

# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63098

Entry Year: 2027

Acreage: 1,642

County: Missaukee

Management Area: High Sand Plains

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**Stand Examiner:** Todd Lewis

## **Legal Description:**

Sections 1-4, T21N R5W, Missaukee County

## **Identified Planning Goals:**

Vegetation management in the Upper Muskegon management area will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

## **Soil and topography:**

Sandy areas contain Rubicon, Crosswell, and Kalkaska soils. Wet areas are composed of Histosols and Lupton muck. Compartment is mostly level with numerous wet areas and includes a portion of the Muskegon River.

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

Solid state ownership in section 1 and partial state ownership in the other sections. Surrounding private land is mostly seasonal homes and recreational properties. Some farmland exists to the west of this compartment.

## **Unique Natural Features:**

Osprey and eastern massasauga have been identified in areas near the eastern portion of the compartment. A Great Blue Heron rookery was past identified in the dead cedar flooding, but it is no longer present. Eagles are present to the east and northeast and wood turtles are present to the southeast.

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

Indian cemetery, mounds, and prehistoric pits are located in this compartment. Several old homesteads with intact foundations are still present.

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

The Muskegon River runs through the compartment. Considerations for BMP and RMZ management must be taken into account when prescribing treatments near the river or its tributaries.

## **Watershed and Fisheries Considerations:**

The Muskegon River runs southerly through the center of this compartment. The fishery is primarily walleye and northern pike. The standard buffer of 100 feet is requested.

## **Wildlife Habitat Considerations:**

Part of the eastern block of this compartment includes an Eastern Massauga Rattlesnake Management Area. This compartment contains a variety of wildlife habitats, numerous deer yard areas, and numerous wetland complexes. Maintaining this variety of habitats at various age classes will continue to provide valuable habitat to numerous game and non-game species. Featured species of particular interest in this compartment are deer, ruffed grouse, woodcock, bear and snowshoe hare. It is important to retain the oak component in this compartment for mast production. 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**

Sections 1-4, T21N R5W, Missaukee County

Surface sediments consist of ice-contact outwash, glacial outwash sand and gravel and postglacial alluvium, and fine- and coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Pennsylvanian Saginaw Formation. The Saginaw is quarried for clay/shale in other parts of the state. A gravel pit is located

just to the west in Section 5 and another to the northwest in Section 32 (T22N R5W). Potential is considered to be good on the uplands. The Prosper fields are located three miles to the northwest. The fields have produced almost 3 million bbls oil from the Devonian Richfield, Dundee, and Traverse as well as over 155 MMcf gas from the Stray. Oil and gas leases are currently pending for the majority of 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. There is minimal vehicle access through this compartment. The Muskegon river also causes access issues as the only place to cross the river is on Cadillac Rd along the northern edge of the compartment. Other access is via seasonal county roads and scattered forest two-tracks.

**Survey Needs:**

No additional surveys are needed at this time.

**Recreational Facilities and Opportunities:**

A section of Snowmobile Trail 6/7 (Stratford-Higgins snowmobile trail) is located in the southwest portion of this compartment. Specifically, appropriate measures identified in DNR Policy & 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 in this compartment. Hunting, fishing, and dispersed camping opportunities are also available within this compartment. (T.M.N. 12/16/14).

**Fire Protection:**

Access for fire equipment is limited to the higher lands within the compartment. The Muskegon River causes access concerns for the east side of the compartment. Dispersed camping and river users can increase the potential for fire causes within the unit.

**Additional Compartment Information:**

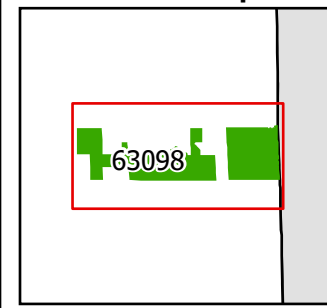
**The following reports from the Inventory are attached:**

- 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**

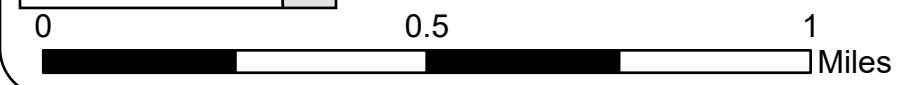
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

