

# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63086

Entry Year: 2027

Acreage: 2,561

County: Missaukee

Management Area: High Sand Plains

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**Stand Examiner:** Andrew Krugh

## **Legal Description:**

T24N, R6W, Sec. 1,2,3,10.12

## **Identified Planning Goals:**

Vegetation management in the Manistee River Valley management area (MA) will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

## **Soil and topography:**

Montcalm-Grayling, Rubicon sands. Mostly level terrain with many wet areas.

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

Solid sections of state land with the exception of Horseshoe lake on the west half of section 2. This private land contains cabins and some full time residences. Limited fishing in flooded area. Hunting, ORV use and snowmobile trail are the main forms of recreation.

## **Unique Natural Features:**

Massasauga and wood turtle potential near cannon flooding. Also listed as potential species include great blue heron, osprey, eagle and assorted turtles.

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

Woodland mounds and Late Woodland camp listed within compartment.

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

Continue to maintain age class diversity. Monitor and encourage oak regeneration where possible.

## **Watershed and Fisheries Considerations:**

Big Cannon Creek is a designated stream under the Upper Manistee River State Natural Rivers Zoning. Under the Upper Manistee River Natural River Plan, Big Cannon Creek has special protection (see page 41 of the plan), where no cutting may be done closer than 100 feet from the river's edge, subject to seasonal, wetland, and topographic restrictions.

## **Wildlife Habitat Considerations:**

About half of this compartment is made up of lands purchased with restricted State Game Fund, Deer Range Improvement Fund. This compartment contains Cannons Creek #2 Flooding SWMA. This area previously included a tube and dike impoundment. Numerous reptiles, amphibians, various waterfowl, and other bird species are associated with the flooding and associated wetlands now returned to natural/beaver dominated processes since the man-made dam was removed. Uplands provide valuable year-round deer habitat. Bear, bobcat, beaver, ruffed grouse, woodcock, and turkeys utilize this area. The south square mile of the east part of the compartment is part of the Eastern Massauga Rattlesnake Management area. The goal of maintaining various timber types and age classes, maintaining the impoundments, and manipulating the blueberry and shrub component associated with the grassland and upland brush type will continue to benefit a wide variety of game and non-game species. Featured species of special interest are eastern massauga rattlesnake, American bittern, mallard, ruffed grouse, and deer. 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) (V. Richardson 2/2025)

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

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the State. A gravel pit is located to the north and gravel potential appears to be good on the uplands. East Norwich Field is located three miles to the east. The field has produced over 15.9 million BO and 15.7 Bcf gas from the Devonian Richfield Formation. It is in secondary recovery operations currently. There are no State lands currently leased in the Compartment

#### **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. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally. Proposed new roads or roads recommended for substantial improvement are noted below.

#### **Survey Needs:**

Survey corners are established through out the compartment. The actual private lines will need to be run for sale set up.

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

Numerous motorized recreational trails are located within this compartment. The Mis-Kal route, North Missuakee ORV trail, (maximum 50" width) North Missuakee Cycle trail, Michigan Cross Country Cycle trail (MCCCT), and Snowmobile trail #6 are all located within this compartment. Trail protection specifications should be included in any timber sale potentially impacting these trails. Specifically, appropriate measures identified in DNR Policy and Procedures "32.22XX" (Best Management Practices for Forest and Wildlife Management Adjacent to Recreation Trails) should be taken into consideration when setting up timber sales within this compartment. The area also has some Wildlife Flooding areas, which provide hunting and fishing opportunities. There is also dispersed camping in the area. (T.M.N. 12/16/14)

#### **Fire Protection:**

There is some private land in the compartment which provides Urban Interface problems. There are some low areas which could cause difficult access for suppression equipment. There are some small pine areas with mixed hardwoods.

#### **Additional Compartment Information:**

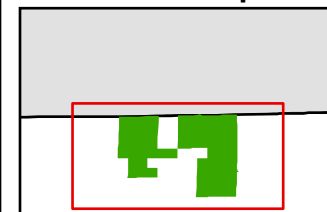
#### **The following reports from the Inventory are attached:**

- 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**

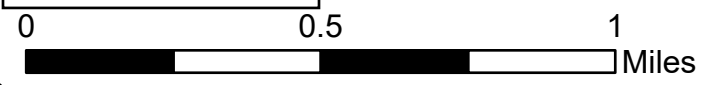
#### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

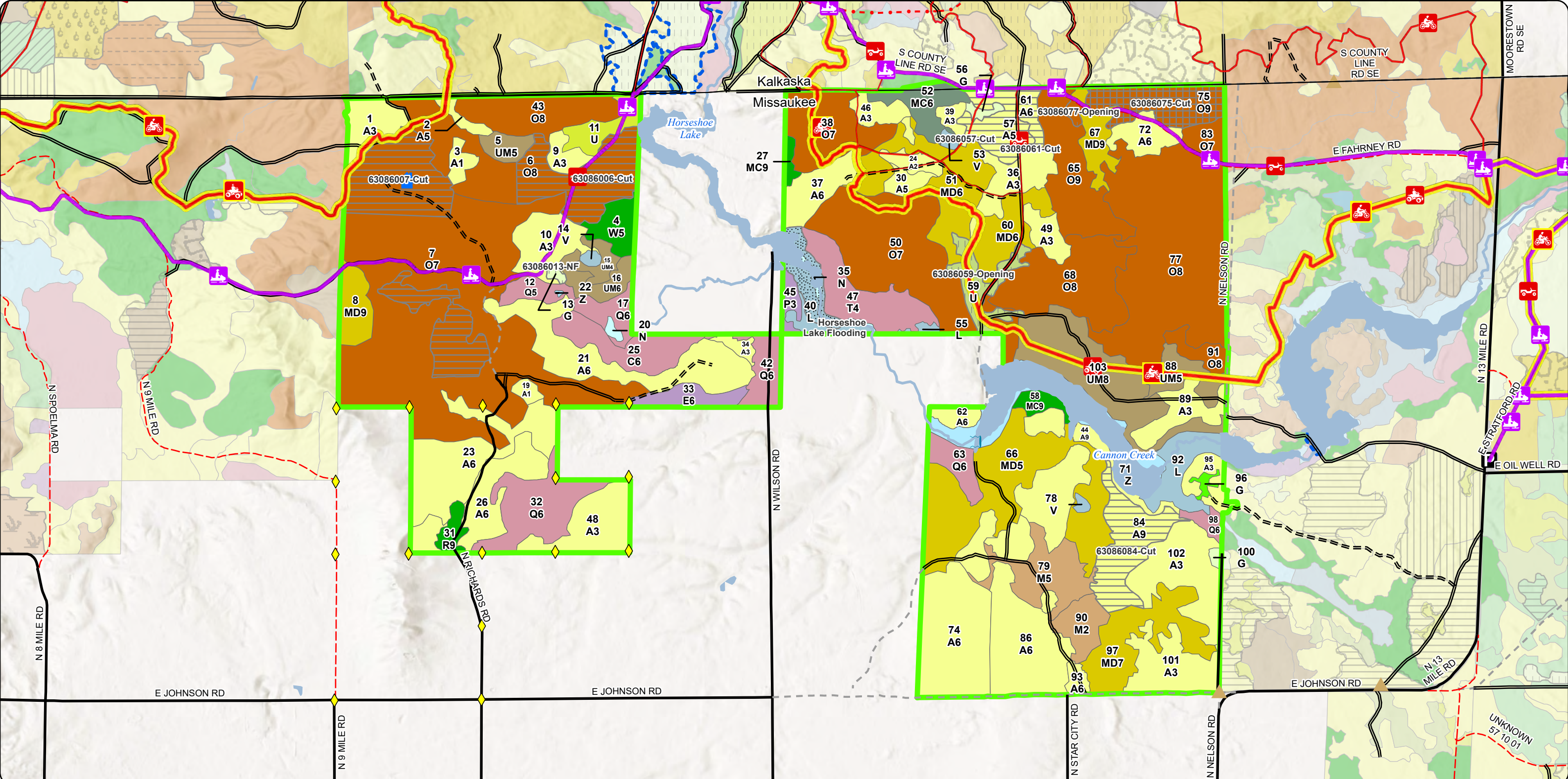
# Cover Type & Treatments Map



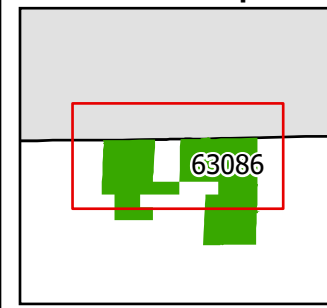
Compartment: 63086  
 T24N R06W Sec. 01, 02, 03, 10, 12  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt. Area: High Sand Plains  
 YOE: 2027  
 Acres: 2,561 GIS Calculated  
 Examiner: Andrew Krugh  
 Date Exported: 1/8/2026  
 Map Phase: Post Maps



