



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41188

Entry Year 2023

Acreage: 1,181

County Alger

Management Area: Cusino Complex

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**Stand Examiner:** Steve Touvila

## Legal Description:

T46N R17W Sections 12 and 13

## Identified Planning Goals:

To provide users with a variety of benefits commonly associated with publicly-owned forest lands. This compartment is located in an area considered to be primary winter deer range (Petrel Deer Yard) and is managed in cooperation with Wildlife Division in accordance with their deeryard management plans.

## Soil and topography:

This area features medium-to-heavy textured soils. The topography is generally flat with only slight changes in elevation.

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

There's 80 private acres in section 12, while the state owns the rest of the land in these sections and the vast majority of the surrounding lands as well. There are no developed facilities within this compartment.

## Unique Natural Features:

## Archeological, Historical, and Cultural Features:

None known.

## Special Management Designations or Considerations:

This compartment lies within the Petrel Deeryard. Timber management activities are coordinated with Wildlife Division in accordance with their deeryard management goals.

## Watershed and Fisheries Considerations:

This compartment contains headwater reaches of Commencement Creek and an unnamed stream that serves as tributary to Star Creek.

Commencement Creek is a non-designated stream less than 50' width with a mean July temperature of 62.2 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended for Commencement Creek to protect these areas in accordance with Best Management Practices.

The unnamed stream that serves as tributary to Star Creek is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 63.0 °F (cold stream). A 300' buffers is recommended for this unnamed stream in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

## Wildlife Habitat Considerations:

This compartment is located within the Grand Marais Sandy End Moraine Outwash sub-subsection. The average growing season is approximately 120 days. The extreme winter temperature generally reaches approximately -35 F. Snowfall in this compartment averages 170 to 180 inches annually. A review of the General Land Office survey notes show the upland presettlement vegetation was dominated by northern hardwoods which contained a mixture of hemlock, yellow birch, sugar maple, and red maple. Cedar, tamarack, balsam fir, and ash dominated the lowlands. A small tributary to Commencement Creek originates in section 12 and courses down through the eastern portion of section 13 before dumping into the Commencement. Beaver pond along this creek and windthrow were the major forms of natural disturbance within the compartment. Although the current major timber types within the compartment are very similar to those found at the time of the original survey, there appears to be a significant reduction in species diversity within the northern hardwoods. The loss of diversity is associated with a substantial reduction in hemlock and yellow birch. Lowland stands appear to be quite similar in species composition as was found during the original surveys. This compartment lies on the eastern edge of the Petrel Deeryard. As such, wildlife habitat goals center upon providing winter food and shelter for deer. Northern hardwood stands will be managed in a manner that will maintain closed canopy in some areas while

creating structural diversity. Additionally, attempts will be made to restore the tree species diversity within the northern hardwood stands. This will be accomplished by protecting hemlock, and using cutting prescriptions that will promote hemlock, black cherry, and yellow birch. Furthermore, under plantings of white pine and hemlock should restore some of the natural conifer components within the hardwood stands.

Gray wolves (Federal and Michigan endangered) are known to frequent this area, especially during the winter deeryarding time frame. Moose (Michigan special concern) have also been observed within the compartment. Other wildlife species of interest within this compartment may include Blackburnian warbler, gray jay, fisher, marten, black bear, and bobcat.

### **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 State-owned Star Siding Road #3 Pit is less than one mile to the southwest. The pit is not currently under lease. There may be some potential for sand & gravel and bedrock limestone within the compartment, but potential for surface mining could be inhibited by wetlands. No current mineral leasing activity exists in the area.

### **Vehicle Access:**

Access via Star Siding Road and the Petrel Road is adequate. The Commencement Road runs through the compartment, and a network of overgrown spur roads exists from previous timber management activities.

### **Survey Needs:**

Stands needing survey have been appropriately factored.

### **Recreational Facilities and Opportunities:**

The area is locally popular for hunting deer and small game. There are no developed recreational facilities in this compartment.

### **Fire Protection:**

Difficulties with fire suppression may arise due to the nature of the heavy soils and slow drainage associated with them. Access across the large lowland conifer stands in section 12 is likely to be problematic.