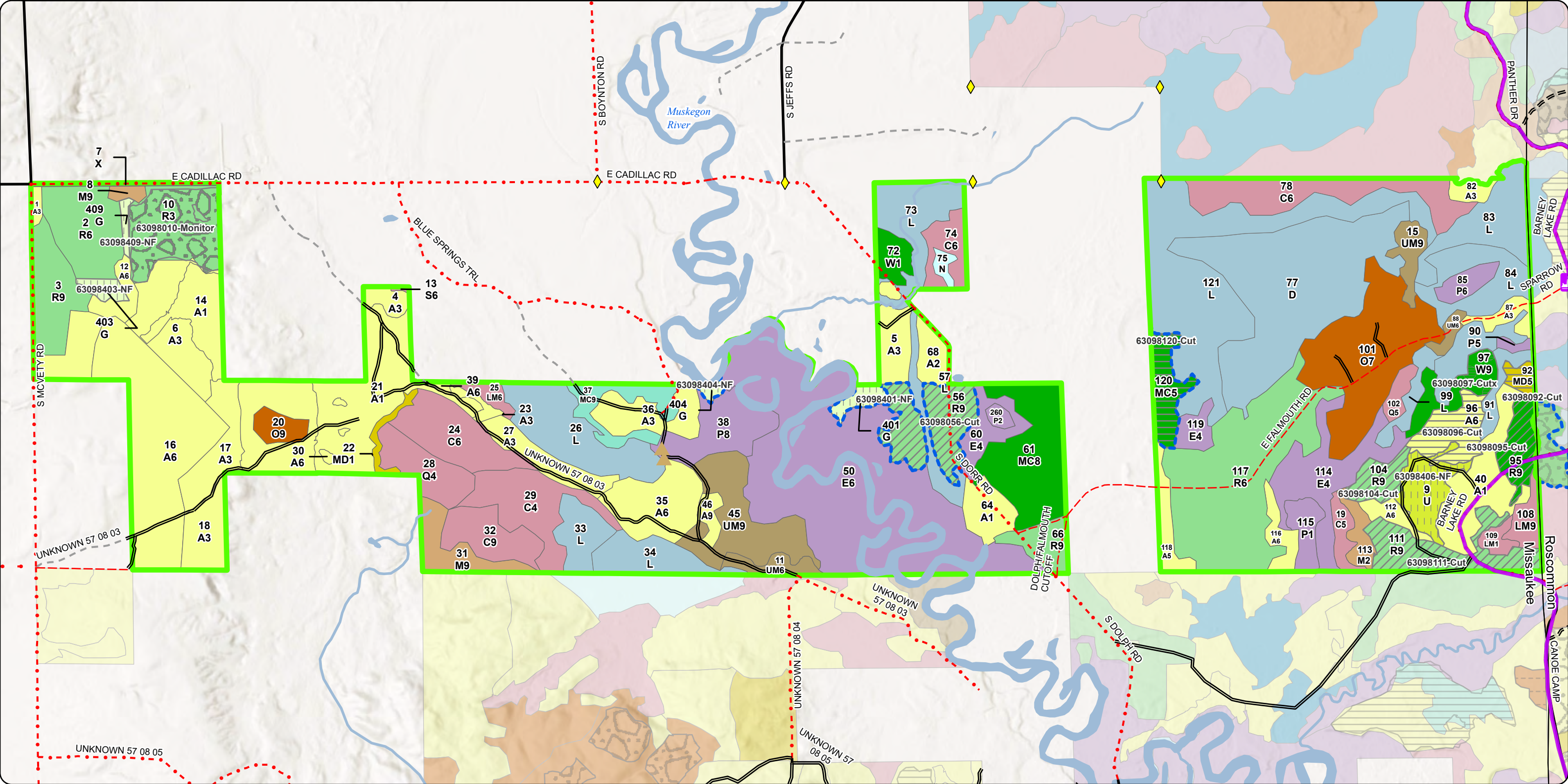
# Cover Type & Treatments Map



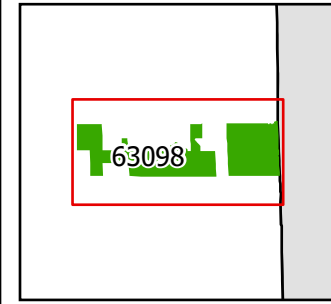
Compartment: 63098  
 T21N, R05W, Sec. 01-04  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt. Area: High Sand Plains  
 YOE: 2027  
 Acres: 1,642 GIS Calculated  
 Examiner: Todd Lewis  
 Date Exported: 1/8/2026  
 Map Phase: Post Maps



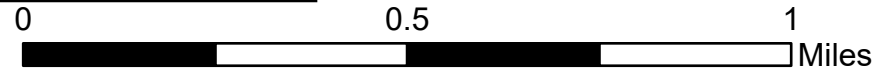
- Survey Grade Corners
- Berm
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Clearcut
- Strip/Patch Cut
- Thinning
- Openings Mgmt.
- Monitoring - Regeneration
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



