



# Compartment Review Presentation

## Shingleton Forest Management Unit

Compartment 41092

Entry Year 2024

Acreage: 1,991

County Delta

Management Area: Garden Thompson Plains

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**Stand Examiner:** Tori Irving

### **Legal Description:**

T40N, R18W Sections 25, 26, 27 & 28

### **Identified Planning Goals:**

Timber, wildlife, recreation, and fisheries are the main uses of this area. The goal is to manage for all uses simultaneously and to provide, enhance and perpetuate their uses through proper management. Proposed forest treatments will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

### **Soil and topography:**

The topography within the compartment is flat to rolling. The soils are well drained sands on the uplands and organic soils on the lower ground. The entire compartment lies within the Thompson Plains Land Type Association. Soil types include: Rubicon Sand, Crowell Sand, Tawas Muck, AuGres Sand, Roscommon Mucky Sand, and Carbondale, Lupton, Rifle Sands.

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

State ownership throughout the compartment is contiguous. The compartment is bordered by state ownership on the north and south and by private land on the east and west. There are two private parcels located in Section 25 that are surrounded by state land. The remaining private parcels are along the compartment borders. Most of the private land is used for hunting. A powerline runs through section 28. The line has been brushed and widened to 100 feet to support the Garden Peninsula Wind Project. There is an old Township garbage dump in section 27 which has been closed for many years.

### **Unique Natural Features:**

The area is currently under review by the Michigan Natural Features Inventory.

### **Archeological, Historical, and Cultural Features:**

None.

### **Special Management Designations or Considerations:**

None.

### **Watershed and Fisheries Considerations:**

This compartment contains Valentine Creek which serves as a tributary to Lake Michigan via Big Bay de Noc. Valentine Creek is a non-designated stream less than 50' width with a predicted mean July temperature of 61.5 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended for Valentine Creek to protect riparian areas in accordance with Best Management Practices.

### **Wildlife Habitat Considerations:**

This compartment is contained with the Escanaba/Door Peninsula ecological sub-subsection. The growing season is 140 days. Extreme minimum temperatures are around -35 degrees F. Annual average snowfall is 70 inches. The compartment falls within the Garden Thompson Plains Management Area which highlights the following Featured Species: American woodcock, ruffed grouse, wild turkey and white-tailed deer. General Land Office (GLO) Surveyor notes show the circa 1850 upland forest were dominated by white birch, hemlock, and aspen. White pine, beech, and sugar maple were also present. Lowlands were dominated by cedar, tamarack and fir. Windthrow and fire remnants were noted across the compartment during the first survey. Beaver ponding was also likely a major form of natural disturbance. Current upland forests are substantially altered from pre-settlement conditions. White birch and hemlock has been reduced while aspen has increased. Lowlands are quite similar to conditions found circa 1850. The majority of the lowland conifer stands are nominated as potential old growth. Wildlife habitat objectives include promoting age-class diversity between aspen stands and maintaining closed canopy upland and lowland conifer stands. There are no known rare species within this compartment. Other wildlife species of interest that utilize this compartment include American toad, smooth green snake, red crossbill, brown creeper, deer mouse, northern flying squirrel.

## **Mineral Resource and Development Concerns and/or Restrictions**

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. The nearest active non-metallic mineral extraction site is just over two miles south. Bedrock dolostone is at or very near the surface in this area, and there is potential for high-purity dolomite within the compartment. However, surface mining within the compartment could be inhibited by a high water table and wetlands. No current mineral leasing activity exists in the area.

## **Vehicle Access:**

The west side of the compartment can be accessed by Johnson Road. The Cooks-Garden Grade provides access to the east side. There are a few forest roads that provide access to the interior of the compartment.

## **Survey Needs:**

None.

## **Recreational Facilities and Opportunities:**

Snowmobile Trail 415 which is also the Cooks Garden Grade is within the Compartment. The trail once serviced the Village of Garden but was recently closed just south of the compartment due to the loss of permissions on private land. The trail is currently trying to be relocated in order to re-open access to Garden. There are several other recreational opportunities including hunting, fishing and ORV use. The abandoned roads offer excellent walk-in hunting opportunities.

## **Fire Protection:**

Response times to this area will be fairly quick with adequate detection efforts. The entire eastern portion of the compartment is fairly low which means low fire danger however, the soils in this area are mainly organic so if a fire was to occur suppression would be challenging. The western portion of the compartment is more upland but the fuel types are fairly low risk.