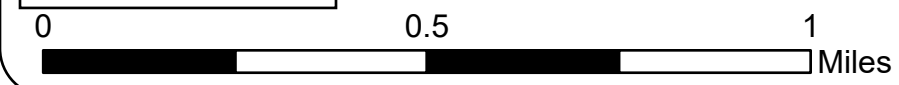
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|--|---|--|---|--|
| <ul style="list-style-type: none"> <li> Survey Grade Corners</li> <li> Berm</li> <li> Culvert</li> <li> Parking Lot</li> <li> Designated MCCCT Trails</li> <li> Designated ORV Routes</li> <li> Designated ATV Trails</li> </ul> | <ul style="list-style-type: none"> <li> Designated Motorcycle Trails</li> <li> Designated Snowmobile</li> <li> DNR - Secondary Forest Road</li> <li> DNR - Forest Access Route</li> <li> Federal / State / County - Paved Road</li> <li> County - Gravel Road</li> <li> County - Dirt Road (Seasonal)</li> <li> Private - Dirt / Gravel Road</li> </ul> | <ul style="list-style-type: none"> <li> Streams</li> <li> Lakes and Rivers</li> <li> Compartment Boundary</li> <li> Clearcut</li> <li> Seed Tree</li> <li> Openings Mgmt.</li> <li> Water Level Mgmt.</li> <li> Treatments with Site Conditions</li> </ul> | <ul style="list-style-type: none"> <li> 411 - Northern Hardwood</li> <li> 412 - Oak Types</li> <li> 413 - Aspen</li> <li> 419 - Mixed Upland Deciduous</li> <li> 422 - Natural Pines</li> <li> 423 - Other Upland Conifers</li> <li> 430 - Upland Mixed Forest</li> <li> 500 - Water</li> </ul> | <ul style="list-style-type: none"> <li> 611 - Lowland Deciduous Forest</li> <li> 612 - Lowland Coniferous Forest</li> <li> 211 - Cropland</li> <li> 310 - Herbaceous Openland</li> <li> 320 - Upland Shrub</li> <li> 330 - Low Density Trees</li> <li> 622 - Lowland Shrub</li> <li> 623 - Emergent Wetland</li> </ul> |
|--|---|--|---|--|