# Stand Boundary Map

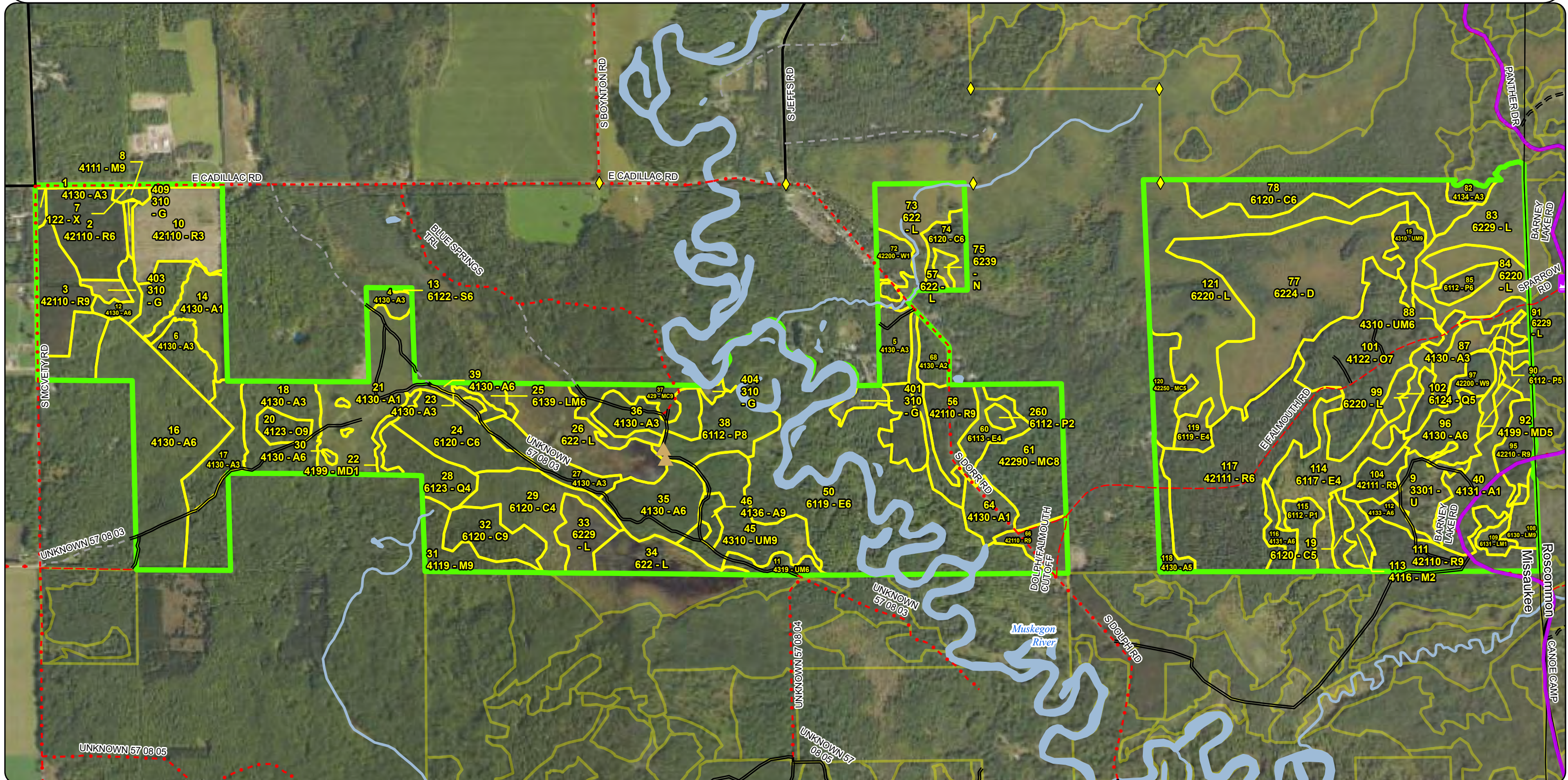


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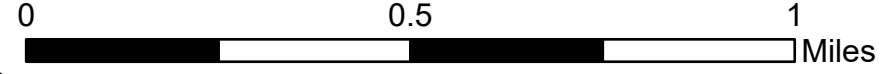
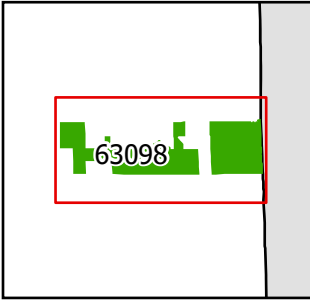
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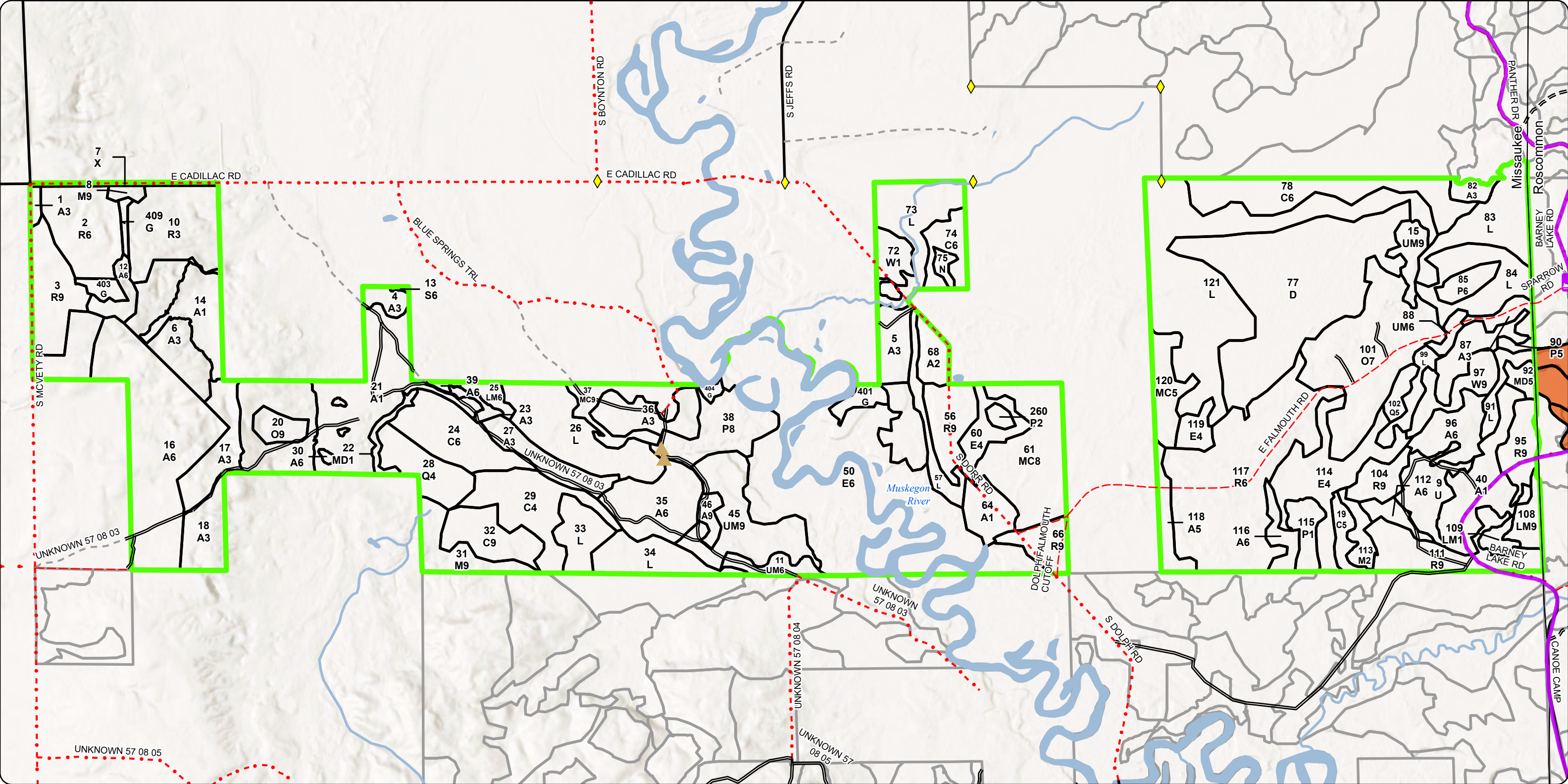


**Special Conservation Areas  
& Site Conditions Map**

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 Unit: Cadillac  
 Mgmt. Area: High Sand Plains  
 YO: 2027  
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- ◆ Survey Grade Corners
- ▲ Berm
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- SCA
- Other Habitat Area



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

Cadillac Mgt. Unit

Compartment 98

Year of Entry 2027

Todd Lewis: 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	62	50	137	101	8	30	5	4	0	0	0	0	0	0	0	0	0	397
Cedar	0	0	0	0	0	0	6	0	0	0	0	44	25	43	0	0	0	0	118
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
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	10	0	6	0	0	2	0	22	0	0	0	0	0	0	0	0	40
Lowland Conifers	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	17	21
Lowland Deciduous	0	0	0	0	0	0	31	0	0	16	0	0	0	0	0	0	0	158	205
Lowland Mixed Forest	0	0	4	0	0	0	0	0	4	7	0	0	0	0	0	0	0	0	15
Lowland Shrub	249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	249
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	0	0	0	0	0	13	0	0	39	0	0	0	0	0	0	0	0	52
Northern Hardwood	0	0	6	0	0	0	0	0	0	0	14	0	0	0	0	0	0	2	22
Oak	0	0	0	0	0	0	0	0	0	0	0	6	57	0	0	0	0	0	63
Red Pine	0	32	0	0	0	26	0	93	12	81	0	0	0	0	0	0	0	0	243
Treed Bog	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Upland Conifers	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	14
Upland Mixed Forest	0	0	0	0	0	0	0	0	11	32	0	0	0	0	0	0	0	6	48
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	7	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	19
<b>Total</b>	<b>374</b>	<b>94</b>	<b>77</b>	<b>141</b>	<b>107</b>	<b>38</b>	<b>80</b>	<b>100</b>	<b>43</b>	<b>211</b>	<b>18</b>	<b>50</b>	<b>82</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>183</b>	<b>1639</b>

## Report 2 – Treatment Summary

Cadillac Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 98  
Total Compartment Acres: 1,642