## **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:**

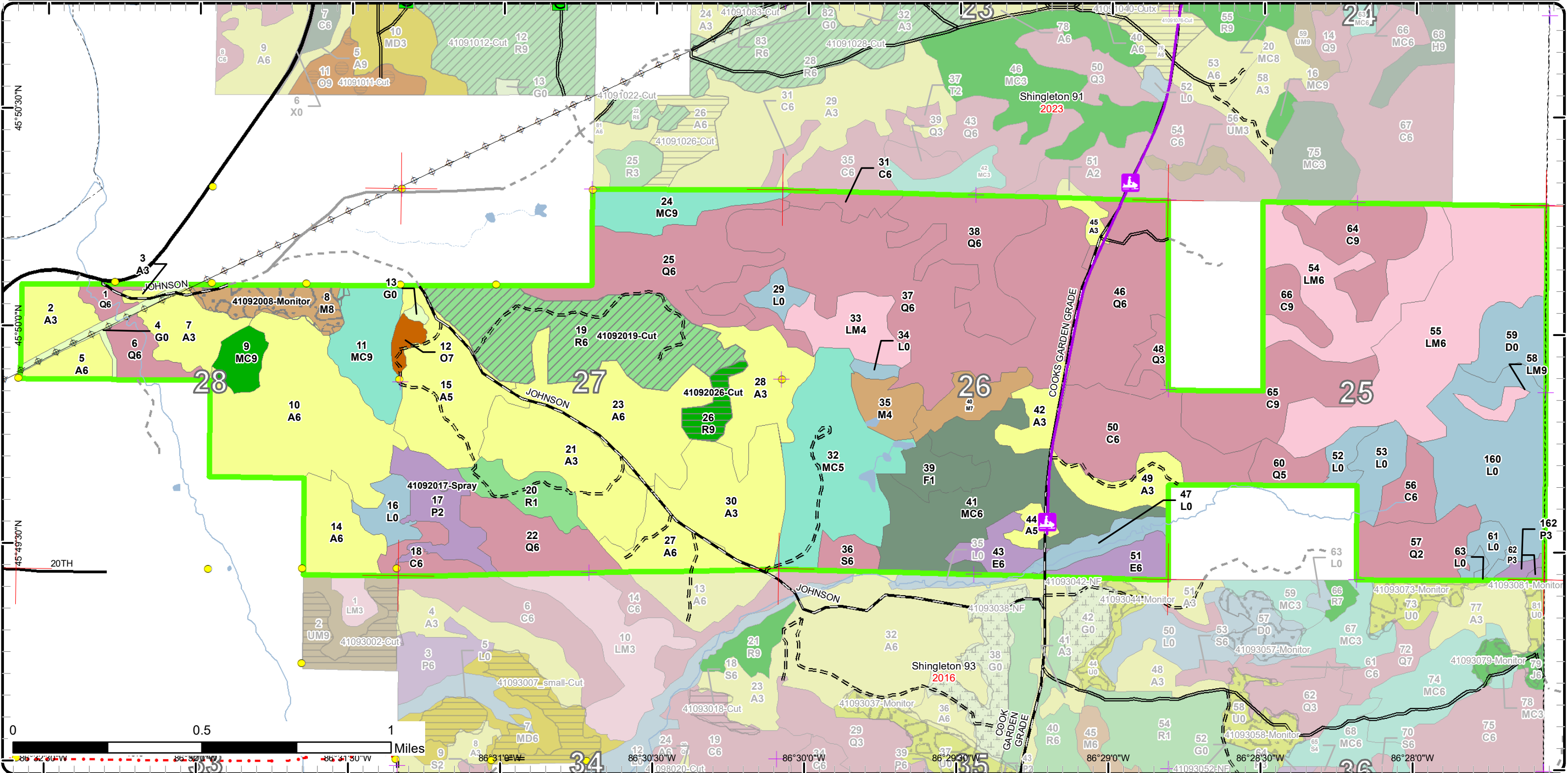
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 92  
 T40N, R18W, Sec. 25-28  
 County: Delta  
 Unit: Shingleton  
 Mgmt Area: Garden Thompson  
 Plains  
 YOE: 2024  
 Acres: 1991 GIS Calculated  
 Examiner: Tori Irving  
 Map Revised: 8/17/2022  
 Map Phase: Web Post

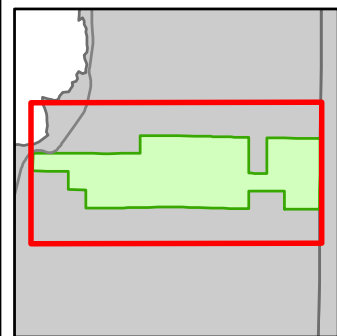


- |   |                                     |                                   |
|---|-------------------------------------|-----------------------------------|
| — Miris Corners                         | — Intermittent Stream               | ■ 422 - Natural Pines             |
| + Remonumented Section Corners          | — Lake/Pond                         | ■ 423 - Other Upland Conifers     |
| ● Survey Grade Corners                  | — Perennial River                   | ■ 429 - Mixed Upland Conifers     |
| - - - Counties                          | — Shoreline                         | ■ 611 - Lowland Deciduous Forest  |
| — DNR - Primary Forest Road             | ■ Lakes and Rivers                  | ■ 612 - Lowland Coniferous Forest |
| — DNR - Secondary Forest Road           | ⊕ Powerline                         | ■ 613 - Lowland Mixed Forest      |
| == DNR - Forest Access Route            | ▭ Compartment Boundary              | ■ 310 - Herbaceous Openland       |
| — Federal / State Highway               | ▨ Pesticide                         | ■ 622 - Lowland Shrub             |
| — Federal / State / County - Paved Road | ▨ Clearcut (w/Reserves)             |                                   |
| - . - . County - Gravel Road            | ▨ Thinning (Crown, Low, Systematic) |                                   |
| — Private - Paved Road                  | ▨ Regeneration Survey               |                                   |
| - - - Private - Dirt / Gravel Road      | ■ 411 - Northern Hardwood           |                                   |
| 🚙 Snowmobile Trails                     | ■ 412 - Oak Types                   |                                   |
| — Designated Snowmobile Trails          | ■ 413 - Aspen                       |                                   |
|   | ■ 421 - Planted Pines               |                                   |

