

# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 63148

Entry Year: 2027

Acreage: 1,946

County: Wexford

Management Area: Kalkaska Sandy Moraines

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**Stand Examiner:** Ben Lachman

### Legal Description:

T24N, R9W, Sections 17-20, 29, 30

### Identified Planning Goals:

Manage compartment for a mix of timber, wildlife, recreational and ecological concerns. Management plan and practiced silviculture methods will be implemented with all management activities.

### Soil and topography:

This compartment falls within landtype association (LTA) 1111 of sub-subsection VII.2.1 and 5211 of sub-subsection VII.2.2. LTA 1111, which occurs in the southern half of section 30, is characterized by steep, broken moraine ridges, few kettle lakes, and excessively drained sand. LTA 5211, which occurs in the remainder of the compartment, is a pitted outwash plain with excessively drained sand.

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

All sections contain some private land with the exception of section 19. Desirable acquisitions would be the NW qtr and the East half of the NE qtr of section 18, the NW and the NE and the SE of the NE of section 30 and the South half of the SE qtr of section 20. No lands are identified for disposal.

### Unique Natural Features:

This compartment contains a few mixed hemlock/ cedar/ white pine stands that are representative of pre-settlement conditions in this general area along the Manistee River. Manton Creek in Section 20. Potential for red-shouldered hawk, northern goshawk, eastern massasauga, wood turtle, spotted turtle. The bog habitat harbors potential for Blanding's turtle, ebony boghaunter, spotted turtle, and secretive locust. Eastern box turtle could occur throughout the compartment.

### Archeological, Historical, and Cultural Features:

None noted.

### Special Management Designations or Considerations:

Continue to create a variety of cover types and age classes. Several stands in this compartment are remnants of old strip (Red pine / Jack pine alternating strips) plantations. The Jack pine was either cut out last YOE or is being cut this YOE. Major cultivation and site prep will be needed to maintain red pine plantations within the compartment. Aspen will continue to be managed on a 50 to 60 year rotation, work should be done to break up large blocks of aspen into different age classes in future YOE. (Specifically stand 53 be broken up)

### Watershed and Fisheries Considerations:

Manton Creek flows northerly through the east portion of the compartment, while a branch of Buttermilk Creek flows north and west through the southwest (Section 30) portion of the compartment. While the state natural river designation ends at the Missaukee/Wexford County line, Fisheries, Forest Management, and Wildlife Divisions entered into an agreement to adopt and utilize the Upper Manistee River state natural river zoning ordinance. Manton Creek and Buttermilk Creeks, are both designated trout streams with excellent self-sustaining brown trout populations. On both of these streams, the vegetative buffer would be 100 feet on 0-10% slopes, 115 feet on 11-20% slopes, 135 feet on 21-32% slopes, and 155 feet on 33+% slopes, unless the proposed treatment meets one of the eight exceptions (page 41 of the Upper Manistee River Natural River Plan).

### Wildlife Habitat Considerations:

This compartment is a large deer wintering complex. The habitat objectives are to continue to maintain species diversity and age-class diversity across the compartment. Featured species of special interest include deer, ruffed grouse, woodcock, golden-winged warbler, and bear. Timber sale specifications to benefit wildlife (where applicable) will include brush pile creation along lowland edges, protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts. (E. Victory 6/2015)

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

Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the state. Gravel pits are located in Section 33 about two miles to the southeast, and potential is considered to be good. This area is located seven miles south of the prolific Silurian Niagaran reef trend. There appears to be limited potential for oil and gas development in the compartment, and none of the State lands are leased for oil and gas exploration and development. Active leases are located to the north and east.

## **Vehicle Access:**

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR.  
Good road access through out compartment.

## **Survey Needs:**

None at this time.

## **Recreational Facilities and Opportunities:**

There are no designated trails within this compartment. Dispersed camping and hunting occur within this compartment. (T.M.N. 12/17/14).

## **Fire Protection:**

Limited potential for large fires, although potential for some urban interface concerns where homes and cabins exist along the perimeter of the compartment.

## **Additional Compartment Information:**

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

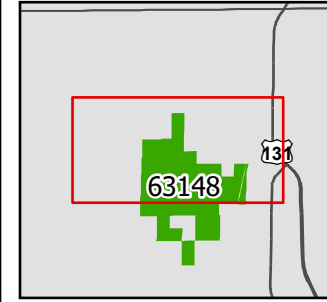
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

### **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**



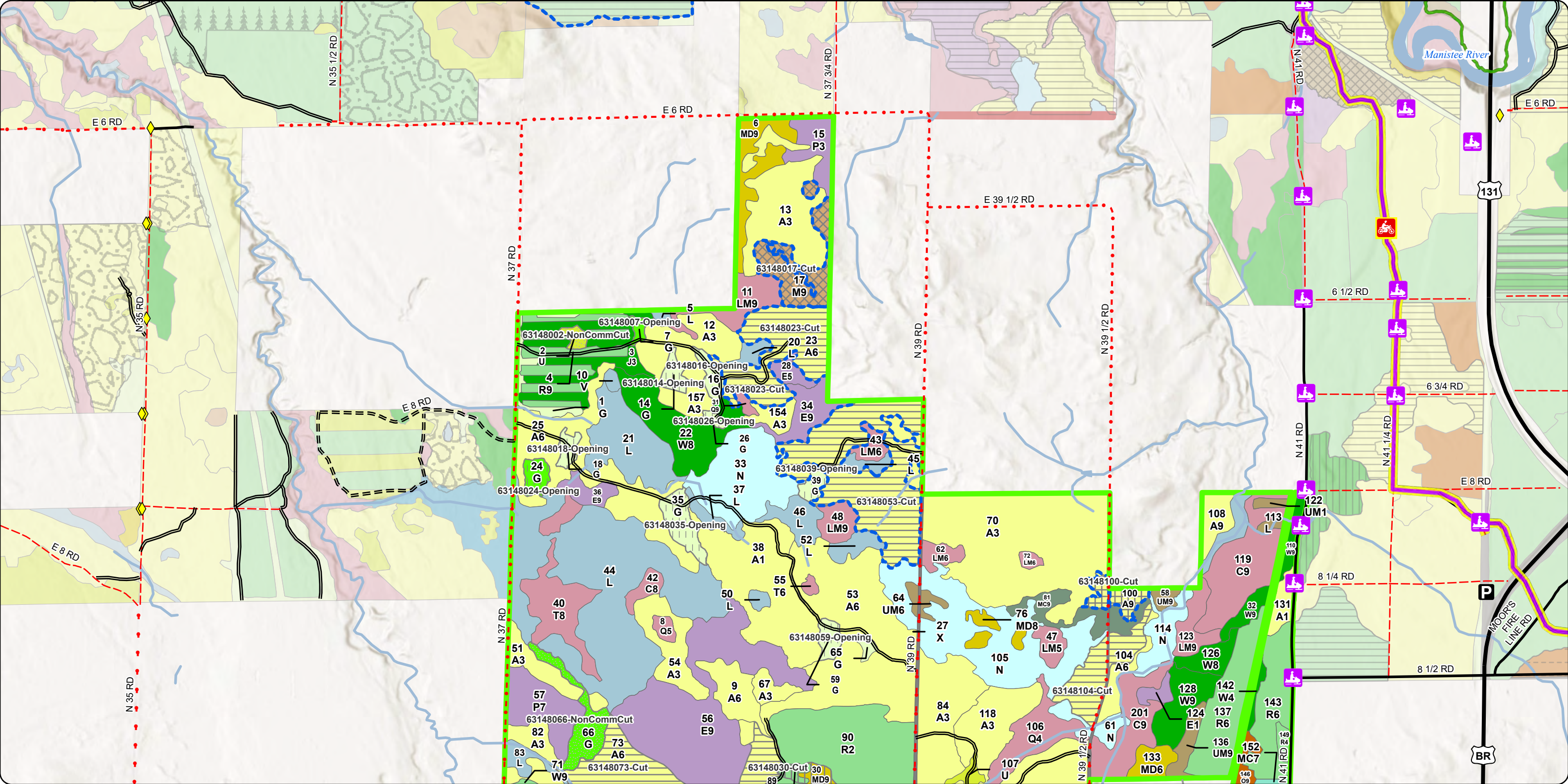
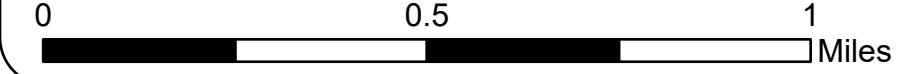
# Cover Type & Treatments Map



Compartment: 63148  
 T24N, R09W Sec. 18-20, 29-30  
 County: Wexford  
 Unit: Cadillac  
 Mgmt. Area: Kalkaska Sandy Moraines  
 YOE: 2027  
 Acres: 1,946 GIS Calculated  
 Examiner: Ben Lachman  
 Date Exported: 1/8/2026  
 Map Phase: Post Maps

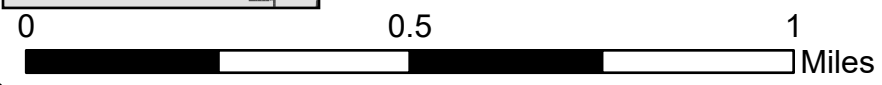
- Survey Grade Corners
- Parking Lot
- Designated MCCCT Trails
- Designated ORV Routes
- Designated Snowmobile
- Designated Hiking Pathway
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Clearcut
- Selection
- Seed Tree
- Shelterwood
- Non-Comm. Tree Cutting
- Openings Mgmt.
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen

- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 211 - Cropland
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Herbaceous Openland

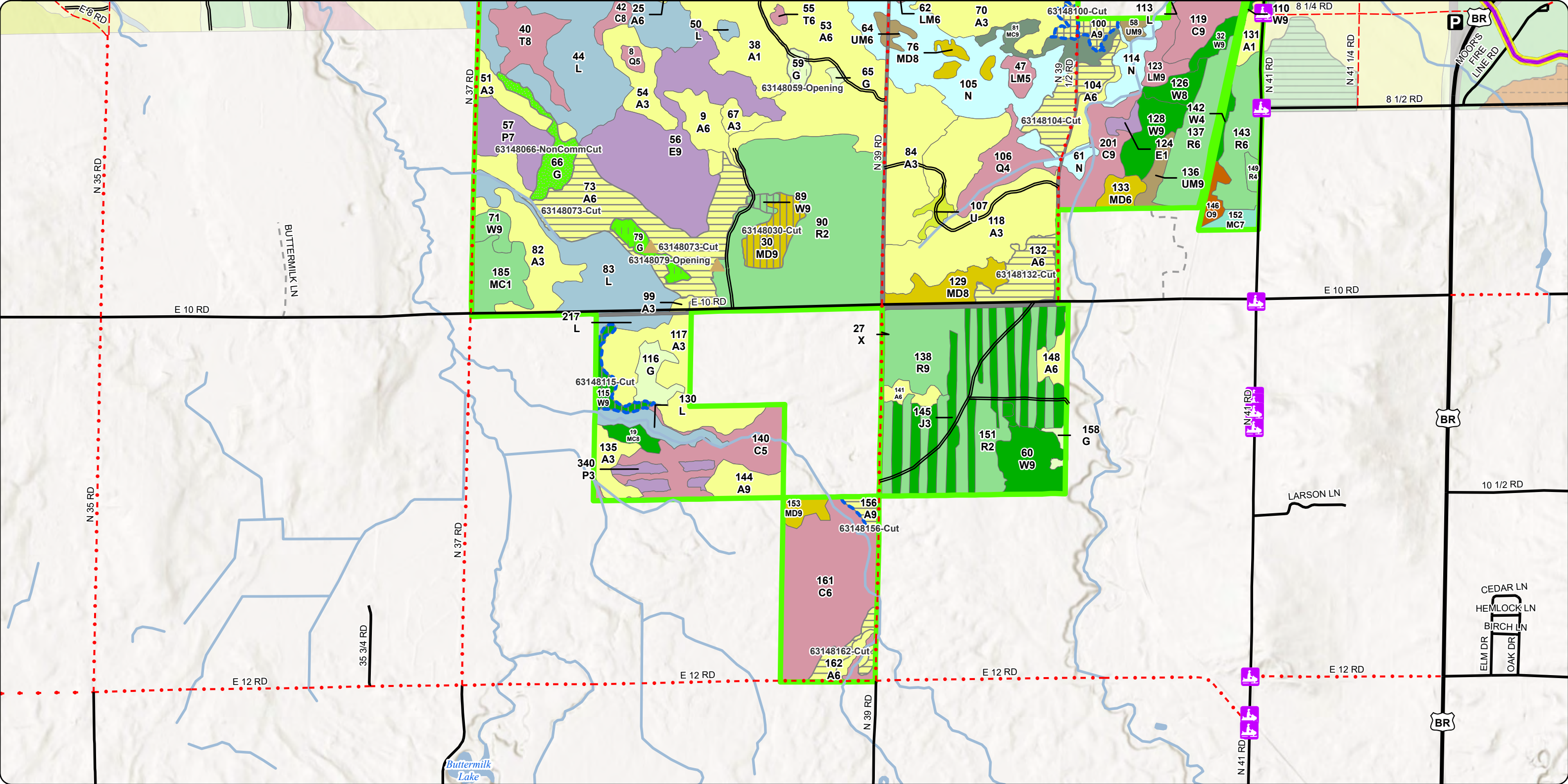


# Cover Type & Treatments Map

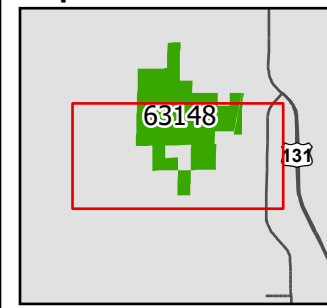
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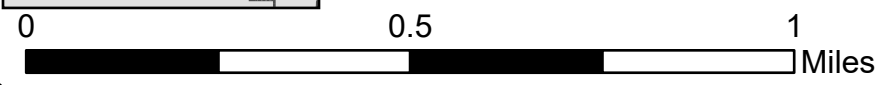
- Berm
- County - Dirt Road (Seasonal)
- Treatments with Site Conditions
- 612 - Lowland Coniferous Forest
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- Private - Dirt / Gravel Road
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**Stand Boundary Map**