Commercial Harvest - 95  
Harvests with Site Condition - 53  
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	15	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	4	0	0	0	0	0	0	0	0	4
Natural Mixed Pines	13	0	0	0	0	0	0	0	0	13
Red Pine	0	0	0	0	0	72	0	0	0	72
White Pine	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>72</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>109</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	109	0	0	0	0	0	29	0	26	165
Next Step	0	0	0	16	0	0	37	0	0	92
<b>Total</b>	<b>109</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>66</b>	<b>0</b>	<b>26</b>	<b>257</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>10</b>	<b>63098010-Monitor</b>	29.2	42110 - Planted Red Pine	3	5	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 03/01/2024</p>											
<b>56</b>	<b>63098056-Cut</b>	27.4	42110 - Planted Red Pine	9	64	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Thin red pine BA down to 90 ft2 focusing on suppressed and poor formed trees. Thin around oak when present. Cut all jack pine and red maple throughout the stand. The lobe on the west side of the stand was originally jack pine and merged with larger red p</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, red pine, maple, balsam, aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Oak wilt no exceptions spec. Dry summer/ Frozen conditions spec.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
<b>92</b>	<b>63098092-Cut</b>	3.7	4199 - Other Mixed Upland Deciduous	5	91	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Clearcut with no retention. Buffer wet areas per BMPs</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> Aspen, Oak, Maple, Pine spp.</p> <p><u>Regen:</u></p> <p><u>Other</u> Massasauga Spec.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><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>95 63098095-Cut</b>	11.542210	Natural Red Pine	9	76	141-170	Harvest	Thinning	42210 - Natural Red Pine	Planting Record	No
<u>Prescription</u> Thin stand stand down to 80-90 BA, focusing on suppressed and poor formed trees.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> red pine, oak, maple										
<u>Regen:</u>										
<u>Other</u> Oak wilt no exceptions spec.Snowmobile trail protection spec.Massasauga Spec.										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
<b>96 63098096-Cut</b>	14.9	4130 - Aspen	6	57	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Standard clearcut. 3-10% reserves focused around a mix of species.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen, Oak, Birch, Pine spp., Maple										
<u>Regen:</u>										
<u>Other</u> Oak wilt with exceptions spec.Grouse spec.Massasauga Spec.										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
<b>97 63098097-Cutx</b>	5.7	42200 - Natural White Pine	9	76	111-140	Harvest	Strip/Patch Cut	42200 - Natural White Pine	Cutting Record	No
<u>Prescription</u> Cut 50% of treatment area following a cut 30ft, leave 30ft spacing. In addition, harvest all aspen and maple.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> White pine										
<u>Regen:</u>										
<u>Other</u> Dry summer/ Frozen winter spec.Oak wilt no exceptions.										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
<b>104 63098104-Cut</b>	8.8	42111 - Planted Red Pine, Mixed Deciduous	9	67	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine to 80 - 90 BA. Thin around oaks when possible.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> oak, pine, maple.										
<u>Regen:</u>										
<u>Other</u> Massasauga Spec.										
<u>Comment:</u>										
<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
111 63098111-Cut	24.2	42110 - Planted Red Pine	9	67	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Thin red pine down to 70-90 BA.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> birch, pine spp. oak, maple  <u>Regen:</u>  <u>Other</u> Oak wilt no exceptions spec.Snowmobile trail protection spec.Massasauga Spec.  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
120 63098120-Cut	12.7	42250 - Pine, Oak	5	50	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Cut all species. Reserve white and red pine greater than 15 inches.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Oak, pine, aspen, maple  <u>Regen:</u>  <u>Other</u> Monument was located in the center of the stand. Will likely lose half of the acres once the compartment boundary is shifted.  <u>Comment:</u>  <u>Site Condition:</u> Survey Needed  <u>Proposed Start Date:</u> 10/01/2026</p>										
401 63098401-NF	4.5	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Illegal vehicle use to be blocked. 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> 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  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u> Trespass Issue.  <u>Comment:</u>  <u>Site Condition:</u> Survey Needed  <u>Proposed Start Date:</u> 10/01/2026</p>										
403 63098403-NF	3.4	310 - Herbaceous Openland	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> 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  <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
404 63098404-NF	1.5	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<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> Survey Needed										
<u>Proposed Start Date:</u> 10/01/2026										
9 63098406-NF	15.2	3301 - Low Density Deciduous Trees	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<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> Massasauga Spec.										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
409 63098409-NF	1.8	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<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										

**Total Treatment** 164.5  
**Acres Proposed:**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Todd Lewis: Examiner

Compartment: 98  
Year of Entry: 2027

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2I	2G	5A	5E
397	383	<b>8</b>	6	Aspen	<b>8</b>		5	1
118	0	<b>0</b>	118	Cedar		118		
11	5	<b>6</b>	0	Herbaceous Openland	<b>6</b>			
15	15	<b>0</b>	0	Low-Density Trees				
40	16	<b>0</b>	24	Lowland Aspen/Balsam Poplar		24		
21	0	<b>0</b>	21	Lowland Conifers		21		
205	11	<b>0</b>	194	Lowland Deciduous		194		
15	4	<b>0</b>	11	Lowland Mixed Forest		11		
249	225	<b>24</b>	0	Lowland Shrub	<b>24</b>			
0	0	<b>0</b>	0	Lowland Spruce/Fir		0		
2	2	<b>0</b>	0	Marsh				
7	7	<b>0</b>	0	Mixed Upland Deciduous				
52	39	<b>13</b>	0	Natural Mixed Pines	<b>13</b>			
22	22	<b>0</b>	0	Northern Hardwood				
63	63	<b>0</b>	0	Oak				
244	216	<b>27</b>	0	Red Pine	<b>27</b>			
94	94	<b>0</b>	0	Treed Bog				
14	0	<b>0</b>	14	Upland Conifers		14		
49	49	<b>0</b>	0	Upland Mixed Forest				
3	3	<b>0</b>	0	Urban				
20	20	<b>0</b>	0	White Pine				
1,641	1,174	<b>78</b>	388	Total Forested Acres	<b>78</b>	383	5	1
	72%	<b>5%</b>	24%	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)	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Todd Lewis: Examiner

Compartment: 98  
Year of Entry: 2027

2	<b>Available</b>	<b>2I: Survey needed</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>2I: Survey needed</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> If harvested stand would expand into managed wildlife opening.							
5	<b>Available</b>	<b>2I: Survey needed</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	158	3D: Recreational/scenic values	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Portions accessible commercially wet harvested last entry.							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Todd Lewis: Examiner

Compartment: 98  
Year of Entry: 2027

9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> accessible portion of stand was harvest last YOЕ.. This portion represents the unharvest able portion.							
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>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
 Todd Lewis: Examiner

Compartment: 98  
 Year of Entry: 2027

15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	59	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Available</b>	<b>2I: Survey needed</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
 Todd Lewis: Examiner