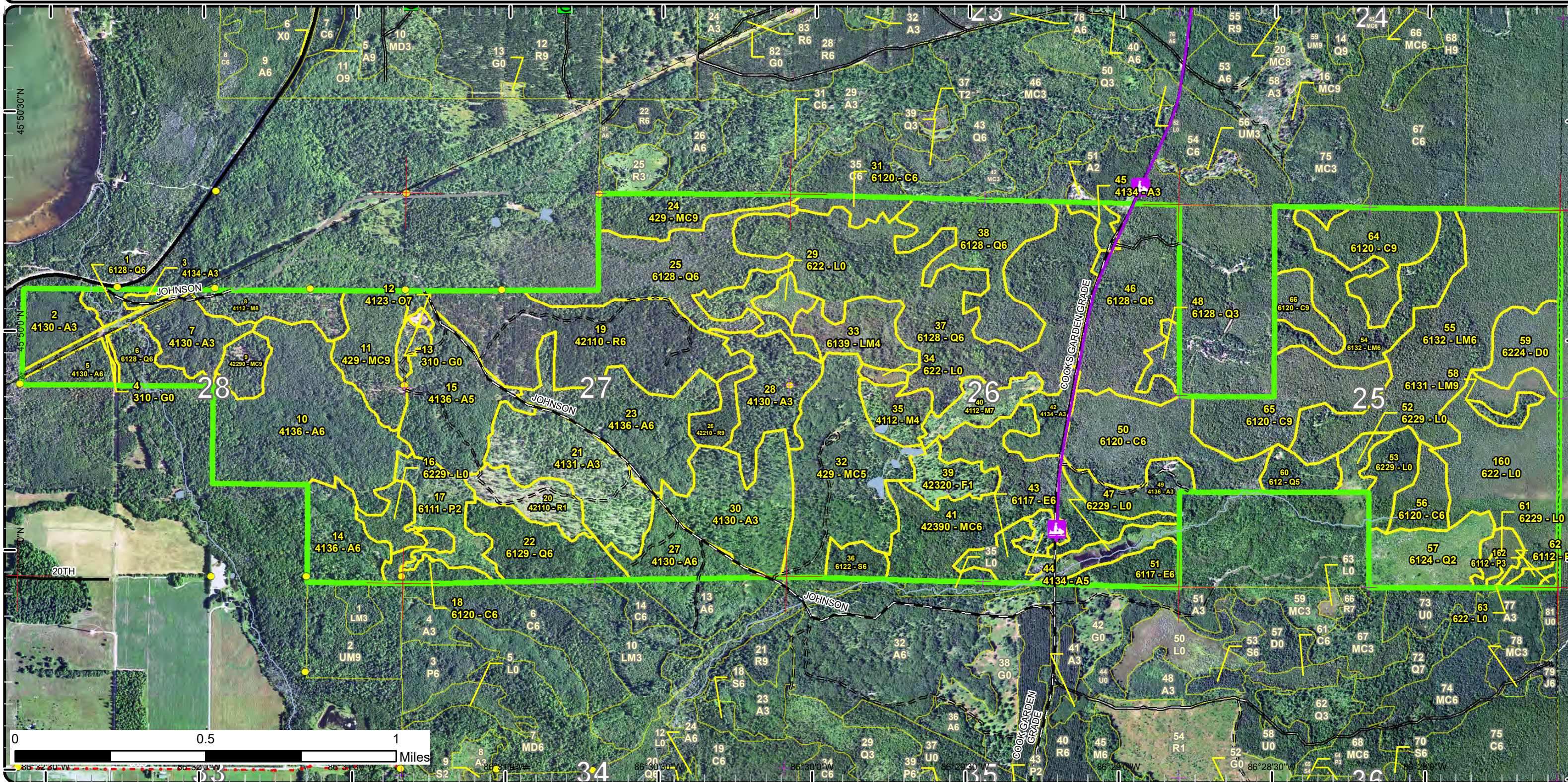


# Stand Boundary Map

Compartment: 92  
 T40N, R18W, Sec. 25-28  
 County: Delta  
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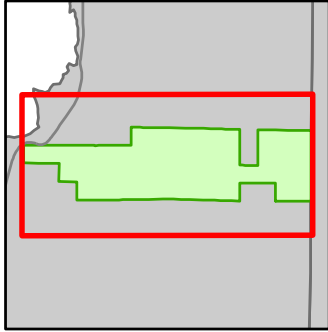


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
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- 622 - Lowland Shrub
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers

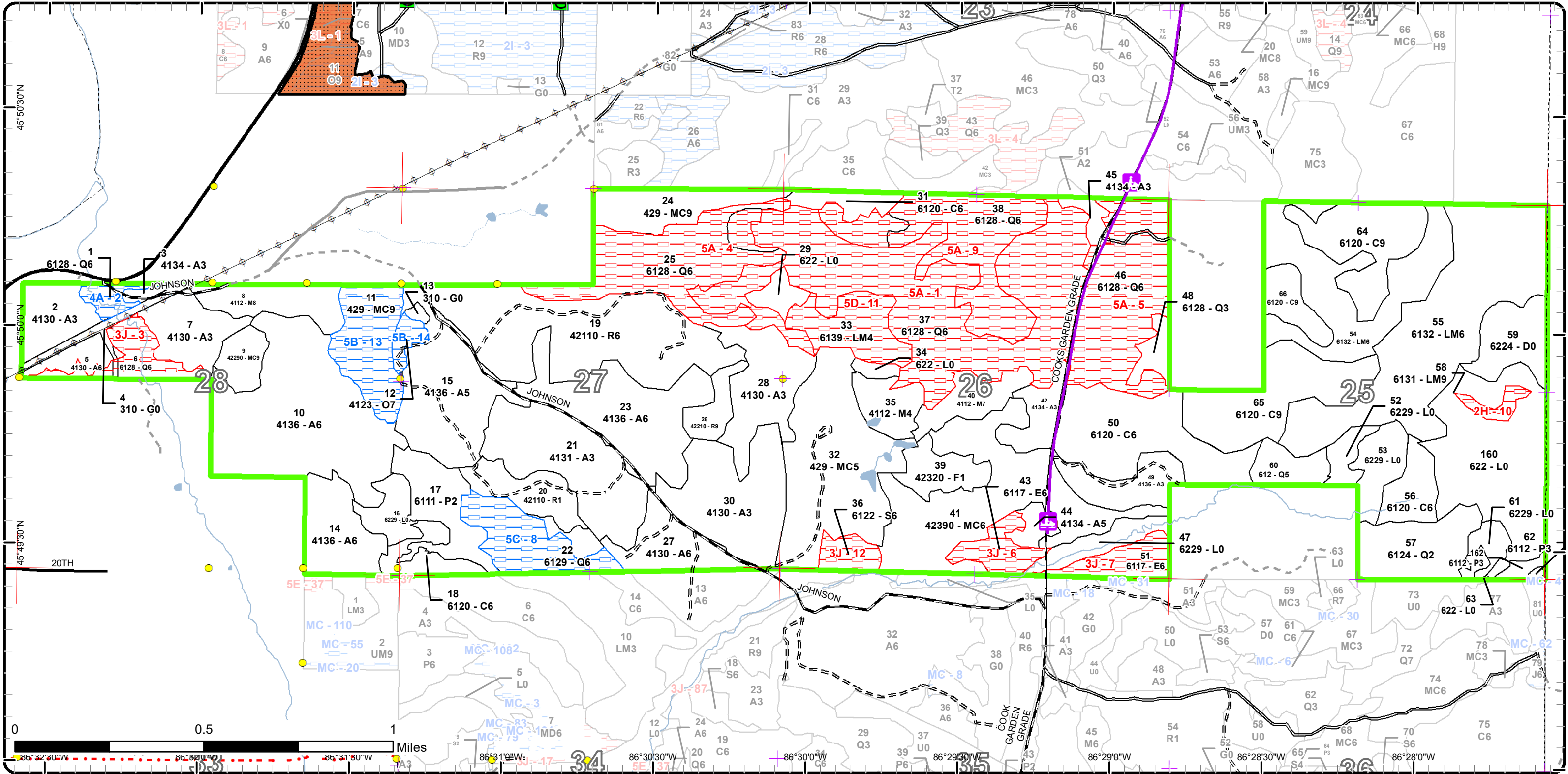


# Special Conservation Areas

Compartment: 92  
 T40N, R18W, Sec. 25-28  
 County: Delta  
 Unit: Shingleton  
 Mgmt Area: Garden Thompson  
 Plains  
 YOE: 2024  
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- Miris Corners
- Remonumented Section Corners
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- Counties
- DNR - Primary Forest Road
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- Federal / State Highway
- Federal / State / County - Paved Road
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- Private - Dirt / Gravel Road
- ⚡ Powerline
- ⚡ Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	54	70	63	294	11	0	0	0	0	0	0	0	0	0	0	0	6	497
Cedar	0	0	0	0	0	0	0	0	0	0	70	10	98	13	0	0	0	0	190
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	26	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Conifers	0	0	31	0	7	0	0	0	0	0	251	79	66	0	0	0	0	12	446
Lowland Deciduous	0	0	0	0	0	0	0	15	0	13	0	0	0	0	0	0	0	0	28
Lowland Mixed Forest	0	0	0	0	0	0	0	0	25	0	64	108	0	0	0	0	0	0	197
Lowland Shrub	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	0	0	0	0	0	16	15	22	0	0	0	0	0	0	0	0	53
Oak	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Red Pine	0	19	0	0	0	0	0	92	10	0	0	0	0	0	0	0	0	0	121
Treed Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Conifers	0	0	0	78	0	0	0	0	25	32	0	0	82	0	0	0	0	0	217
Upland Spruce/Fir	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
<b>Total</b>	<b>169</b>	<b>73</b>	<b>142</b>	<b>145</b>	<b>301</b>	<b>11</b>	<b>0</b>	<b>92</b>	<b>41</b>	<b>74</b>	<b>404</b>	<b>153</b>	<b>272</b>	<b>95</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>1988</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2024

Acres of Harvest

Compartment 92  
Total Compartment Acres: 1,991

Commercial Harvest - 102  
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		10	0	0	0	92	0	0	0	0	102
	<b>Total</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>92</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>102</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		102	0	0	0	0	21	0	0	0	123
Next Step		0	0	0	0	0	11	0	0	0	11
	<b>Total</b>	<b>102</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>134</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

17	41092017-Spray	0.4	6111 - Lowland Balsam Poplar	Sapling Medium	16	1-50	Pesticide	Hand Application	6111 - Lowland Balsam Poplar	Even-Aged	No
<p><u>Prescription</u> Apply herbicide for phragmites control.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Herbicide Use  <u>Treatments:</u>  <u>Acceptable</u> A mix of species found on-site will be considered acceptable.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>											
19	41092019-Cut	91.6	42110 - Planted Red Pine	Poletimber Well	60	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove smaller diameter trees to improve spacing and to favor larger diameter trees. Cut all jack pine. Do not cut oak  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Red pine and jack pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>											
26	41092026-Cut	10.2	42210 - Natural Red Pine	Sawtimber Well	78	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all species except oak.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen and oak.  <u>Regen:</u>  <u>Other</u> No retention due to small stand size.  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>											

**Approved Treatments:**

8	41092008-Monitor	21.2	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	96	81-110	Monitoring	Natural Regen (Re-Inventory)	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Continue to monitor for regeneration.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> A mix of species currently found onsite.  <u>Regen:</u>  <u>Other</u> Stand was cut last entry. Maple species are not regenerating very well due to beech brush and deer browse.  <u>Comment:</u></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
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Site Condition:

Proposed Start Date: 10/1 /2031

Total Treatment  
Acreage Proposed: 123.4

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 92

Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions								
		With Condition				4A	5B	5C	2H	3J	5A	5D		
499	495	0		3	Aspen					3				
190	190	0		0	Cedar									
9	8	0		0	Herbaceous Openland	0				0				
30	30	0		0	Lowland Aspen/Balsam Poplar			0						
447	55	35		356	Lowland Conifers	7		29		14	342			
28	0	0		28	Lowland Deciduous					28				
196	167	0		30	Lowland Mixed Forest				5				25	
139	139	0		0	Lowland Shrub									
9	0	0		9	Lowland Spruce/Fir					9				
11	11	0		0	Natural Mixed Pines									
53	53	0		0	Northern Hardwood									
5	0	5		0	Oak		5							
121	121	0		0	Red Pine									
22	22	0		0	Treed Bog									
217	185	32		0	Upland Conifers		32			0	0			
15	15	0		0	Upland Spruce/Fir									
1,991	1,493	72		426	Total Forested Acres	7	37	29	5	54	342	25		
	75%	4%		21%	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	5A: Not able to obtain desirable regeneration	151	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	4A: No Markets Available for these Forest Products	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 92