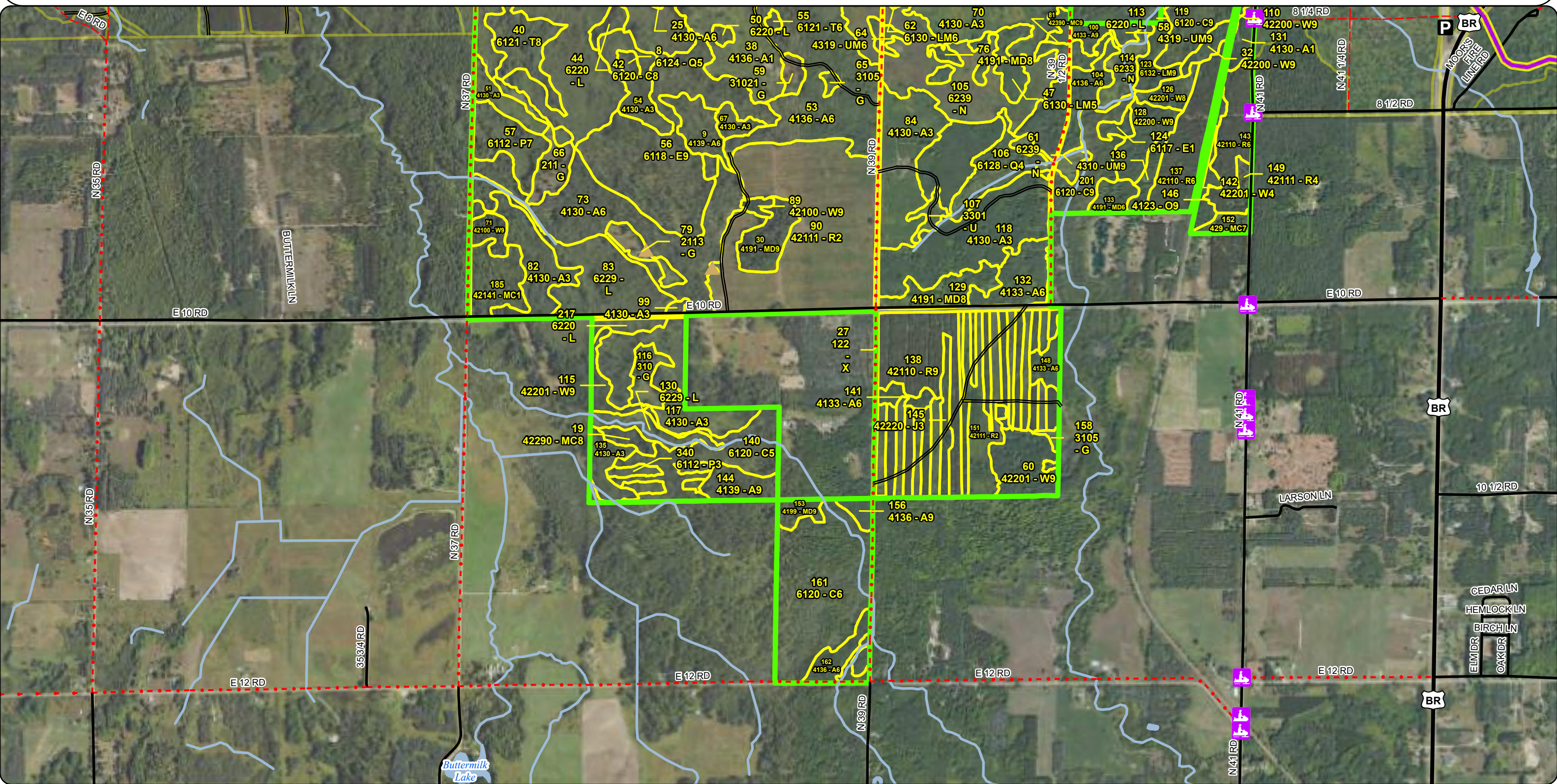


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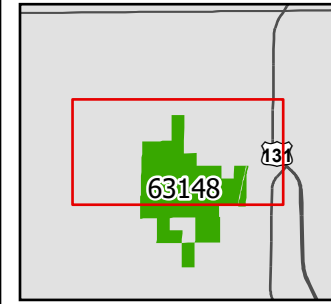


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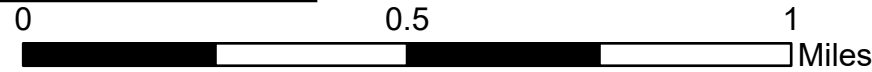
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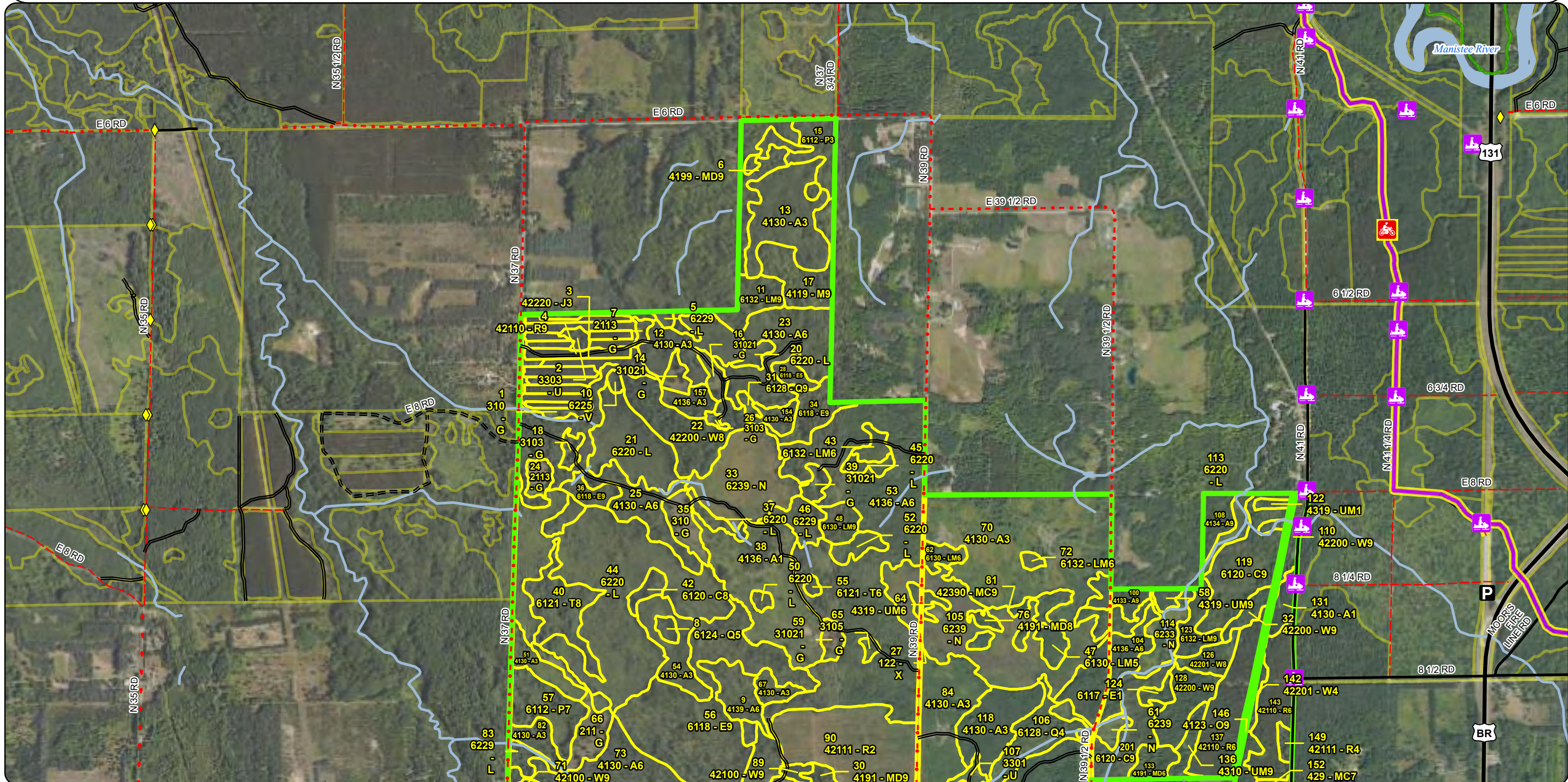
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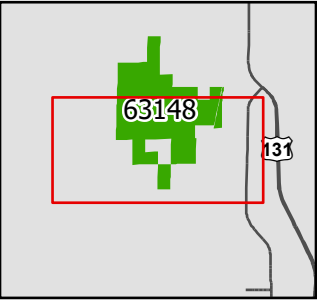
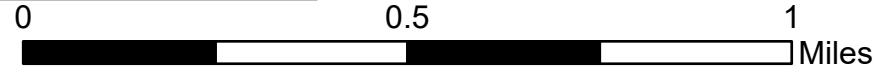


- ◆ Survey Grade Corners
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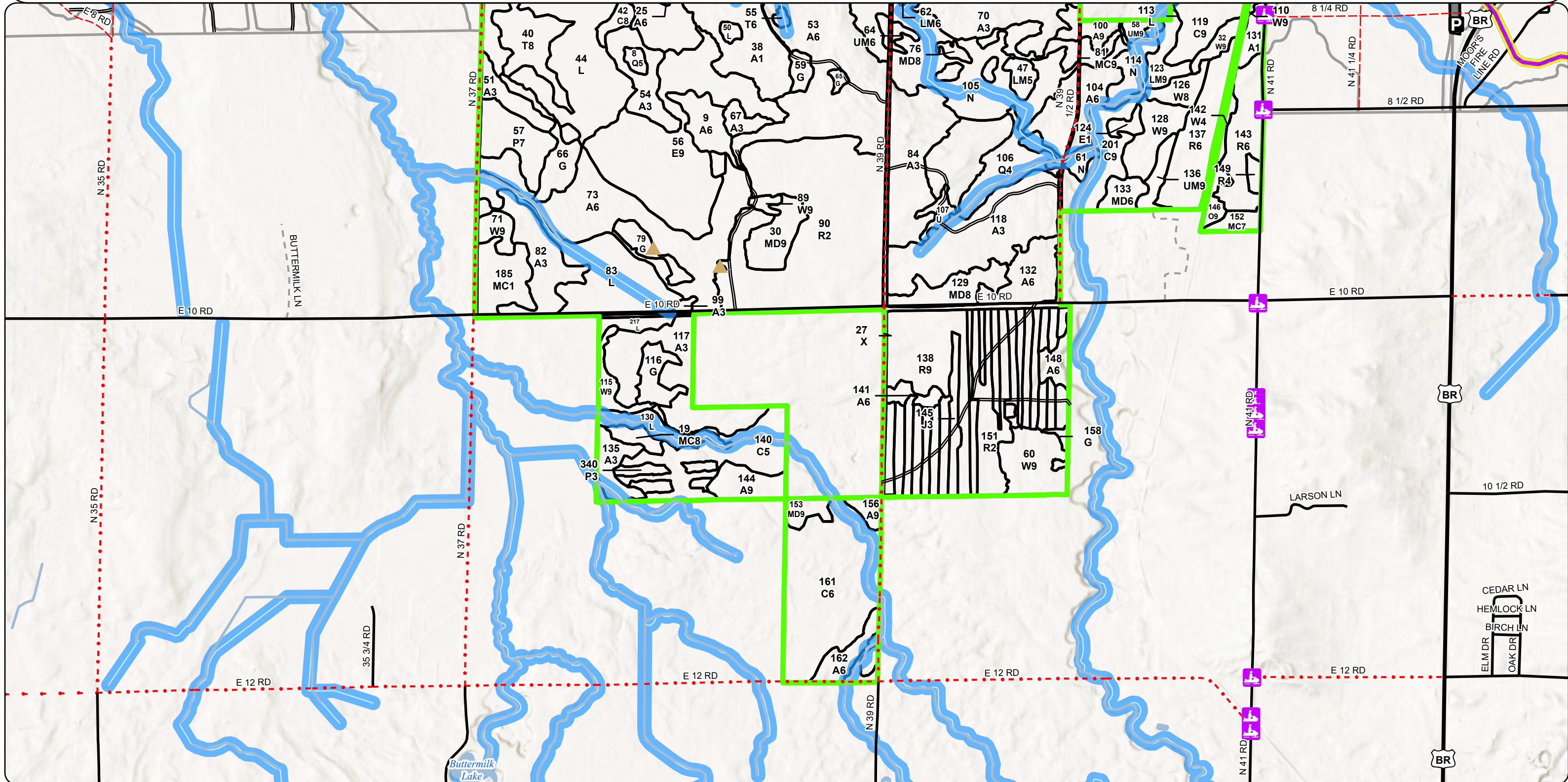