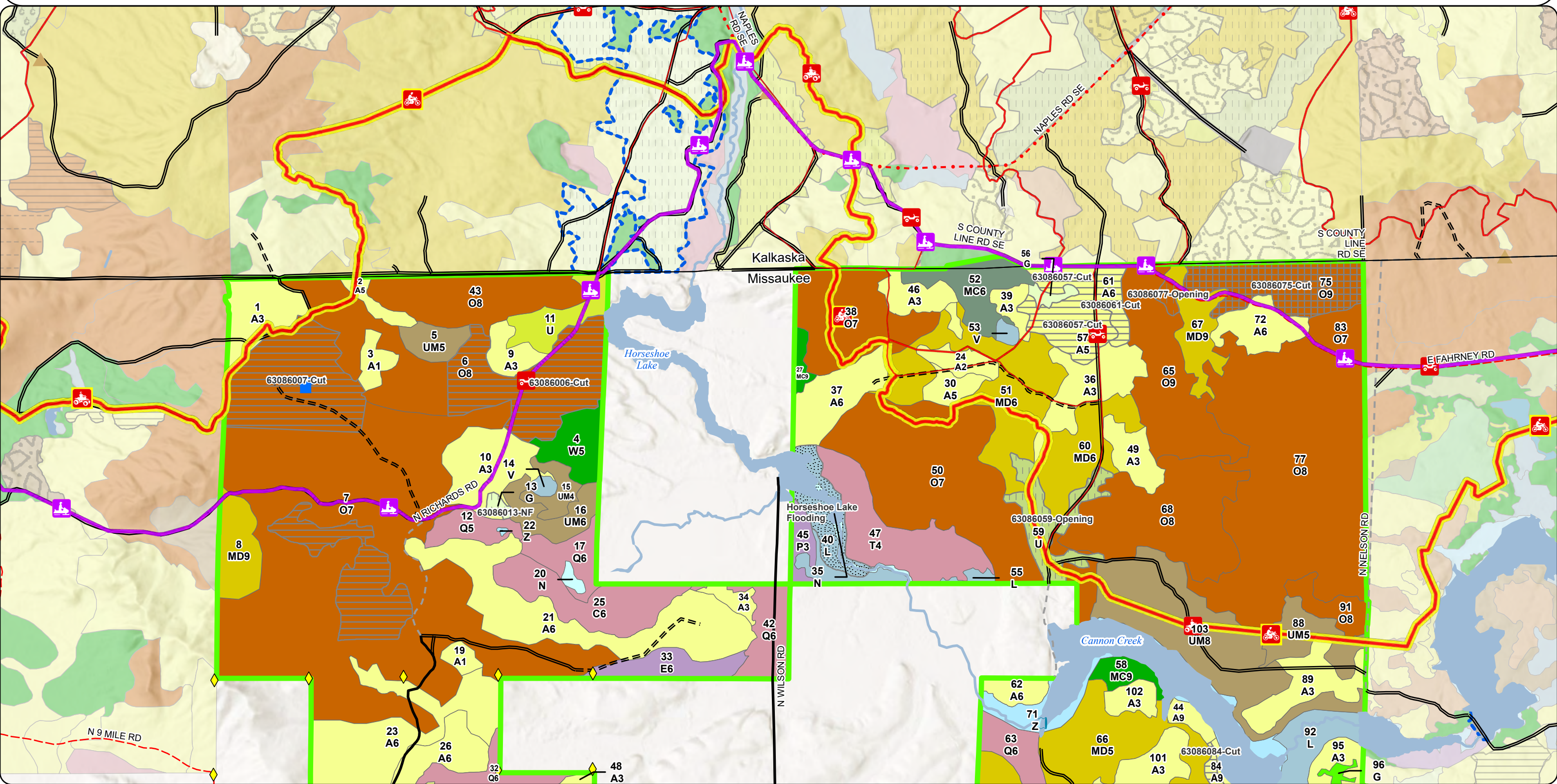
**Cover Type & Treatments Map**



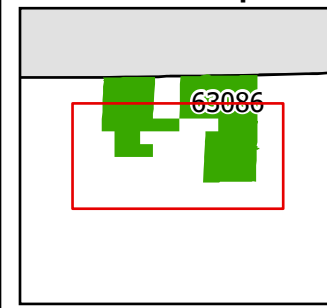
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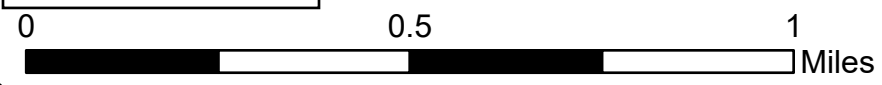
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- Water Level Mgmt.
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- 413 - Aspen
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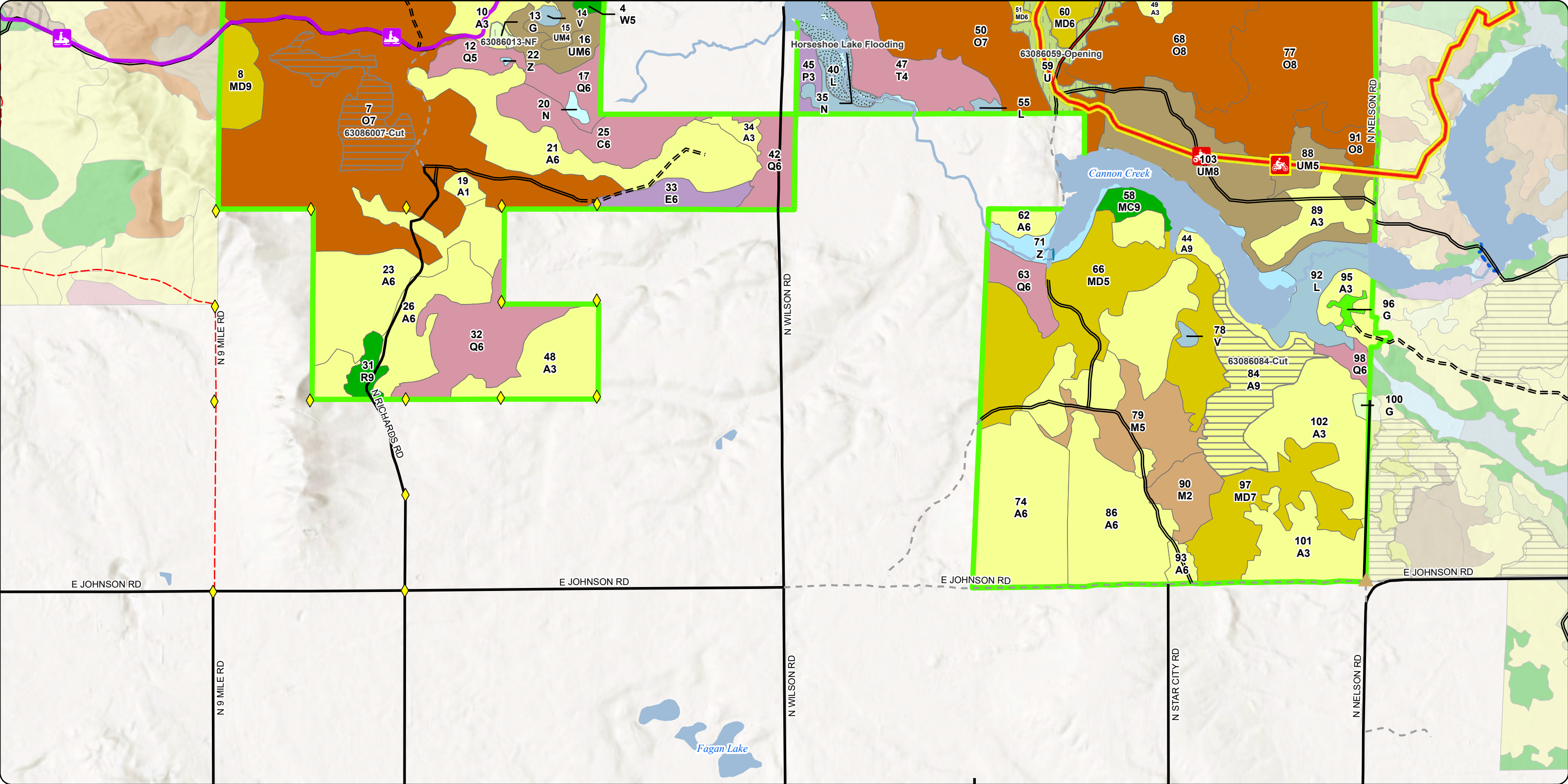
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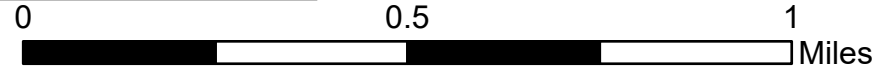




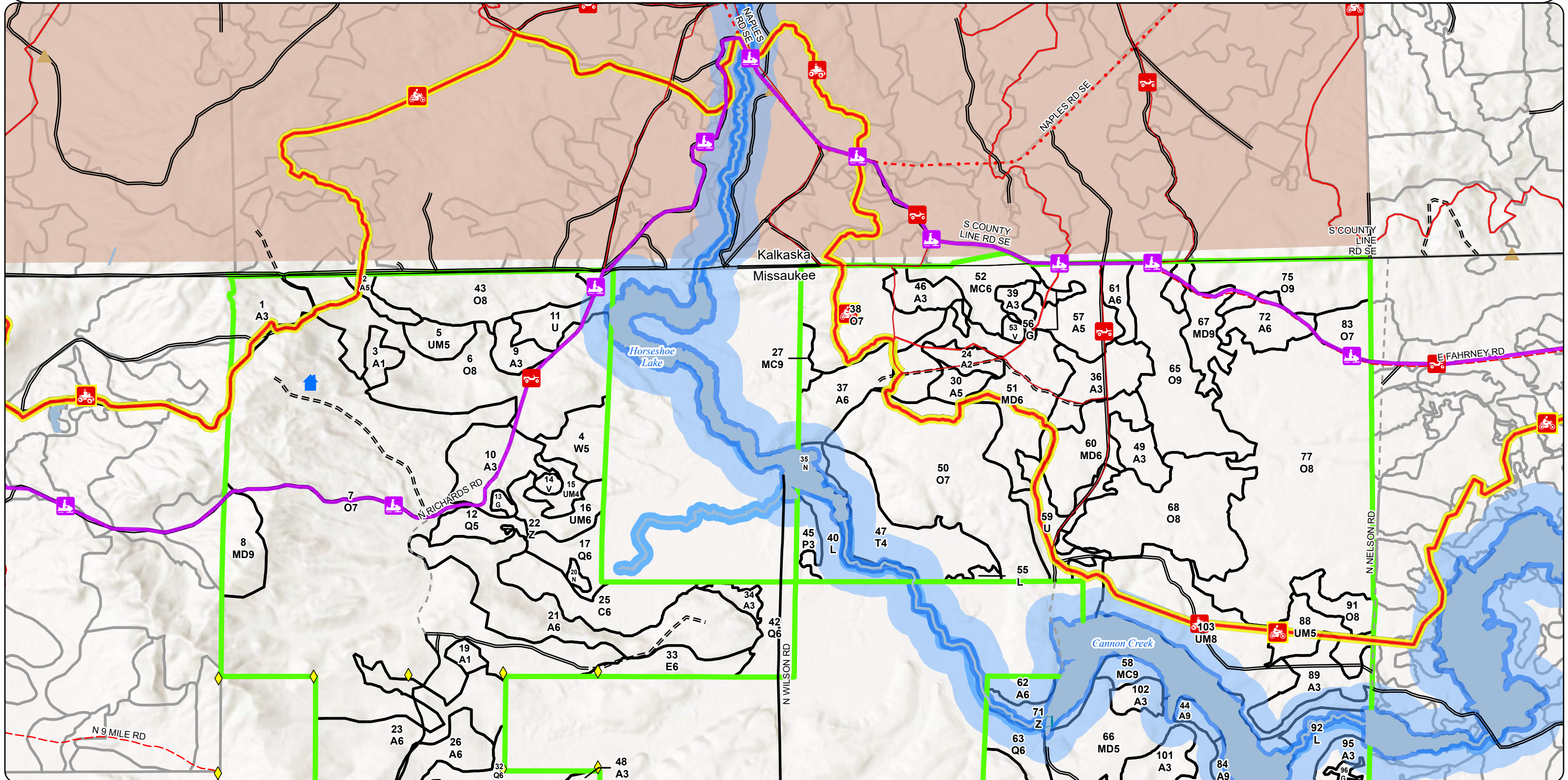


**Special Conservation Areas  
& Site Conditions Map**

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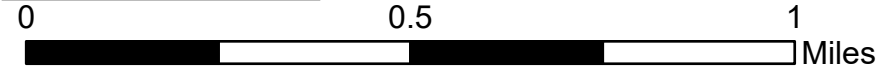
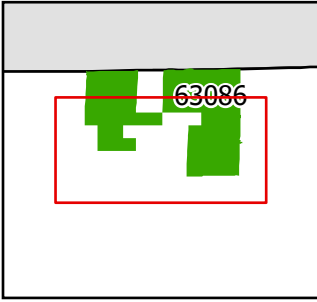


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- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands

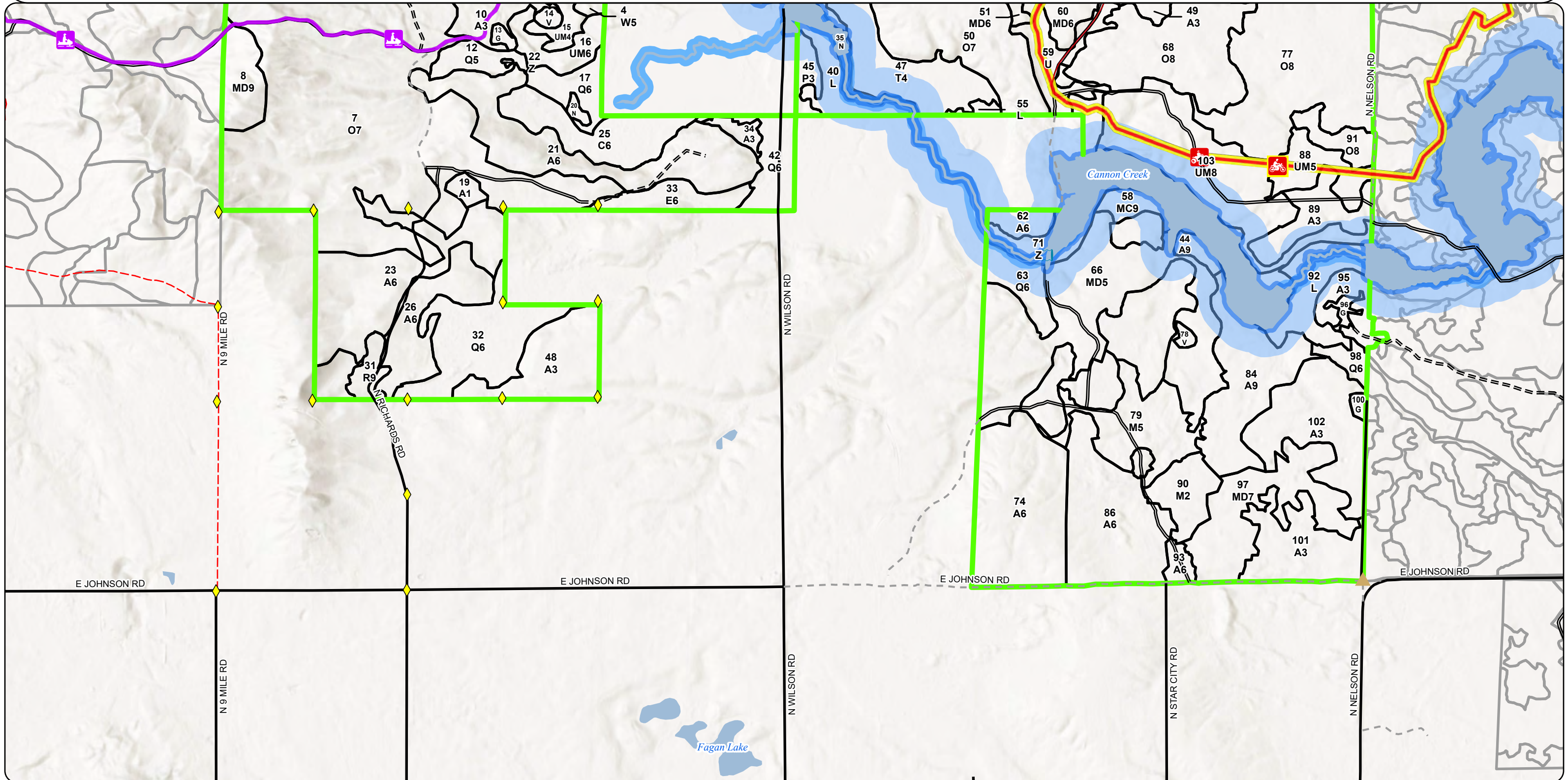


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- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



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

Cadillac Mgt. Unit

Compartment 86

Year of Entry 2027

Andrew Krugh: 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	156	85	130	272	0	57	57	0	0	0	0	0	0	0	0	0	0	757
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31
Cropland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	16	0	43	0	0	0	0	0	0	0	45	104
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	0	0	0	154	27	64	0	0	0	0	0	0	0	0	18	262
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	4	12
Northern Hardwood	0	17	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	52
Oak	0	0	0	0	0	0	0	0	0	0	21	877	0	0	0	0	0	63	960
Red Pine	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	39
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20
Upland Mixed Forest	0	0	0	0	0	8	18	80	0	0	0	0	0	0	0	0	0	14	120
Upland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
White Pine	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
<b>Total</b>	<b>161</b>	<b>173</b>	<b>92</b>	<b>130</b>	<b>287</b>	<b>8</b>	<b>271</b>	<b>180</b>	<b>64</b>	<b>43</b>	<b>29</b>	<b>877</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>249</b>	<b>2562</b>

## Report 2 – Treatment Summary

Cadillac Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 86  
Total Compartment Acres: 2,561

Commercial Harvest - 1383  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
<b>Aspen</b>	75	0	0	0	0	0	0	0	0	75
<b>Oak</b>	137	0	0	35	0	0	0	0	0	172
<b>Total</b>	211	0	0	35	0	0	0	0	0	247

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
<b>Current</b>	247	0	0	0	0	0	0	0	2	291
<b>Next Step</b>	0	274	259	42	0	188	384	0	0	1386
<b>Total</b>	247	274	259	42	0	188	384	0	2	1677

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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>6</b>	<b>63086006-Cut</b>	50.7	4124 - Red with White Oak	8	101	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Final harvest leave three to ten percent retention.  <u>Specs:</u>  <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen;  <u>Treatments:</u> Monitoring, Artificial Regen; Planting, Unfurrowed; NonCommCut, Brush Saw Release; Planting, Interplant;  <u>Acceptable</u> Moderate to fully stocked red pine with oak mixed in.  <u>Regen:</u>  <u>Other</u> Include oak wilt spec as well as trail protection specs and shrub protection.  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>											
<b>7</b>	<b>63086007-Cut</b>	86.1	4124 - Red with White Oak	7	101	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Final harvest all species 2 inches and greater at DBH.  <u>Specs:</u>  <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen;  <u>Treatments:</u> Monitoring, Artificial Regen (3yr)  <u>Acceptable</u> Moderate to fully stocked red pine  <u>Regen:</u>  <u>Other</u> Long term objective is to convert back to an oak cover type. Include oak wilt spec as well as trail protection specs and shrub protection.  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>											
<b>13</b>	<b>63086013-NF</b>	1.8	3103 - Rubus-Fern	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.  <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>											

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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>57 63086057-Cut</b>	25.7	4139 - Aspen, Mixed Deciduous	5	56	1-50	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription Specs:</u> Final harvest all species 2 inches and greater at DBH. Leave all pine 10 inches and greater at DBH. Leave 3-10 percent retention. Size of stand may vary depending on ground conditions when prepped.										
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Acceptable Regen:</u> Moderate to fully stocked aspen, oak, maple, and white or red pine.										
<u>Other Comment:</u> Include trail protection specs and grouse spec.										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
<b>59 63086059-Opening</b>	21.0	3205 - Mixed Upland Shrub	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription Specs:</u> Maintain as an opening/upland shrub. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species. Two trail segments running through stand.										
<u>Next Step Treatments:</u> Openings Mgmt., Brush Mgmt.; Openings Mgmt., Mowing; Openings Mgmt., Disking/Plowing; Openings Mgmt., Grass/Forb Planting; Planting, Mast trees; Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt., Mowin										
<u>Acceptable Regen:</u>										
<u>Other Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
<b>61 63086061-Cut</b>	7.9	4130 - Aspen	6	56	Unspec ified	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription Specs:</u> Final harvest all species 2 inches and greater at DBH. Leave all pine 10 inches and greater at DBH. No retention due to small size. Size of stand may vary depending on ground conditions when prepped.										
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Acceptable Regen:</u> Moderate to fully stocked aspen, oak, maple, and white or red pine.										
<u>Other Comment:</u> Include oak wilt spec, trail protection specs and grouse spec.										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
<b>75 63086075-Cut</b>	35.3	4126 - White, Black, N. Pin Oak	9	101	51-80	Harvest	Seed Tree	412 - Oak Types	Planting Record	No
<u>Prescription Specs:</u> Cut all species 2 inches and greater. Leave all white pine. In addition leave 1 to 2 white oak trees per acre where present. Leave 3-10 percent retention.										
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Acceptable Regen:</u> Moderate to fully stocked Oak, Maple, Pine, Aspen										
<u>Other Comment:</u> Include oak wilt spec as well as trail protection specs.										
<u>Site Condition:</u>										
<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>77 63086077-Opening</b>	2.4	4124 - Red with White Oak	8	101	1-50	Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<p><u>Prescription</u> keep as low density trees. this may include cutting some trees/brush as needed to keep in a low density state.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed low density trees</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
<b>84 63086084-Cut</b>	41.0	4139 - Aspen, Mixed Deciduous	9	66	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Final harvest, cut all species 2 inches and greater at dbh. Leave all cedar and hemlock. Try and place retention where mapped for bmps/retention purpose.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked Aspen, Maple, Oak, Red and White Pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Include trail protection specs and grouse spec and massasaga spec.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
<b>40 Horseshoe Lake Flooding</b>	19.2	6220 - Alder/Willow	99			Water Level Mgmt.	Water Level Mgmt.	623 - Emergent Wetland	Previous Inventory	No
<p><u>Prescription</u> This area is subject to water level manipulations at the private dam on Horseshoe lake to the northwest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