Year of Entry: 2024

3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	63	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	66	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	13	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand lies along Valentine Creek.							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	15	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand lies along Valentine Creek.							
8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Regeneration of lowland species within this compartment is difficult with the amount of deer browse occurring.							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 92

Year of Entry: 2024

9	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	62	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Could be prescribed early, but decision at review last year was to hold this another entry.							
10	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Portion of this stand was treated last entry and is still regenerating. The remainder of stand is heavy to hemlock and operability would be challenging.							
14	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was treated during the last entry and is in the process of regenerating. No treatment needed at this time.							

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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Mgt. Unit

Compartment:

Year of Entry



## 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	6.6	102	Unspecified	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>Balsam Fir</td> <td>15</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>45</td> <td>Pole/Sapling</td> <td>6</td> <td>102</td> </tr> <tr> <td>Hemlock</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	15	Pole/Sapling	6		Northern White Cedar	45	Pole/Sapling	6	102	Hemlock	10	Log/Pole	12		Paper Birch	10	Pole	6		Red Maple	20	Pole	6	
Canopy Species	% Cover	Size Class	DBH	Age																																	
Balsam Fir	15	Pole/Sapling	6																																		
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Hemlock	10	Log/Pole	12																																		
Paper Birch	10	Pole	6																																		
Red Maple	20	Pole	6																																		
2	4130 - Aspen	Sapling Well	19.1	17	Unspecified	N/A	Sale was cut as part of sale # 41-022-04-01 Valentine's Aspen. Sale was cut in the fall of 2005. TSI work was done under FTP W41-1186 and was completed and closed on 4/5/06.																														
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3	4134 - Aspen, Spruce/Fir	Sapling Well	2.3	32	Unspecified	N/A																															
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4	310 - Herbaceous Openland	Nonstocked	7.3		Unspecified	No	Powerline																														
5	4130 - Aspen	Poletimber Well	11.2	43	Unspecified	N/A																															
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6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.2	102	Unspecified	N/A																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**7** 4130 - Aspen Sapling Well 22.9 32 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole	7	
Red Pine	5	Log/Pole/XLog	12	
Quaking Aspen	45	Sapling	2	32
Bigtooth Aspen	45	Sapling	2	32
White Pine	3	Pole/Log	9	

**8** 4112 - Maple, Beech, Cherry Association Sawtimber Medium 21.6 96 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	Log/Pole	11	
Sugar Maple	50	Log/Pole	10	96
Red Maple	30	Log/Pole	10	
Red Oak	5	Log/Pole	10	
Beech	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	Variable	Sapling
Beech	High	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

[4/28/22 T1] Stand is filling in with raspberry and blackberry. Any maple regeneration appears to be smothered by beech or browsed by deer. There's a handful of hemlock regeneration in the stand that hasn't been browsed but would still be under the snow. That could explain the reason for minimal browsing on this species.

[11/17/2016] Stand was cut as part of sale # 41-030-14-01 Chase-A-Grouse Mix. TCR Date 7/29/2016.  
Stand is almost two-aged. There are a lot of poles and saplings in the understory. There are scattered hemlock pockets.

**9** 42290 - Natural Mixed Pine Sawtimber Well 11.2 96 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	30	Log/XLog	14	96
White Pine	30	Log/Pole	12	
Hemlock	15	Pole/Log	8	
White Spruce	15	Pole	6	
Paper Birch	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
Beech	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Hemlock	Medium	Variable	Sapling

[11/17/2016] Small pocket of the stand was cut as part of sale #41-030-14-01 Chase-A-Grouse Mix. TCR date 7/29/2016.

There is a lot of good hemlock regeneration in the stand. There are some XLog sized red oak and hemlock trees in the stand.

**10** 4136 - Aspen, Mixed Conifer Poletimber Well 97.1 38 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	28	Pole	8	38
Red Maple	8	Pole	8	50
White Pine	2	Log/Pole	11	
Bigtooth Aspen	18	Pole	8	
Yellow Birch	2	Log/Pole	10	
Red Pine	2	Log/Pole	11	
Red Oak	2	Pole	5	
Hemlock	18	Log/Pole	11	
Northern White Cedar	2	Pole	6	
Balsam Fir	9	Pole/Sapling	6	50
Paper Birch	9	Pole	8	50

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	Medium	Variable	Sapling
Red Maple	Low	Variable	Sapling

Southern part of stand was cut in 1984.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
11	429 - Mixed Upland Conifers	Sawtimber Well	32.0	98	111-140	N/A	[11/17/2016] Stand was cut as part of sale # 41-030-14-01 Chase-A-Grouse Mix. TCR Date 7/29/2016.																																																																	
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12	4123 - Red Oak	Sawtimber Poor	5.1	96	1-50	N/A	Stand was cut with Chase a Grouse Mix in April 2016. Planting and trenching is not an option due to oak regeneration residual. Monitor next inventory cycle.																																																																	
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14	4136 - Aspen, Mixed Conifer	Poletimber Well	27.5	23	51-80	N/A	Residual cedar, hemlock, white birch, and red pine are scattered through the site. Stand starting to regenerate. Black spruce and balsam poplar are starting to fill in.																																																																	
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15	4136 - Aspen, Mixed Conifer	Poletimber Medium	52.9	31	1-50	N/A	Canopy is on the lower end of the 75-100% canopy cover. There are some scattered open spots.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**16**      6229 - Mixed lowland shrub      Nonstocked      11.7                No