**Special Conservation Areas  
& Site Conditions Map**

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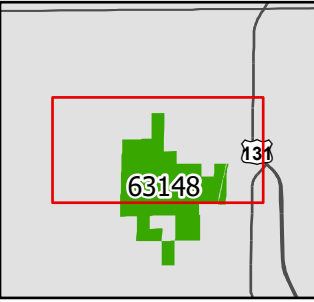
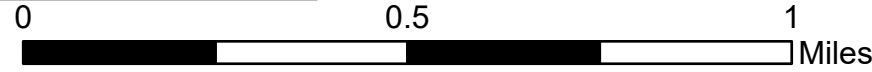


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- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Trail Head

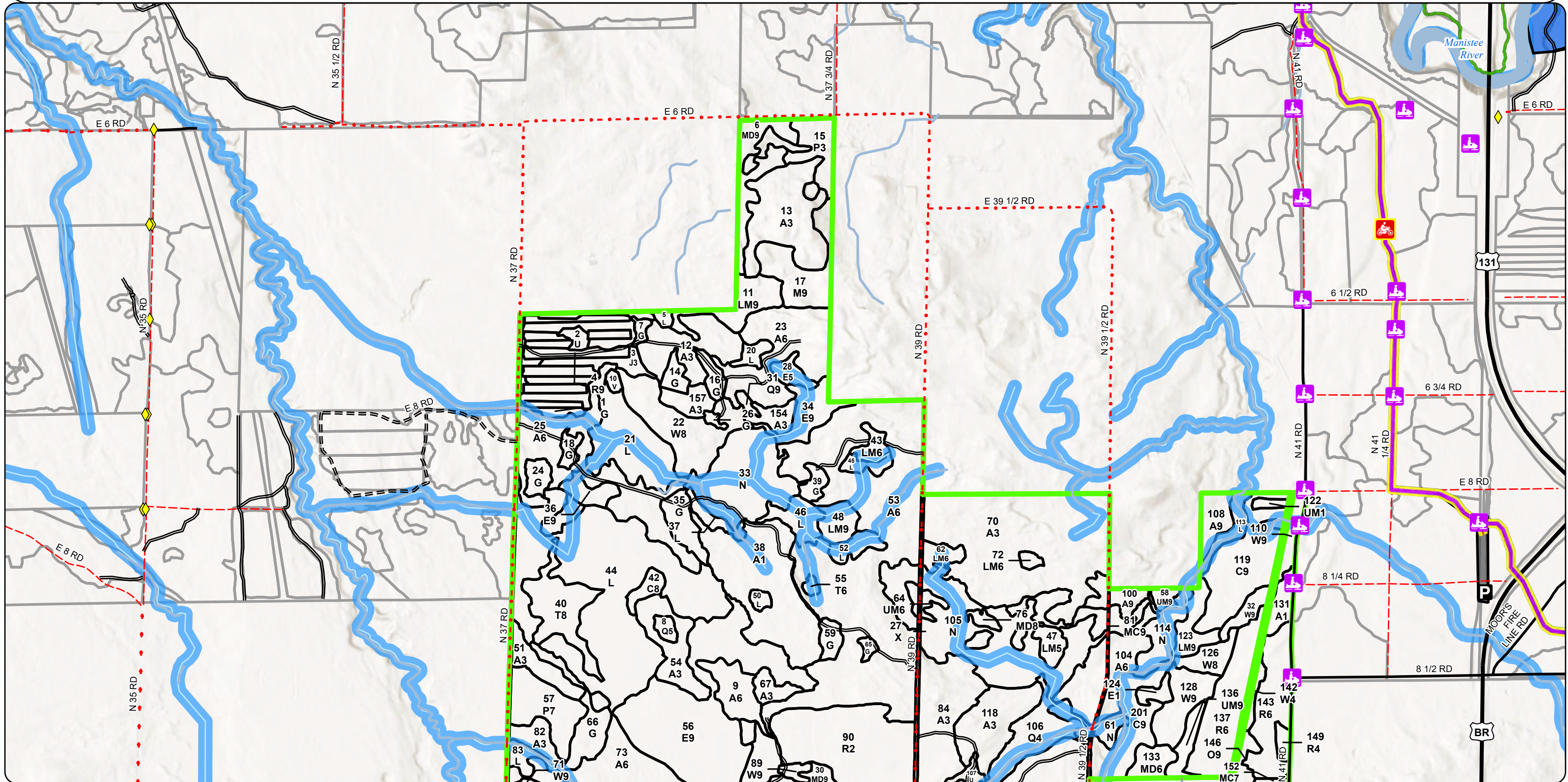


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- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Boat Access Site
- Trail Head



# Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 148 Year of Entry 2027

Ben Lachman: Examiner

## 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+	Unseen-Aged	Total
Aspen	0	193	120	14	52	6	213	89	16	0	0	0	0	0	0	0	0	10	713
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	0	118	18	0	0	0	4	0	0	140
Cropland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Jack Pine	0	0	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	6	10	0	0	0	0	16	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	2	18
Lowland Deciduous	0	0	0	0	3	0	0	0	5	10	4	0	0	0	0	0	0	67	89
Lowland Mixed Forest	0	0	0	0	0	0	1	16	0	0	0	6	0	15	0	0	0	0	38
Lowland Shrub	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	195
Marsh	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
Mixed Upland Deciduous	0	0	0	0	0	0	6	25	18	5	0	0	0	0	0	0	0	0	53
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Oak	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Planted Mixed Pines	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Red Pine	0	98	48	0	0	0	45	2	50	0	0	0	0	0	0	0	0	0	243
Tamarack	0	0	0	0	0	0	0	0	1	0	0	0	0	21	0	0	0	0	22
Upland Conifers	0	0	0	0	0	0	0	4	0	0	11	0	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	3	0	0	0	5	5	0	0	0	0	0	0	0	0	0	13
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
White Pine	0	0	0	0	0	0	0	2	7	40	24	5	0	0	0	0	0	6	84
<b>Total</b>	<b>383</b>	<b>291</b>	<b>183</b>	<b>23</b>	<b>128</b>	<b>6</b>	<b>265</b>	<b>143</b>	<b>106</b>	<b>71</b>	<b>194</b>	<b>29</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>85</b>	<b>1946</b>

## Report 2 – Treatment Summary

Cadillac Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 148  
Total Compartment Acres: 1,946

Commercial Harvest - 206  
Harvests with Site Condition - 232  
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
Aspen	178	0	0	6	14	0	0	0	0	198
Northern Hardwood	0	17	0	0	0	0	0	0	0	17
White Pine	0	0	0	0	6	0	0	0	0	6
<b>Total</b>	<b>178</b>	<b>17</b>	<b>0</b>	<b>6</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>220</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	220	0	0	0	0	0	0	0	0	268
Next Step	0	0	0	89	22	0	220	0	0	578
<b>Total</b>	<b>220</b>	<b>0</b>	<b>0</b>	<b>89</b>	<b>22</b>	<b>0</b>	<b>220</b>	<b>0</b>	<b>0</b>	<b>846</b>

