



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41120

Entry Year 2023

Acreage: 912

County Schoolcraft

Management Area: Bullock Ranch

Stand Examiner: Sheila Clark

Legal Description:

T45N R14W Section 6 and T46N R14W Section 31

Identified Planning Goals:

To provide multiple use benefits for the citizens of Michigan.

Soil and topography:

The terrain is flat to gently rolling, with slightly elevated sandy ridges.

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

This compartment is completely state-owned. It is bounded by The Seney National Wildlife Refuge to the west and south, and more state lands to the east and the north across Highway M-28.

Unique Natural Features:

To the west of the compartment *Juncus vaseyi* (vasey's rush) has been identified. Its habitat is the marshy areas which are kept open by seasonal flooding.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

Visual quality along the M-28 corridor, which forms the north boundary of the compartment.

Watershed and Fisheries Considerations:

This compartment contains an unnamed stream that serves as tributary to Clarks Ditch. This unnamed waterbody is a non-designated stream less than 50' width and has a predicted mean July temperature of 60.3 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended to this unnamed stream in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46 F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes indicate that the lowlands in this compartment were historically dominated by spruce and tamarack with white pine mixed in. Uplands held a mix of hemlock, yellow birch, white pine, and red maple. Wildfire and windthrow likely were the major forms of natural disturbance. The current forest cover has shifted heavily toward early successional pine (red and jack pine). Section 6 also contains a fairly sizable aspen stand. However, there are some lowland stands that still contain a mixture of species similar to those recorded in the GLO notes. Wildlife habitat objectives include maintaining age and structural diversity within and between upland conifer stands, reestablishing forest cover in skid roads, providing a hard mast component in the form of red oak, and promoting retention of soft mast and eventual snag formation by selecting birch leaf trees. Gray wolves (Federal and Michigan endangered), moose (Michigan special concern) and sharp-tailed grouse (Michigan special concern) have all been recorded in this compartment. Other species of interest include saw-whet owl, red-breasted nuthatch, bobcat, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is minimal local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Group subcrops below the glacial drift. The Trenton is used for dolomite/stone elsewhere in the UP. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

An excellent gravel road forms the western compartment boundary, with several low-quality two-track roads running into the state land from it. Wet terrain throughout the area makes road construction and maintenance difficult, particularly in the southern part of the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

Hunting opportunities, especially during deer season.

Fire Protection:

See comments under Vehicle Access.

Additional Compartment Information:

The following reports from the Inventory are attached:

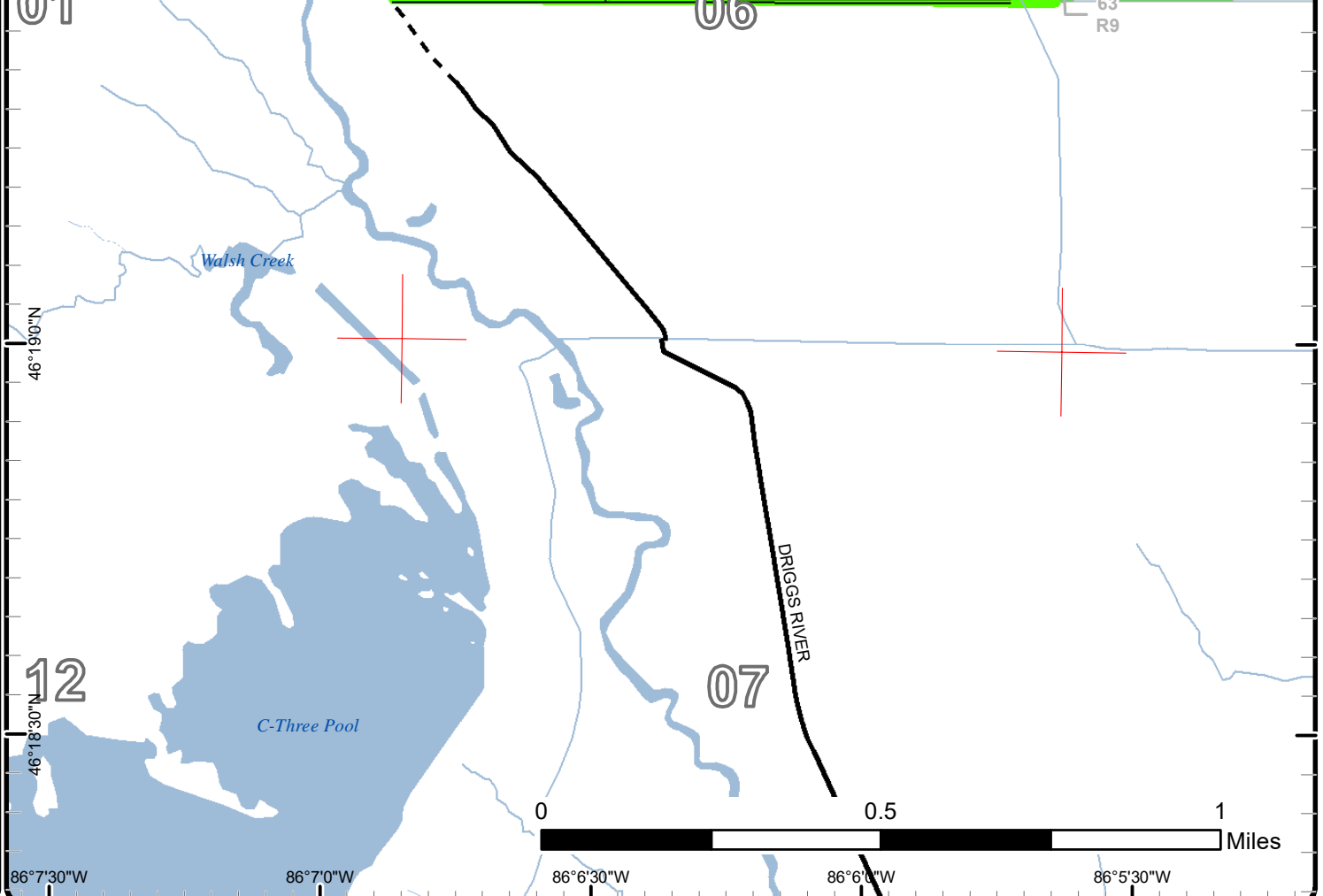
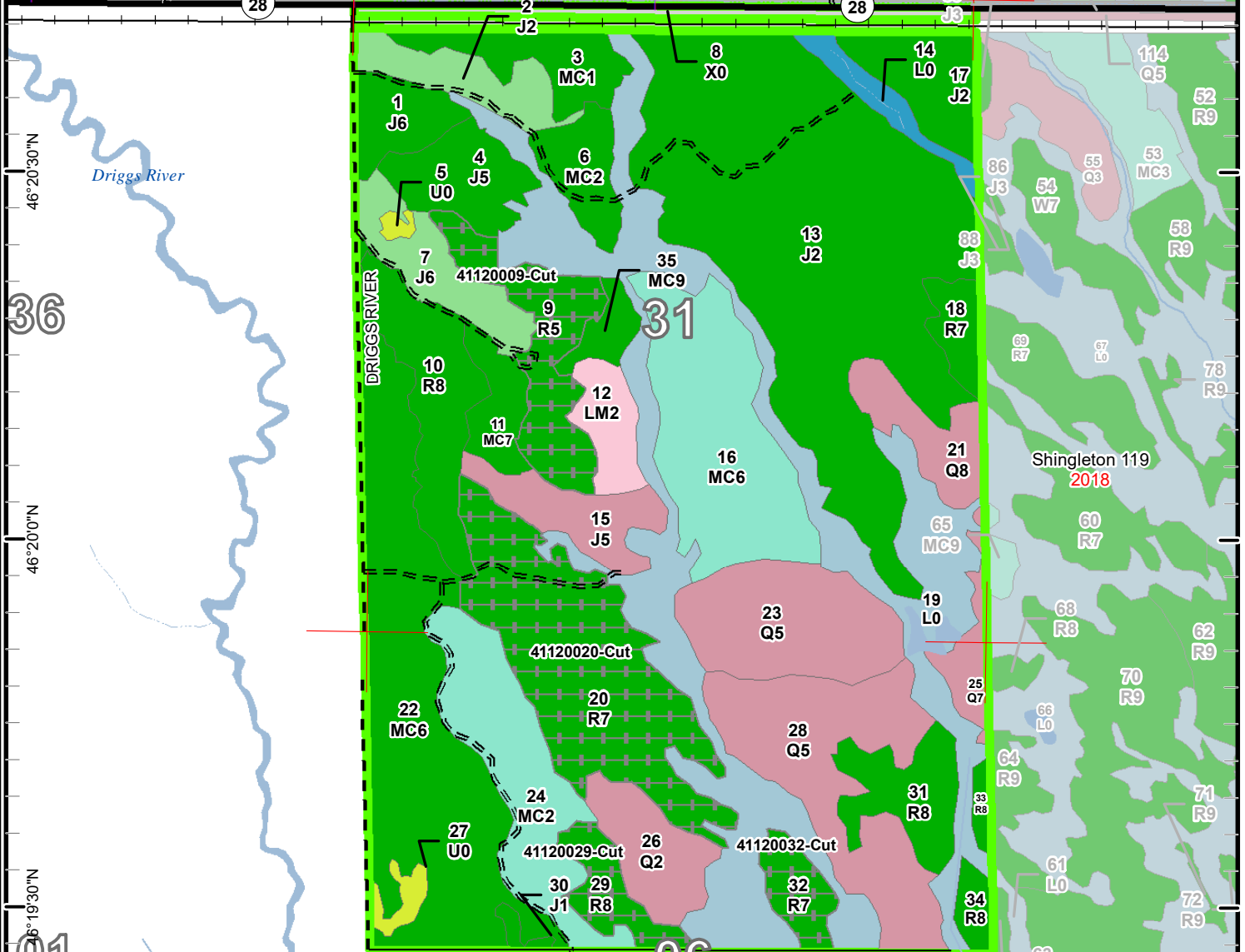
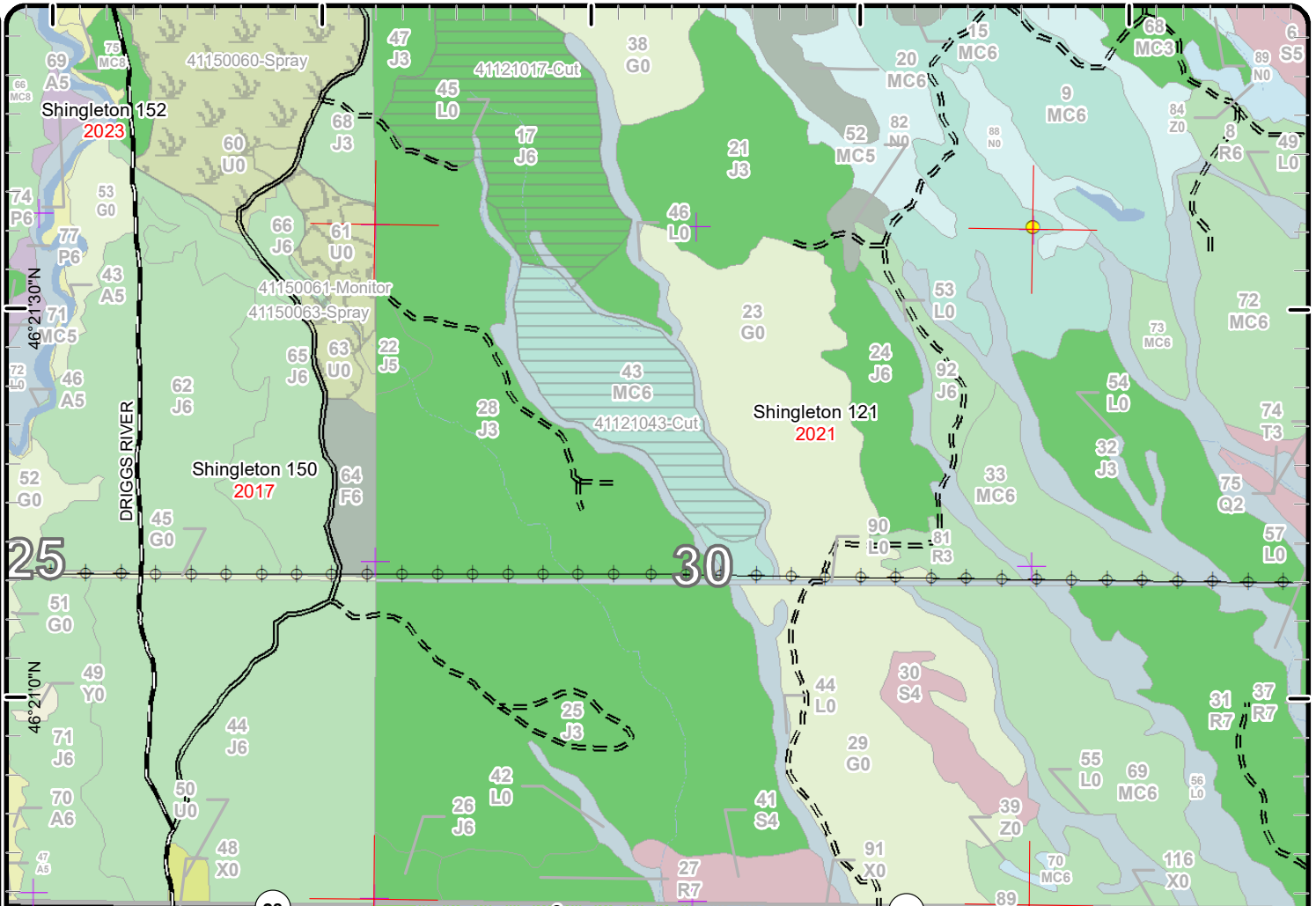
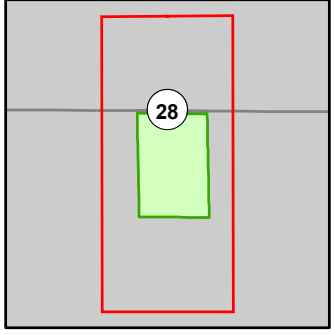
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

