sapling Well 10.8 41 1-50 N/A Low ground that Chapel Creek flows through.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	25	Sapling/Pole	4		Red Maple	Low	Variable	Sapling
Yellow Birch	5	Pole/Log	9		Northern White Cedar	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5		Black Ash	Low	Variable	Sapling
Red Maple	5	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	55	Sapling/Pole	4	41	Balsam Fir	Low	Variable	Sapling
White Spruce	5	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 24.4 84 51-80 N/A Low ground that Chapel Creek flows through.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	9		Northern White Cedar	Low	Variable	Sapling
Balsam Fir	5	Pole	7		Black Ash	Low	Variable	Sapling
White Spruce	25	Log/Pole	11	92	Balsam Fir	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	11		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	35	Pole	8	84	Red Maple	Low	Variable	Sapling
Yellow Birch	20	Pole/Log	9					

28 622 - Lowland Shrub Nonstocked 26.5 Unspecified No

29 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 12.1 76 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	12	Pole	8		Sugar Maple	Medium	>20 feet	Sapling
Yellow Birch	14	Log	11		Red Maple	Medium	>20 feet	Sapling
Red Maple	10	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Pole	7					
Black Ash	40	Pole	7	76				
Northern White Cedar	10	Log/Pole	11					
White Spruce	3	Log	14					
Hemlock	1	Log	16					

30 6120 - Lowland Cedar Sawtimber Well 23.7 117 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	50	Log/Pole	12	117	Red Maple	Low	< 5 feet	Sapling
White Spruce	3	Log	13		Northern White Cedar	Low	< 5 feet	Sapling
Black Ash	5	Sapling/Pole	4		Balsam Fir	Low	< 5 feet	Sapling
Yellow Birch	10	Log/Pole	12					
Quaking Aspen	5	Log/Pole	10					
Balsam Fir	10	Pole	8					
Black Spruce	10	Pole	6					
Red Maple	7	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31 4112 - Maple, Beech, Cherry Association Sawtimber Well 52.6 86 111-140 N/A Most of the black cherry, balsam fir and red maple are along the edges of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	72	Log/Pole/XLog	12	86	Balsam Fir	Low	Variable	Sapling
Northern White Cedar	1	Pole	6		Hemlock	Trace	5 - 10 feet	Sapling
Red Maple	15	Log/Pole	11		Red Maple	Medium	Variable	Sapling
Yellow Birch	3	Pole/Log/Sap	8		Yellow Birch	Low	>20 feet	Sapling
White Spruce	1	Log/Pole	10		Sugar Maple	High	Variable	Sapling
Hemlock	1	Log	14					
Black Ash	3	Pole/Sapling	5					
Balsam Fir	2	Pole/Sapling	6					
Black Cherry	2	Log/Pole	10					

32 4110 - Sugar Maple Association Sawtimber Well 72.3 86 111-140 N/A This stand was single tree harvested under the contract TS# 041-04, 639 Hardwood around 2007. The black cherry is mostly found along the edges of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	2	Pole/Log	9		Sugar Maple	High	5 - 10 feet	Sapling
Paper Birch	1	Pole	6		Red Maple	Medium	5 - 10 feet	Sapling
Black Cherry	5	Log	13		Balsam Fir	Low	10 - 20 feet	Sapling
Basswood	1	Log	13					
White Spruce	1	Pole	8					
Sugar Maple	74	Log/Pole	12	86				
Red Maple	15	Log/Pole	10					
Black Ash	1	Pole	6					

33 4112 - Maple, Beech, Cherry Association Sawtimber Well 47.1 84 111-140 N/A The northern tip of the stand has less basal area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	1	Pole/Log	9		Black Cherry	Trace	5 - 10 feet	Sapling
Black Cherry	4	Pole	8		Balsam Fir	Trace	10 - 20 feet	Sapling
Red Maple	20	Log/Pole/XLog	12		Sugar Maple	High	5 - 10 feet	Sapling
Sugar Maple	75	Log/Pole/XLog	12	84	Red Maple	Low	5 - 10 feet	Sapling