**Total Treatment** 291.1  
**Acres Proposed:**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Andrew Krugh: Examiner

Compartment: 86  
Year of Entry: 2027

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5B	5C	2G	5E
662	646	0	16	Aspen			4	11
6	6	0	0	Bog				
31	0	0	31	Cedar			31	
2	2	0	0	Cropland				
6	6	0	0	Herbaceous Openland				
15	15	0	0	Low-Density Trees				
7	7	0	0	Lowland Aspen/Balsam Poplar				
104	0	0	105	Lowland Conifers			105	
15	0	0	15	Lowland Deciduous			15	
47	47	0	0	Lowland Shrub				
8	8	0	0	Marsh				
243	235	8	0	Mixed Upland Deciduous		8		
11	11	0	0	Natural Mixed Pines				
52	52	0	0	Northern Hardwood				
874	600	275	0	Oak	275			
7	7	0	0	Red Pine				
39	0	0	39	Tamarack			39	
20	20	0	0	Upland Conifers				
119	119	0	0	Upland Mixed Forest				
21	21	0	0	Upland Shrub				
56	56	0	0	Water				
15	15	0	0	White Pine				
2,360	1,873	282	204	Total Forested Acres	275	8	193	11
	79%	12%	9%	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	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Andrew Krugh: Examiner**

**Compartment: 86**  
**Year of Entry: 2027**

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Andrew Krugh: Examiner

Compartment: 86  
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8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Make determination during stage 2 if accesable and if not too wet.							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	264	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Oak overstory over regen.							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Andrew Krugh: Examiner**

**Compartment: 86**  
**Year of Entry: 2027**

15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	43	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.

<b>SCA Name</b>	<b>SCA Category</b>	<b>Detail Type</b>	<b>Recommendation</b>	<b>Acres</b>
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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
<b>1</b>	4133 - Aspen, Mixed Pine	Sapling Well	20.3	37		N/A	Some open areas. Cut in 89, getting to pole size.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		30	Sapling/Pole	4		Witch Hazel	
Bigtooth Aspen		40	Sapling/Pole	4	37	White Pine	
White Pine		30	Sapling/Pole	4		Red Maple	
						Bigtooth Aspen	
						<b>Density</b>	<b>Avg. Height</b>
						Low	10 - 20 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
<b>2</b>	4133 - Aspen, Mixed Pine	Poletimber Medium	5.4	37	Unspecified	N/A	Same as 1 and 3
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		30	Sapling/Pole	4		Witch Hazel	
Bigtooth Aspen		40	Sapling/Pole	4	37	White Pine	
White Pine		30	Sapling/Pole	4		Red Maple	
						Bigtooth Aspen	
						<b>Density</b>	<b>Avg. Height</b>
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
<b>3</b>	4133 - Aspen, Mixed Pine	Sapling Poor	6.3	37	Unspecified	N/A	Same as 1 and 2
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		30	Sapling/Pole	4		Witch Hazel	
Bigtooth Aspen		40	Sapling/Pole	4	37	White Pine	
White Pine		30	Sapling/Pole	4		Red Maple	
						Bigtooth Aspen	
						<b>Density</b>	<b>Avg. Height</b>
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
<b>4</b>	42200 - Natural White Pine	Poletimber Medium	15.3	34	1-50	N/A	Portion of stand was cut with sale 86 mix in 2021. Overstory removal of larger pine. Hand cut sale.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Sapling	2		Red Maple	
White Pine		45	Pole/Sapling	5	34	Red Pine	
White Pine		15	Log	13		White Pine	
Red Pine		30	Sapling/Pole	4		Jack Pine	
						<b>Density</b>	<b>Avg. Height</b>
						Low	5 - 10 feet
						Low	5 - 10 feet
						Medium	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
<b>5</b>	4310 - Pine, Oak Mix	Poletimber Medium	9.1	66	81-110	N/A	Do an overstory removal or diameter cut. Remove all log size trees marking a few mast oak to leave. Release established regen. Stand is going to white pine. Leave stand and let it conifer to pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Pole	6		Red Oak	
Red Oak		30	Log	14	91	White Oak	
White Oak		5	Pole/Log	8		White Pine	
White Pine		50	Pole/Log	8	66	Red Maple	
Red Pine		5	Log	10			
						<b>Density</b>	<b>Avg. Height</b>
						Low	< 5 feet
						Low	< 5 feet
						High	>20 feet
						Low	5 - 10 feet
						Low	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
6	4124 - Red with White Oak	Sawtimber Medium	88.6	101	1-50	N/A	Treated with sale 63-047-07-01 Residual oak looks healthy.																																																	
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7	4124 - Red with White Oak	Sawtimber Poor	349.9	101	1-50	N/A	Regen finally coming in with some patches of solid oak. Overstory residual oak still looks healthy with a few being stolen for firewood. Look at an overstory removal next time when regen is well established.																																																	
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8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	17.7	96	81-110	N/A	Do an oak shelterwood leave 70 to 80 ba. This stand is a hillside will have to build a road or skid trail in to it. May treat with adjoining compartment due to small acreage. Stand is hilly. If ever harvested it may have to be a final harvest or seed tree.																																																	
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9	4130 - Aspen	Sapling Well	8.6	15	Immature	N/A	Bottom of hill, but not wet. Treated with sale 63-043-07-01																																																	
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10	4130 - Aspen	Sapling Well	25.8	28	Unspecified	N/A	Cut in 98 came back mostly solid but a few patchy spots. Scattered red oak log trees left.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**11** 3301 - Low Density Deciduous Trees None 15.1 No Still open but filling in with mostly white pine. Could be a wildlife opening with a little effort. Slight hill

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Low	5 - 10 feet	5 - 10 feet
White Pine	Low	>20 feet	>20 feet
Red Maple	Trace	5 - 10 feet	5 - 10 feet
Bracken Fern	Low	Not Applicable	Not Applicable
Cherry (spp.)	Low	5 - 10 feet	5 - 10 feet
Red Oak	Low	>20 feet	>20 feet

**12** 6123 - Lowland Fir Poletimber Medium 10.3 61 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	5		Red Maple	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	50	Pole	5	61	Balsam Fir	High	< 5 feet	< 5 feet
Black Spruce	20	Pole	5		Alder	High	5 - 10 feet	5 - 10 feet
Northern White Cedar	5	Pole	6					
White Pine	5	Log/Pole	10					

**13** 3103 - Rubus-Fern None 1.8 No

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Low	5 - 10 feet	5 - 10 feet
Mixed Sedges/Grasses	Medium	Not Applicable	Not Applicable
White Pine	Trace	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet
Bracken Fern	High	Not Applicable	Not Applicable
Red Oak	Low	5 - 10 feet	5 - 10 feet

**14** 6225 - Bog None 2.0 No

Sub-Canopy Species	Density	Avg. Height	Size
Sphagnum Moss	Full	Not Applicable	Not Applicable
Leatherleaf	Full	5 - 10 feet	5 - 10 feet
White Pine	Low	10 - 20 feet	10 - 20 feet
Tamarack	Low	10 - 20 feet	10 - 20 feet