### **Additional Compartment Information:**

#### **The following reports from the Inventory are attached:**

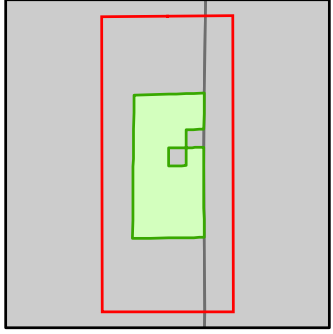
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

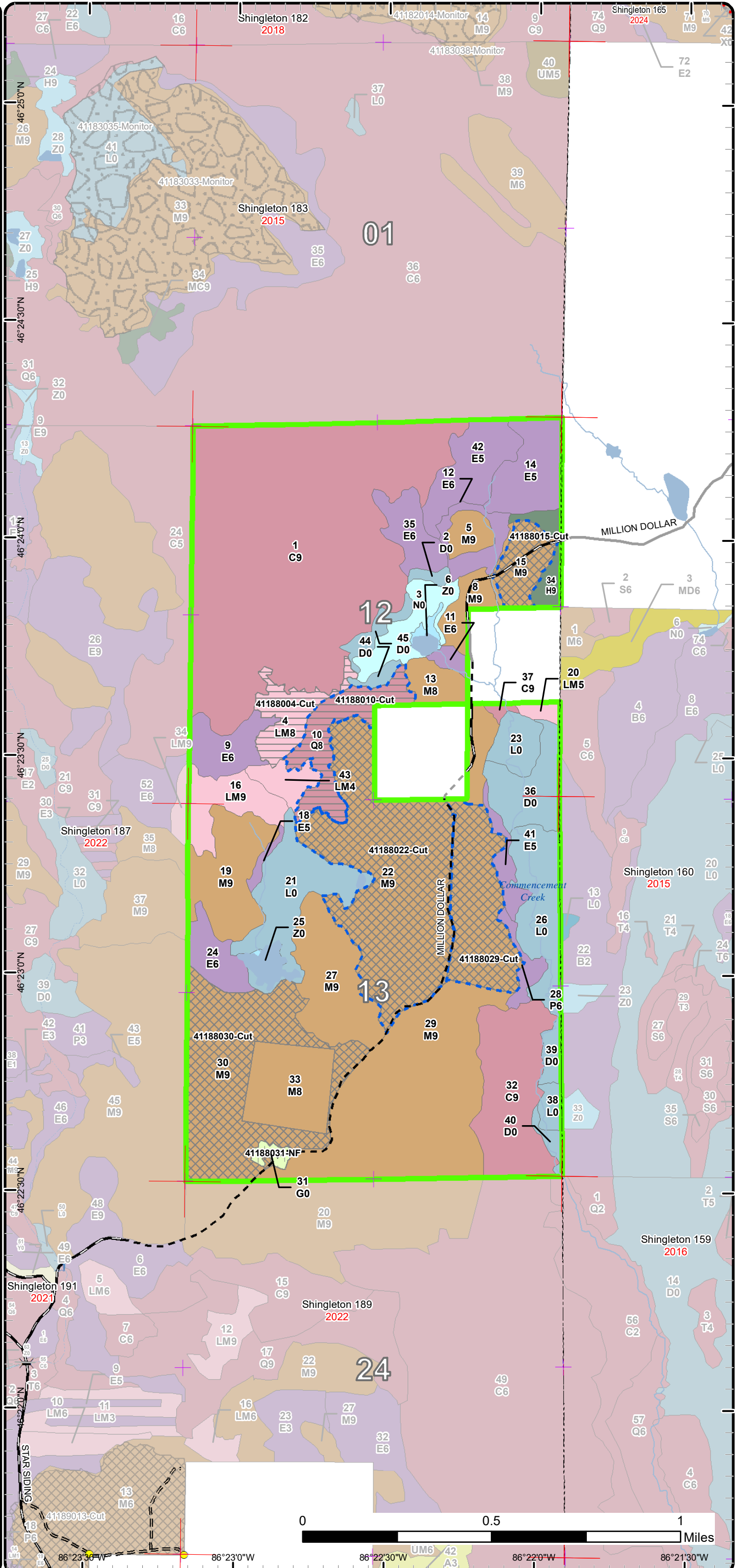
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 188  
 T46N,R17W, Sec: 12, 13  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Casino Complex  
 YOE: 2023  
 Acres: 1181.4 GIS Calculated  
 Examiner: Steve Touvila  
 Map Revised: 1/28/2022  
 Map Phase: Post Review