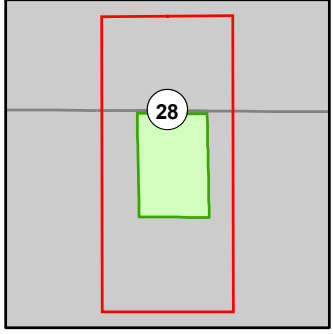
Compartment: 120
 T46N,R14W, Sec:
 31/nT45N,R14W, Sec: 6
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2023
 Acres: 912.5 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 1/28/2022
 Map Phase: Post Review



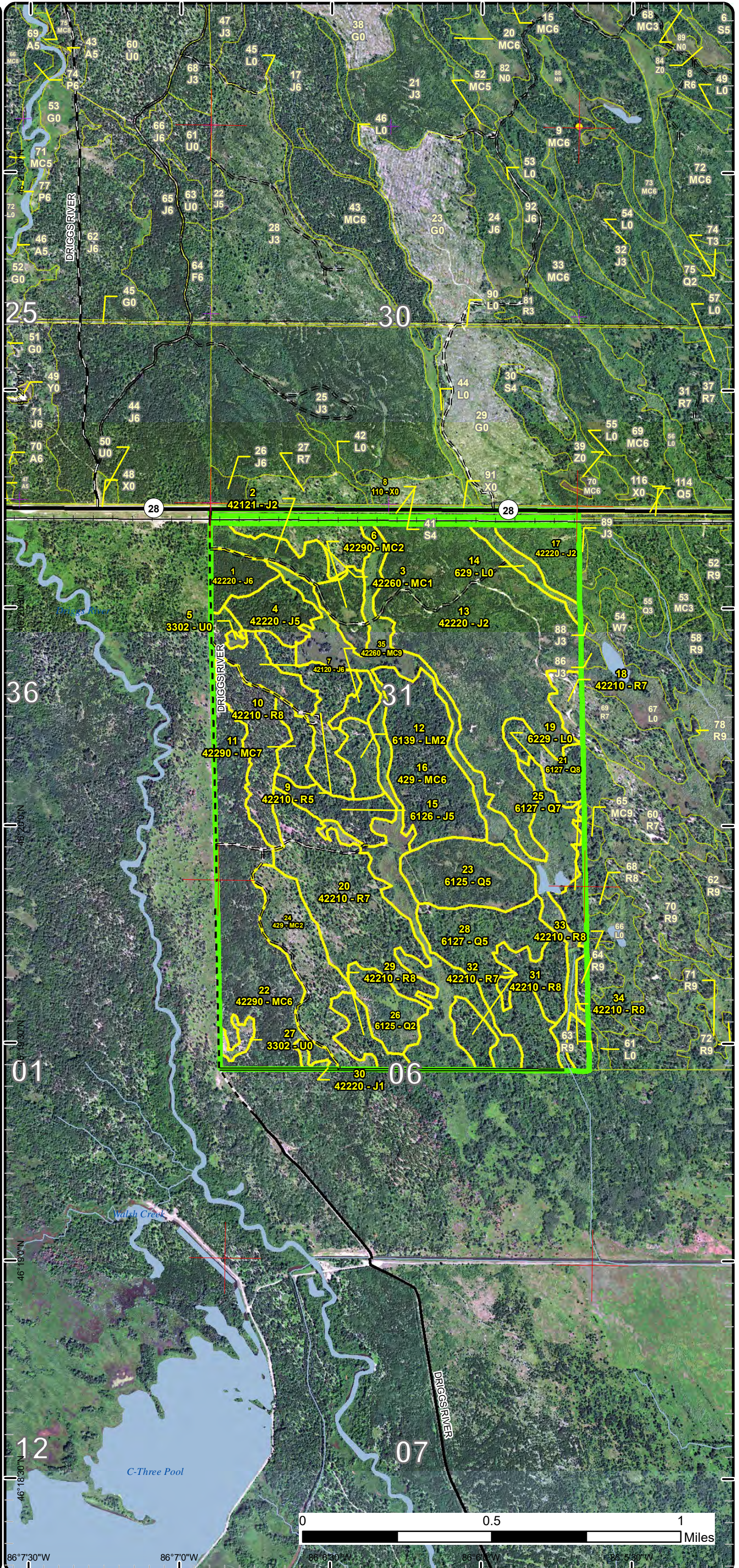
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Harvest, Overstory Removal
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

Stand Boundary Map

Compartment: 120
 T46N,R14W, Sec:
 31/nT45N,R14W, Sec: 6
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2023
 Acres: 912.5 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 1/28/2022
 Map Phase: Post Review