Compartment: 98  
 Year of Entry: 2027

23	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Available</b>	<b>2I: Survey needed</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Available</b>	<b>2I: Survey needed</b>	24	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	4130 - Aspen	Sapling Well	1.8	39	51-80	N/A	Has some residual mature oak. If stand was harvested aspen would spread into adjacent RP plantation causing increased competition for the planted pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		10	Log/Pole	10			
Bigtooth Aspen		90	Pole/Sapling	5	39		
2	42110 - Planted Red Pine	Poletimber Well	26.4	46	111-140	N/A	Per previous inventory: Burned in 1968 and was replanted. R3 last time.  Stand third row thinned 2018.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		10	Pole/Sapling	5			
Red Pine		90	Pole	9	46		
3	42110 - Planted Red Pine	Sawtimber Well	22.0	69	111-140	N/A	Stand was second thinned in 2018.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		100	Log/Pole	11	69		
4	4130 - Aspen	Sapling Well	4.5	17	Immature	N/A	Comment 2015: Harvested last YOE
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		10	Sapling	1			
Quaking Aspen		90	Sapling	2	17		
5	4130 - Aspen	Sapling Well	12.2	17	Immature	N/A	Treated acres with sale # 50-07
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		85	Sapling	3	17		
Northern Pin Oak		15	Pole/Log	8			
6	4130 - Aspen	Sapling Well	35.9	27	1-50	N/A	harvested last entry. Aspen/red maple with residual over story oak.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		10	Sapling	2			
Beech		2	Sapling	1			
Red Oak		1	Log/Pole	12			
Bigtooth Aspen		85	Sapling	2	27		
Red Pine		2	Sapling	1			
7	122 - Road/Parking Lot	None	2.8			No	Cadillac Rd
8	4111 - S.Maple, Hard Mast Association	Sawtimber Well	2.2	105	111-140	N/A	Old homestead site. Old silo foundation evident. Ash is dead standing.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Sugar Maple		65	XLog	18	105		
Red Oak		25	Log	14			
Bigtooth Aspen		10	Log/Pole	12			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
9	3301 - Low Density Deciduous Trees	None	15.2			No	Wildlife would prefer to maintain as opening but is starting to fill in with trees. Was managed in the past but not currently. Stand is experiencing a lot of natural red pine throughout and looks great. It would be nice to let the stand continue to grow and not maintained as a wildlife opening. There are also clumps of large maple, oaks and aspen averaging 13" in diameter.			
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
		Bigtooth Aspen		Medium	5 - 10 feet	5 - 10 feet				
		White Pine		High	< 5 feet	< 5 feet				
		Northern Pin Oak		Medium	5 - 10 feet	5 - 10 feet				
		Red Pine		High	< 5 feet	< 5 feet				
10	42110 - Planted Red Pine	Sapling Well	31.7	5	Immature	N/A	Comment 2025: Planted red pine is looking very good. Roughly 900-1200 TPA at 2-3ft. Planted trees are not being choked out by raspberry or thistle. Low pin and white oak throughout. Stand was final harvested in 2018. Needs to be site prep sprayed before we plant. Site was site prep sprayed by contractor in summer 2021 skidder spray.			
<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	Sapling	1	5	White Oak		Low	< 5 feet	< 5 feet
11	4319 - Mixed Upland Forest	Poletimber Well	6.4	83	81-110	N/A	Stand gets wetter to the south as you get closer to stream. Hold as long as possible to maintain age class diversity.			
<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	Pole/Sap/Log	7		Red Maple		Low	5 - 10 feet	5 - 10 feet
Paper Birch		5	Pole	8		Northern Pin Oak		Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		20	Pole/Log	9		Balsam Fir		Low	10 - 20 feet	10 - 20 feet
Northern Pin Oak		10	Log/Pole	11						
Balsam Fir		15	Pole/Sapling	7						
White Pine		30	Log/Pole	12	83					
12	4130 - Aspen	Poletimber Well	6.3	55	81-110	N/A	Birch, sugar maple, and oak present to the north of stand. Hold as long as possible to maintain age class diversity.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Sugar Maple		5	Pole	8						
Red Maple		10	Pole	8						
Red Oak		5	Log/Pole	13						
Bigtooth Aspen		75	Log/Pole	10	55					
Red Pine		5	Log/Pole	10						
13	6122 - Black Spruce	Poletimber Well	0.4	59	51-80	N/A	Comment 2025: Listed as an aspen stand. Little to no aspen in the stand. Stand is very wet and is mostly spruce. Age was based on previous inventory data. Maple is starting to fall apart. Contains a hdwd transition along the southern edge. Balsam fir occurs along transition to cedar stand in the SE of stand. Scattered white pine.			
<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	Log/Pole	10		Balsam Fir		Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen		5	Pole	7	59					
Balsam Fir		5	Pole	5						
Black Spruce		70	Pole	8	59					
Northern White Cedar		5	Pole	7						
14	4130 - Aspen	Sapling Poor	17.1	6	Immature	N/A	Comment 2025: Stand is growing nicely. Aspen is roughly 5-10 ft and white oak and white pine are <5ft. Harvested in 2019. 63-026-17 Bobcat Aspen.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
White Oak		5	Sapling	1						
Bigtooth Aspen		90	Sapling	1	6					
White Pine		5	Sapling	1						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
15	4310 - Pine, Oak Mix	Sawtimber Well	7.4	79	51-80	N/A	This stand serves as retention to the stands to the south and west as it is remote and wet.																																																			
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16	4130 - Aspen	Poletimber Well	69.2	39	1-50	N/A	Stand was harvested in 1987. Growing very well.																																																			
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19	6120 - Lowland Cedar	Poletimber Medium	5.6	53	81-110	N/A	Cedar swamp. Stand split from the stand to the west, age listed at 52, estimated age of stand in 2025 would be at least 80.																																																			
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20	4123 - Red Oak	Sawtimber Well	6.3	106	51-80	N/A	Stand located in middle of A3. Overstory oak with aspen/maple understory as aspen was harvested in 1999. Minimal oak regen. Wet area in the west 1/2 of stand. Hold as long as possible to maintain age class diversity.																																																			
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<b>21</b>	4130 - Aspen	Sapling Poor	44.5	6	Immature	N/A	Comment 2025: Aspen growing well and is about 6-10ft. Harvested in 2020. 63-026-17 Bobcat Aspen.																																								
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<b>22</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	3.5	26	Immature	N/A	Transition from upland to lowland. Harvested in 2000 by habitat cut.. contains scattered sprouts of black ash, aspen, alder, rm, etc. very sparse. Mostly raspberry.																																								
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<b>23</b>	4130 - Aspen	Sapling Well	2.5	17	Immature	N/A	Comment 2015: small stand that was cut commercially northern portion was to wet for harvesting. Previous inventory discussed habitat cut, but no evidence of activity.																																								
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<b>24</b>	6120 - Lowland Cedar	Poletimber Well	25.2	115	1-50	N/A	Strips cut in 1970 do not contain cedar regen. Very thick balsam understory throughout stand. Some cedar is dying. Maple along edge of stand.																																								
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<b>25</b>	6139 - Mixed Lowland Forest	Poletimber Well	4.2	78	81-110	N/A	Stand was to wet to be treated commercially. Keep as future retention area.																																								
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<b>26</b>	622 - Lowland Shrub	None	33.4			No	Contains some L-type along the edges. Beaver dam to the east.																																								