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>2</b>	<b>63148002- NonCommCut</b>	2.0	3303 - Mixed Low Density Trees	99			Non-Comm. Tree Cutting	Non-Comm. Tree Cutting	330 - Low- Density Trees	Previous Inventory	No
<p><u>Prescription</u> Cut some trees to maintain U type. Release apple trees.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>											
<b>7</b>	<b>63148007- Opening</b>	1.5	2113 - Forage Crops	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u> Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt., Mowing; Openings Mgmt.,  <u>Treatments:</u> Interseeding; Openings Mgmt., Disking/Plowing; Openings Mgmt., Herbicide; Openings Mgmt., Brush Mgmt.  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>											
<b>14</b>	<b>63148014- Opening</b>	3.2	31021 - Cool Season Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u> Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt., Mowing; Openings Mgmt.,  <u>Treatments:</u> Interseeding; Openings Mgmt., Disking/Plowing; Openings Mgmt., Herbicide; Openings Mgmt., Brush Mgmt.  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>16 63148016-Opening</b>	3.5	31021 - Cool Season Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u> Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt., Mowing; Openings Mgmt.,  <u>Treatments:</u> Interseeding; Openings Mgmt., Disking/Plowing; Openings Mgmt., Herbicide; Openings Mgmt., Brush Mgmt.  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>17 63148017-Cut</b>	16.5	4119 - Mixed Northern Hardwoods	9	93	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Group Selection - Mark to cut, target residual BA of 70-90. - Establish gaps in 10 - 20% of the stand with a minimum radius of 150' in  <u>Specs:</u> diameter (drip line to drip line)  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> A mix of sugar maple, red maple, basswood, paper birch, yellow birch and aspen in varying densities in established regen gaps.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u> Survey Needed  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>18 63148018-Opening</b>	2.5	3103 - Rubus-Fern	99			Openings Mgmt.	Openings Mgmt.	3102 - Grass	Previous Inventory	No
<p><u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u> Openings Mgmt., Brush Mgmt.; Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt.,  <u>Treatments:</u> Mowing; Openings Mgmt., Interseeding; Openings Mgmt., Disking/Plowing; Openings Mgmt., Herbicide  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>23 63148023-Cut</b>	30.6	4130 - Aspen	6	62	Unspecified	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Clearcut with retention- Cut all species 2 inch and larger except: birch, cedar, hemlock, and white pine 18 inches and greater in DBH.-  <u>Specs:</u> Pocket retention capturing red oak, white oak, and other species. Protect retained oaks by leaving non-oak buffer t  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Moderate or better stocking of aspen with components of red maple, sugar maple, red oak, white oak, paper birch, and yellow birch.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u> Survey Needed  <u>Proposed Start Date:</u> 10/01/2026</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>24 63148024-Opening</b>	3.7	2113 - Forage Crops	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u> Openings Mgmt., Brush Mgmt.; Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt.,  <u>Treatments:</u> Mowing; Openings Mgmt., Interseeding; Openings Mgmt., Disking/Plowing; Openings Mgmt., Herbicide  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>26 63148026-Opening</b>	1.0	3103 - Rubus-Fern	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>73 63148030-Cut</b>	13.9	4130 - Aspen	6	56	111-140	Harvest	Shelterwood	4220 - Natural White Pine	Cutting Record	No
<p><u>Prescription</u> Shelterwood- Mark to leave, target residual BA 30-50. - Mark for species diversity but favor leaving white pine where present. -  <u>Specs:</u> Include white pine regeneration protection spec.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Moderate or better stocking of white pine, aspen, and red maple.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>35 63148035-Opening</b>	7.4	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u> Openings Mgmt., Brush Mgmt.; Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt.,  <u>Treatments:</u> Mowing; Burn, Opening; Openings Mgmt., Interseeding; Openings Mgmt., Disking/Plowing; Burn, Opening; Openings Mgmt., He  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>39 63148039-Opening</b>	3.1	31021 - Cool Season Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u> Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt., Mowing; Openings Mgmt.,  <u>Treatments:</u> Interseeding; Openings Mgmt., Disking/Plowing; Openings Mgmt., Herbicide; Openings Mgmt., Brush Mgmt.  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>53 63148053-Cut</b>	54.4	4136 - Aspen, Mixed Conifer	6	59	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Clearcut with group retention- Cut all species 2 inch and larger except: paper birch, hemlock, cedar, and white pine 18 inches and greater  <u>Specs:</u> in DBH. - Pocket retention capturing white and red oak. Protect retained oaks by leaving non-oak buffer trees aro  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Moderate or better stocking of aspen with components of oak, black cherry, paper birch, and red maple and white pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u> Survey Needed  <u>Proposed Start Date:</u> 10/01/2026</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>59 63148059-Opening</b>	3.4	31021 - Cool Season Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u> Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt., Mowing; Burn, Opening; Openings  <u>Treatments:</u> Mgmt., Interseeding; Openings Mgmt., Disking/Plowing; Burn, Opening; Openings Mgmt., Herbicide; Openings Mgmt., Brus  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>66 63148066-NonCommCut</b>	10.4	211 - Cropland	99			Non-Comm. Tree Cutting	Non-Comm. Tree Cutting	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Cut trees and brush leaving a few trees. Long term plan includes, herbicide, tillage, mowing, planting.  <u>Specs:</u>  <u>Next Step</u> Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt., Mowing; Openings Mgmt.,  <u>Treatments:</u> Disking/Plowing; Openings Mgmt., Interseeding  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 02/01/2026</p>										
<b>73 63148073-Cut</b>	52.4	4130 - Aspen	6	56	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Clearcut with retention- Cut all species 2 inch and larger except: cedar and hemlock.- Pocket retention 3-6%- Include Grouse Spec.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Moderate or better stocking of aspen with components of red maple, black cherry, and white oak.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>79 63148079-Opening</b>	6.0	2113 - Forage Crops	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.										
<u>Specs:</u>										
<u>Next Step</u> NonCommCut, Other - Specify; Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt.,										
<u>Treatments:</u> Mowing; Openings Mgmt., Interseeding; Openings Mgmt., Disking/Plowing; Openings Mgmt., Herbicide										
<u>Acceptable</u>										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
<b>100 63148100-Cut</b>	6.4	4133 - Aspen, Mixed Pine	9	63	111-140	Harvest	Seed Tree	4133 - Aspen, Mixed Pine	Cutting Record	No
<u>Prescription</u> Seed Tree- Cut all species 2 inch and larger except: hemlock, cedar, black cherry, and birch. - Mark to leave white pine to an average										
<u>Specs:</u> residual BA of 10- 20. - Include dead & down creation: Hare, Grouse, Deer spec.- Recommend cutting in dry summer/ f										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Moderate or better stocking of aspen with components of white pine, red maple, paper birch, and black cherry.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition:</u> Survey Needed										
<u>Proposed Start Date:</u> 10/01/2026										
<b>104 63148104-Cut</b>	15.7	4136 - Aspen, Mixed Conifer	6	59	51-80	Harvest	Clearcut	413 - Aspen	Cutting Record	No
<u>Prescription</u> Clearcut with retention- Cut all species 2 inch and larger except: birch, hemlock, cedar, and white pine 18 inches and greater DBH-										
<u>Specs:</u> Pocket retention 3-6%.- Recommend cutting in dry summer/ frozen winter.- Include dead & down creation: Hare, Grouse, D										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Moderate or better stocking of aspen with components of white pine, red maple, birch, oak, and cherry.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
<b>115 63148115-Cut</b>	5.6	42201 - Natural White Pine, Mixed Deciduous	9	81	171-200	Harvest	Shelterwood	4220 - Natural White Pine	Cutting Record	No
<u>Prescription</u> Extended Irregular Shelterwood- Mark to cut, target residual BA of 20. - Follow natural pine guidance.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Moderate of better stocking or white pine with components of red maple, quaking aspen, and oak spp.										
<u>Regen:</u>										
<u>Other</u> Access stand through private to the east. See stand data										
<u>Comment:</u>										
<u>Site Condition:</u> Survey Needed										
<u>Proposed Start Date:</u> 10/01/2026										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>132 63148132-Cut</b>	15.0	4133 - Aspen, Mixed Pine	6	66	51-80	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u>										
<u>Specs:</u> Clearcut with retention.- Cut all species 2 inch and larger except: white pine and sugar maple 18 inches and greater.- Pocket retention of 3 to 10% capturing white and red oak. Protect retained oaks by leaving non-oak buffer trees around bowl and crow										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> Moderate or better stocking of aspen with components of white pine, red and white oak, and red maple.										
<u>Other Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
<b>156 63148156-Cut</b>	3.3	4136 - Aspen, Mixed Conifer	9	58	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u>										
<u>Specs:</u> Clearcut no retention - Cut all species 2 inch and larger except: paper birch, cedar and hemlock.- Buffer Creek 100ft. Current treatment reflects this buffer. - Actual treatment will reflect on the ground conditions and acreage may vary from original										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> Moderate or better stocking of aspen and red maple with components of white pine, paper birch, hemlock, and cedar.										
<u>Other Comment:</u>										
<u>Site Condition:</u> Survey Needed										
<u>Proposed Start Date:</u> 10/01/2026										
<b>162 63148162-Cut</b>	6.2	4136 - Aspen, Mixed Conifer	6	57	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u>										
<u>Specs:</u> Clearcut - Cut all species 2 inch and larger except: cedar, hemlock, paper birch. - Mark to leave an average 3 to 5 white pines (18 inches +) per acre, where present. - Include dry summer/ frozen winter spec.- Actual treatment will reflect on the gro										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> Moderate or better stocking of aspen and red maple with components of white pine, paper birch, hemlock, and balsam fir.										
<u>Other Comment:</u> Buffer stream per BMP manual. Treatment outline currently reflects this buffer.										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										

**Total Treatment** 267.7  
**Acreage Proposed:**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ben Lachman: Examiner

Compartment: 148  
Year of Entry: 2027

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2I	5C	2A	2G	2H	3J
688	454	<b>211</b>	24	Aspen	<b>95</b>	<b>116</b>	7	3	10	5
1	1	<b>0</b>	0	Bog						
139	30	<b>0</b>	110	Cedar				61		48
22	22	<b>0</b>	0	Cropland						
40	40	<b>0</b>	0	Herbaceous Openland						
63	63	<b>0</b>	0	Jack Pine						
6	6	<b>0</b>	0	Low-Density Trees						
32	16	<b>0</b>	16	Lowland Aspen/Balsam Poplar				16		
18	17	<b>0</b>	1	Lowland Conifers				1		
88	21	<b>0</b>	67	Lowland Deciduous				67		
38	21	<b>0</b>	17	Lowland Mixed Forest				17		
195	195	<b>0</b>	0	Lowland Shrub						
97	97	<b>0</b>	0	Marsh						
53	24	<b>16</b>	13	Mixed Upland Deciduous		<b>16</b>		4	9	
4	4	<b>0</b>	0	Natural Mixed Pines						
18	0	<b>17</b>	1	Northern Hardwood	<b>17</b>			1		
4	4	<b>0</b>	0	Oak						
15	15	<b>0</b>	0	Planted Mixed Pines						
243	243	<b>0</b>	0	Red Pine						
22	1	<b>0</b>	21	Tamarack				21		
15	15	<b>0</b>	0	Upland Conifers						
13	6	<b>5</b>	2	Upland Mixed Forest		<b>5</b>				2
22	22	<b>0</b>	0	Urban						
85	80	<b>6</b>	0	White Pine	<b>6</b>					
1,920	1,394	<b>254</b>	273	Total Forested Acres	<b>117</b>	<b>137</b>	7	192	19	56
	73%	<b>13%</b>	14%	Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified

## Report 4 – Site Conditions

Cadillac Mgt. Unit

Ben Lachman: Examiner

Compartment: 148

Year of Entry: 2027

<p><b>Comments:</b> Not worth all the work with temp bridge to access. Access from private would require temp bridge on private as well as permission. Not worth pursuing in my judgment, if stand was much larger may be worth the effort to cross streams to get I there.</p>							
2	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Similar to stand to north and west, major effort with temp bridge and crossing major stream will be needed. In my judgment not worth going to that length for less than 5 acres.</p>							
3	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	30	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Steams run through stand, as well as not being able to regenerate cedar with deer numbers. Not to mention need for temp bridge.</p>							
4	<b>Unavailable</b>	<b>2A: Adjacent landowner denied access</b>	6	2J: Blocked by railroad	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
5	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
6	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	18	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Cedar stand buffering Manton Creek. Too wet as well.</p>							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Ben Lachman: Examiner**

**Compartment: 148**  
**Year of Entry: 2027**

7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delay treatment to allow aspen to fully enter the log class.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	67	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	2A: Adjacent landowner denied access	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ben Lachman: Examiner

Compartment: 148  
Year of Entry: 2027

12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	61	3J: Water quality/BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
<b>Comments:</b> Not suitable for commercial management between regeneration concerns with cedar, streams and general wet nature.							
14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Low wet pockets containing cedar in hemlock and ephemeral ponds							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ben Lachman: Examiner

Compartment: 148  
Year of Entry: 2027

17	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 300 foot buffer for Manton Creek RMZ							
19	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manton Creek is a high priority trout stream, maintain 300 buffer per BMPs.							
22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ben Lachman: Examiner

Compartment: 148  
Year of Entry: 2027

23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
Ben Lachman: Examiner

Compartment: 148  
Year of Entry: 2027

29	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	2I: Survey needed	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	2I: Survey needed	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Ben Lachman: Examiner**

**Compartment: 148**  
**Year of Entry: 2027**

36	<b>Available</b>	<b>2I: Survey needed</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	<b>Available</b>	<b>2I: Survey needed</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	<b>Available</b>	<b>2I: Survey needed</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:

**Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS**

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

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SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
1	310 - Herbaceous Openland	None	5.4			No	Unmanaged opening filling in with natural pine along the edges. Vacant area between red pine stand adjacent cover types and road																																												
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2	3303 - Mixed Low Density Trees	None	2.0			Yes	Small opening in the middle of pine plantation. Apple trees present, filling in with low quantities of jack pine.																																												
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3	42220 - Natural Jack Pine	Sapling Well	19.4	30	Immature	N/A	Old jack pine strips final harvested in 1996. Attempted to be planted to red pine, but was taken over by jack pine natural regen. Evaluate red pine success next YEO.																																												
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4	42110 - Planted Red Pine	Sawtimber Well	17.6	70	111-140	N/A	Stand was third row thinned in 1996 and marked second thinning in 2010. Stand was thinned in 2017, short wood operation. Good quality red pine, crowns look healthy and trees will add girth before final harvest in 2037 YOE.																																												
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5	6229 - Mixed Lowland Shrub	None	1.2			No																																													
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6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	14.1	79	81-110	N/A	Stand is well mixed with the dominant species being red maple and aspen. There are low areas mixed throughout that contain hemlock, cedar, yellow birch, balsam fir, and red maple. The northern portion of the stand while containing two low areas is more upland and contains larger diameters of red maple, sugar maple, red oak, and big tooth. The southern finger of the stand contains multiple low, vernal pools and does not support current harvest methods. Note: Likely trespass on the western private line. Corners have been requested to run line in March 2025.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
7	2113 - Forage Crops	None	1.5			Yes	Managed opening recently planted to rye in 2014. Scattered white pine, jack pine, and cherry.																																																															
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8	6124 - Lowland Spruce-Fir	Poletimber Medium	2.0	66	1-50	N/A	Lowland conifer bog with spruce, fir, and tamarack around the edge.																																																															
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9	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.4	56	51-80	N/A	10 acre pocket of aspen mixed with red maple, cherry, paper birch and cedar in pockets and around the edge. Very hummocky ground with some lowland character although not a lowland stand overall. Moderate quality.																																																															
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10	6225 - Bog	None	1.2			No																																																																
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11	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	11.2	121	Unspecified	N/A	Low stand at the toe of a slope, composed of Cedar, balsam fir, paper birch, and white pine. Pockets of aspen and red maple are dispersed throughout.																																																															
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12	4130 - Aspen	Sapling Well	19.2	30	Immature	N/A	Stand was final harvested in 1996 (Finger Forty Aspen), oak and conifer were left. Some low edges came back to grass, but overall well stocked regeneration. Mostly upland with a few wet pockets.																																							
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14	31021 - Cool Season Grass	None	3.2			Yes	Managed wildlife opening.																																							
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15	6112 - Lowland Aspen	Sapling Well	9.8	30	Immature	N/A	Wet with some upland portions. Stand was harvested in 1996 - Finger Forty Aspen, Specs: cut all trees except evergreens. Stand is composed primarily of aspen with other lowland species present.																																							
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16	31021 - Cool Season Grass	None	3.5			Yes	Managed wildlife opening.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
17	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.4	93	111-140	N/A	Stand has a healthy diversity of hard and soft maple, basswood, x-log quaking, yellow and paper birch, beech, and hemlock and cedar in lower pockets. BA average is 112 BA. Sugar maple regen is low to trace. Higher quantity of Sugar Maples is dispersed throughout but has a larger presence in the southern portion of the stand. North east finger of stand was thinned in 1996 with Fingered Forty Aspen Sale.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	40	Log	16	93	Sugar Maple	Low		< 5 feet	< 5 feet
Red Maple	20	Log/Pole	14		Red Maple	Medium		Variable	Variable
Basswood	5	Log/XLog	14		Yellow Birch	Low		5 - 10 feet	5 - 10 feet
Beech	5	Log	16		Ironwood	Medium		Variable	Variable
Paper Birch	12	Log/Pole	13		Witch Hazel	Low		Variable	Variable
Bigtooth Aspen	10	Log	14		Beech	Low		5 - 10 feet	5 - 10 feet
Northern White Cedar	4	Log/Pole	11		Northern White Cedar	Low		Variable	Variable
Hemlock	4	Log/Pole	12		Hemlock	Low		Variable	Variable
18	3103 - Rubus-Fern	None	2.5			No		Good young aspen coming in around the edges - nice transition area for wildlife.	
Sub-Canopy Species	Density	Avg. Height	Size						
Spotted Knapweed	Trace	Not Applicable	Not Applicable						
Cherry (spp.)	Trace	>20 feet	>20 feet						
Red Maple	Trace	>20 feet	>20 feet						
Bracken Fern	High	Not Applicable	Not Applicable						
Aspen (spp.)	Low	Variable	Variable						
19	42290 - Natural Mixed Pine	Sawtimber Medium	3.9	96	1-50	N/A	Small natural red and white pine stand. Semi open stand with open grown natural pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	10	Pole	8		White Pine	Medium		Variable	Variable
Balsam Fir	10	Pole	8		Balsam Fir	Low		Variable	Variable
White Pine	50	Log/Pole	11	96					
Red Pine	30	Log	12						
20	6220 - Alder/Willow	None	2.8			No	Lowland shrub, with scattered lowland trees.		
Sub-Canopy Species	Density	Avg. Height	Size						
Tag Alder	Medium	5 - 10 feet	5 - 10 feet						
White Pine	Low	>20 feet	>20 feet						
Northern White Cedar	Low	>20 feet	>20 feet						
Balsam Fir	Low	Variable	Variable						
21	6220 - Alder/Willow	None	24.0			No	Alder lowland with a few balsam and cedar scattered along north and north east edge.		
Sub-Canopy Species	Density	Avg. Height	Size						
Alder	Medium	5 - 10 feet	5 - 10 feet						
Balsam Fir	Low	10 - 20 feet	10 - 20 feet						
Willow spp.	Medium	5 - 10 feet	5 - 10 feet						
Northern White Cedar	Low	10 - 20 feet	10 - 20 feet						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
22	42200 - Natural White Pine	Sawtimber Medium	24.4	96	111-140	N/A	Pine was thinned in 2008 (Liberty 18, 63-055-07-01), all balsam fir and aspen cut as well. Where pine was opened up there is a good flush of aspen and white pine regeneration. In other spots where over story pine is thicker there is limited understory.																																																												
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23	4130 - Aspen	Poletimber Well	30.6	62	Unspecified	N/A	Aspen stand, some lowland characteristic on the edges. Light mix of pine and oak throughout. Log sized Beech is present but has BBD.  Stand is dominated by a mix of Bigtooth and Quaking aspen. Red maple, paper birch, white pine, balsam fir, and red oak are also present in the canopy.																																																												
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24	2113 - Forage Crops	None	3.7			Yes	Gated opening which was tilled and planted to rye in fall 2014 by wildlife division. Opening had not been planted prior.																																																												
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25	4130 - Aspen	Poletimber Well	37.1	62	51-80	N/A	Aspen dominated stand, with pine concentrated to the west border (heavy white pine regen). Rough two track access through most of stand, with a few mud holes and wet areas as road goes to east.  Openings throughout but aspen is 120-150 BA where present.																																																												
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27	122 - Road/Parking Lot	None	21.7			No	Roads/ right of ways throughout the compartment.																																																												

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28	6118 - Lowland Deciduous with Cedar	Poletimber Medium	3.5	99	Unspecified	N/A	Low wetter pocket with a good mix of species. Too wet to facilitate final harvest.																																																																							
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30	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.9	66	51-80	N/A	Stand is composed of white pine and red maple log, with low quantities of black cherry pole/log. Pockets of dense white pine log exist throughout the stand with red maple evenly distributed. The subcanopy is dominated by aspen saplings approximately 2 to 3 inches in diameter. Low quantity of white oak and black cherry are throughout the subcanopy. Stand was cut in 2008 - 148 Pine mix #63-049-07-01. At that time stand was typed out as a Maple stand. Specs: Leave tree marked. Cut all species except red maple marked with green paint, do not cut white pine, cherry, oak.																																																																							
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31	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	1.3	96	Unspecified	N/A	Small lowland conifer pocket.																																																																							
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32	42200 - Natural White Pine	Sawtimber Well	4.2	86	141-170	N/A	White pine (log) dominated stand with average BA or approximately 170 sq/ft. On the cusp of meet silvicultural criteria. Lacks understory regeneration.																																																																							
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33	6239 - Mixed Emergent Wetland	None	30.3			No	Standing water in western portion of stand. The rest is emergent wetland.																																																																							
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<b>34</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Well	10.0	88	51-80	N/A	Stand is composed of red maple, quaking aspen, paper birch (log size in some cases), and northern white cedar. Areas that are low and wet have ash regen and the occasional elm and yellow birch.			
							Subcanopy is primarily balsam with low quantities of white pine.			
							Stand is too low/wet			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		30	Log/Pole	12	88	Bracken Fern		Low	Not Applicable	Not Applicable
Paper Birch		15	Log/Pole	10		White Pine		Medium	< 5 feet	< 5 feet
Quaking Aspen		25	Log/Pole	12		Black Ash		Low	< 5 feet	< 5 feet
Balsam Fir		10	Pole	7		White Oak		Trace	< 5 feet	< 5 feet
Northern White Cedar		20	Log/Pole	10		Balsam Fir		Medium	Variable	Variable
						Beech		Low	10 - 20 feet	10 - 20 feet
						Northern White Cedar		High	>20 feet	>20 feet
<b>35</b>	310 - Herbaceous Openland	None	7.4			Yes	Managed opening with dispersed white pine and cherry.			
Sub-Canopy Species		Density	Avg. Height	Size						
White Pine		Trace	>20 feet	>20 feet						
Red Maple		Trace	>20 feet	>20 feet						
Bracken Fern		Medium	Not Applicable	Not Applicable						
Little Bluestem		Low	Not Applicable	Not Applicable						
Spotted Knapweed		Medium	Not Applicable	Not Applicable						
Cherry (spp.)		Trace	>20 feet	>20 feet						
Rye (annual)		High	Not Applicable	Not Applicable						
<b>36</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Well	5.0	76	51-80	N/A	Smaller stand of maple, cedar and aspen. Mostly lowland with cedar overtopped with aspen and red maple.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		50	Log/Pole	12	76	Balsam Fir		Medium	Variable	Variable
Quaking Aspen		20	Log/Pole	10						
Northern White Cedar		30	Log/Pole	10						
<b>37</b>	6220 - Alder/Willow	None	3.5			No	Transitional stand between emergent wetland and aspen. Mixed aspen and pine in low to trace quantities.			
Sub-Canopy Species		Density	Avg. Height	Size						
Paper Birch		Low	>20 feet	>20 feet						
White Pine		Low	>20 feet	>20 feet						
Nannyberry		Low	5 - 10 feet	5 - 10 feet						
Dogwood (spp.)		Medium	5 - 10 feet	5 - 10 feet						
Aspen (spp.)		Low	>20 feet	>20 feet						
Willow spp.		Medium	Variable	Variable						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**38** 4136 - Aspen, Mixed Conifer Sapling Poor 43.1 8 Immature N/A

Aspen stand was final harvested in 2019 (million dollar road aspen, #63-014-17) cut all 2" and more leave all red pine, white pine, hemlock, and cedar. Small less than 1 acre pocket was too wet to cut was left, was agreed to by forester and producer at time of sale. Sale was chipped.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Sapling	1	
Red Oak	3	Sapling	1	
Quaking Aspen	72	Sapling	1	8
Balsam Fir	10	Sapling	1	
Northern White Cedar	2	Pole/Log	9	
White Pine	9	Log/Pole	12	
Black Cherry	2	Sapling	1	

**39** 31021 - Cool Season Grass None 3.1 Yes Managed wildlife opening.

Sub-Canopy Species	Density	Avg. Height	Size
Rye (annual)	Full	Not Applicable	Not Applicable

**40** 6121 - Tamarack Sawtimber Medium 20.9 127 1-50 N/A Isolated band of tamarack, surrounded by lowland tag alder.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	9		Tag Alder	Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen	5	Log/Pole	10		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Tamarack	90	Log/Pole	12	127				

**42** 6120 - Lowland Cedar Sawtimber Medium 3.5 146 51-80 N/A Lowland cedar pocket.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Tag Alder	Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen	20	Log/Pole	10					
Northern White Cedar	60	Log/Pole	11	146				
Black Ash	15	Pole/Log	9					

**43** 6132 - Mixed Lowland Forest with Cedar Poletimber Well 3.5 122 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	8		Balsam Fir	Low	Variable	Variable
Paper Birch	3	Pole	7					
Quaking Aspen	30	Pole	7					
Balsam Fir	5	Pole	7					
Northern White Cedar	45	Log/Pole	10	122				
Black Ash	2	Pole	8					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44	6220 - Alder/Willow	None	94.5			No	Large lowland alder stand, with scattered tamarack, cedar, aspen and fir.... All too scattered to constitute a forested stand.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Paper Birch	Low	>20 feet	>20 feet
								Alder	High	5 - 10 feet	5 - 10 feet
								Northern White Cedar	Low	Variable	Variable
								Aspen (spp.)	Trace	>20 feet	>20 feet
Tamarack	Low	>20 feet	>20 feet								

45	6220 - Alder/Willow	None	3.0			No	Low pocket of alder and willow with red maple poles dispersed throughout. Too wet for operations.				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Spruce	Low	>20 feet	>20 feet
								Red Maple	Trace	Variable	Variable
Alder	High	5 - 10 feet	5 - 10 feet								

46	6229 - Mixed Lowland Shrub	None	7.2			No					
								Sub-Canopy Species	Density	Avg. Height	Size
								Northern White Cedar	Low	Variable	Variable
Alder	Medium	5 - 10 feet	5 - 10 feet								
Paper Birch	Low	>20 feet	>20 feet								

47	6130 - Fir, Aspen, Maple	Poletimber Medium	4.2	66	51-80	N/A	Stand is dominated by aspen with components of fir, white pine, cedar, hemlock and red maple. Lowland edges with higher ground in the center. Harvest potential is there however access to the stand is difficult and would need to be done in a frozen winter.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	5	Pole	8		Cattail spp.	High	Not Applicable	Not Applicable
								Quaking Aspen	50	Pole/Log	9	66	White Pine	Medium	>20 feet	>20 feet
								Balsam Fir	20	Sapling/Pole	4		Red Maple	Medium	>20 feet	>20 feet
								Northern White Cedar	10	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
								White Pine	10	Log	10					
								Hemlock	5	Log/Pole	11					

48	6130 - Fir, Aspen, Maple	Sawtimber Well	5.9	106	51-80	N/A	Lowland mixed stand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								American Elm	2	Pole	8		Balsam Fir	High	Variable	Variable
								Red Maple	30	Log	14	106	Northern White Cedar	Low	Variable	Variable
								Paper Birch	3	Pole	7					
								Quaking Aspen	20	Log/XLog	15					
								Balsam Fir	25	Pole/Log	9					
								Northern White Cedar	10	Log/Pole	11					
Hemlock	10	Log/Pole	12													