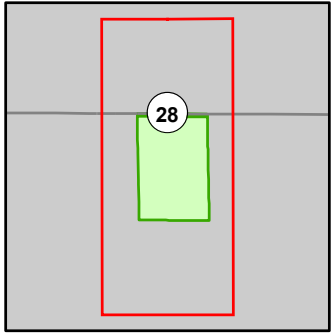


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

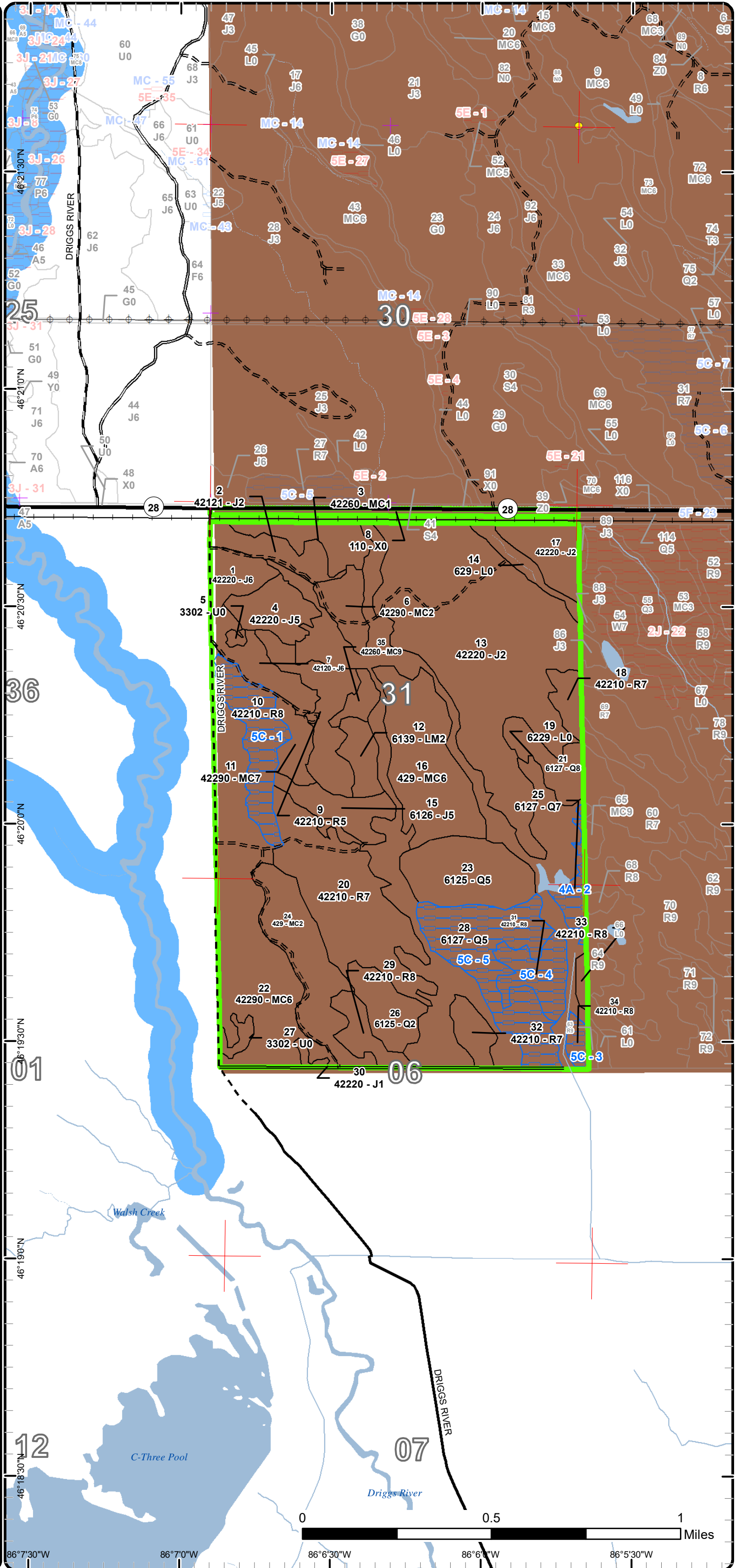


Special Conservation Areas

Compartment: 120
 T46N,R14W, Sec:
 31/nT45N,R14W, Sec: 6
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2023
 Acres: 912.5 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 1/28/2022
 Map Phase: Post Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas



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+	Unnever-Aged	Total
Jack Pine	0	0	2	217	29	0	0	0	0	0	0	0	0	0	0	0	0	0	248
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	52	0	0	0	0	0	57	14	0	0	0	0	0	0	0	123
Lowland Mixed Forest	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Natural Mixed Pines	0	16	0	12	85	0	0	0	0	6	10	0	0	0	0	0	0	0	129
Red Pine	0	0	0	0	0	0	0	0	8	108	25	0	27	0	0	0	0	0	168
Upland Conifers	0	0	37	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	88
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	148	16	39	291	114	0	51	0	8	171	49	0	27	0	0	0	0	0	914



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 120

Total Compartment Acres: 912

Commercial Harvest - 109
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Red Pine		0	0	0	0	0	109	0	0		109
	Total	0	0	0	0	0	109	0	0		109

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		109	0	0	0	0	0	0	0		109
Next Step		0	0	0	0	0	20	0	0		20
	Total	109	0	0	0	0	20	0	0		129



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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Approved Treatments:

9	41120009-Cut	25.4	42210 - Natural Red Pine	Poletimber Medium	96	81-110	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable timber. Retention will be reserved along the edge and will be addressed with red line. <u>Specs:</u> Use a stump diameter spec to protect smaller trees that are becoming merchantable. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Aspen, red pine, white pine, jack pine, black spruce. Any current species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2022</p>											
20	41120020-Cut	63.6	42210 - Natural Red Pine	Sawtimber Poor	81	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable timber. Retention will be left along the edge and will be addressed with red line. <u>Specs:</u> Use a stump diameter spec to protect smaller trees that are becoming merchantable. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any current species <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2022</p>											
29	41120029-Cut	10.9	42210 - Natural Red Pine	Sawtimber Medium	81	51-80	Harvest	Overstory Removal	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable timber. Retention will be left along the edge and will be addressed with red line. <u>Specs:</u> Use a stump diameter spec to protect smaller trees that are becoming merchantable. <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> Proposed Start Date: 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
32 41120032-Cut	9.0	42210 - Natural Red Pine	Sawtimber Poor	80	51-80	Harvest	Overstory Removal	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable timber. Retention will be left along the edge and will be addressed with red line.</p> <p><u>Specs:</u> Use a stump diameter spec to protect smaller trees that are becoming merchantable.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any current species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 108.9