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>27</b>	4130 - Aspen	Sapling Well	13.0	26	Immature	N/A	Stand is starting to fill in better. Transition to lowland complex to the north and south.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		95	Sapling	4	26		
Northern Pin Oak		5	Sapling	2			
<b>28</b>	6123 - Lowland Fir	Poletimber Poor	16.7	89	1-50	N/A	Stand was predominantly black ash last entry, but much of the ash has died due to EAB and the stand is being overtaken by Balsam Fir. Cedar occurs on transition to NW.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		15	Log/Pole/Sap	14			
Balsam Fir		65	Pole	8	89		
Black Spruce		15	Pole/Sapling	7			
Northern White Cedar		5	Pole/Log	9			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Balsam Fir		Low	5 - 10 feet	5 - 10 feet			
<b>29</b>	6120 - Lowland Cedar	Poletimber Poor	27.4	106	51-80	N/A	mostly dead cedar filling in with spruce and fir in some areas.. salvage of cedar was attempted in N of stand with little success. No cedar regen and seems to flood at times.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Balsam Fir		10	Sapling/Pole	4			
Black Spruce		15	Sapling/Pole	4			
Northern White Cedar		75	Pole	8	106		
<b>30</b>	4130 - Aspen	Poletimber Well	1.2	59	81-110	N/A	Retention pockets from stand 21.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		10	Pole/Sap/Log	7			
Basswood		5	Log/Pole	10			
Bigtooth Aspen		80	Pole/Sap/Log	7	59		
Balsam Fir		5	Pole	5			
<b>31</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	13.6	96	81-110	N/A	Hardwood stand with numerous ash snags throughout. Access through state land to the south. Harvest with Stand 5 to the southeast to make a sale. Stand is pretty wet, winter/ dry summer harvest only.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Sugar Maple		30	Log/Pole/Sap	14	96		
Red Maple		20	Log/Pole	11			
Basswood		20	Log/Pole/Sap	14			
Paper Birch		10	Pole	8			
Bigtooth Aspen		15	Pole/Sap/Log	7			
Black Cherry		5	Pole/Sap/Log	8			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Ironwood		Low	10 - 20 feet	10 - 20 feet			
Beech		Low	10 - 20 feet	10 - 20 feet			
Red Maple		Low	>20 feet	>20 feet			
Black Cherry		Low	10 - 20 feet	10 - 20 feet			
<b>32</b>	6120 - Lowland Cedar	Sawtimber Well	17.1	106	81-110	N/A	Previous inventory suggested a harvest, but that is no longer recommended due to lack of successful regeneration in previous local harvests and poor access due to wet location. Cedar starting to die in NE of stand
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Balsam Fir		15	Pole/Sapling	6			
Northern White Cedar		75	Pole	9	106		
White Pine		10	Log	14			
<b>33</b>	6229 - Mixed Lowland Shrub	None	12.7			No	contains some dead cedar that has been picked through in past salvage cuts.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	622 - Lowland Shrub	None	17.0			No	past salvage cut cleared the dead cedar from this stand. It is water during some times of year and contains more marsh grass in other times.
35	4130 - Aspen	Poletimber Well	24.4	38	1-50	N/A	
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	15	Pole/Sapling	5		
		Bigtooth Aspen	85	Pole/Sapling	5	38	
36	4130 - Aspen	Sapling Well	15.4	26	Immature	N/A	Aspen stand with scattered jack pine and balsam fir in the understory.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	15	Sapling	3	26	
		Bigtooth Aspen	85	Sapling	4	26	
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Jack Pine	Low	< 5 feet	< 5 feet		
		Balsam Fir	Low	< 5 feet	< 5 feet		
37	429 - Mixed Upland Conifers	Sawtimber Well	13.9	86	51-80	N/A	Not very much volume in the stand. Starting to fill in heavy with maple and there are a lot of wet areas.Center portion of original stand was cut during previous entry. Remaining portion of stand serves as buffer along lowland complex and private to North.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Bigtooth Aspen	40	Pole/Log	9	86	
		Balsam Fir	25	Pole/Sapling	6		
		White Pine	10	Log/Pole	13		
		Jack Pine	25	Pole	7		
38	6112 - Lowland Aspen	Sawtimber Medium	22.1	81	81-110	N/A	swamp aspen - commercial sale would be very difficult. There are pockets of more upland islands. Potential for future habitat cutting on north side. Stream with bluffs runs through south end. Ash in stand is dying.Possibility to harvest center section of the stand if more acres are needed. Will need to buffer all vernal ponds.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	20	Log	14	81	
		White Ash	5	Log	12		
		Quaking Aspen	45	Log/Pole	10	81	
		Balsam Fir	20	Pole	7		
		Black Cherry	10	Pole	7		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Balsam Fir	Low	5 - 10 feet	5 - 10 feet		
		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet		
39	4130 - Aspen	Poletimber Well	0.7	59	81-110	N/A	Contains a hdwd transition along the southern edge. Balsam fir occurs along transition to cedar stand in the SE of stand. Scattered white pine.Hold as long as possible to maintain age class diversity.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	10	Pole/Sap/Log	7		
		Basswood	5	Log/Pole	10		
		Bigtooth Aspen	80	Pole/Sap/Log	7	59	
		Balsam Fir	5	Pole	5		
40	4131 - Aspen, Oak	Sapling Poor	26.4	20	1-50	N/A	Stand is filling in nicely with oak and aspen. An overstory removal at this point would damage the regeneration already established, oak is starting to die as well. Regen is a little spotty in the northern portion of the stand (comment 2025).Previous comment 2015: Stand was harvested last entry (assuming 2005). Pin oak with aspen understory.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Quaking Aspen	75	Sapling	1	20	
		Northern Pin Oak	15	Sapling	1		
		Northern Pin Oak	5	Log/Pole	12	98	
		White Pine	5	Log/Pole	12		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>45</b>	4310 - Pine, Oak Mix	Sawtimber Well	31.8	81	1-50	N/A	Stand was harvested in 2000. Much of the overstory non aspen species were left from the previous stand. Comment 2025: Aspen is filling in nicely even with all of the residual trees. Aspen is about 4 inches.																																																	
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<b>46</b>	4136 - Aspen, Mixed Conifer	Sawtimber Well	4.0	71	81-110	N/A	Comment 2015: Piece left for last time due to age/ size. Hold until stand to the east closes in. Comment 2025: Hold as long as possible to maintain age class diversity.																																																	
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<b>50</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	157.5	87	51-80	N/A	Contains Muskegon rive and many old oxbows of the river. Floods seasonally. Most of the ash is dead/dying.																																																	
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<b>56</b>	42110 - Planted Red Pine	Sawtimber Well	27.4	64	141-170	N/A	Thinned with sale #009-07																																																	
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<b>57</b>	622 - Lowland Shrub	None	9.5			No	wet drainage dominated by alder. Has a few aspen, rm, and oak scattered throughout.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>60</b>	6113 - Lowland Maple	Poletimber Poor	10.5	85	1-50	N/A	merchantable portion of stand was habitat cut. wet with a lot of dead ash snags.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		60	Pole/Log	9	85	Tag Alder	
Bigtooth Aspen		25	Pole	7		Balsam Fir	
Balsam Fir		15	Pole/Sapling	6			
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
<b>61</b>	42290 - Natural Mixed Pine	Sawtimber Medium	39.2	87	81-110	N/A	Stand is becoming two ages with a pine oak overstory and a pine, maple, oak understory developing from the previous cut. open growing pine and oak, with maple and oak understory. Stand is pretty wet with sphagnum moss. Regen from last harvest is taking a long time to develop. Hold stand until regen is developed.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		15	Log/XLog/Pole	17		White Pine	
White Oak		10	Log/Pole	11		White Oak	
White Spruce		10	Pole	8		Red Maple	
White Pine		25	Log	14			
Red Pine		35	Log/Pole	12	87		
Jack Pine		5	Log/Pole	10			
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
<b>64</b>	4130 - Aspen	Sapling Poor	10.9	17	Immature	N/A	Stand is very wet with very patchy regen (comment 2025)Some rutting from previous sales has not filled in. Aspen and red maple are growing well, and residual oak have not produced much regeneration (comment 2015).
<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	Sapling	3	17	Northern Pin Oak	
Bigtooth Aspen		60	Sapling	3	17		
Northern Pin Oak		1	Pole/Sapling	7			
Balsam Fir		2	Sapling	3			
White Pine		15	Sapling	3			
Red Pine		2	Sapling	2			
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
<b>66</b>	42110 - Planted Red Pine	Sawtimber Well	10.1	64	111-140	N/A	Stand was last thinned in 2018, second thinning. Thin next entry (2037)
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black/Red (Hybrid) Oak		5	Pole/Log	8		White Pine	
Red Pine		95	Log/Pole	10	64		
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
<b>68</b>	4130 - Aspen	Sapling Medium	7.7	26	Immature	N/A	scattered overstory oak along western edge of stand.
<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		White Pine	
Bigtooth Aspen		80	Sapling	3	26		
Northern Pin Oak		5	Pole	8			
White Pine		5	Pole	6			
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
<b>72</b>	42200 - Natural White Pine	Sapling Poor	7.4	17	Immature	N/A	transitions to lowland to the east. Historic trespass along west was corrected during trespass initiative and resulted in sale of state land to landowner. Aspen starting to fill in stand. Very sparse aspen. White pine age was based on the aspen age.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		5	Sapling	2			
Bigtooth Aspen		5	Sapling	2	17		
White Pine		60	Sapling/Pole	4	17		
Jack Pine		30	Sapling	3			
						<b>Density</b>	<b>Avg. Height</b>
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
73	622 - Lowland Shrub	None	24.0			No	contains drainage to Muskegon River																																					
74	6120 - Lowland Cedar	Poletimber Well	10.6	125	81-110	N/A																																						
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75	6239 - Mixed Emergent Wetland	None	2.3			No	black ash sprouts with heave deer browse. stand was previously habitat cut.Very wet stand.																																					
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77	6224 - Treed Bog	None	94.1			No	small aspen stand in NE of stand.																																					
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78	6120 - Lowland Cedar	Poletimber Well	32.2	125	51-80	N/A	Cedar stand with maple and BF. Balsam Fir is starting to overtake the understory.																																					
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82	4134 - Aspen, Spruce/Fir	Sapling Well	3.8	13	Immature	N/A	stand was treated with sale in compartment 897 to the north. Edge was left along lowland.																																					
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83	6229 - Mixed Lowland Shrub	None	24.0			No																																						
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84	6220 - Alder/Willow	None	33.2			No	small upland area in middle of stand contains scattered aspen.																																					
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85	6112 - Lowland Aspen	Poletimber Well	6.1	35	Immature	N/A	Aspen and black spruce stand surrounded by water. 7/19/23: Updated to non-OI cover type.																																					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>87</b>	4130 - Aspen	Sapling Well	5.7	35	1-50	N/A	OPIC - FMD: OI Stand Year Origin was 1991
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	75	Pole/Sapling	5	35	White Pine	Low	< 5 feet	< 5 feet
Northern Pin Oak	5	Sapling/Pole	4		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	10	Pole/Sapling	5					
Black Cherry	5	Sapling/Pole	4					