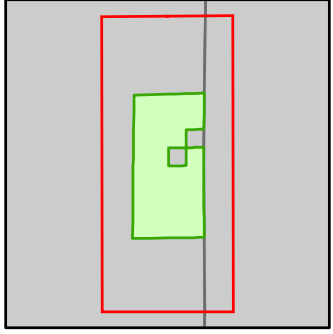


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- == DNR - Forest Access Route
- - Federal / State - Dirt / Gravel Road
- Private - Paved Road
- - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Culvert
- ▭ Compartment Boundary
- ▭ Treatments with Site Conditions
- ▭ Selection (Group, Single Tree)
- ▭ Clearcut (w/Reserves)
- ▭ Opening Maintenance
- ▭ 411 - Northern Hardwood
- ▭ 423 - Other Upland Conifers
- ▭ 611 - Lowland Deciduous Forest
- ▭ 612 - Lowland Coniferous Forest
- ▭ 613 - Lowland Mixed Forest
- ▭ 310 - Herbaceous Openland
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub
- ▭ 623 - Emergent Wetland

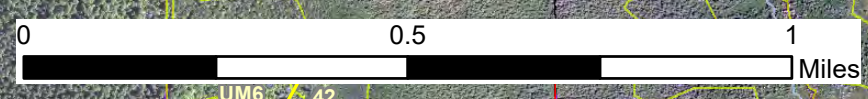
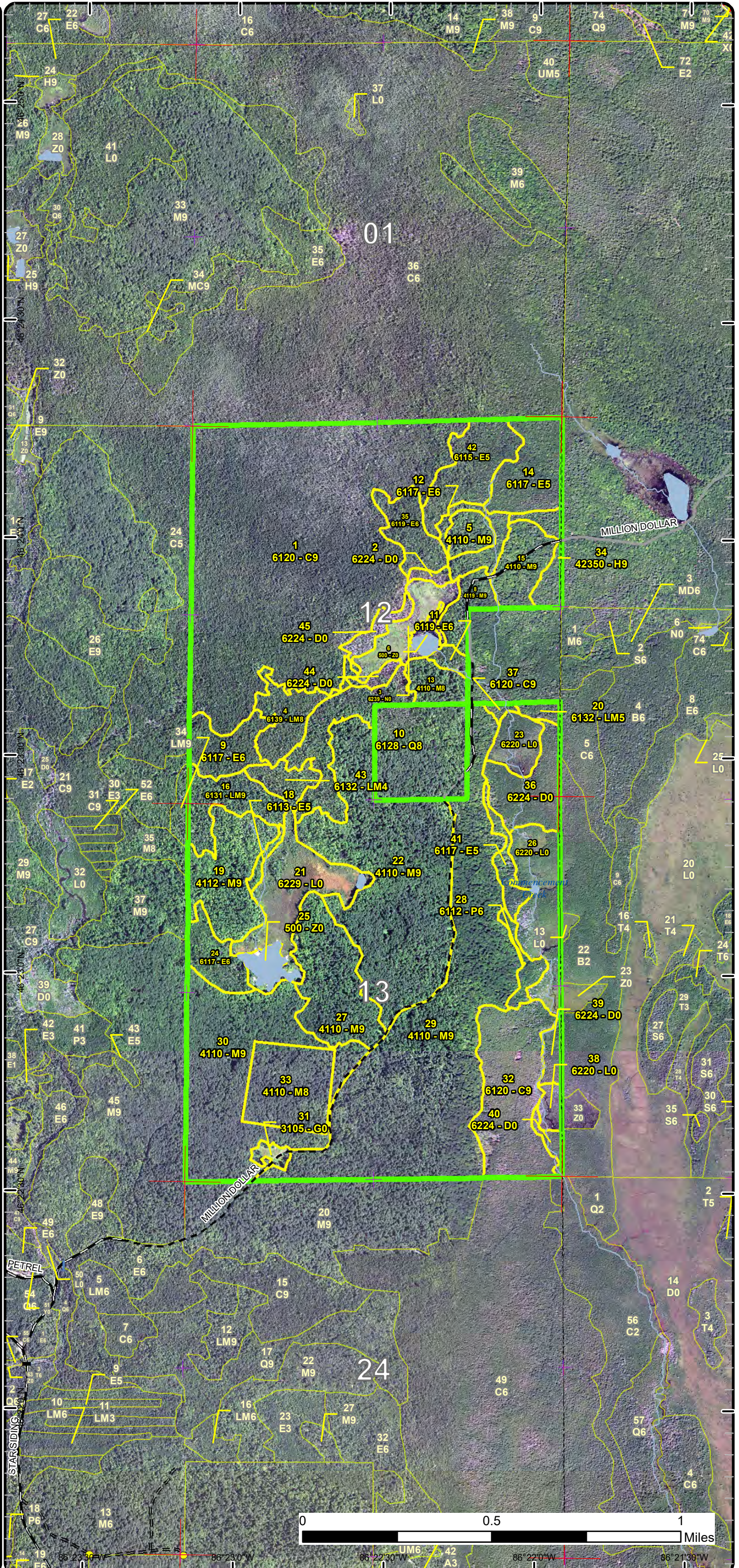