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 120
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	4A	5C	
247	247	0	0			Jack Pine
5	5	0	0			Low-Density Trees
123	66	57	0	8	49	Lowland Conifers
10	10	0	0			Lowland Mixed Forest
131	131	0	0			Lowland Shrub
129	129	0	0			Natural Mixed Pines
167	119	48	0		48	Red Pine
89	89	0	0			Upland Conifers
12	12	0	0			Urban
912	807	105		8	97	Total Forested Acres
	88%	12%	0%			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	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	4A: No Markets Available for these Forest Products	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low volume.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 120
Year of Entry: 2023

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	49	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
----------	--------------	-------------	----------------	-------

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
1	42220 - Natural Jack Pine	Poletimber Well	11.9	38	111-140	N/A	2021 stand is healthy. some low ground. Diameters range from 1-5 inches.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>95</td> <td>Pole/Sapling</td> <td>5</td> <td>38</td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	95	Pole/Sapling	5	38	Quaking Aspen	5	Pole/Sapling	5		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Low	< 5 feet	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																																			
Jack Pine	95	Pole/Sapling	5	38																																			
Quaking Aspen	5	Pole/Sapling	5																																				
Sub-Canopy Species	Density	Avg. Height	Size																																				
Quaking Aspen	Low	< 5 feet	Sapling																																				
2	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	14.4	24	111-140	N/A	Stand was harvested in 1998. It is a mixture of upland and lowland, with jack pine and aspen on the upland and tag alder in the lowland.2021 stand is healthy. some low ground. Diameters range from 1-5 inches.planted?																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>70</td> <td>Sapling/Pole</td> <td>4</td> <td>24</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	70	Sapling/Pole	4	24	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	< 5 feet	Tall Shrub																		
Canopy Species	% Cover	Size Class	DBH	Age																																			
Jack Pine	70	Sapling/Pole	4	24																																			
Sub-Canopy Species	Density	Avg. Height	Size																																				
Tag Alder	Medium	< 5 feet	Tall Shrub																																				
3	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	15.8	7	Immature	N/A	Conifer on higher ground - tag alder and aspen in swales. Loki Pine (54-13) Some residual Red and white pine. Site was scarified Summer 2015. check fall 2018, passed. 2021 Red pine is residuals. Regen starting to fill in. Low ground has tag alder.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>25</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>25</td> <td>Log/Pole</td> <td>10</td> <td>60</td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>35</td> <td>Sapling</td> <td>2</td> <td>7</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	25	Sapling	2		Red Pine	25	Log/Pole	10	60	Black Spruce	10	Sapling	1		Jack Pine	35	Sapling	2	7	Paper Birch	5	Pole	6									
Canopy Species	% Cover	Size Class	DBH	Age																																			
Quaking Aspen	25	Sapling	2																																				
Red Pine	25	Log/Pole	10	60																																			
Black Spruce	10	Sapling	1																																				
Jack Pine	35	Sapling	2	7																																			
Paper Birch	5	Pole	6																																				
4	42220 - Natural Jack Pine	Poletimber Medium	16.7	35	81-110	N/A	Similar to stand 2 - a little more open. A few knobs with larger diameter red pine, aspen & white pine 8-14 inches in diameter.2021 - stand is healthy. Not enough pole sized JP. to get harvest.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>85</td> <td>Pole/Sapling</td> <td>5</td> <td>35</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>3</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	85	Pole/Sapling	5	35	Quaking Aspen	10	Pole/Sapling	6		White Pine	2	Pole	8		Red Pine	3	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	< 5 feet	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																			
Jack Pine	85	Pole/Sapling	5	35																																			
Quaking Aspen	10	Pole/Sapling	6																																				
White Pine	2	Pole	8																																				
Red Pine	3	Pole	8																																				
Sub-Canopy Species	Density	Avg. Height	Size																																				
Tag Alder	Low	< 5 feet	Tall Shrub																																				
5	3302 - Low Density Conifer Trees	Nonstocked	1.2		Immature	No																																	
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>Low</td> <td></td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Medium</td> <td></td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Low		Sapling	Jack Pine	Medium		Pole																								
Sub-Canopy Species	Density	Avg. Height	Size																																				
Quaking Aspen	Low		Sapling																																				
Jack Pine	Medium		Pole																																				
6	42290 - Natural Mixed Pine	Sapling Medium	12.2	24	Immature	N/A	Good regeneration on higher ground.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>50</td> <td>Sapling/Pole</td> <td>4</td> <td>24</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>20</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	50	Sapling/Pole	4	24	White Pine	10	Sapling/Pole	4		Tamarack	20	Sapling	3		Black Spruce	20	Sapling	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	< 5 feet	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																			
Jack Pine	50	Sapling/Pole	4	24																																			
White Pine	10	Sapling/Pole	4																																				
Tamarack	20	Sapling	3																																				
Black Spruce	20	Sapling	3																																				
Sub-Canopy Species	Density	Avg. Height	Size																																				
Tag Alder	Low	< 5 feet	Tall Shrub																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
7	42120 - Planted Jack Pine	Poletimber Well	17.0	23	51-80	N/A	Stand was harvested in 1999.2021 Stand is healthy.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>60</td> <td>Pole/Sapling</td> <td>5</td> <td>23</td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Pole/Sapling	5		Jack Pine	60	Pole/Sapling	5	23	Black Spruce	20	Sapling	4		Red Pine	15	Sapling/Pole	4																																							
Canopy Species	% Cover	Size Class	DBH	Age																																																																		
White Pine	5	Pole/Sapling	5																																																																			
Jack Pine	60	Pole/Sapling	5	23																																																																		
Black Spruce	20	Sapling	4																																																																			
Red Pine	15	Sapling/Pole	4																																																																			
8	110 - Low Intensity Urban	Nonstocked	11.8			No	Right-of-way between highway and train tracks.																																																															
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Full</td> <td></td> <td>Pole</td> </tr> <tr> <td>Jack Pine</td> <td>High</td> <td></td> <td>Pole</td> </tr> <tr> <td>Tamarack</td> <td>High</td> <td></td> <td>Pole</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Full		Pole	Jack Pine	High		Pole	Tamarack	High		Pole																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																																			
Black Spruce	Full		Pole																																																																			
Jack Pine	High		Pole																																																																			
Tamarack	High		Pole																																																																			
9	42210 - Natural Red Pine	Poletimber Medium	25.4	96	81-110	N/A	Pine Islands surrounded by lower ground. Some low ground has trees - others have tag alder. Good jack pine regen. FTP to scarify was cancelled due to too much residual left in the stand. 2021 - Stand is healthy. Understory is starting to fill in with hard wood and conifer. No activity.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>20</td> <td>Log</td> <td>12</td> <td></td> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>70</td> <td>Pole/Log</td> <td>9</td> <td>96</td> <td>Jack Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Quaking Aspen</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	20	Log	12		White Pine	Low	< 5 feet	Sapling	Black Spruce	10	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling	Red Pine	70	Pole/Log	9	96	Jack Pine	Low	< 5 feet	Sapling						Quaking Aspen	Medium	5 - 10 feet	Sapling						Black Spruce	Low	5 - 10 feet	Sapling						Red Pine	Low	< 5 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
White Pine	20	Log	12		White Pine	Low	< 5 feet	Sapling																																																														
Black Spruce	10	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling																																																														
Red Pine	70	Pole/Log	9	96	Jack Pine	Low	< 5 feet	Sapling																																																														
					Quaking Aspen	Medium	5 - 10 feet	Sapling																																																														
					Black Spruce	Low	5 - 10 feet	Sapling																																																														
					Red Pine	Low	< 5 feet	Sapling																																																														
10	42210 - Natural Red Pine	Sawtimber Medium	26.6	115	81-110	N/A	Parts of stand were thinned in 1985. Loki pine (54-13) Stand was thinned Residual BA is available. 2021 - Stand is healthy. Harvest did a good job releasing pine. Some hardwood starting to come in underneath . No activity. Will look at clear cutting next entry.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>75</td> <td>Log</td> <td>14</td> <td>115</td> <td>Quaking Aspen</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Log</td> <td>14</td> <td></td> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> <td>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	75	Log	14	115	Quaking Aspen	Low	5 - 10 feet	Sapling	White Pine	15	Log	14		White Pine	Low	5 - 10 feet	Sapling	Jack Pine	5	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling	Balsam Fir	5	Pole	6		Red Maple	Low	5 - 10 feet	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
Red Pine	75	Log	14	115	Quaking Aspen	Low	5 - 10 feet	Sapling																																																														
White Pine	15	Log	14		White Pine	Low	5 - 10 feet	Sapling																																																														
Jack Pine	5	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling																																																														
Balsam Fir	5	Pole	6		Red Maple	Low	5 - 10 feet	Sapling																																																														
11	42290 - Natural Mixed Pine	Sawtimber Poor	9.9	96	51-80	N/A	Loki Pine 54-13. cut in 2015. 2021- Does not look like planted or scarified. Too wet. more hdwd regen. Stand converting to holwd laspen.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>20</td> <td>Pole/Sapling</td> <td>7</td> <td></td> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>25</td> <td>Pole</td> <td>8</td> <td></td> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>50</td> <td>Log/Pole</td> <td>12</td> <td>96</td> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> <td>Quaking Aspen</td> <td>Full</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	20	Pole/Sapling	7		Red Maple	Medium	5 - 10 feet	Sapling	Paper Birch	25	Pole	8		Black Spruce	Low	5 - 10 feet	Sapling	Red Pine	50	Log/Pole	12	96	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Black Spruce	5	Pole/Sapling	6		Quaking Aspen	Full	5 - 10 feet	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
White Pine	20	Pole/Sapling	7		Red Maple	Medium	5 - 10 feet	Sapling																																																														
Paper Birch	25	Pole	8		Black Spruce	Low	5 - 10 feet	Sapling																																																														
Red Pine	50	Log/Pole	12	96	Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																														
Black Spruce	5	Pole/Sapling	6		Quaking Aspen	Full	5 - 10 feet	Sapling																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