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
50	6220 - Alder/Willow	None	1.5			No	Small pocket was too wet to cut and was left from a sale in 2019 (million dollar aspen) was agreed to by forester and producer at time of sale.																																																						
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51	4130 - Aspen	Sapling Well	8.7	8	Immature	N/A	Stand was final harvested in 2018 (Million Dollar Road Aspen, sale number 61-014-17-01), all pine was left. Gate was placed at road in 2019, to create walk in access only to small wildlife managed opening.																																																						
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52	6220 - Alder/Willow	None	4.5			No	Low alder/willow pocket.																																																						
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53	4136 - Aspen, Mixed Conifer	Poletimber Well	123.4	59	51-80	N/A	Very large aspen stand with considerable variability in quality and size. Quaking aspen is in low areas. Bigtooth exists on some higher ground, mostly in the north part of the stand. Balsam fir, white pine are moderately dispersed. Red oak, white oak, sugar maple, cedar, cherry, and red maple, are also present in low to trace quantities.  Scattered lowlands and vernal ponds have been delineated on the ground and are reflected by the 2G (Too wet) site condition.																																																						
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54	4130 - Aspen	Sapling Well	13.6	18	Immature	N/A	Stand was final harvested in 2008, all oak, cherry and white pine were left where present. Came back well to mostly aspen. 37 and 10 MIX 36-046-07.																																																						
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<b>55</b>	6121 - Tamarack	Poletimber Well	1.1	71	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		3	Pole	6		Black Spruce	
Tamarack		95	Pole	7	71	Tamarack	
White Pine		2	Pole	7			
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
<b>56</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Well	67.2	125	51-80	N/A	Large lowland complex of cedar mixed with pockets of wet aspen and maple. Variable stand with some pockets of just cedar with others that are just flooded out aspen. Blow down is heavy in pockets, with some pockets of just flooded and tag alder.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		20	Log/Pole	12		Tag Alder	
Paper Birch		10	Pole/Log	7		Northern White Cedar	
Quaking Aspen		20	Log/Pole	10		Balsam Fir	
Balsam Fir		5	Pole	8			
Northern White Cedar		35	Log/Pole	11	125		
Black Ash		10	Pole/Log	9			
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
<b>57</b>	6112 - Lowland Aspen	Sawtimber Poor	16.1	81	1-50	N/A	Very wet aspen stand with has full alder coverage in the understory. Aspen is gradually falling out of stand, standing water in many spots.  Edges hold Red maple, trace quantities of red oak, white pine saplings, and quaking aspen.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		2	Log/Pole	10		Tag Alder	
Quaking Aspen		85	Log	13	81	Willow spp.	
Balsam Poplar		5	Log/Pole	10		Gray Dogwood	
White Pine		8	Log/Pole	11			
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
<b>58</b>	4319 - Mixed Upland Forest	Sawtimber Well	2.2	63	111-140	N/A	Small island of aspen, white pine, and red maple with hemlock and cedar on the western edge. X-Log white pine mixed throughout. Small tributary on the west edge contains flowing water and a majority of the stand falls within RMZ of Manton Creek.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Pole/Log	9		White Pine	
Paper Birch		5	Pole/Log	9		Balsam Fir	
Quaking Aspen		35	Pole/Log	9	63	Red Maple	
Northern White Cedar		10	Pole	8		Paper Birch	
White Pine		25	Log	13		Hemlock	
White Pine		5	XLog	28			
Hemlock		5	Log/Pole	14	106		
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
<b>59</b>	31021 - Cool Season Grass	None	3.4			Yes	Managed wildlife opening. (Rye)
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Bracken Fern		Low	Not Applicable	Not Applicable			
Cherry (spp.)		Medium	>20 feet	>20 feet			
Rye (annual)		Full	Not Applicable	Not Applicable			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**60** 42201 - Natural White Pine, Mixed Deciduous Sawtimber Well 17.7 86 81-110 N/A

Stand was marked thinning in 2010, all aspen and maple was cut. Sale covered most of current stand, although there are two pole aspen clones that were not cut in sale. Too small to be mapped on there own. Aspen clones will be included when stand in treated in future YOE. Stand canopy is dominated by white pine logs (trace to low quantities of x-log's white pine are dispersed throughout). Low quantities of aspen, sugar maples, and oaks in openings. Aspen pole/log pockets are predominantly on the eastern edge of the stand. The understory is well stocked with white pine saplings varying in height and average age being approximately 15 years.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	3	Log/Pole	11		Sugar Maple	Trace	< 5 feet	< 5 feet
Red Oak	3	Log/Pole	10		White Oak	Trace	10 - 20 feet	10 - 20 feet
Quaking Aspen	10	Pole	7		White Pine	High	Variable	Variable
Bigtooth Aspen	14	Pole/Log	9		Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet
White Pine	70	Log	12	86	Witch Hazel	Trace	5 - 10 feet	5 - 10 feet

**61** 6239 - Mixed Emergent Wetland None 5.4 No

Open lowland stand with red maple, cedar, balsam poplar, and quaking aspen dispersed in low quantity throughout. Flows east towards Manton Creek. Some portion of the stand east of 39 1/2 was final harvested with Liberty Aspen (Sale# 63-056-07-01) in 2008.

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	High	Not Applicable	Not Applicable
Balsam Poplar	Trace	Variable	Variable
Quaking Aspen	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Red Maple	Medium	Variable	Variable
Tag Alder	High	5 - 10 feet	5 - 10 feet
Northern White Cedar	Low	Variable	Variable

**62** 6130 - Fir, Aspen, Maple Poletimber Well 3.9 61 51-80 N/A

Small finger containing primarily balsam fir with quaking aspen and red maple. Leave stand for wildlife as its adjacent to low wet areas and a previously cut aspen stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	6		Balsam Fir	Low	Variable	Variable
Quaking Aspen	25	Pole/Log	9		White Pine	Low	< 5 feet	< 5 feet
Balsam Fir	40	Pole/Log	8	61	Black Cherry	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	10	Pole/Log	9					
White Pine	5	Log/Pole	12					

**64** 4319 - Mixed Upland Forest Poletimber Well 2.9 66 81-110 N/A

Island of aspen, spruce, and fir. Better left as an edge and to provide structural diversity within lowland stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Black Spruce	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	45	Pole	8	66	Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	20	Pole	8		White Pine	Medium	5 - 10 feet	5 - 10 feet
Black Spruce	20	Pole	7					
White Pine	5	Log/Pole	10					

**65** 3105 - Mixed Upland Herbaceous None 1.3 No

Small opening.

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	>20 feet
Bracken Fern	Medium	Not Applicable	Not Applicable
Cherry (spp.)	Low	Variable	Variable
Aspen (spp.)	Low	Variable	Variable
Mixed Sedges/Grasses	Medium	Not Applicable	Not Applicable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
66	211 - Cropland	None	10.4			Yes	Recently plowed rye field. Road access and scattered trees.																																												
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67	4130 - Aspen	Sapling Well	5.7	24	Immature	N/A	Stand was final harvested in 2002. Lowland hardwood was management objective. Mixed regeneration from timber sale and habitat cut. Small northern portion of northern piece was not able to be done commercially so was completed in 2004 with Baldwin Wildlife crew. (Trees dropped and left) Regenerated to mostly aspen with some mixed hardwood and balsam fir. Wet in spots.																																												
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71	42100 - Planted White Pine	Sawtimber Well	5.2	75	111-140	N/A	Pine was thinned in 2008 (37 and 10 MIX 36-046-07) with all aspen and maple cut as well. Maple and aspen and white pine regeneration are present in the understory. BA is too low to re-enter stand.																																												
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72	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	1.4	54	1-50	N/A	Wet pocket in the middle of mostly upland aspen.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**73** 4130 - Aspen Poletimber Well 52.4 56 111-140 N/A

Aspen dominated stand with minor components of red maple, cherry, and white pine. Understory is open with low quantities of oak, aspen, and red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	8		White Pine	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	85	Pole/Log	9	56	Black Cherry	Low	5 - 10 feet	5 - 10 feet
White Pine	5	Log	11		White Oak	Low	10 - 20 feet	10 - 20 feet
Black Cherry	5	Pole	6		Willow spp.	Low	10 - 20 feet	10 - 20 feet
					Bracken Fern	Low	Not Applicable	Not Applicable

**76** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 4.4 71 51-80 N/A

Small upland islands in the middle of cattail marsh. Red maple, white pine, quaking aspen, paper birch, and white oak present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log	10	71	White Pine	Low	Variable	Variable
White Oak	5	Log	13		Balsam Fir	Low	Variable	Variable
Paper Birch	5	Pole	8					
Quaking Aspen	28	Pole	8	51				
White Pine	22	Log/XLog	16					

**79** 2113 - Forage Crops None 6.0 Yes

Managed wildlife opening.

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Trace	>20 feet	>20 feet
Bracken Fern	High	Not Applicable	Not Applicable
Spotted Knapweed	Medium	Not Applicable	Not Applicable
Cherry (spp.)	Trace	>20 feet	>20 feet
Red Pine	Trace	>20 feet	>20 feet

**81** 42390 - Mixed Non-Pine Upland Conifers Sawtimber Well 10.7 96 51-80 N/A

Stand is dominated by cedar and hemlock with white pine and hemlock super canopy. Hemlock and Cedar dominate this stand and flow west to east following the edge of lower/wet areas of seasonal drainages and emergent wetlands. Burned stumps present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	10		Paper Birch	Low	Variable	Variable
Paper Birch	5	Pole	9		Northern White Cedar	Medium	>20 feet	>20 feet
Quaking Aspen	15	Pole	8	56	Hemlock	Low	>20 feet	>20 feet
Northern White Cedar	25	Pole/Log	9	90	Balsam Fir	Low	Variable	Variable
White Pine	5	XLog	18					
White Pine	10	Pole/Log	9					
Hemlock	8	XLog	23	121				
Hemlock	27	Log/Pole	13	96				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>82</b>	4130 - Aspen	Sapling Well	26.6	18	Immature	N/A	Stand was final harvested in 2008 (37 and 10 MIX 36-046-07), all white pine, oak and cherry were left as retention. Areas of lowland mixed in along east line. Most of the mature white pine is scattered along 10 rd.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		2	Sapling	2		Willow spp.		
Red Oak		2	Sapling	1		Density		
Quaking Aspen		87	Sapling	3	18	Avg. Height		
White Pine		2	Log	15		Size		
White Pine		2	Sapling	1				
Black Cherry		5	Sapling	1				
<b>83</b>	6229 - Mixed Lowland Shrub	None	34.9			No	Flooded out alder stand with maple, ash, cedar and tamarack in center of stand.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Red Maple		Medium	Variable	Variable				
Alder		High	5 - 10 feet	5 - 10 feet				
Tamarack		Medium	>20 feet	>20 feet				
Willow spp.		High	Variable	Variable				
Black Ash		Medium	Variable	Variable				
Northern White Cedar		Medium	Variable	Variable				
<b>84</b>	4130 - Aspen	Sapling Well	32.1	8	Immature	N/A	Decent quality aspen stand. Stand was final harvested in 2018 (million dollar road aspen #63-014-17) cut all species 2 inch or more except leave red pine, white pine, hemlock, and cedar. Retention island around vernal pond was left. Sale was chipped.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		10	Sapling	1				
Red Oak		3	Sapling	1				
Quaking Aspen		81	Sapling	1	8			
Northern White Cedar		1	Pole/Log	8				
White Pine		2	Log/Pole	11				
Red Pine		2	Log/Pole	12				
Hemlock		1	Pole/Log	9				
<b>89</b>	42100 - Planted White Pine	Sawtimber Well	2.0	75	171-200	N/A	Planted in 1951. Stand was row thinned in 1996 and marked thinned in 2010. The average BA is on the high end of 170. White pine log is the only species present other than black cherry which is in low to trace quantities. The understory is dominated by red maple with low quantities of beech and white pine.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		98	Log	12	75	Red Maple		
Black Cherry		2	Pole/Log	9		White Pine		
						Beech		
						Density		
						Avg. Height		
						Size		
<b>90</b>	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	98.3	8	Immature	N/A	Red pine plantation planted in 2018. Release sprayed in 2019 and again in late summer/early fall of 2024 . Stand is dominated with red pine that looks healthy. Red maple and quaking aspen are the dominant competitors with lower quantities of black cherry and oak. Spring should reveal true mortality of competition from spraying.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		6	Sapling	2				
Red Oak		2	Sapling	2				
Quaking Aspen		8	Sapling	2				
Red Pine		80	Sapling	1	8			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>99</b>	4130 - Aspen	Sapling Well	1.1	30	Immature	N/A	Small habitat cut, which has come back well to aspen. Mostly upland but gets wet to the west.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		90	Sapling	2	30	Dogwood (spp.)		Low	5 - 10 feet	5 - 10 feet
Tamarack		10	Sapling	1		Tag Alder		High	10 - 20 feet	10 - 20 feet
<b>100</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	6.4	63	111-140	N/A	Complex of aspen mixed with red maple and white pine. Low quantities of paper birch, yellow birch, black cherry, hemlock and cedar are dispersed throughout. Road and utility right-of-way transect stand. X log pine is concentrated in NW corner.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Pole/Log	9		Red Maple		Low	10 - 20 feet	10 - 20 feet
Paper Birch		3	Pole	7		Paper Birch		Trace	>20 feet	>20 feet
Quaking Aspen		47	Pole/Log	9	63	Balsam Fir		Low	>20 feet	>20 feet
Northern White Cedar		2	Pole	8		Hemlock		Low	>20 feet	>20 feet
White Pine		25	Log/Pole	10		White Pine		Medium	>20 feet	>20 feet
White Pine		5	XLog	28						
Hemlock		3	Log/Pole	14	121					
<b>104</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	20.9	59	51-80	N/A	Mostly decent quality pole aspen with thick white pine and fir understory. Southeast corner transitions to more of a white pine and red maple mix. Scattered x log white pine in stand. Low quantity of log white oak as well. West side edge has good quality big tooth. Northwest more pine understory. Lower wet spot runs west to east along the north edge of the stand. Some component of the south west corner of the stand was harvested with Liberty Aspen (Sale# 63-056-07-01)			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Log	9		Yellow Birch		Trace	Variable	Variable
White Oak		5	Log/Pole	11		White Pine		High	5 - 10 feet	5 - 10 feet
Paper Birch		1	Log/Pole	10		Black Cherry		Low	>20 feet	>20 feet
Quaking Aspen		32	Log/Pole	10	59	White Oak		Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen		30	Log/Pole	11		Balsam Fir		High	Variable	Variable
Northern White Cedar		2	Log	13		Red Maple		Low	>20 feet	>20 feet
White Pine		15	Log	14		Paper Birch		Low	Variable	Variable
Red Pine		1	XLog/Log	21						
Hemlock		2	Pole	8						
Black Cherry		2	Pole/Log	8						
<b>105</b>	6239 - Mixed Emergent Wetland	None	51.2			No		Open lowland stand dominated by cattail and tag alder. Low quantities of single trees and clumps dispersed throughout and along edges including balsam fir, white cedar, quaking aspen, and red maple.		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Cattail spp.		High	Not Applicable	Not Applicable						
Balsam Fir		Low	10 - 20 feet	10 - 20 feet						
Balsam Poplar		Trace	Variable	Variable						
Northern White Cedar		Low	Variable	Variable						
Red Maple		Low	Variable	Variable						
Tag Alder		High	5 - 10 feet	5 - 10 feet						
Quaking Aspen		Low	>20 feet	>20 feet						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**106** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Poor 14.8 91 1-50 N/A