# Stand Boundary Map

Compartment: 188  
 T46N,R17W, Sec: 12, 13  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Casino Complex  
 YOE: 2023  
 Acres: 1181.4 GIS Calculated  
 Examiner: Steve Touvila  
 Map Revised: 1/28/2022  
 Map Phase: Post Review



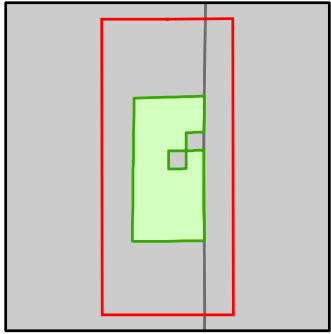
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
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- Federal / State - Dirt / Gravel Road
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- Stand Boundaries
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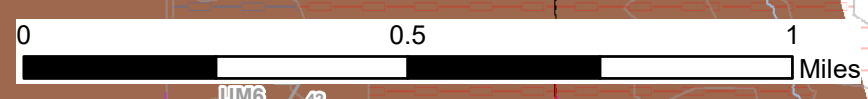
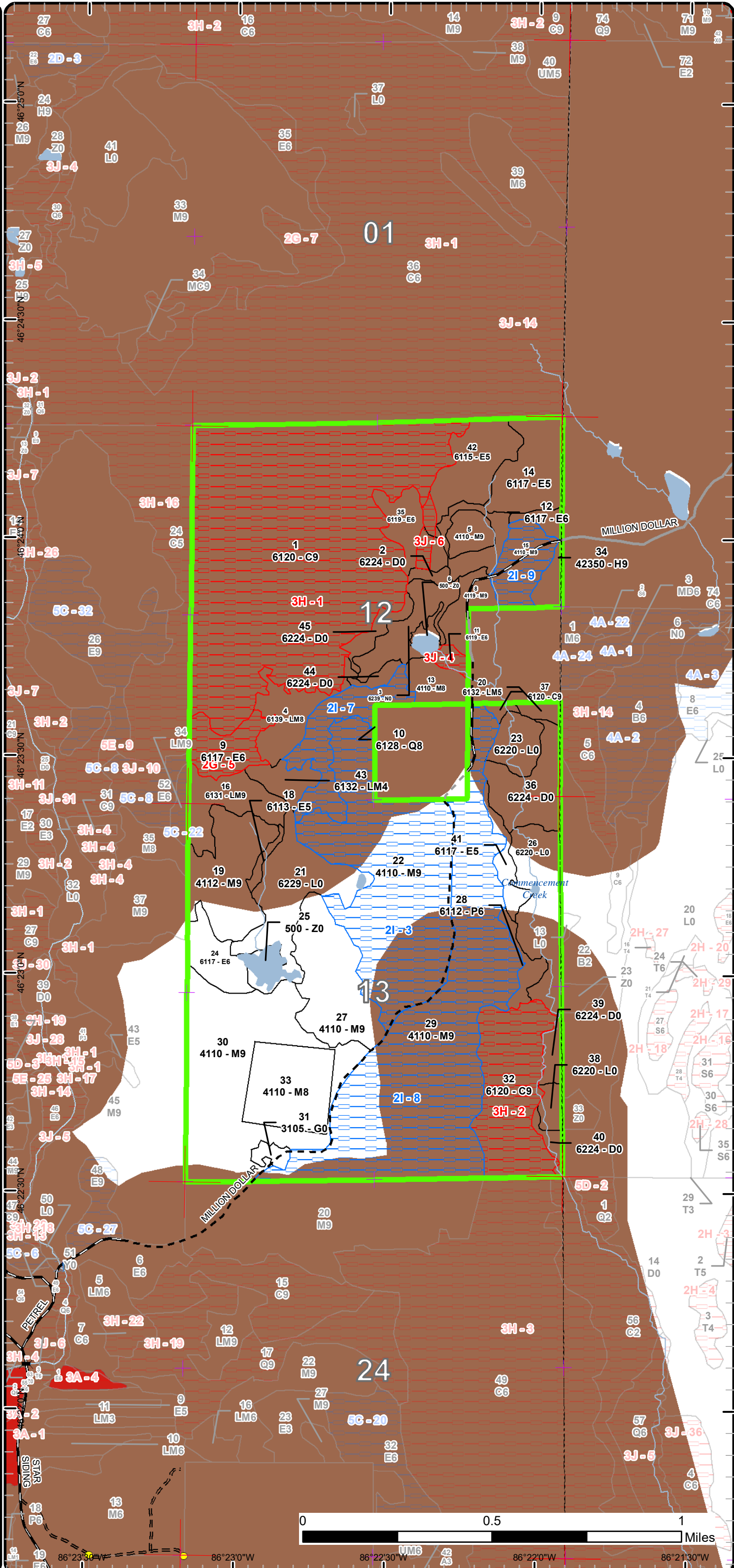
86°23'0"W      86°23'0"W      86°22'30"W      86°22'0"W      86°21'30"W