12 6139 - Mixed Lowland Forest Sapling Medium 10.4 23 51-80 N/A Red and white pine overstory is very scattered. Stand was harvested in 1999.2021. Stand healthy no activity.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Pine	3	Sapling/Pole	4					
Black Spruce	15	Sapling	2					
Jack Pine	30	Sapling	4	23				
Red Maple	2	Sapling	2					
White Pine	2	Log	14					
Tamarack	5	Pole/Sapling	5					
Quaking Aspen	25	Sapling/Pole	4					
Red Pine	3	Log	14	58				

13 42220 - Natural Jack Pine Sapling Medium 152.7 24 Immature N/A Good regeneration. tag alder in lower swayles. Higher ground is 75 to 80% forested with regeneration 5-15 feet.2021- Stand healthy20feet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Sapling	2		Tag Alder	Medium	< 5 feet	Tall Shrub
White Pine	10	Sapling	3					
Tamarack	10	Sapling	3					
Quaking Aspen	5	Sapling	2					
Jack Pine	60	Sapling/Pole	4	24				

14 629 - Mixed non-forested wetland Nonstocked 7.6 No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium		Tall Shrub

15 6126 - Lowland Jack Pine Poletimber Medium 15.8 23 81-110 N/A Thick jack pine regeneration.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	25	Pole	6	
Quaking Aspen	5	Sapling/Pole	4	
Jack Pine	50	Pole/Sapling	5	23
Black Spruce	10	Sapling/Pole	4	
Red Maple	5	Sapling/Pole	4	
Red Pine	5	Pole	8	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

16	429 - Mixed Upland Conifers	Poletimber Well	51.2	58	81-110	N/A	Mixed pine.																																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>25</td> <td>Pole</td> <td>8</td> <td>58</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	15	Pole	8		Red Pine	15	Log/Pole	12		Black Spruce	20	Pole	6		Jack Pine	25	Pole	8	58	Red Maple	5	Pole	6		Tamarack	5	Pole	8		Paper Birch	5	Pole	8		White Pine	10	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Low	< 5 feet	Sapling	Quaking Aspen	Medium	10 - 20 feet	Sapling	Black Spruce	Low	< 5 feet	Sapling	Red Maple	Medium	5 - 10 feet	Sapling	
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Quaking Aspen	15	Pole	8																																																																		
Red Pine	15	Log/Pole	12																																																																		
Black Spruce	20	Pole	6																																																																		
Jack Pine	25	Pole	8	58																																																																	
Red Maple	5	Pole	6																																																																		
Tamarack	5	Pole	8																																																																		
Paper Birch	5	Pole	8																																																																		
White Pine	10	Log/Pole	10																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Tamarack	Low	< 5 feet	Sapling																																																																		
Quaking Aspen	Medium	10 - 20 feet	Sapling																																																																		
Black Spruce	Low	< 5 feet	Sapling																																																																		
Red Maple	Medium	5 - 10 feet	Sapling																																																																		