34 500 - Water Nonstocked 8.6 Unspecified No

35 6229 - Mixed lowland shrub Nonstocked 16.2 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 6130 - Fir, Aspen, Maple Poletimber Well 13.5 66 81-110 N/A This stand is within the riparian zone of the Mosquito River and acts as a buffer.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	20	Pole	8		Balsam Fir	Medium	Variable	Sapling
White Spruce	10	Log/Pole	14		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	1	Pole	9					
Black Ash	5	Pole	7					
Yellow Birch	5	Log/Pole	10					
Sugar Maple	44	Pole	7	66				
Northern White Cedar	15	Log/Pole	13					

37 4110 - Sugar Maple Association Sawtimber Well 62.0 84 81-110 N/A chiquitio hardwoods. 41-028-14-01 TCR: 9/13/16

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	3	Pole/Log	9		Balsam Fir	Trace	5 - 10 feet	Sapling
Quaking Aspen	1	Log/Pole	10		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Ironwood	1	Pole	8		Black Cherry	Trace	< 5 feet	Sapling
Paper Birch	1	Pole	8		Quaking Aspen	Trace	5 - 10 feet	Sapling
Yellow Birch	2	Pole/Log	9		White Spruce	Trace	Variable	Sapling
Basswood	3	Log/Pole	10		Sugar Maple	High	Variable	Sapling
Sugar Maple	89	Log/Pole	10	84				

38 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 2.8 110 81-110 N/A A small stream runs through the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Balsam Fir	15	Pole	7		Red Maple	Medium	Variable	Sapling
White Spruce	10	Pole	7		Black Ash	Low	>20 feet	Sapling
Yellow Birch	15	Pole/Log	8					
Northern White Cedar	40	Pole/Log	9	110				

39 4112 - Maple, Beech, Cherry Association Sawtimber Well 166.8 76 81-110 N/A Big Mosquito HW 41-025-14-01 units 10-16.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Log/Pole	10	76	Ironwood	Trace	Variable	Sapling
Red Maple	35	Log/Pole	10		Birch (spp.)	Low	Variable	Sapling
Basswood	5	Log/Pole	10		Sugar Maple	Medium	Variable	Sapling
Black Cherry	5	Pole/Log	9		Beech	Low	< 5 feet	Sapling
					Balsam Fir	Full	10 - 20 feet	Sapling
					White Pine	Low	< 5 feet	Sapling
					Red Maple	Medium	Variable	Sapling
					Hemlock	Trace	>20 feet	Sapling
					White Spruce	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40 330 - Low-Density Trees Nonstocked 2.2 Unspecified No

41 6120 - Lowland Cedar Poletimber Well 18.4 112 81-110 N/A

This stand contains several wet drainages and various tree sizes and densities.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	7		Black Ash	Low	10 - 20 feet	Sapling
White Spruce	20	Log/Pole	14		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	60	Pole/Log/Sap	9	112	Balsam Fir	Medium	Variable	Sapling
Black Ash	5	Sapling/Pole	4		White Spruce	Low	< 5 feet	Sapling
Paper Birch	5	Pole	5		Red Maple	Low	Variable	Sapling
					Northern White Cedar	Medium	Variable	Sapling

42 4199 - Other Mixed Upland Deciduous Sawtimber Well 12.8 81 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	8		Sugar Maple	Medium	Variable	Sapling
White Spruce	10	Log/Pole	11		White Spruce	Trace	Variable	Sapling
Sugar Maple	40	Log/Pole	10	81	Balsam Fir	Low	Variable	Sapling
Black Cherry	10	Pole/Log	9					
Balsam Fir	5	Pole	7					
Quaking Aspen	25	Pole/Log	8					