# Special Conservation Areas

Compartment: 188  
 T46N,R17W, Sec: 12, 13  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Casino Complex  
 YOE: 2023  
 Acres: 1181.4 GIS Calculated  
 Examiner: Steve Touvila  
 Map Revised: 1/28/2022  
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- Miris Corners
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- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Culvert
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Deer Winter Range



86°23'30"W 86°23'0"W 86°22'30"W 86°22'0"W 86°21'30"W

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	0	0	0	0	0	0	253	0	0	51	0	0	0	0	304
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	26
Lowland Deciduous	0	0	0	0	0	0	40	42	32	3	0	0	0	0	0	0	0	0	117
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	46	3	0	0	0	0	0	0	0	49
Lowland Shrub	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	10	304	34	168	0	0	0	516
Treed Bog	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>153</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>40</b>	<b>42</b>	<b>32</b>	<b>75</b>	<b>256</b>	<b>10</b>	<b>304</b>	<b>94</b>	<b>168</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1180</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 188

Total Compartment Acres: 1,181

Commercial Harvest - 100  
 Harvests with Site Condition - 200  
 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
Lowland Conifers	26	0	0	0	0	0	0	0	0	26
Lowland Mixed Forest	17	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	257	0	0	0	0	0	0	0	257
<b>Total</b>	<b>43</b>	<b>257</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	300	0	0	0	0	0	0	3	0	303
Next Step	0	0	0	0	0	300	0	0	0	300
<b>Total</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>604</b>



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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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**Approved Treatments:**

<b>4</b>	<b>41188004-Cut</b>	16.9	6139 - Mixed Lowland Forest	Sawtimber Medium	87	141-170	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut stand leaving all hemlock and small patches of cedar. An operating caution spec should be used to harvest in winter or dry summer.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of current species on-site.</p> <p><u>Other Comment:</u> Stand went no bid in previous decade likely due to small acreage and winter ground, with the addition of hardwood acres the stand should sell.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>10</b>	<b>41188010-Cut</b>	26.4	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	87	81-110	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut stand leaving all hemlock and small patches of cedar. An operating caution should be used on-sale to harvest in winter or dry summer.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of the current species on-site.</p> <p><u>Other Comment:</u> Stand went no bid in previous decade likely due to small acreage, with the addition of more acres it should sell.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>15</b>	<b>41188015-Cut</b>	15.6	4110 - Sugar Maple Association	Sawtimber Well	111	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select cut to average 85 BA while creating canopy gaps following the Complete Marker. If possible try to encourage growth or regeneration of lesser occurring species. No cut hemlock.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> sugar maple, red maple, yellow birch, paper birch, hemlock, white spruce, balsam fir, white pine, beech, black cherry</p> <p><u>Other Comment:</u> The boundary near the hemlock stand can be treated if it will benefit the hemlock.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											





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
22	41188022-Cut	115.0	4110 - Sugar Maple Association	Sawtimber Well	111	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Select cut to average 85 BA while creating or enhancing regeneration gaps per the Complete Marker. Try to encourage growth of yellow birch, black cherry, and hemlock if these species are found. Acreage may vary some as there's an area adjacent to the lowland that might be too wet. No cut hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> sugar maple, red maple, yellow birch, paper birch, beech, white spruce, balsam fir, hemlock, white 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 /2022</p>											
29	41188029-Cut	43.4	4110 - Sugar Maple Association	Sawtimber Well	131	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Select cut to average 85 BA while creating or enhancing regeneration gaps per the Complete Marker. Try to encourage growth of yellow birch, black cherry, and hemlock if these species are found. No cut hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> sugar maple, red maple, yellow birch, paper birch, black cherry, balsam fir, white spruce, hemlock, white pine, beech</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 /2022</p>											
30	41188030-Cut	83.0	4110 - Sugar Maple Association	Sawtimber Well	111	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Select cut to average 85 BA while creating regeneration gaps following the Complete Marker. If possible try to encourage growth of the trace amount of yellow birch, and hemlock if found. Re-establish existing regeneration gaps if possible. No cut hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> sugar maple, red maple, yellow birch, paper birch, beech, hemlock, balsam fir, white spruce, white 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 /2022</p>											
31	41188031-NF	3.1	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Cut all trees to 2" DBH to maintain the grassy opening. Don't cut or destroy the oak and apple saplings that are planted around the perimeter of the stand. Paint and/or flag these saplings to protect them during harvest operations.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> planted oak and apple trees</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 303.4