<b>88</b>	4310 - Pine, Oak Mix	Poletimber Well	3.1	70	51-80	N/A	small pocket of pine left as buffer between previous cut and lowland complex.. Stand is bisected by road.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Paper Birch	1	Sapling	4		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	10	Pole/Sapling	6					
Northern Pin Oak	25	Log/Pole	10					
White Pine	10	Pole	8					
Red Pine	10	Log/Pole	11	70				
Jack Pine	39	Pole	8	70				

<b>90</b>	6112 - Lowland Aspen	Poletimber Medium	1.7	60	1-50	N/A	Aspen and oak with wet areas. Understory starting to fill in with balsam fir.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	15		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	55	Pole	7	60	Balsam Fir	Low	< 5 feet	< 5 feet
Northern Pin Oak	5	Pole	8					
Balsam Fir	30	Pole/Sapling	7					
Black Cherry	5	Pole	8					

<b>91</b>	6229 - Mixed Lowland Shrub	None	6.0			No	
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Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	10 - 20 feet	10 - 20 feet

<b>92</b>	4199 - Other Mixed Upland Deciduous	Poletimber Medium	3.7	91	111-140	N/A	Comment 2025: Was originally an aspen stand but there is a lot more oak in the stand that was previously listed. Oak is starting to die off and aspen is starting to fall in. Clearcut stand to promote aspen regeneration. Comment 2015: Harvest stand with adjacent larger portion to the east in Roscommon county.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	12		White Pine	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	20	Pole	7	60	Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Northern Pin Oak	40	Log/Pole	10	91				
Balsam Fir	5	Pole	8					
White Pine	5	Pole/Log	9					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
<b>95</b>	42210 - Natural Red Pine	Sawtimber Well	11.5	76	141-170	N/A	Treated last entry, aspen starting to encroach on edges. Larger diameter red pine to the north.																																											
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<b>96</b>	4130 - Aspen	Poletimber Well	14.9	57	111-140	N/A	Comment 2015: Aspen will hold until next YOE. Very heavy red maple understory but all under 10' in height.																																											
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<b>97</b>	42200 - Natural White Pine	Sawtimber Well	12.1	76	111-140	N/A	Could be treated with aspen to the south next YOE. Stand transitions from upland to the south to lowland to the north. Scattered pockets of wet mixed in throughout. Some oak in NE corner. Wetter and smaller trees with more black spruce in the western portion of the stand.																																											
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<b>99</b>	6220 - Alder/Willow	None	6.8			No																																												
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<b>101</b>	4122 - Oak, Pine	Sawtimber Poor	57.1	114	1-50	N/A	Treated with sale #067-07. Stand contains a small wet area just north of road in NE of stand. Pine and oak removed last entry, goal is a pine/oak mix. Oak is starting to die and regeneration is already 20+ years old. Consider letting stand go through its natural process.																																											
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<b>102</b>	6124 - Lowland Spruce-Fir	Poletimber Medium	4.3	49	1-50	N/A	stand transitions to lowland to the southeast. Left as edge following adjacent harvest.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**104** 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 8.8 67 141-170 N/A stand was thinned last entry. aspen pocket in middle of stand. Wait to thin until pine crowns close in, likely next YOE.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log	15		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Pole	7		Northern Pin Oak	Medium	5 - 10 feet	5 - 10 feet
Red Pine	80	Log/Pole	14	67	Black Cherry	Medium	10 - 20 feet	10 - 20 feet

**108** 6130 - Fir, Aspen, Maple Sawtimber Well 6.9 82 1-50 N/A stand was to wet to harvest last entry with stand to the west. Lowland conifer with scattered maple and dead ash.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Log/Pole	10	
Quaking Aspen	15	Pole/Sapling	5	
Balsam Fir	35	Pole/Sap/Log	8	82
Black Spruce	10	Pole/Log	8	
Northern White Cedar	5	Pole/Log	8	
Black Cherry	5	Pole/Sapling	6	