43 6120 - Lowland Cedar Poletimber Well 18.3 112 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		Northern White Cedar	Medium	Variable	Sapling
Balsam Fir	10	Pole	7		Red Maple	Low	>20 feet	Sapling
Northern White Cedar	75	Pole/Log	9	112	White Spruce	Low	< 5 feet	Sapling
White Spruce	10	Log/Pole	14		Balsam Fir	Medium	Variable	Sapling

44 4112 - Maple, Beech, Cherry Association Sawtimber Well 7.8 81 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	5		Red Maple	Low	Variable	Sapling
White Spruce	3	Pole	5		Balsam Fir	Medium	Variable	Sapling
Black Cherry	20	Pole/Log	8		Sugar Maple	Low	Variable	Sapling
Red Maple	22	Log/Pole	10					
Paper Birch	5	Pole	8					
Quaking Aspen	3	Log/Pole	12					
Sugar Maple	40	Log/Pole	10	81				
Yellow Birch	2	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45 4110 - Sugar Maple Association Sawtimber Well 20.2 84 81-110 N/A This stand was single tree harvested under the contract TS# 041-04, 639 Hardwood.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	1	Log	12		Balsam Fir	Trace	Variable	Sapling
Paper Birch	3	Log	12		Sugar Maple	High	< 5 feet	Sapling
Black Cherry	2	Pole/Log	9					
Sugar Maple	87	Log/Pole	10	84				
Red Maple	5	Log/Pole	10					
Yellow Birch	2	Log	12					

46 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 6.9 51 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	6		Black Ash	Medium	>20 feet	Sapling
Northern White Cedar	2	Pole	6		Balsam Fir	Medium	Variable	Sapling
Black Ash	40	Pole/Sapling	5	51				
Yellow Birch	5	Pole/Sapling	5					
White Spruce	5	Log/Pole	11					
Red Maple	30	Pole/Sapling	6					
Black Spruce	3	Pole	8					

47 6112 - Lowland Aspen Poletimber Well 8.6 34 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	6		Sugar Maple	Low	5 - 10 feet	Sapling
Quaking Aspen	55	Pole/Sapling	5	34				
White Spruce	5	Log/Pole	11					
Black Cherry	5	Pole/Sapling	6					
White Pine	5	XLog/Log	14					
Sugar Maple	10	Sapling	3					
Striped Maple	5	Sapling	3					
Ironwood	2	Pole/Sapling	6					
Paper Birch	3	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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48 6124 - Lowland Spruce-Fir Sawtimber Well 9.8 76 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	4	Pole	8		Sugar Maple	Low	Variable	Sapling
White Spruce	30	Log/Pole	16	76	Black Ash	Low	>20 feet	Sapling
Northern White Cedar	10	Pole	8	82	White Spruce	Low	< 5 feet	Sapling
Red Maple	4	Pole	8		Balsam Fir	Medium	Variable	Sapling
Yellow Birch	1	Pole	8					
Paper Birch	10	Pole/Sapling	6					
Black Spruce	1	Pole	9					
Black Ash	5	Pole	7					
Quaking Aspen	10	Log/Pole	10					
Balsam Fir	25	Pole	8					

49 330 - Low-Density Trees Nonstocked 3.9 Unspecified No

50 4110 - Sugar Maple Association Sawtimber Well 10.5 84 81-110 N/A

This stand was single tree harvested under the contract TS # 041--04, 639 Hardwood around 2005.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	17	Log/Pole	11		Sugar Maple	Full	5 - 10 feet	Sapling
Sugar Maple	83	Log/Pole	11	84	Balsam Fir	Low	Variable	Sapling

52 4319 - Mixed Upland Forest Poletimber Well 8.4 40 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	27	Sapling/Pole	4		Balsam Fir	Medium	>20 feet	Sapling
Balsam Fir	40	Pole/Sapling	6	40	Sugar Maple	Medium	>20 feet	Sapling
White Spruce	5	Log	16					
Yellow Birch	25	Pole/Sapling	5					
Paper Birch	2	Pole/Log	9					
Quaking Aspen	1	Pole/Log	9					

53 622 - Lowland Shrub Nonstocked 1.3 0 Unspecified No