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 188  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2I	2G	3H	3J
304	2	0	303	Cedar			303	
9	9	0	0	Hemlock				
3	3	0	0	Herbaceous Openland				
6	6	0	0	Lowland Aspen/Balsam Poplar				
26	0	26	0	Lowland Conifers	26			
118	94	0	24	Lowland Deciduous		16		8
49	49	0	0	Lowland Mixed Forest				
84	84	0	0	Lowland Shrub				
17	17	0	0	Marsh				
515	216	300	0	Northern Hardwood	300			
42	42	0	0	Treed Bog				0
7	7	0	0	Water				
1,181	528	326	327	Total Forested Acres	326	16	303	8
	45%	28%	28%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	253	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 188  
Year of Entry: 2023

3	<b>Available</b>	<b>2I: Survey needed</b>	115	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 3' stream							
7	<b>Available</b>	<b>2I: Survey needed</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 41-17-18 Twofer went no bids. Sale terminated and site conditioned on 4/6/2021.							
8	<b>Available</b>	<b>2I: Survey needed</b>	168	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>2I: Survey needed</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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

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**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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
<b>1</b>	6120 - Lowland Cedar	Sawtimber Well	253.4	99	111-140	N/A																																																																										
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<b>2</b>	6224 - Treed Bog	Nonstocked	2.4	0	Unspecified	No	High water has killed of the stand leaving scattered trees and scattered 3" birch.																																																																									
<b>3</b>	6239 - Mixed Emergent Wetland	Nonstocked	16.8		Unspecified	No																																																																										
<b>4</b>	6139 - Mixed Lowland Forest	Sawtimber Medium	16.9	87	141-170	N/A	Species composition varies from place to place within this stand and unevenaged characteristics are becoming more evident as natural disturbances create more age class diversity. Overall the stand is a mosaic of small patches of different timber types. The age given is quoted from past inventory, but in reality there are both younger & older trees present.																																																																									
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<b>6</b>	500 - Water	Nonstocked	3.5		Unspecified	No																																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>8</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	10.9	111	51-80	N/A																																																	
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<b>9</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	16.3	71	81-110	N/A	Healthy paper birch.																																			
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<b>10</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	26.4	87	81-110	N/A	Cedar mix on wet ground - the age given here is from previous inventory, but age class diversity is becoming evident. There are older trees included, especially the hemlock.																																																																												
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<b>11</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	3.4	81	81-110	N/A	High water has resulted in many stream flows to the east through this stand.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**12** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 10.1 61 51-80 N/A

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Red Maple	15	Pole/Log	9		Red Maple	Low	Variable	Sapling
Hemlock	10	Log/Pole	12					
Yellow Birch	30	Pole/Sapling	6	61				
Black Ash	25	Pole/Sapling	5					

**13** 4110 - Sugar Maple Association Sawtimber Medium 10.2 101 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	2	Pole/Log	8		Beech	Full	10 - 20 feet	Sapling
Sugar Maple	88	Log/Pole	14	101	Black Cherry	Low	10 - 20 feet	Sapling
Red Maple	10	Log/Pole	14		Balsam Fir	Low	Variable	Sapling
					Hemlock	Trace	Variable	Sapling
					Ironwood	Low	Variable	Sapling
					Sugar Maple	Full	10 - 20 feet	Sapling
					Yellow Birch	Low	10 - 20 feet	Sapling