17	42220 - Natural Jack Pine	Sapling Medium	17.0	24	Immature	N/A																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>85</td> <td>Sapling</td> <td>3</td> <td>24</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	10	Sapling	3		Red Pine	5	Sapling	3		Jack Pine	85	Sapling	3	24	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	< 5 feet	Tall Shrub	
Canopy Species	% Cover	Size Class	DBH	Age																												
Quaking Aspen	10	Sapling	3																													
Red Pine	5	Sapling	3																													
Jack Pine	85	Sapling	3	24																												
Sub-Canopy Species	Density	Avg. Height	Size																													
Tag Alder	Medium	< 5 feet	Tall Shrub																													

18	42210 - Natural Red Pine	Sawtimber Poor	7.6	70	51-80	N/A	Stand has been included in a timber sale with a stand in adjacent compartment (119). red line around stand. The sale is Brown Hand - 41-27-08-01.2021- stand is healthy. Regen starting to fill in.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>20</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>60</td> <td>Log/Pole</td> <td>10</td> <td>70</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	20	Pole/Sapling	6		White Pine	20	Pole/Log	8		Red Pine	60	Log/Pole	10	70	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Pine</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	< 5 feet	Tall Shrub	Red Pine	Medium	< 5 feet	Sapling	Black Spruce	Medium	< 5 feet	Sapling	Jack Pine	High	< 5 feet	Sapling	Tamarack	Medium	< 5 feet	Sapling	
Canopy Species	% Cover	Size Class	DBH	Age																																												
Black Spruce	20	Pole/Sapling	6																																													
White Pine	20	Pole/Log	8																																													
Red Pine	60	Log/Pole	10	70																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Tag Alder	Medium	< 5 feet	Tall Shrub																																													
Red Pine	Medium	< 5 feet	Sapling																																													
Black Spruce	Medium	< 5 feet	Sapling																																													
Jack Pine	High	< 5 feet	Sapling																																													
Tamarack	Medium	< 5 feet	Sapling																																													

19	6229 - Mixed lowland shrub	Nonstocked	123.1			No						
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td></td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium		Tall Shrub	
Sub-Canopy Species	Density	Avg. Height	Size									
Tag Alder	Medium		Tall Shrub									

20	42210 - Natural Red Pine	Sawtimber Poor	63.6	81	51-80	N/A	Was recently cut in 1999. Loki Pine (54-13) thinned to 90. too thick to scarify so FTP was cancelled. 2021 good red pine regen.																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>90</td> <td>Log/Pole</td> <td>10</td> <td>81</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	90	Log/Pole	10	81	White Pine	10	Log	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	< 5 feet	Sapling	White Pine	Low	< 5 feet	Sapling	Black Spruce	Medium	< 5 feet	Sapling	Quaking Aspen	Medium	5 - 10 feet	Sapling	Jack Pine	Medium	5 - 10 feet	Sapling	
Canopy Species	% Cover	Size Class	DBH	Age																																							
Red Pine	90	Log/Pole	10	81																																							
White Pine	10	Log	14																																								
Sub-Canopy Species	Density	Avg. Height	Size																																								
Red Pine	Low	< 5 feet	Sapling																																								
White Pine	Low	< 5 feet	Sapling																																								
Black Spruce	Medium	< 5 feet	Sapling																																								
Quaking Aspen	Medium	5 - 10 feet	Sapling																																								
Jack Pine	Medium	5 - 10 feet	Sapling																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

21	6127 - Lowland Pine	Sawtimber Medium	14.3	96	51-80	N/A	2021 - Great regeneration! Healthy and well stocked.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		10	Pole	6		Jack Pine		Low	< 5 feet	Sapling
White Pine		15	Log/Pole	10		Black Spruce		High	5 - 10 feet	Sapling
Red Pine		55	Log/Pole	12	96	Tamarack		High	5 - 10 feet	Sapling
Black Spruce		20	Pole	6		Red Pine		Low	< 5 feet	Sapling

22	42290 - Natural Mixed Pine	Poletimber Well	85.4	36	81-110	N/A	2021- Stand is healthy. No activity.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Spruce		5	Sapling	4						
Red Pine		10	Sapling	4						
Quaking Aspen		25	Sapling	4						
Jack Pine		50	Pole/Sapling	5	36					
White Pine		10	Pole/Sapling	5						

23	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	34.7	24	81-110	N/A	Was harvested in 1998. Regeneration looks good.2021- Stand is healthy+ looks good. No activity.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		10	Pole/Sapling	5	24	Tag Alder		Medium	< 5 feet	Tall Shrub
Black Spruce		25	Pole/Sapling	5	24					
Paper Birch		5	Sapling	3						
Jack Pine		45	Sapling	4	24					
Quaking Aspen		15	Sapling	4						

24	429 - Mixed Upland Conifers	Sapling Medium	37.4	18	81-110	N/A	C41-1131 Regeneration is still small. Jack pine is just starting to get above the snow. stand was surveyed and passed natural regen check.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		5	Sapling	2						
Black Spruce		15	Sapling	2						
Jack Pine		30	Sapling	2	18					
White Pine		5	Log	14						
Quaking Aspen		30	Sapling	2						
Red Pine		15	Log	14						