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low		Sapling
Black Spruce	Low		Sapling
Northern White Cedar	Low		Sapling
Quaking Aspen	Low		Sapling
Leatherleaf	Full		Tall Shrub
Tag Alder	Full		Tall Shrub
Red Pine	Low		Log

**17**      6111 - Lowland Balsam Poplar      Sapling Medium      26.1      16      1-50      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Pole/Sapling	6	
Balsam Poplar	65	Sapling	2	16
Northern White Cedar	5	Pole	6	
White Pine	5	Log/XLog/Pole	14	
Red Pine	10	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	Variable	Sapling
White Pine	Medium	Variable	Tall Shrub

Starting to get small black spruce scattered in the stand.

Stand was harvested as part of Valentine's Aspen (41-022-04-01). Stand was cut in the winter of 2006. The northern half of the stand had a Q-type MO in the OI. Currently, the stand is fully stocked aspen. The northern half of the stand has some Q-species regenerating but it was too early to check. The stand will remain on the regeneration clock until the next entry.

**18**      6120 - Lowland Cedar      Poletimber Well      12.5      120      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	10	Pole/Sapling	10	
Northern White Cedar	65	Pole/Log/Sap	8	120
Black Spruce	10	Pole/Log	8	
Red Pine	5	Log/Pole/XLog	14	
Paper Birch	10	Pole	8	36

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Tall Shrub
Quaking Aspen	Low	Variable	Tall Shrub

Part of the stand was strip cut. Stand has some hemlock along eastern edges.

**19**      42110 - Planted Red Pine      Poletimber Well      91.6      60      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	10	Pole	8	
Red Pine	90	Pole/Log	9	60

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>20</b>	42110 - Planted Red Pine	Sapling Poor	19.4	4	1-50	N/A	Stand was harvested in May 2016, Oakey Dokey Pine Sale. Trenched in summer 2017.  5/22/18: Planted by Superior Forestry. Oversight by Forest Resource Services (Grossman Forestry Co.).  Quality checks: 0.00% too deep, 0.00% bad stem angle, 0.00% too loose, 0.00% "J" rooted. Weather: clear/haze, not much wind, 74 degrees. Stocking = 1013 trees/ac actual, 950 trees/ac plot data. Total cost = \$218.80/ac  Planted with 4-0 Red Pine  Passed 1st year regeneration count, not free to grow and will be sprayed.  Pre-commercial manual release occurred in summer 2021
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log/XLog	14	85
Red Pine	90	Sapling	1	4
Red Oak	5	Pole/Log/Sap	7	

<b>21</b>	4131 - Aspen, Oak	Sapling Well	53.9	5	1-50	N/A	Additional BA Swings: 1) RO-20', RP-30', ASP-60', PB-20'2) RO- 20', ASP-90' Stand was cut as part of Sale #41-032-14-01 Oakey Dokey Pine. TCR Date 6/12/2017. Most of the red oak is being browsed heavily Aspen is thriving.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	50	Sapling	1	5
Quaking Aspen	10	Sapling	1	
Red Oak	10	Sapling	1	
White Pine	10	Log/Pole	12	
Red Oak	20	Log	12	98

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	< 5 feet	Sapling

<b>22</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	33.4	96	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	7	Pole/Log	9	
Northern White Cedar	40	Pole	9	96
Red Maple	7	Pole/Log	9	
Black Spruce	40	Pole	9	96
Paper Birch	6	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Medium	Variable	Sapling
Black Spruce	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling

<b>23</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	56.4	32	Unspecified	N/A	There are patches of conifers scattered through the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	10	Pole/Log	8	
Paper Birch	10	Pole/Sap/Log	7	
Bigtooth Aspen	55	Sapling/Pole	5	32
Balsam Fir	5	Sapling/Pole	5	
White Spruce	5	Pole	7	
Red Maple	5	Pole	8	
White Pine	10	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**24** 429 - Mixed Upland Conifers Sawtimber Well 25.2 83 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	10	
Paper Birch	10	Log/Pole	10	
Bigtooth Aspen	10	Log/Pole	10	
Northern White Cedar	10	Log/Pole	10	
Red Pine	10	Log/Pole	10	
Hemlock	40	Log/Pole	10	83

**25** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 57.8 105 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Green Ash	15	Pole/Sapling	6	
Red Maple	5	Pole/Sapling	6	
White Spruce	10	Pole/Sapling	6	
White Pine	5	Pole/Sapling	6	
Balsam Fir	10	Pole/Sapling	6	
Red Pine	5	Pole/Sapling	6	
Northern White Cedar	40	Pole/Sapling	6	105
Paper Birch	10	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Tall Shrub
Northern White Cedar	Low	Variable	Tall Shrub
Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	Low	Variable	Tall Shrub

**26** 42210 - Natural Red Pine Sawtimber Well 10.2 78 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	95	Log	14	78
Red Oak	3	Log/Pole	10	
White Pine	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Tall Shrub
Red Pine	Low	Variable	Tall Shrub
Quaking Aspen	Low	Variable	Tall Shrub
Black Spruce	Low	Variable	Tall Shrub
Beech	Low	Variable	Tall Shrub

Stand was cut as a part of sale #41-022-04-01 Valentine's Aspen. Sale was completed in the fall of the 2005.

**27** 4130 - Aspen Poletimber Well 23.5 32 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Pole/Sap/Log	8	32
Red Pine	10	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling

Other canopy species include JP and RO but are not enough to be a part of canopy species.