**14** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 24.7 61 51-80 N/A

Slow growing lowland. There's a 1 acre upland inclusion that borders the private land, it contains mostly hemlock, red maple, and black spruce.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	6		Black Ash	Medium	>20 feet	Sapling
Black Ash	24	Pole/Sapling	5		Hemlock	Trace	Variable	Sapling
Paper Birch	25	Pole/Sapling	6	61	Balsam Fir	Medium	Variable	Sapling
White Pine	2	Pole	8		Paper Birch	Medium	>20 feet	Sapling
Red Maple	20	Pole/Sapling	6		White Pine	Trace	Variable	Sapling
Black Spruce	5	Pole	8		Yellow Birch	Low	>20 feet	Sapling
Hemlock	1	Log/Pole	13					
Yellow Birch	10	Pole/Sapling	6					
Northern White Cedar	3	Pole/Log	9					

**15** 4110 - Sugar Maple Association Sawtimber Well 17.1 111 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole/XLog	14		Yellow Birch	Trace	10 - 20 feet	Sapling
Sugar Maple	94	Log/Pole/XLog	14	111	Sugar Maple	Full	10 - 20 feet	Sapling
Hemlock	1	Log	16		Red Maple	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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**16** 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Well 19.7 88 81-110 N/A The center 1/4 of the stand is upland containing mainly hemlock and red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Yellow Birch	5	Pole	8		Hemlock	Medium	Variable	Sapling
Hemlock	35	Log/Pole	14	130	Red Maple	Medium	Variable	Sapling
Quaking Aspen	1	Log	13					
White Pine	4	Log/XLog	16					
Paper Birch	1	Pole	8					
Red Maple	41	Pole	8	88				
White Spruce	2	Log/Pole	11					
Black Ash	1	Pole	6					

**18** 6113 - Lowland Maple Poletimber Medium 2.4 77 51-80 N/A Strip of red maple over fir/maple regeneration between the upland hardwoods and the lowland brush.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Red Maple	90	Pole/Sapling	7	77	Red Maple	Medium	>20 feet	Sapling

**19** 4112 - Maple, Beech, Cherry Association Sawtimber Well 34.0 121 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	2	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
White Spruce	2	Log	12		Black Cherry	Low	10 - 20 feet	Sapling
Red Maple	40	Log/Pole	11		Hemlock	Trace	Variable	Sapling
Sugar Maple	54	Log/Pole/XLog	14	121	Quaking Aspen	Trace	10 - 20 feet	Sapling
Balsam Fir	2	Pole	5		Yellow Birch	Trace	10 - 20 feet	Sapling
					Sugar Maple	High	10 - 20 feet	Sapling
					Red Maple	High	10 - 20 feet	Sapling

**20** 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 3.3 91 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	20	Log	12	91	Tag Alder	Medium	Variable	Tall Shrub
Black Ash	5	Pole	6		Balsam Fir	Low	Variable	Sapling
Paper Birch	15	Pole	8		Red Maple	Low	Variable	Sapling
Black Spruce	15	Pole	8		Black Ash	Medium	Variable	Sapling
Red Maple	5	Pole	6					
Balsam Fir	10	Pole	7					
Quaking Aspen	10	Log/Pole	10					
Northern White Cedar	20	Pole	9	91				

**21** 6229 - Mixed lowland shrub Nonstocked 37.5 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
22	4110 - Sugar Maple Association	Sawtimber Well	115.0	111	111-140	N/A																																																																		
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23	6220 - Alder/willow	Nonstocked	11.1		Unspecified	No																																																																		
24	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	13.7	77	81-110	N/A	Lowland area that surrounds an upland island. Southeast 1/4 is wetter with much less BA.																																																																	
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25	500 - Water	Nonstocked	3.8		Unspecified	No																																																																		
26	6220 - Alder/willow	Nonstocked	30.7		Unspecified	No																																																																		
27	4110 - Sugar Maple Association	Sawtimber Well	38.9	111	81-110	N/A	High quality sugar maple stand. There's a cluster of Ironwood mixed in with smaller diameter sugar maple in the southwest part of the stand that borders the M9 stand to the west.																																																																	
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28	6112 - Lowland Aspen	Poletimber Well	6.1	38	51-80	N/A	Most of the aspen is clustered in the north and in the western part of the south 1/2 of the stand. The rest in paper birch.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**29** 4110 - Sugar Maple Association Sawtimber Well 167.6 131 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	1	Pole	7		Sugar Maple	Full	10 - 20 feet	Sapling
Basswood	2	Log	16		White Spruce	Trace	Variable	Sapling
White Spruce	1	Log	14		Balsam Fir	Low	Variable	Sapling
Sugar Maple	94	Log/Pole/XLog	14	131	Ironwood	Low	10 - 20 feet	Sapling
Hemlock	1	Log	14					
Balsam Fir	1	Pole	7					

**30** 4110 - Sugar Maple Association Sawtimber Well 83.1 111 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	1	Pole/Log	9		Ironwood	Low	10 - 20 feet	Sapling
Sugar Maple	98	Log/Pole	14	111	Sugar Maple	Full	5 - 10 feet	Sapling
Basswood	1	Log	16					

**31** 3105 - Mixed Upland Herbaceous Nonstocked 3.1 Unspecified Managed Opening Some of the oak/apple plantings from 2016 have survived.