Southwestern portion of the stand was final harvested in the early 2000's (2000 - 2002) during a wildlife cedar final harvest, which largely flooded out to cattails. Some balsam fir and lowland hardwood scattered regeneration. Overall wet cattails now. Perimeter was left for mix of log aspen, maple, fir and white pine. The stand does contain small islands of mature aspen, red maple, and cedar. Most edges of the stand are dominated with balsam fir, spruce, tamarack, and cedar with trace quantities of hemlock.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sap/Log	8	
Quaking Aspen	20	Log/Pole	10	
Balsam Fir	25	Pole/Sapling	7	91
Black Spruce	15	Pole	5	
Northern White Cedar	10	Pole/Sapling	6	
Tamarack	5	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Medium	Not Applicable	Not Applicable
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Black Ash	Low	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

**107** 3301 - Low Density Deciduous Trees None 3.5 No

Small opening with scattered aspen, maple and white pine. Some aspen filling in, but overall and unforested opening.

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	>20 feet
Bracken Fern	High	Not Applicable	Not Applicable
Mixed Sedges/Grasses	Medium	Not Applicable	Not Applicable
Aspen (spp.)	Low	5 - 10 feet	5 - 10 feet
White Pine	Low	>20 feet	>20 feet
Black Cherry	Low	>20 feet	>20 feet
Oak (spp.)	Trace	5 - 10 feet	5 - 10 feet

**108** 4134 - Aspen, Spruce/Fir Sawtimber Well 6.8 71 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	9	
Quaking Aspen	60	Log	11	71
Balsam Fir	35	Pole	8	

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

**110** 42200 - Natural White Pine Sawtimber Well 5.2 105 111-140 N/A

Stand was treated in 2008, all white pine was left. Created two aged stand. Some scattered "Legacy", x-log white pines.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	15	Pole/Log	9	
White Pine	85	Log/Pole/XLog	10	105

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet
White Pine	Low	Variable	Variable
Black Cherry	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable

**113** 6220 - Alder/Willow None 4.8 No

Manton creek and its flood plains.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	>20 feet	>20 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Aspen (spp.)	Trace	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
114	6233 - Wet Meadow	None	9.9			No	Meadow/ flood plain created from past beaver activity. White pine and cedars dispersed throughout.																																																											
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115	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	5.6	81	171-200	N/A	Log white pine stand with a mix of aspen and red maple. X-Log "legacy" white pines mixed throughout. Pockets of high BA (190-210) to the north are devoid of regen with lighter more open pockets to the south (120). Average BA 170-180. Land owner to the east Jay Robbins (cell 616 302 0601) gave verbal permission to utilize his property.																																																											
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116	310 - Herbaceous Openland	None	7.9			No	Old wildlife opening which has not been maintained. Filling in with white and red pine. Autumn Olive planted around the edges.																																																											
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118	4130 - Aspen	Sapling Well	65.0	16	Immature	N/A	Stand was final harvested in 2010 - Liberty Aspen (Sale #: 63-056-07-01) Did not cut: Oak, beech, sugar maple, white cedar, and green marked trees.																																																											
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<b>119</b>	6120 - Lowland Cedar	Sawtimber Well	26.2	93	81-110	N/A	Lowland cedar pocket with red maple, aspen, and hemlock mixed throughout. Borders Manton Creek on west side.																																																																				
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<b>122</b>	4319 - Mixed Upland Forest	Sapling Poor	2.6	28	Immature	N/A	Habitat cuts performed in 1999. All Hemlock was left. Aspen saplings present																																																																				
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<b>123</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	7.6	66	111-140	N/A	Diverse complex of aspen, cedar, fir, hemlock and red maple. Wet in pockets with defendant lowland character.																																																																				
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<b>124</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	2.7	30	Immature	N/A	Habitat cut. Came back to a mix, lowland character.																																																																				
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<b>126</b>	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	6.2	56	51-80	N/A	Opening near lowland area that is closing in. Typical old field succession to white pine with various recruitment cohorts. Mostly sweet fern and bracken ground cover, but some blueberry present.																																																																				
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<b>128</b>	42200 - Natural White Pine	Sawtimber Well	12.5	86	81-110	N/A	Pine was thinned in 2008 (Magnum Pine -#63-057-07-01: Cut Tree Mark White Pine, cut all aspen and red maple). Access is through private from the south - Magnum Kennels. Log/pole size white pine and red pine with pole sized red and white oak mixed throughout. Red maple, white and red pine and oak compose the understory. Stand looks great after the last thinning.																																																
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<b>129</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	12.5	66	1-50	N/A	Variable stand of red maple, oak, cherry and aspen. Red maple pole and wolfy, x-log are found throughout but dominate the central portion of the stand in openings. Moderate stocking of red oak, approximately 11 to 12 DBH, dispersed in the center/ north east portion of the stand. Small plantation of red pine in the southwest most likely residual from adjacent planting. Maintain for structural diversity for adjacent stands and for hard mast.																																																
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<b>130</b>	6229 - Mixed Lowland Shrub	None	8.6			No	Lowland shrub and marsh surrounding creek. Very moist soil making crossing the creek for future timber harvest difficult.																																																
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Cattail spp.	Medium	Not Applicable	Not Applicable																																																				
<b>131</b>	4130 - Aspen	Sapling Poor	5.2	18	Immature	N/A	Stand was final harvested in 2008. All oak was left. Aspen regenerated well. Railroad track to west.																																																
<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 Maple</td> <td>2</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>85</td> <td>Sapling</td> <td>2</td> <td>18</td> </tr> <tr> <td>White Pine</td> <td>4</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>4</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	2	Sapling	1		Red Oak	5	Pole	7		Bigtooth Aspen	85	Sapling	2	18	White Pine	4	Sapling	1		Black Cherry	4	Sapling	1																								
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Maple	2	Sapling	1																																																				
Red Oak	5	Pole	7																																																				
Bigtooth Aspen	85	Sapling	2	18																																																			
White Pine	4	Sapling	1																																																				
Black Cherry	4	Sapling	1																																																				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**132** 4133 - Aspen, Mixed Pine Poletimber Well 15.0 66 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	XLog	20		Red Maple	Low	Variable	Variable
Red Maple	5	Pole/Log	7		White Oak	Low	Variable	Variable
Red Oak	8	Log/Pole	10		Red Pine	Low	10 - 20 feet	10 - 20 feet
White Oak	4	Log/Pole	11		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	30	Pole/Log	9	66	White Pine	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	28	Log/Pole	12	66	Jack Pine	Low	5 - 10 feet	5 - 10 feet
White Pine	12	Log/XLog	15		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Red Pine	2	Pole	5					
Jack Pine	6	Pole	6					
Black Cherry	3	Pole	9					

Stand is dominated by Aspen which is split between big tooth and quaking. Quaking Aspen exists in higher presence in the southwest and southern border of the stand though its low quality. Big tooth is in the Northeast portion of the stand and is good quality and size. White pine is present in moderate to high quantities in the north east corner and in low to trace amounts throughout. White pine advanced regeneration is moderate. Other miscellaneous species throughout the canopy include pole size red maple, pole size red and white oak. Jack pine and red pine show low presence in the southwest corner.

**133** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 5.6 57 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	9		White Pine	Medium	Variable	Variable
Red Oak	10	Pole	8		White Oak	Low	>20 feet	>20 feet
White Oak	5	Log/Pole	10					
Bigtooth Aspen	35	Pole/Log	8	57				
Balsam Fir	5	Pole	6					

The stand is composed of aspen, mixed with white pine, red maple, and red and white oak . Aspen is mixed throughout with a higher density pocket located in the north east. The understory is dominated by white pine.

**135** 4130 - Aspen Sapling Well 8.7 29 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling/Pole	3		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Quaking Aspen	77	Sapling/Pole	3	29	White Pine	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	3	Sapling	2		Black Cherry	Low	10 - 20 feet	10 - 20 feet
White Pine	5	Sapling	3					

Stand was final harvested in 1997. Access was though private to the south. Came back well to aspen .