**15** 4310 - Pine, Oak Mix Poletimber Poor 7.7 46 1-50 N/A This stand looks to have been cut or burned hot. Stumps have burn scars. Regen is starting to fill in.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	40	Log/Pole	12	46
White Oak	15	Pole	8	
White Pine	40	Log/Pole	11	46
Jack Pine	5	Pole	6	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
16	4319 - Mixed Upland Forest	Poletimber Well	14.1	76	51-80	N/A																																																											
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19	4131 - Aspen, Oak	Sapling Poor	3.8	29	Unspecified	N/A	Final harvest area from previous oak sale. Almost non forested, just enough coming back in to have canopy. Patchy regen																																																										
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20	623 - Emergent Wetland	None	1.7			No	Creek running through, some cattails. Interesting to see cedar seedlings not browsed.																																																										
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21	4130 - Aspen	Poletimber Well	62.3	37	Unspecified	N/A	cut in 89 just getting to pole size came back solidGood looking stand. It will hold until next yoe. Far east end is larger trees while majority of the stand is 4 to 6 inch dbh.																																																										
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22	500 - Water	None	0.3			No	vernal pond																																																										

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>23</b>	4131 - Aspen, Oak	Poletimber Well	59.2	37	141-170	N/A	Cut in 89 just getting to pole size. Good mix of species. Some open areas
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	5	37	White Pine	Low	< 5 feet	< 5 feet
Red Oak	10	Pole/Sapling	5		Beech	Low	5 - 10 feet	5 - 10 feet
White Oak	10	Sapling/Pole	4		Red Oak	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	50	Pole/Sapling	5	37	Red Maple	Low	5 - 10 feet	5 - 10 feet
White Pine	5	Sapling/Pole	4		Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Red Pine	5	Sapling/Pole	4					

<b>24</b>	4131 - Aspen, Oak	Sapling Medium	7.3	6	Immature	N/A	Stand final harvested in 2020.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Red Oak	10	Sapling	1	
White Oak	10	Sapling	1	
Bigtooth Aspen	60	Sapling	1	6

<b>25</b>	6120 - Lowland Cedar	Poletimber Well	30.8	111	81-110	N/A	West end not as much subcanopy and more log size trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8		Balsam Fir	High	5 - 10 feet	5 - 10 feet
Paper Birch	5	Pole/Log	8		Tamarack	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	10	Pole/Sapling	5		Alder	Medium	5 - 10 feet	5 - 10 feet
Black Spruce	20	Pole/Log	8					
Northern White Cedar	50	Pole/Log	9	111				
White Pine	5	Log/Pole	10					

<b>26</b>	4130 - Aspen	Poletimber Well	37.4	29	Unspecified	N/A	Cut in 97 solid aspen getting to pole size
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling/Pole	4		White Pine	Low	< 5 feet	< 5 feet
Red Oak	5	Sapling/Pole	4		Red Maple	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	45	Pole/Sapling	5	29	Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	30	Pole/Sapling	5	29	Red Oak	Low	5 - 10 feet	5 - 10 feet
					Quaking Aspen	Low	5 - 10 feet	5 - 10 feet

<b>27</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	3.9	71	81-110	N/A	Natural pine stand, I small acreage.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Red Oak	10	Log/Pole	10		White Pine	Medium	10 - 20 feet	10 - 20 feet
White Oak	10	Log/Pole	10		Red Pine	Low	5 - 10 feet	5 - 10 feet
White Pine	30	Log/Pole	10					
Red Pine	40	Log	12	71				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**30** 4139 - Aspen, Mixed Deciduous Poletimber Medium 6.8 66 51-80 N/A

A difficult stand to categorize. A recovering upland brush area. Mostly smallish aspen growing amidst black cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	6		Serviceberry (Juneberry)	Low	10 - 20 feet	10 - 20 feet
Red Oak	10	Log/Pole	10		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet
White Oak	5	Pole	6		Red Maple	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	20	Pole	6		Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	30	Pole	8	66	White Oak	Low	10 - 20 feet	10 - 20 feet
White Pine	5	Pole	6		White Pine	Low	5 - 10 feet	5 - 10 feet
Black Cherry	10	Pole	6		Black Cherry	Low	5 - 10 feet	5 - 10 feet

**31** 42210 - Natural Red Pine Sawtimber Well 7.3 53 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log	11		Red Oak	Low	5 - 10 feet	5 - 10 feet
Red Pine	90	Log/Pole	10	53	Red Maple	Medium	10 - 20 feet	10 - 20 feet
					Bigtooth Aspen	Medium	10 - 20 feet	10 - 20 feet

**32** 6124 - Lowland Spruce-Fir Poletimber Well 43.2 81 141-170 N/A

A creek runs through the stand. Majority of the cedar is along the creek corridor.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8		Black Ash	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	10	Pole/Log	8		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	40	Pole/Log	8	81	Tag Alder	Low	5 - 10 feet	5 - 10 feet
Black Spruce	15	Pole	6		Balsam Fir	High	10 - 20 feet	10 - 20 feet
Northern White Cedar	20	Pole/Log	8					
Hemlock	5	Pole/Log	8					

**33** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 14.6 86 1-50 N/A

Some low spots with humocky ground. Thick Balsam understory. A few Wp super canopy. Deer yard. Some blowdown. Creek within stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Log/Pole	10	86	Red Maple	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	10		12		Beech	Low	< 5 feet	< 5 feet
Balsam Fir	20	Pole	9		White Oak	Low	5 - 10 feet	5 - 10 feet
Black Spruce	10	Pole	7		Balsam Fir	High	5 - 10 feet	5 - 10 feet
Northern White Cedar	10	Pole	6		Alder	Medium	10 - 20 feet	10 - 20 feet

**34** 4130 - Aspen Sapling Well 4.4 16 Immature N/A

Final harvested with sale # 008-09-02

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	2	12	Red Maple	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	60	Sapling	2	16	Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	5	Sapling	3		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar	5	Pole	6					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
35	6239 - Mixed Emergent Wetland	None	6.5			No	Cannon creek/flooding																																																	
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36	4131 - Aspen, Oak	Sapling Well	23.5	6	Immature	N/A	Stand was final harvested in 2020. Broke up larger stand.																																																	
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37	4139 - Aspen, Mixed Deciduous	Poletimber Well	21.9	56	Unspecified	N/A	Some areas solid aspen. East end solid black cherry.																																																	
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38	4124 - Red with White Oak	Sawtimber Poor	43.9	101	1-50	N/A	Salvaged dead and dying oak. Stand was cut with sale #63-027-09-01 Compartment 86 Oak. This sale was tree length skidded and chipped in the winter of 2013. This stand is not regenerating as much oak as stand 50 to the south it was cut with.																																																	
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39	4130 - Aspen	Sapling Well	5.4	6	Immature	N/A	Stand final harvested in 2020. Part of Aspen 86.																																																	
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40	6220 - Alder/Willow	None	20.9			No																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**42** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 18.3 101 81-110 N/A  
Varies a lot. Cedar patches, alder patches, mix hdwd areas, old over topping aspen. alot of dead and down-hard to walk thru. All low and wet. Deer yard under cedar spots. small flowing creek near main rd. on east side.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	10	Pole	6	76	Tag Alder	High	10 - 20 feet	10 - 20 feet
Balsam Fir	40	Pole	6	101	Balsam Fir	High	10 - 20 feet	10 - 20 feet
Northern White Cedar	20	Pole/Log	8	101	Black Cherry	Low	10 - 20 feet	10 - 20 feet
Black Ash	5	Pole	6					
Black Cherry	10	Pole	6					

**43** 4124 - Red with White Oak Sawtimber Medium 40.0 101 1-50 N/A  
Treated with sale 63-047-07-01 Residual oak looks healthy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	60	Log	12	101	White Oak	Low	< 5 feet	< 5 feet
White Oak	20	Log	12		Beech	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	20	Log	10	91	Red Oak	Low	< 5 feet	< 5 feet
					White Pine	Low	5 - 10 feet	5 - 10 feet
					Red Maple	Low	5 - 10 feet	5 - 10 feet
					Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet

**44** 4139 - Aspen, Mixed Deciduous Sawtimber Well 4.8 66 111-140 N/A  
Treat whole stand but leave some islands of smaller diameter areas. There are some open areas that naturally won't be treated. Site condition along flooding is buffer area, do not treat. 38 acres of this stand was treated with sale 63-013-17-01 now A3 stand

**45** 6112 - Lowland Aspen Sapling Well 6.7 16 Unspecified N/A  
Treated with sale #008-09-02

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	2	16	Balsam Fir	Low	< 5 feet	< 5 feet
Quaking Aspen	60	Sapling	2	16	Red Maple	Low	< 5 feet	< 5 feet
Balsam Fir	10	Sapling	1		Bigtooth Aspen	Low	< 5 feet	< 5 feet