**32** 6120 - Lowland Cedar Sawtimber Well 49.4 121 171-200 N/A Very dense cedar stand. Some areas of wind disturbance scattered throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	12	Log/Pole	10		Black Spruce	Trace	< 5 feet	Sapling
Northern White Cedar	80	Log/Pole	11	121	Northern White Cedar	Trace	< 5 feet	Sapling
Balsam Fir	3	Pole	8		Balsam Fir	Trace	< 5 feet	Sapling
Yellow Birch	5	Pole/Log	9		Tag Alder	Low	5 - 10 feet	Tall Shrub
					Black Ash	Trace	5 - 10 feet	Sapling

**33** 4110 - Sugar Maple Association Sawtimber Medium 30.8 111 51-80 N/A Incredible Maple Sale, MWR. Unit 1.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	1	Log/Pole	10		Elderberry	Low	5 - 10 feet	Tall Shrub
Sugar Maple	99	Log/Pole	14	111	Sugar Maple	Medium	< 5 feet	Seeding
					Sugar Maple	Full	10 - 20 feet	Sapling

**34** 42350 - Upland Hemlock Sawtimber Well 9.3 126 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Hemlock	Medium	Variable	Sapling
White Pine	4	XLog	18		Red Maple	Low	Variable	Sapling
Hemlock	85	Log/Pole/XLog	16	126				
Yellow Birch	1	Log/Pole	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**35** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 14.9 56 51-80 N/A There's a 3' wide stream that flows to the south through the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	55	Pole/Sapling	6	56	Black Ash	Medium	>20 feet	Sapling
Red Maple	11	Pole	6		Balsam Fir	Medium	>20 feet	Sapling
Northern White Cedar	10	Log/Pole	12		Paper Birch	Medium	>20 feet	Sapling
Balsam Fir	2	Pole/Sapling	6					
Yellow Birch	2	Log	10					
Black Ash	20	Pole/Sapling	5					

**36** 6224 - Treed Bog Nonstocked 22.3 Unspecified No

**37** 6120 - Lowland Cedar Sawtimber Well 1.6 121 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	95	Log	12	121	Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	5	Pole/Log	9					

**38** 6220 - Alder/willow Nonstocked 4.6 Unspecified No

**39** 6224 - Treed Bog Nonstocked 5.1 Unspecified No

**40** 6224 - Treed Bog Nonstocked 3.3 Unspecified No

**41** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 7.7 66 51-80 N/A Large aspen and white spruce has broken up. Many windblown areas in eastern part of stand. Widely scattered 16" aspen left that are declining and good wildlife trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	7	Pole	6		Paper Birch	Medium	>20 feet	Sapling
Paper Birch	30	Pole	7	66	Black Ash	Medium	Variable	Sapling
Northern White Cedar	3	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Red Maple	10	Pole	8		Yellow Birch	Low	>20 feet	Sapling
White Spruce	15	Pole/Log	9					
Balsam Fir	5	Pole	7					
Yellow Birch	10	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**42** 6115 - Lowland Ash Poletimber Medium 25.0 56 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	6		Black Ash	High	>20 feet	Sapling
Northern White Cedar	10	Pole/Log	9		Northern White Cedar	Medium	< 5 feet	Sapling
Red Maple	2	Pole	8		Balsam Fir	Medium	Variable	Sapling
Black Ash	68	Sapling/Pole	4	56	Paper Birch	Low	>20 feet	Sapling
Paper Birch	10	Pole/Sapling	5					

**43** 6132 - Mixed Lowland Forest with Cedar Poletimber Poor 8.7 87 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	XLog/Log	18		Northern White Cedar	Low	Variable	Sapling
Black Ash	5	Pole/Sapling	6		Black Ash	High	5 - 10 feet	Sapling
Northern White Cedar	45	Pole	8					
Red Maple	45	Pole	8	87				
Yellow Birch	4	Pole	7					

**44** 6224 - Treed Bog Nonstocked 2.8 0 Unspecified No

**45** 6224 - Treed Bog Nonstocked 6.1 Unspecified No