**28** 4130 - Aspen Sapling Well 35.0 25 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	10	Log/Pole	11	
Quaking Aspen	90	Sapling/Pole	4	25

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	High	Variable	Sapling
Black Spruce	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
Red Oak	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**29** 622 - Lowland Shrub Nonstocked 6.9 Unspecified No

**30** 4130 - Aspen Sapling Well 51.3 16 Immature N/A Stand was cut in the fall of 2005. Sale #41-022-04-01 Valentines Aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	90	Sapling	3	16	Red Oak	Low	< 5 feet	Sapling
Red Pine	5	Log/Pole	10		White Pine	Low	< 5 feet	Sapling
Red Oak	5	Log/Pole	10		Red Pine	Low	Variable	Sapling

**31** 6120 - Lowland Cedar Poletimber Well 9.7 100 Unspecified N/A Too wet, Water quality/BMP

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	20	Pole	9	
Northern White Cedar	65	Pole	9	100
Red Maple	15	Pole	9	

**32** 429 - Mixed Upland Conifers Poletimber Medium 77.9 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	40	Sapling/Pole	4	25	Balsam Fir	Low	Variable	Sapling
Black Spruce	10	Pole	9		Black Spruce	Low	Variable	Sapling
Red Pine	30	Log	12		Red Maple	Medium	Variable	Sapling
White Spruce	10	Pole	7		Red Pine	Low	Variable	Sapling
Jack Pine	10	Pole	9		Jack Pine	Low	Variable	Sapling
					White Pine	Low	Variable	Sapling

**33** 6139 - Mixed Lowland Forest Poletimber Poor 25.0 82 Unspecified N/A Stand borders on non-productive, the understory is mainly tag alder.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	25	Pole/Sapling	6	82	Red Maple	Medium	Variable	Sapling
Northern White Cedar	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black Ash	5	Pole	8		Labrador Tea	Medium	Variable	Tall Shrub
Paper Birch	20	Pole/Log	9		Black Spruce	Medium	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6					
Bigtooth Aspen	20	Log	12					

**34** 622 - Lowland Shrub Nonstocked 3.0 Unspecified No

**35** 4112 - Maple, Beech, Cherry Association Poletimber Poor 14.9 80 51-80 N/A Stand was cut as sale #41-014-04-01 Garden Grade Split. Sale was complete in 2007. Inmates planted 4,000 white pine in 2009. This stand passed the regeneration walk through and has been closed on the regeneration timeclock.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole/Log	9		Black Spruce	Low	Variable	Sapling
Paper Birch	10	Pole/Log	8		White Pine	Low	Variable	Sapling
Red Maple	85	Pole/Log	8	80	Red Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**36**      6122 - Black Spruce      Poletimber Well      8.7      83      Unspecified      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Sapling	4	
Black Spruce	75	Pole/Sapling	7	83
Northern White Cedar	15	Pole	6	
Red Maple	5	Pole/Sapling	7	

**37**      6128 - Lowland Coniferous, Mixed Deciduous      Poletimber Well      166.1      97      Unspecified      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	8	
White Spruce	5	Pole/Sapling	8	
Black Spruce	20	Pole/Log	8	82
Northern White Cedar	35	Pole/Sapling	7	97
White Pine	5	Log/Pole	12	
Paper Birch	5	Pole/Sapling	8	
Bigtooth Aspen	5	Pole/Sap/Log	9	
Red Maple	10	Log/Pole	10	
Hemlock	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	High	Variable	Sapling
Bigtooth Aspen	Medium	Variable	Sapling
Hemlock	Low	Variable	Sapling
Northern White Cedar	Low	Variable	Sapling
Paper Birch	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling

**38**      6128 - Lowland Coniferous, Mixed Deciduous      Poletimber Well      51.8      95      Unspecified      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sapling	7	82
Balsam Fir	20	Pole/Sapling	7	
Northern White Cedar	30	Pole/Sapling	7	95
Black Spruce	20	Pole/Sapling	7	
Hemlock	10	Pole/Log	9	
Paper Birch	5	Pole/Sapling	7	

**39**      42320 - Upland Spruce      Sapling Poor      15.2      15      Immature      N/A      Stand cut as part of Sale # 41-014-04-01. Sale was closed in 2007.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Sapling/Pole	4	
White Pine	5	Sapling/Pole	4	
Red Maple	15	Sapling/Pole	4	
Black Spruce	35	Sapling/Pole	4	15
White Spruce	35	Sapling/Pole	4	
Red Pine	5	Sapling/Pole	4	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
40	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	16.3	70	1-50	N/A	Stand was cut as sale #41-014-04-01 Garden Grade Split. Sale was complete in 2007. Inmates planted 4,000 white pine in 2009. There is a good area of the retention in the center of the stand. This stand passed the regeneration walk through and has been closed on the regeneration timeclock.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		80	Log/Pole	10	70	Hemlock		Low	Variable	Sapling	
Paper Birch		5	Pole	7		White Spruce		High	Variable	Sapling	
Black Spruce		5	Pole	6		Red Maple		Medium	Variable	Sapling	
Hemlock		5	Pole	7		Northern White Cedar		Low	Variable	Sapling	
White Pine		5	Pole/Log	9		Black Spruce		Low	Variable	Sapling	
41	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	82.3	120	111-140	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		25	Pole/Log	8	120	Balsam Fir		Medium	Variable	Sapling	
Black Spruce		20	Pole	9		Northern White Cedar		Medium	Variable	Sapling	
White Pine		15	Pole	8							
Red Maple		10	Pole/Log/Sap	7							
Paper Birch		10	Pole	8							
Hemlock		20	Log/Pole/XLog	14							
42	4134 - Aspen, Spruce/Fir	Sapling Well	14.4	37	Unspecified	N/A	Stand was cut in 1985.				
Canopy Species		% Cover	Size Class	DBH	Age						
Black Spruce		15	Sapling/Pole	4							
Quaking Aspen		65	Sapling/Pole	4	37						
Red Maple		5	Sapling/Pole	4							
Balsam Fir		15	Sapling/Pole	4							
43	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	13.0	96	81-110	N/A	Stand holds a substantial amount of water and borders the Valentine Creek.				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		45	Pole	9	96						
Paper Birch		35	Pole	9							
Balsam Fir		20	Pole	9							
44	4134 - Aspen, Spruce/Fir	Poletimber Medium	6.2	20	Immature	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		60	Sapling	4	20	Balsam Fir		Low	Variable	Sapling	
Black Spruce		30	Pole/Sapling	5	30						
White Pine		10	Pole/Sapling	5							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**45** 4134 - Aspen, Spruce/Fir Sapling Well 5.0 37 Unspecified N/A Stand was cut in 1985.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Sapling	4	
Quaking Aspen	70	Sapling	4	37
Balsam Fir	15	Sapling	4	