**136** 4310 - Pine, Oak Mix Sawtimber Well 5.2 76 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	9		Red Pine	Low	Variable	Variable
Red Oak	10	Pole	5		White Pine	High	Variable	Variable
White Oak	5	XLog	18		Red Maple	Low	>20 feet	>20 feet
White Oak	8	Log/Pole	11		White Oak	Low	>20 feet	>20 feet
Quaking Aspen	15	Pole	6					
White Pine	47	Log	15	76				
Red Pine	5	Pole	6					

Mixed stand that transitions from plantation to the natural stand to the west. Heavily stocked on the south end with white pine logs. X - log wolfie white oaks are dispersed throughout with deciduous and mixed pine in the northern portion of the stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>137</b>	42110 - Planted Red Pine	Poletimber Well	24.4	51	141-170	N/A	Stand thinned by Lutke Forest Products (Magnum Pine #63-057-07-01) in 2009. light thinning... every fourth row. Access through private (Magnum Kennels). Stand thinned again in 2017, marked second thinning (148 Pine #63-003-17-01). Access again through private.  Stand looks good but does not meet silvicultural criteria to be thinned. Allow trees to add more girth.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
White Oak		5	Log/XLog	16					
White Pine		2	Pole/Log	9					
Red Pine		93	Pole	9	51				
<b>138</b>	42110 - Planted Red Pine	Sawtimber Well	31.9	70	111-140	N/A	Planted in 1956 Stand third row thinned in 1996 and marked second thinning in 2010. Third thinning took place in 2017. Good quality stand with an average of 130 BA and nice size logs 11 to 14 inch average. Crowns are healthy and with time and space trees should add girth prior to final harvest.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		100	Log	11	70	Black Cherry	Low	5 - 10 feet	5 - 10 feet
						Red Oak	Low	5 - 10 feet	5 - 10 feet
<b>140</b>	6120 - Lowland Cedar	Poletimber Medium	30.4	90	Unspecified	N/A	Lowland cedar with some lowland hardwood mixed in. Streams run through most of the stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Log	8		Black Ash	Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen		5	Log/Pole	10		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar		60	Pole/Log	9	90	Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Tamarack		5	Pole	8					
Hemlock		5	Log/Pole	11					
Black Ash		15	Pole	7					
<b>141</b>	4133 - Aspen, Mixed Pine	Poletimber Well	3.8	56	81-110	N/A	Stand is primarily aspen with pockets of log white pine. Aspen is low quality.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Pole	8		Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		70	Pole/Log	9	56	White Pine	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Pole	6		Jack Pine	Low	5 - 10 feet	5 - 10 feet
White Pine		20	Log/Pole	11					
<b>142</b>	42201 - Natural White Pine, Mixed Deciduous	Poletimber Poor	2.3	66	1-50	N/A	Small sliver of white pine and cherry with an abundance of fern.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
White Pine		60	Pole	8	66				
Black Cherry		40	Pole	7					
<b>143</b>	42110 - Planted Red Pine	Poletimber Well	20.5	54	111-140	N/A	Planted in 1972 per planting record. Stand was third row thinned in 2017. Overall the stand looks to be of good quality. Average BA is 140/150. Not ready to be entered at this time but should add girth between now and the next inventory cycle.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
White Pine		2	Log	10					
Red Pine		98	Pole	8	54				
<b>144</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.6	76	51-80	N/A	Small ridge of aspen and red maple.. Surrounded by private and swamp to north.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		40	Log	14		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Beech		2	Log	12		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		58	Log	12	76	Red Maple	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>145</b>	42220 - Natural Jack Pine	Sapling Well	43.4	30	Immature	N/A	Old Jack pine strips which were final harvested in 1996. An attempt was made to plant to red pine, but jack pine beat out the red and it has fallen out. Some pockets where red pine still hanging in a little but overall failure. Stand is dominated by jack pine with low to moderate quantities of red pine. Red pine is present but has been outcompeted by Jack pine. Pockets of aspen are dispersed throughout. Low to trace quantities of red maple and white pine are mixed throughout as well. Trace quantities of red and white oak are present in the understory. During 2037 YOE if red pine in stand has persisted and outgrown jack pine consider thinning, otherwise final harvest with stand 138 (R9) and 141 (A6) and replant.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	3	Sapling	3		White Pine	Trace		< 5 feet	< 5 feet
Bigtooth Aspen	6	Sapling	3		Red Oak	Low		5 - 10 feet	5 - 10 feet
White Pine	3	Sapling	4		Red Maple	Trace		5 - 10 feet	5 - 10 feet
Red Pine	25	Sapling	4		Bracken Fern	Low		Not Applicable	Not Applicable
Jack Pine	60	Sapling/Pole	4	30					
Black Cherry	3	Sapling	2						
<b>146</b>	4123 - Red Oak	Sawtimber Well	4.1	73	111-140	N/A	Northern portion of the stand has a component of larger oak that is older. Subcanopy oak are on the south side beneath aspen mixed with pine. Various ages of oak and pine. White pine concentrated on south side.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole	6		White Oak	Medium		>20 feet	>20 feet
Red Oak	67	Log/Pole	12	73	Red Oak	Low		10 - 20 feet	10 - 20 feet
Bigtooth Aspen	5	Pole	7		White Pine	High		Variable	Variable
White Pine	20	Log	10	66	Red Maple	Low		>20 feet	>20 feet
White Pine	3	XLog	18						
<b>148</b>	4133 - Aspen, Mixed Pine	Poletimber Well	5.6	48	81-110	N/A	Stand is composed of quaking aspen, red maple, red oak and white pine with trace quantities of jack pines and red pine. Eastern edge and center of the stand drops into a drainage where the canopy is dominated by hardwoods and aspen. White pine dominates upland area and the odd red pine and jack pine occupy more open areas. Aspen is not ready to be harvested. Hold for another inventory cycle. BMPs for Manton Creek need to be maintained as it is a high priority trout stream (300ft buffer).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	20	Pole	7		Quaking Aspen	Medium		>20 feet	>20 feet
Red Oak	5	Pole	8		White Pine	Medium		10 - 20 feet	10 - 20 feet
Quaking Aspen	55	Pole	7	48	Red Pine	Low		10 - 20 feet	10 - 20 feet
White Pine	20	Log	15		Red Oak	Low		5 - 10 feet	5 - 10 feet
					Red Maple	Low	5 - 10 feet	5 - 10 feet	
<b>149</b>	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Poor	2.2	66	1-50	N/A	Failed area of the red pine, scattered open grown stubby red pine. Potential good area for future landing if needed.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	70	Pole	8	66	White Pine	Low		Variable	Variable
Black Cherry	30	Pole	6		Jack Pine	Medium	< 5 feet	< 5 feet	
<b>151</b>	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	47.7	10	1-50	N/A	Stand is well stocked with red pine, with a low stocking level of jack pine from adjacent stands. Red maple, black cherry, big tooth aspen, white and red oak are mixed throughout. Some variability in canopy cover and species composition throughout the stand, but overall good looking red pine that should be successful in the future. Red pine which was final harvested in 2010. Trenched in 2011 and planted to red pine in 2012 and replanted again in 2014. . Bare root seedlings. Only around a foot tall or less in fall 2014. Seedling appear they will make it this time. Replanted,... again in 2016. REGEN CHECK 2018: trenches have filled in. No more action needed. Site is stocked with red pine, with pockets of aspen regen and oak that will shade out some portions of the plantation.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Sapling	1		Spotted Knapweed	Low		Not Applicable	Not Applicable
Red Oak	2	Sapling	1		Bracken Fern	Low		Not Applicable	Not Applicable
White Oak	5	Sapling	1						
Bigtooth Aspen	5	Sapling	1						
Red Pine	70	Sapling	2	10					
Jack Pine	10	Sapling	1						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>152</b>	429 - Mixed Upland Conifers	Sawtimber Poor	4.1	66	1-50	N/A	Small open grown stand of planted tamarack, and scattered natural white pine. Close to being non forested stand, may be a good spot for future landing of pine to north.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		40	Log/Pole	10	66	Bracken Fern	Medium	Not Applicable	Not Applicable
White Pine		30	Log/XLog	12		Tamarack	Low	Variable	Variable
Black Cherry		2	Pole	6		White Pine	Low	Variable	Variable
Scotch Pine		28	Pole/Log	6		Scotch Pine	Low	Variable	Variable
<b>153</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.7	89	51-80	N/A	Small isolated upland ridge of aspen, maple, fir and pine. BMPs and access issues are present do to private and creek.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		58	Log/Pole	10	89	Beech	Low	5 - 10 feet	5 - 10 feet
Paper Birch		2	Pole	7		White Pine	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		30	Log/Pole	11		Black Cherry	Low	10 - 20 feet	10 - 20 feet
Balsam Fir		5	Pole	8		White Oak	Low	>20 feet	>20 feet
White Pine		5	Log/XLog	15		Balsam Fir	Medium	Variable	Variable
						Red Maple	Low	>20 feet	>20 feet
<b>154</b>	4130 - Aspen	Sapling Well	4.5	18	Immature	N/A	Stand was final harvested in 2008. Came back well to aspen. A few areas are more open and flooded out but overall came back to aspen.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		10	Sapling	2					
Paper Birch		5	Sapling	1					
Quaking Aspen		80	Sapling	2	18				
Balsam Fir		5	Sapling	1					
<b>156</b>	4136 - Aspen, Mixed Conifer	Sawtimber Well	3.3	58	81-110	N/A	Small ridge of aspen along with some conifer. Log/pole aspen in good shape. Small cedar and hemlock pocket in stand. Stand composition is dominated by pole/log Bigtooth Aspen, followed by Quaking Aspen. Other canopy species include Red Maple (Pole) , White pine (Log) , North white Cedar (Pole) and Hemlock. Stand meets silvicultural criteria based on age.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Pole	7		White Pine	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		25	Pole/Log	9		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen		43	Log/Pole	10	58	Beech	Trace	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Pole	8		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar		5	Pole	6					
White Pine		15	Log/XLog	12					
Hemlock		2	Pole	6					
<b>157</b>	4136 - Aspen, Mixed Conifer	Sapling Well	5.6	18	Immature	N/A	Stand was final harvested in 2008 (Liberty 18 , 63-055-07-01) with all white pine left. Scattered pole white pine with a solid flush of aspen filling in. Will be a aspen stand with scattered log white pine in the future.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		5	Sapling	3					
White Oak		5	Sapling	1					
Quaking Aspen		70	Sapling	2	18				
Balsam Fir		2	Sapling	1					
White Pine		18	Pole/Log	8					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**158** 3105 - Mixed Upland Herbaceous None 1.6 No

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Sedges/Grasses	Medium	Not Applicable	Not Applicable
Red Maple	Trace	>20 feet	>20 feet
Bracken Fern	Low	Not Applicable	Not Applicable
Quaking Aspen	Trace	>20 feet	>20 feet
White Pine	Low	10 - 20 feet	10 - 20 feet
Jack Pine	Trace	>20 feet	>20 feet
Oak (spp.)	Trace	>20 feet	>20 feet

Natural opening on the edge of private. Sapling white pine and jack pine are dispersed throughout in low quantities. Single saplings of red maple, oak, and cherry are mixed in as well. Southern pocket has trace quantities of log quaking aspen. White Pine could seed in from adjacent stand.

**161** 6120 - Lowland Cedar Poletimber Well 61.3 93 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	
Yellow Birch	4	Pole	7	
Paper Birch	8	Pole/Log	9	
Bigtooth Aspen	5	Pole/Log	8	
Northern White Cedar	51	Log/Pole	11	93
Tamarack	7	Pole/Log	9	
White Pine	5	Log/XLog	15	
Hemlock	5	XLog/Log	18	
Black Ash	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Low	>20 feet	>20 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Stand dominated by Cedar with components of Hemlock, Paper Birch, Red Maple, Yellow Birch and Big tooth Aspen. Cold water stream runs throughout the stand. The stand is too low and wet for conventional harvest methods.

**162** 4136 - Aspen, Mixed Conifer Poletimber Well 9.1 57 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	5	
Quaking Aspen	66	Pole/Log	9	57
Balsam Fir	5	Pole	6	
Northern White Cedar	2	Log/Pole	10	
White Pine	15	Log	15	
Hemlock	2	Log	12	

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

Small ridge of mostly aspen with scattered log white pine. Upland stand for the most part but surrounded by swamp and creek borders stand. Aspen approaching log overall.

**185** 42141 - Planted Mixed Pine, Mixed Deciduous Sapling Poor 15.3 15 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
White Pine	2	Log	13	
White Pine	25	Sapling	2	15
Red Pine	36	Sapling	3	15
Jack Pine	15	Sapling	2	
Black Cherry	10	Sapling	3	15

Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	Medium	Not Applicable	Not Applicable

Stand was final harvested in 2008 (37 and 10 MIX 36-046-07) and then planted to red pine and white pine. Scattered over story left from harvest. Stand was trenched in 2010 and then planted in 2011 with 2-0 seedlings. Mixed stand. Red Pine, jack pine, and white pine dominant. Pole/log cherry and white pine mixed throughout in low quantities.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>201</b>	6120 - Lowland Cedar	Sawtimber Well	17.8	102	51-80	N/A	Manton Creek corridor. Nice lowland conifer complex. Mostly cedar but some pockets are heavier to hemlock.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log/Pole	12	
Paper Birch	5	Log	10	
Quaking Aspen	5	Log	16	
Northern White Cedar	69	Log	14	102
White Pine	2	XLog/Log	18	
Hemlock	14	Log/Pole	12	

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

<b>217</b>	6220 - Alder/Willow	None	4.2			No	Habitat cut in 2000-2001. Was cedar, which following cut flooded out and is now mostly alder and willow. Some remnant cedar on the southern perimeter still stand.
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Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Medium	5 - 10 feet	5 - 10 feet
Tag Alder	High	10 - 20 feet	10 - 20 feet
Northern White Cedar	Low	>20 feet	>20 feet

<b>340</b>	6112 - Lowland Aspen	Sapling Well	6.4	23	Immature	N/A	Habitat cut in winter of 2003. Came back thick to aspen, maple and some paper birch. Was mostly cedar before habitat cut.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	2	
Paper Birch	10	Sapling	2	
Quaking Aspen	70	Sapling	2	23
Balsam Fir	2	Sapling	2	
White Pine	3	Sapling	1	