25	6127 - Lowland Pine	Sawtimber Poor	8.3	81	111-140	N/A	Stand is made up of scattered pockets of trees intermixed with tag alder.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		60	Log/XLog	16	81	White Pine		Low	5 - 10 feet	Sapling
Red Pine		10	Log/Pole	12		Black Spruce		Low	< 5 feet	Sapling
Black Spruce		10	Pole	8		Red Maple		Low	5 - 10 feet	Sapling
Quaking Aspen		10	Pole	8		Tag Alder		High	< 5 feet	Tall Shrub
Tamarack		10	Log/Pole	12						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	6125 - Lowland Black Spruce, Jack Pine	Sapling Medium	16.9	23	Immature	N/A	This stand is lower ground with jack pine and black spruce being on the higher areas.2021 - stand is low. Tag alder
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		30	Sapling	3		Tag Alder	
Black Spruce		30	Sapling	3	23	Density	Avg. Height
Jack Pine		25	Sapling	3	23	Medium	< 5 feet
Paper Birch		5	Sapling	3			Size
Quaking Aspen		10	Sapling	3			Tall Shrub
27	3302 - Low Density Conifer Trees	Nonstocked	3.6		Unspecified	No	
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		Low		Sapling			
28	6127 - Lowland Pine	Poletimber Medium	48.6	82	51-80	N/A	This is a hodgpodge kind of stand. The Northwest quareter has a high percentage of red pine on ridges surrounded by lowland - mixed tamarack, paper birch, and tag alder. On ridges it is relatively open with some hardwood regeneration. Was harvested about 10 years ago.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		10	Sapling	3		Black Spruce	
Black Spruce		5	Sapling	2		Medium	
Paper Birch		5	Sapling	2		Tag Alder	
White Pine		20	Log/Pole	10		Medium	
Quaking Aspen		30	Sapling/Pole	4		Variable	
Red Pine		30	Pole/Log	8	82	Full	
						5 - 10 feet	
						Sapling	
29	42210 - Natural Red Pine	Sawtimber Medium	10.9	81	51-80	N/A	Was thinned in 1999. voerstory red and white pine. Understory of jack pine, black spruce, and aspen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		30	Log	14		White Pine	
Red Pine		70	Log	14	81	Low	
						5 - 10 feet	
						Sapling	
						Medium	
						5 - 10 feet	
						Sapling	
						Medium	
						5 - 10 feet	
						Sapling	
						Low	
						5 - 10 feet	
						Sapling	
30	42220 - Natural Jack Pine	Sapling Poor	1.7	16	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		5	Sapling	3			
Jack Pine		75	Sapling	4	16		
Quaking Aspen		20	Sapling	2			
31	42210 - Natural Red Pine	Sawtimber Medium	16.9	82	51-80	N/A	This stand was recently harvested.2021_ full understory of aspen. No activity.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Log/Pole	12		Quaking Aspen	
Red Pine		95	Log/Pole	10	82	Full	
						< 5 feet	
						Sapling	
						Medium	
						< 5 feet	
						Sapling	
						High	
						5 - 10 feet	
						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
32	42210 - Natural Red Pine	Sawtimber Poor	9.0	80	51-80	N/A	This is stand is a combination of upland and lowland. It was harvested in 2006.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>15</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>70</td> <td>Log</td> <td>14</td> <td>80</td> </tr> <tr> <td>Paper Birch</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	15	Log	16		Red Pine	70	Log	14	80	Paper Birch	15	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Low	5 - 10 feet	Sapling	Tamarack	Low	5 - 10 feet	Sapling	Paper Birch	Low	5 - 10 feet	Sapling	Black Spruce	Low	5 - 10 feet	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																																
White Pine	15	Log	16																																																	
Red Pine	70	Log	14	80																																																
Paper Birch	15	Pole	8																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Quaking Aspen	Low	5 - 10 feet	Sapling																																																	
Tamarack	Low	5 - 10 feet	Sapling																																																	
Paper Birch	Low	5 - 10 feet	Sapling																																																	
Black Spruce	Low	5 - 10 feet	Sapling																																																	
33	42210 - Natural Red Pine	Sawtimber Medium	2.5	83	51-80	N/A	This stand has been marked for harvesting. Assuming it is part of Brown Hand Sale 41-27-08. There is a ditch on the west side of the stand. 2021 - Stand is healthy and regen looks good.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>95</td> <td>Log/Pole</td> <td>12</td> <td>83</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	95	Log/Pole	12	83	White Pine	5	Log	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	< 5 feet	Sapling	Black Spruce	Low	< 5 feet	Sapling	Quaking Aspen	Low	< 5 feet	Sapling	Tag Alder	Low	Variable	Tall Shrub														
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Pine	95	Log/Pole	12	83																																																
White Pine	5	Log	14																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Red Pine	Low	< 5 feet	Sapling																																																	
Black Spruce	Low	< 5 feet	Sapling																																																	
Quaking Aspen	Low	< 5 feet	Sapling																																																	
Tag Alder	Low	Variable	Tall Shrub																																																	
34	42210 - Natural Red Pine	Sawtimber Medium	4.6	83	51-80	N/A	This stand is marked for harvest. Assume it is part of Brown Hand Sale 41-27-08. Ditch on west side of stand. 2021 - Regeneration coming in. Stand is healthy no activity.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>95</td> <td>Log/Pole</td> <td>12</td> <td>83</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	95	Log/Pole	12	83	White Pine	5	Log	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	Variable	Sapling	Quaking Aspen	High	5 - 10 feet	Sapling	Red Pine	Low	< 5 feet	Sapling	Jack Pine	Low	< 5 feet	Sapling	Tag Alder	Medium	< 5 feet	Tall Shrub										
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Pine	95	Log/Pole	12	83																																																
White Pine	5	Log	14																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Black Spruce	Low	Variable	Sapling																																																	
Quaking Aspen	High	5 - 10 feet	Sapling																																																	
Red Pine	Low	< 5 feet	Sapling																																																	
Jack Pine	Low	< 5 feet	Sapling																																																	
Tag Alder	Medium	< 5 feet	Tall Shrub																																																	
35	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.6	83	1-50	N/A	Pine Islands surrounded by lower ground. Some low ground has trees - others have tag alder. Good jack pine regen.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>30</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>40</td> <td>Log/Pole</td> <td>12</td> <td>83</td> </tr> <tr> <td>Quaking Aspen</td> <td>25</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	30	Log/Pole	10		Red Pine	40	Log/Pole	12	83	Quaking Aspen	25	Sapling/Pole	4		Paper Birch	5	Sapling/Pole	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Quaking Aspen</td> <td>Full</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Medium	5 - 10 feet	Sapling	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Quaking Aspen	Full	10 - 20 feet	Sapling	Black Spruce	Medium	5 - 10 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																
White Pine	30	Log/Pole	10																																																	
Red Pine	40	Log/Pole	12	83																																																
Quaking Aspen	25	Sapling/Pole	4																																																	
Paper Birch	5	Sapling/Pole	3																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Jack Pine	Medium	5 - 10 feet	Sapling																																																	
Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																	
Quaking Aspen	Full	10 - 20 feet	Sapling																																																	
Black Spruce	Medium	5 - 10 feet	Sapling																																																	