**46** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 66.4 116 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Log/Pole	11		Bigtooth Aspen	Medium	Variable	Sapling
Northern White Cedar	35	Pole/Log	8	116	Black Spruce	High	Variable	Sapling
Hemlock	10	Log/XLog/Pole	14		Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	15	Pole/Log	9		Northern White Cedar	Medium	Variable	Pole
Tamarack	15	Pole	9		Paper Birch	Medium	Variable	Sapling
Paper Birch	10	Pole/Log	8					

**47** 6229 - Mixed lowland shrub Nonstocked 13.0 No Valentine Creek and surrounding shrubs.

**48** 6128 - Lowland Coniferous, Mixed Deciduous Sapling Well 7.4 37 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling/Pole	3	
Balsam Fir	20	Sapling/Pole	4	
Northern White Cedar	40	Sapling/Pole	4	37
Black Spruce	20	Sapling/Pole	3	

**49** 4136 - Aspen, Mixed Conifer Sapling Well 19.8 30 81-110 N/A Small red pine pocket in the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Sapling/Pole	4		Bigtooth Aspen	Medium	Variable	Sapling
Paper Birch	15	Pole/Sapling	6		Black Spruce	Medium	Variable	Sapling
Red Pine	5	Log/XLog	14		Paper Birch	Medium	Variable	Sapling
Black Spruce	15	Pole/Sap/Log	9		White Spruce	Low	Variable	Sapling
Bigtooth Aspen	40	Sapling/Pole	4	30				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**50** 6120 - Lowland Cedar Poletimber Well 54.5 96 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	50	Pole	6	96	Black Ash	Low	Variable	Sapling
Tamarack	10	Pole/Sapling	5		Tag Alder	Medium	Variable	Tall Shrub
Red Maple	5	Sapling/Pole	4		Northern White Cedar	Low	Variable	Sapling
Black Ash	10	Pole	6		Black Spruce	High	Variable	Sapling
Bigtooth Aspen	5	Pole	6					
Black Spruce	20	Pole/Log/Sap	7					

**51** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 15.0 74 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20	Pole/Sapling	6	
Quaking Aspen	20	Pole/Sapling	6	
Black Spruce	30	Pole/Sapling	5	74
Balsam Fir	10	Pole/Sapling	6	
Red Maple	20	Pole/Sapling	6	

**52** 6229 - Mixed lowland shrub Nonstocked 7.5 No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium		Tall Shrub
Black Spruce	Medium		Sapling
Balsam Fir	Medium		Sapling

**53** 6229 - Mixed lowland shrub Nonstocked 15.7 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium		Tall Shrub
Black Spruce	Medium		Sapling
Balsam Fir	Medium		Sapling

**54** 6132 - Mixed Lowland Forest with Cedar Poletimber Well 59.1 105 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	45	Pole/Sap/Log	9	105	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	10	Pole/Sap/Log	9		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	30	Pole/Sap/Log	9					
Black Spruce	15	Pole/Sap/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>55</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	107.6	119	Unspecified	N/A																																														
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<b>56</b>	6120 - Lowland Cedar	Poletimber Well	15.0	96	Unspecified	N/A																																														
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Tamarack	20	Pole/Log	9																																																	
<b>57</b>	6124 - Lowland Spruce-Fir	Sapling Medium	30.8	15	Immature	N/A	Stand was cut as part of Garden Grade Split. Sale number 41-014-04-01. Sale was closed in 2007.																																													
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Canopy Species	% Cover	Size Class	DBH	Age																																																
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Quaking Aspen	25	Sapling	2																																																	
<b>58</b>	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	4.6	105	81-110	N/A																																														
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
Paper Birch	20	Log/Pole	10		Red Maple	Low	Variable	Sapling																																												
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White Pine	40	Log/Pole/XLog	14	105	White Pine	Low	Variable	Sapling																																												
Red Maple	30	Log/Pole	12																																																	
<b>59</b>	6224 - Treed Bog	Nonstocked	22.2		Unspecified	No																																														
<b>60</b>	612 - Lowland Coniferous Forest	Poletimber Medium	12.0	96	Unspecified	N/A																																														
<b>61</b>	6229 - Mixed lowland shrub	Nonstocked	6.2		Unspecified	No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
<b>62</b>	6112 - Lowland Aspen	Sapling Well	0.8	25	Unspecified	N/A	Stand was cut as part of Garden Royale Sale #41-021-16. TCR Date 9/2/20 Stand was cut in 1997.																														
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<b>63</b>	622 - Lowland Shrub	Nonstocked	0.1		Unspecified	No																															
<b>64</b>	6120 - Lowland Cedar	Sawtimber Well	37.1	116	Unspecified	N/A																															
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<b>160</b>	622 - Lowland Shrub	Nonstocked	75.2			No																															
<b>162</b>	6112 - Lowland Aspen	Sapling Well	3.2	25	Unspecified	N/A	Stand was cut in 1997.																														
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