**46** 4130 - Aspen Sapling Well 9.9 16 Immature N/A  
Cut in 2010 came back pretty solid.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling	1	16	Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	70	Sapling	1	16	Red Maple	Low	< 5 feet	< 5 feet
White Pine	5	Sapling	1		Bigtooth Aspen	Low	< 5 feet	< 5 feet
Black Cherry	5	Sapling	1					

**47** 6121 - Tamarack Poletimber Poor 38.7 96 51-80 N/A  
Wet Tamarack/conifer sparse canopy, multi layers

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	8		Alder Leaved Buckthorn	Medium	5 - 10 feet	5 - 10 feet
Tamarack	80	Pole/Log	9	96	Balsam Fir	High	10 - 20 feet	10 - 20 feet
White Pine	10	Log	14	76	Tamarack	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	4131 - Aspen, Oak	Sapling Well	33.8	37	141-170	N/A	Cut in 89 just getting to pole size. Good mix of species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	5	37	White Pine	Low	< 5 feet	< 5 feet
Red Oak	10	Pole/Sapling	5		Red Maple	Low	5 - 10 feet	5 - 10 feet
White Oak	10	Sapling/Pole	4		Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	50	Pole/Sapling	5	37	Beech	Low	5 - 10 feet	5 - 10 feet
White Pine	5	Sapling/Pole	4		Red Oak	Low	5 - 10 feet	5 - 10 feet
Red Pine	5	Sapling/Pole	4					

49	4131 - Aspen, Oak	Sapling Well	11.2	6	Immature	N/A	Stand was final harvested in 2020. Broke up larger stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Red Oak	10	Sapling/Pole	2	
White Oak	10	Sapling	3	
Bigtooth Aspen	50	Sapling	1	6
Black Cherry	10	Sapling	1	

50	4126 - White, Black, N. Pin Oak	Sawtimber Poor	94.5	101	1-50	N/A	Stand was cut with sale #63-027-09-01 Compartment 86 Oak. This sale was tree length skidded and chipped in the winter of 2013.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	30	Log	14		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
White Oak	60	Log	14	101	Black Cherry	Low	5 - 10 feet	5 - 10 feet
White Pine	10	Log	14		Red Oak	Medium	5 - 10 feet	5 - 10 feet
					White Oak	Low	10 - 20 feet	10 - 20 feet
					Red Maple	Medium	10 - 20 feet	10 - 20 feet
					Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet

51	4199 - Other Mixed Upland Deciduous	Poletimber Well	53.2	56	81-110	N/A	Recovering "upland brush." Lot of poor quality scattered black cherry poles along with scattered aspen clones.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
White Oak	10	Pole	6		White Oak	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	35	Pole	8	56	White Pine	Low	5 - 10 feet	5 - 10 feet
White Pine	10	Pole	6		Black Cherry	Low	10 - 20 feet	10 - 20 feet
Black Cherry	25	Pole/Sapling	6	56				

52	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	20.0	101	81-110	N/A	Large diameter Wp with areas of alder, low, wet. Some areas of solid cedar. Ridge areas have the pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8		Red Maple	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	10	Pole/Log	9		Alder	High	5 - 10 feet	5 - 10 feet
Balsam Fir	30	Pole	6		Balsam Fir	High	10 - 20 feet	10 - 20 feet
Black Spruce	5	Pole	6		Tamarack	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	40	Pole/Log	8	101				
Hemlock	5	Pole	6					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
53	6225 - Bog	None	2.0			No	Leather leaf hummocky																																																						
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56	3103 - Rubus-Fern	None	2.7			No	Mostly bracken fern, some sweet fern. Could be a wildlife opening with some work.																																																						
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58	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.5	97	81-110	N/A																																																							
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59	3205 - Mixed Upland Shrub	None	21.0			No	Good candidate to make some wildlife openings. Easy access																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**60** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 26.7 66 81-110 N/A A difficult stand to categorize. A recovering upland brush area. Mostly smallish aspen growing amidst black cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet
Red Oak	10	Log/Pole	10		White Oak	Low	10 - 20 feet	10 - 20 feet
White Oak	10	Pole	6		Serviceberry (Juneberry)	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	30	Pole/Sap/Log	9	66	White Pine	Low	5 - 10 feet	5 - 10 feet
White Pine	20	Pole/Sap/Log	8		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Black Cherry	10	Pole	6		Red Maple	Low	5 - 10 feet	5 - 10 feet
					Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet

**61** 4130 - Aspen Poletimber Well 7.9 56 Unspecified N/A Still healthy and growing well, leave until next year of entry

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	6		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	80	Pole	8	56	Red Maple	Medium	10 - 20 feet	10 - 20 feet
					Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet

**62** 4130 - Aspen Poletimber Well 6.9 26 Immature N/A Stand treated and closed in 2000 Previous data. Didn't have access to the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling/Pole	4		Red Maple	Medium	< 5 feet	< 5 feet
Bigtooth Aspen	70	Sapling/Pole	4	26	Bigtooth Aspen	Medium	< 5 feet	< 5 feet
Balsam Fir	10	Sapling/Pole	4					

**63** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 13.8 66 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Paper Birch	5	Pole	8		Red Maple	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	15	Pole	8	66	Tag Alder	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	30	Pole	8	66	Black Cherry	Low	10 - 20 feet	10 - 20 feet
Black Spruce	5	Pole	8					
Northern White Cedar	10	Pole	6					
White Pine	25	Log	16	86				

**65** 4124 - Red with White Oak Sawtimber Well 49.6 101 51-80 N/A Treated with sale #39-07 Left pole size maple along with sawlog oak marked green to leave. Good regen of aspen, maple and oak coming in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet
Red Oak	40	Log	16	101	White Oak	Medium	5 - 10 feet	5 - 10 feet
White Oak	35	Log	16		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Red Pine	5	Log/Pole	10		Bigtooth Aspen	Medium	10 - 20 feet	10 - 20 feet
					Red Oak	Medium	5 - 10 feet	5 - 10 feet
					White Pine	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**66** 4199 - Other Mixed Upland Deciduous Poletimber Medium 100.8 56 51-80 N/A Very patchy. Open savannah areas

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Sapling	5	56	Red Maple	Medium	5 - 10 feet	5 - 10 feet
Red Oak	25	Log/Pole/XLog	12		White Oak	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	10	Sapling/Pole	4		Black Cherry	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	20	Pole	6		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet
Black Cherry	15	Pole/Log	8	56				

**67** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 16.5 76 51-80 N/A Very mixed stand of sizes and species. Good corridor stand right now between recent cuts. Treat next yoe

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Red Oak	25	Log/Pole	14	76	Red Pine	Low	10 - 20 feet	10 - 20 feet
White Oak	5	Log/Pole	12		White Oak	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	10	Log/Pole	10		Red Oak	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	10	Pole	8		White Pine	Medium	10 - 20 feet	10 - 20 feet
White Pine	20	Log/Pole	12					
Red Pine	20	Log/Pole	10	76				

**68** 4124 - Red with White Oak Sawtimber Medium 63.1 101 1-50 N/A Stand was cut in fall of 2019, Nelson Mix 63-025-17. 30 to 50 BA of oak was left.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	40	Log/Pole	12		Red Maple	Low	5 - 10 feet	5 - 10 feet
White Oak	60	Log/Pole	12	101	White Oak	Medium	10 - 20 feet	10 - 20 feet
					Red Oak	Low	10 - 20 feet	10 - 20 feet
					White Pine	Medium	5 - 10 feet	5 - 10 feet
					Black Cherry	Low	5 - 10 feet	5 - 10 feet

**71** 500 - Water None 55.2 No Cannons Flooding number 2.  
Control structure removed and old stream channel restored.

**72** 4130 - Aspen Poletimber Well 15.4 38 Unspecified N/A Transitioning to pole size aspen stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	7		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	70	Pole/Sapling	7	38	Black Cherry	Low	10 - 20 feet	10 - 20 feet
Black Cherry	10	Pole/Sapling	6		Red Maple	Low	5 - 10 feet	5 - 10 feet
					Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**74** 4130 - Aspen Poletimber Well 65.6 38 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Black Cherry	Medium	5 - 10 feet	5 - 10 feet
Red Oak	5	Pole/Sapling	6		Beech	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	70	Pole/Sapling	6	38	Red Maple	Medium	5 - 10 feet	5 - 10 feet
Black Cherry	15	Pole/Sapling	6		Bigtooth Aspen	Medium	5 - 10 feet	5 - 10 feet