**109** 6131 - Hemlock, White Pine, Maple, Birch Sapling Poor 3.7 16 1-50 N/A OPIC - FMD: same sale with stand 108. Mark to cut hdwds Treated with sale # 13-07 Portions of the stand have standing water.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Sapling	2	16	Jack Pine	Trace	< 5 feet	< 5 feet
Quaking Aspen	4	Sapling	2		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Northern Pin Oak	5	Sapling	2					
Northern Pin Oak	1	Pole	9					
White Pine	1	Log/Pole	10					
White Pine	20	Sapling	2					
Red Pine	23	Sapling	2					
Black Cherry	1	Pole	8					

**111** 42110 - Planted Red Pine Sawtimber Well 24.2 67 141-170 N/A Thinned out of entry with stand to the south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Pole/Sapling	6		Red Maple	Low	10 - 20 feet	10 - 20 feet
Northern Pin Oak	10	Log/Pole	10		White Pine	Medium	5 - 10 feet	5 - 10 feet
White Pine	4	Log/Pole	12		Northern Pin Oak	Medium	5 - 10 feet	5 - 10 feet
Red Pine	85	Log/Pole	11	67				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>112</b>	4133 - Aspen, Mixed Pine	Poletimber Well	4.9	66	81-110	N/A	Stand is a mix of aspen maple and conifer. Treatment of stand would likely result in aspen encroaching into managed opening to the east. Discuss treatment with wildlife division. Massasauga Spec. if going to do any type of treatment.				
<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/Sap/Log	8		White Pine		Low	10 - 20 feet	10 - 20 feet	
Bigtooth Aspen		60	Pole/Sapling	7	66	Black Cherry		Medium	10 - 20 feet	10 - 20 feet	
Northern Pin Oak		10	Pole	8		Balsam Fir		Low	10 - 20 feet	10 - 20 feet	
Balsam Fir		5	Pole/Sapling	5							
White Pine		5	Log/Pole	12							
Red Pine		10	Log/Pole	10							
Jack Pine		5	Pole	8							
<b>113</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	6.1	17	Immature	N/A		stand was final harvested last entry (2009) with residual cedar (along west) and oak. Some pole oak and cherry remain after harvest, but the primary canopy is regen (comment in 2025)			
<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		60	Sapling	2	17	Red Pine			Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		20	Sapling	2	17						
Black/Red (Hybrid) Oak		10	Sapling	2							
Balsam Fir		10	Sapling	2							
<b>114</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	30.9	53	1-50	N/A	Lowland maple with numerous drains running through 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>	
American Elm		5	Pole	8		Black Ash		Low	5 - 10 feet	5 - 10 feet	
Red Maple		40	Pole/Sapling	7	53	Red Maple		Low	10 - 20 feet	10 - 20 feet	
Basswood		20	Log/Pole	10		Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Black/Red (Hybrid) Oak		15	Log/Pole	15		Balsam Fir		Low	5 - 10 feet	5 - 10 feet	
Balsam Fir		20	Pole/Sapling	7							
<b>115</b>	6112 - Lowland Aspen	Sapling Poor	8.2	18	1-50	N/A	Habitat cut in 2008. Pretty wet stand, a lot of standing water and a lot of alder.				
<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		25	Sapling	2		Basswood		Low	10 - 20 feet	10 - 20 feet	
Quaking Aspen		65	Sapling	3	18	Alder		High	10 - 20 feet	10 - 20 feet	
Black/Red (Hybrid) Oak		5	Sapling	2							
Balsam Fir		3	Sapling	2							
Black Ash		2	Sapling	2							
<b>116</b>	4131 - Aspen, Oak	Poletimber Well	6.6	50	51-80	N/A	Stand could be harvested but not a lot of volume would come out of the stand. With the low site index harvest stand next entry (2037) to allow for more volume to be removed from the stand Small pole sized aspen stand with an oak log component;				
<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	6		White Pine		Medium	10 - 20 feet	10 - 20 feet	
Paper Birch		2	Pole/Sapling	5		Balsam Fir		Low	10 - 20 feet	10 - 20 feet	
Bigtooth Aspen		60	Pole	7	50						
Northern Pin Oak		25	Log/Pole	10							
White Pine		6	Log/Pole	13							
Red Pine		2	Pole	7							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**117** 42111 - Planted Red Pine, Mixed Deciduous Poletimber Well 81.4 85 111-140 N/A Stand was treated last entry. Currently being managed for an oak/pine mix. Potentially thin to a lower BA next entry (2037) to establish more oak regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log	14		Red Maple	Low	5 - 10 feet	5 - 10 feet
Northern Pin Oak	20	Log/Pole/XLog	16		White Pine	Low	< 5 feet	< 5 feet
White Pine	10	Log/Pole	13		Jack Pine	Low	< 5 feet	< 5 feet
Red Pine	65	Log	12	85	Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet
					Red Pine	Trace	< 5 feet	< 5 feet

**118** 4130 - Aspen Poletimber Medium 8.3 41 1-50 N/A Sparse stand bordering private to the west. Mix of aspen, maple, cherry and a few JP. Stand will likely be gone after the compartment line is shifted.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	6		White Pine	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	60	Pole/Sapling	6	41				
Jack Pine	5	Pole	5					
Black Cherry	15	Sapling/Pole	4					

**119** 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 5.8 86 1-50 N/A All ash in stand is dead due to EAB. Stand is seasonally flooded. Basically an alder swamp. Very wet. Small patch of balsam fir in the south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole/Sap/Log	8	86	Witch Hazel	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	5	Pole	8		Alder	High	5 - 10 feet	5 - 10 feet
Northern Pin Oak	25	Pole/Log/Sap	7					
Balsam Fir	5	Pole/Sapling	5					
Black Cherry	10	Pole	6					

**120** 42250 - Pine, Oak Poletimber Medium 12.7 50 81-110 N/A Final harvest next YO. Natural Jack pine and maple that transitions to a lowland type to the east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sap/Log	7		White Pine	Low	10 - 20 feet	10 - 20 feet
Quaking Aspen	5	Log/Pole	15					
Northern Pin Oak	30	Log	15					
White Pine	10	Log/Pole	12					
Red Pine	5	Log	14					
Jack Pine	45	Pole	7	50				

**121** 6220 - Alder/Willow None 82.8 No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	10 - 20 feet	10 - 20 feet

**260** 6112 - Lowland Aspen Sapling Medium 2.1 15 Immature N/A stand was habitat cut

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	2	
Quaking Aspen	95	Sapling	2	15

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
401	310 - Herbaceous Openland	None	4.5			No	Trespass issue.Should not burn for opening maintenance with proximity to nearby homes. There is a need to control illegal ORV traffic and other persistent illegal uses such as brush dumping. Trench and plant to red pine.Comment 2025: Still mostly an opening but there are a lot of scattered aspen, white pine, red pine and jack pine.
403	310 - Herbaceous Openland	None	3.4			No	Stand serves as good landing site for future pine thinning.Some scattered wolfy red pine.
404	310 - Herbaceous Openland	None	1.5			No	potential trespass from neighbor to the north mowing across line.
409	310 - Herbaceous Openland	None	1.8			No	Opening along two track through red pine plantations.Some red pine starting to seed in.