**75** 4126 - White, Black, N. Pin Oak Sawtimber Well 35.3 101 51-80 N/A

Very low quality overall. Some super canopy pine. Filling in with wp saps.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	10		White Pine	Medium	5 - 10 feet	5 - 10 feet
Red Oak	30	Log	11		Red Maple	Medium	10 - 20 feet	10 - 20 feet
White Oak	40	Log	11	101	Bigtooth Aspen	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	10	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
White Pine	5	Log	16					
Red Pine	5	Log/Pole	10					

**77** 4124 - Red with White Oak Sawtimber Medium 174.5 101 1-50 N/A

Treated with sale # 39-07 Left sawlog oak and pine. Good regen of maple aspen and oak coming in

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	50	Log	12	101	White Pine	Low	10 - 20 feet	10 - 20 feet
White Oak	40	Log	12	101	White Oak	Medium	10 - 20 feet	10 - 20 feet
White Pine	5	Log	12		Red Oak	Medium	10 - 20 feet	10 - 20 feet
Red Pine	5	Log	12		Red Maple	High	10 - 20 feet	10 - 20 feet
					Bigtooth Aspen	High	10 - 20 feet	10 - 20 feet

**78** 6225 - Bog None 1.6 No

Low area in middle of aspen stand

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	>20 feet	>20 feet
Leatherleaf	High	5 - 10 feet	5 - 10 feet
Black Spruce	Trace	5 - 10 feet	5 - 10 feet
Dogwood (spp.)	Trace	5 - 10 feet	5 - 10 feet
Alder	Medium	5 - 10 feet	5 - 10 feet

**79** 4116 - Mixed N. Hardwood - Aspen Poletimber Medium 34.6 51 51-80 N/A

Savannah type open stand with mostly black cherry trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling/Pole	3		Red Maple	Low	< 5 feet	< 5 feet
Red Oak	10	XLog/Log	18		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	10	Sapling/Pole	3		Black Cherry	Low	< 5 feet	< 5 feet
Bigtooth Aspen	15	Sapling/Pole	3					
Black Cherry	40	Pole	6	51				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>83</b>	4124 - Red with White Oak	Sawtimber Poor	10.8	91	1-50	N/A	Stand recently thinned (1999 permit). Oak was thinned aspen and maple removed.		
<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 Oak		70	Log/Pole	12	91	Red Oak	Low	10 - 20 feet	10 - 20 feet
White Oak		30	Pole/Log	8		White Oak	Low	10 - 20 feet	10 - 20 feet
						Red Maple	High	10 - 20 feet	10 - 20 feet
						Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet
<b>84</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	45.6	66	111-140	N/A	Treat whole stand but leave some islands of smaller diameter areas. There are some open areas that naturally won't be treated. Site condition along flooding is buffer area, do not treat. 38 acres of this stand was treated with sale 63-013-17-01 now A3 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		20	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Paper Birch		5	Pole	8		Red Maple	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		25	Log/Pole	10		Bigtooth Aspen	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen		30	Log/Pole	10	66	Black Cherry	Low	5 - 10 feet	5 - 10 feet
White Pine		10	Log/Pole	12		Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet
Black Cherry		10	Pole/Log	8					
<b>86</b>	4130 - Aspen	Poletimber Well	56.0	27	Unspecified	N/A	Cut in 99		
<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		20	Sapling/Pole	4		Black Cherry	Low	< 5 feet	< 5 feet
Bigtooth Aspen		70	Sapling/Pole	4	27	Red Maple	High	< 5 feet	< 5 feet
Black Cherry		10	Sapling/Pole	4		Bigtooth Aspen	High	< 5 feet	< 5 feet
<b>88</b>	4319 - Mixed Upland Forest	Poletimber Medium	17.6	56	1-50	N/A	Multiple Hawthorne beds, good for wildlife. White pine filling in.		
<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>
White Oak		10	Pole/Sapling	6		White Pine	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		10	Pole/Sapling	6		Black Cherry	Medium	5 - 10 feet	5 - 10 feet
White Pine		50	Log/Pole	10	56	Hawthorn (spp.)	Medium	5 - 10 feet	5 - 10 feet
Black Cherry		30	Pole	8		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
<b>89</b>	4133 - Aspen, Mixed Pine	Sapling Well	20.4	9	Immature	N/A	Treat leaving smaller diameter oak. Buffer flooding on south. Treated with sale 63-013-17-01		
<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		20	Sapling	1		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet
White Oak		10	Log/Pole	10		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Bigtooth Aspen		40	Sapling	1	9	White Pine	Medium	10 - 20 feet	10 - 20 feet
White Pine		20	Log/Pole	10		Hawthorn (spp.)	Medium	5 - 10 feet	5 - 10 feet
Black Cherry		10	Pole/Log	8					
<b>90</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	17.0	9	Immature	N/A	Similar to stand 101. Open areas through out stand Maple is Clumpy with multiple stems Treated with sale 63-013-17-01		
<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		50	Sapling	1	9	Black Cherry	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen		30	Sapling	1		Red Maple	High	10 - 20 feet	10 - 20 feet
Black Cherry		20	Sapling	1		Bigtooth Aspen	Medium	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
91	4124 - Red with White Oak	Sawtimber Medium	10.3	96	1-50	N/A	Stand was cut in fall of 2019 Nelson Mix 63-025-17. 40-50 BA of oak was left on average.																																																		
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92	6220 - Alder/Willow	None	23.9			No	Creek runs through																																																		
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95	4139 - Aspen, Mixed Deciduous	Sapling Well	12.6	9	Immature	N/A	Kind of an edge stand along flooding also borders rye field. Cut with sale 63-013-17-01																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**98** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 5.7 66 Unspecified N/A Wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Balsam Fir	High	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	30	Log/Pole	10	66	Tamarack	Low	< 5 feet	< 5 feet
Balsam Fir	30	Pole	6		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Northern White Cedar	10	Pole	8	91	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
White Pine	20	Log	14					

**100** 3105 - Mixed Upland Herbaceous None 1.6 No Old norwich dump. (abandoned)

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	5 - 10 feet
Spotted Knapweed	Low	Not Applicable	Not Applicable
Mixed Grasses	Medium	Not Applicable	Not Applicable
Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Bracken Fern	Low	Not Applicable	Not Applicable
Sweet Fern	Low	5 - 10 feet	5 - 10 feet

**101** 4139 - Aspen, Mixed Deciduous Sapling Well 75.8 9 171-200 N/A Treated with sale 63-013-17-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	1		Red Pine	Low	10 - 20 feet	10 - 20 feet
Red Oak	10	Log	16	91	Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	35	Sapling	1	9	Black Cherry	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	15	Sapling	1	9	Red Oak	Low	5 - 10 feet	5 - 10 feet
Black Cherry	10	Pole/Log	8					

**102** 4139 - Aspen, Mixed Deciduous Sapling Well 62.1 17 Unspecified N/A Treated with sale #63-032-07-01 Came back thick to aspen and maple Some scattered saw log oak left.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Sapling	2		Red Maple	Medium	5 - 10 feet	5 - 10 feet
Red Oak	5	Log	14		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	45	Sapling	2	17	Red Oak	Low	5 - 10 feet	5 - 10 feet
Black Cherry	10	Sapling	2		Black Cherry	Low	5 - 10 feet	5 - 10 feet

**103** 4311 - Pine, Aspen Mix Sawtimber Medium 70.4 61 1-50 N/A Treated with sale #59-07 Solid buffer left along flooding. Stand almost looks to be logger select cut.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15		3		Red Maple	Medium	< 5 feet	< 5 feet
White Oak	5	Log/Pole	12		Bigtooth Aspen	Medium	< 5 feet	< 5 feet
Bigtooth Aspen	20		3	16	White Oak	Low	10 - 20 feet	10 - 20 feet
White Pine	50	Log/Pole	12	61	Red Oak	Low	10 - 20 feet	10 - 20 feet
Black Cherry	10		3		White Pine	Low	< 5 feet	< 5 feet
					Black Cherry	Medium	< 5 feet	< 5 feet