

Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63098

Entry Year: 2027

Acreage: 1,642

County: Missaukee

Management Area: High Sand Plains

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, Croswell, 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:

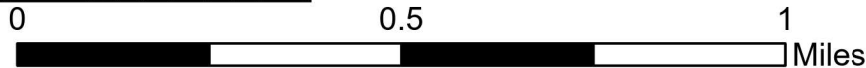
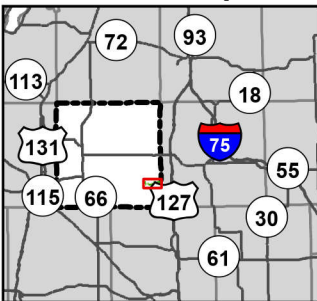
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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**

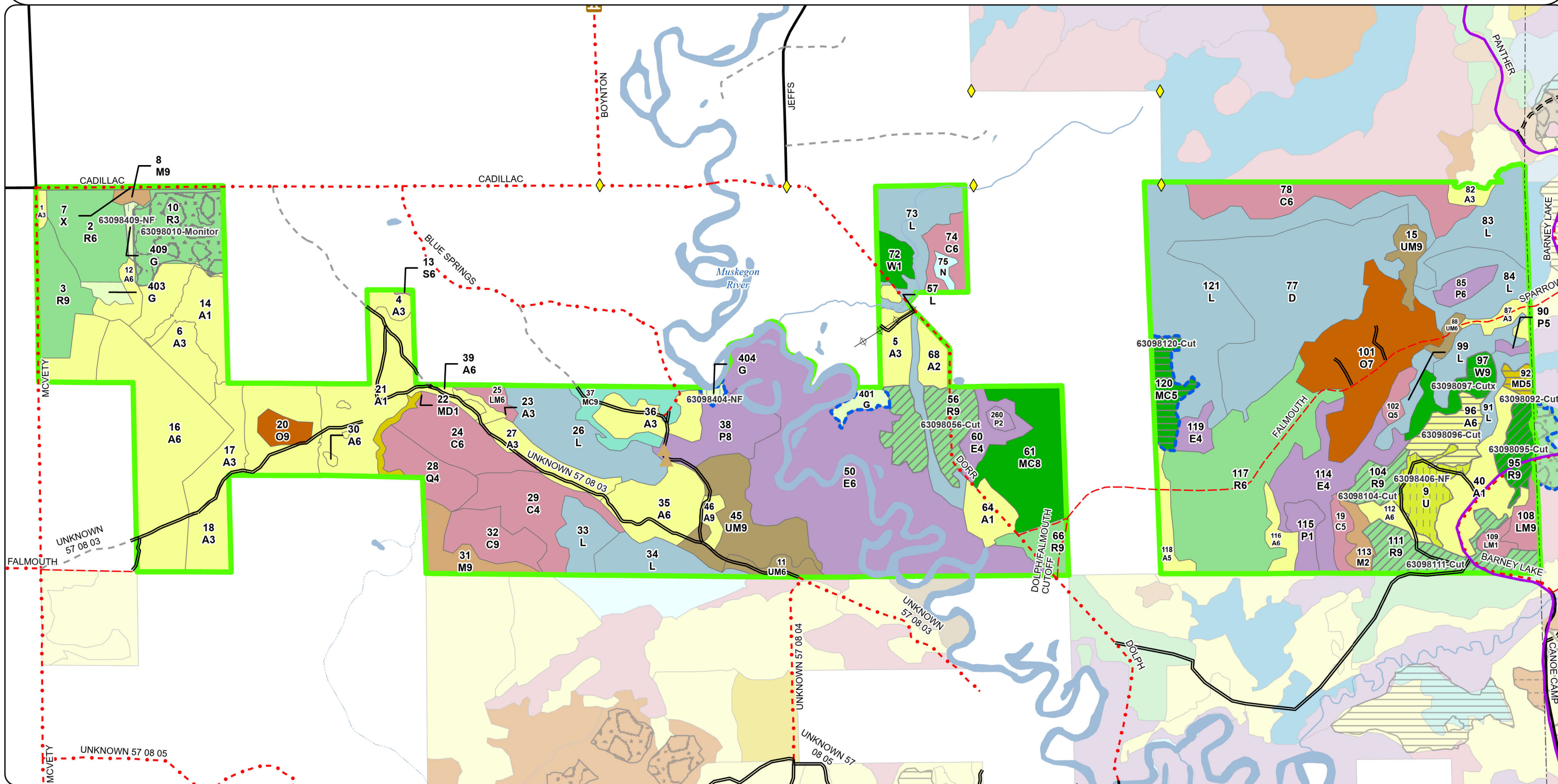
Cover Type & Treatments Map

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: 7/14/2025
Map Phase: Web Post



- Survey Grade Corners
- Berms
- Campground
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Powerline
- 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

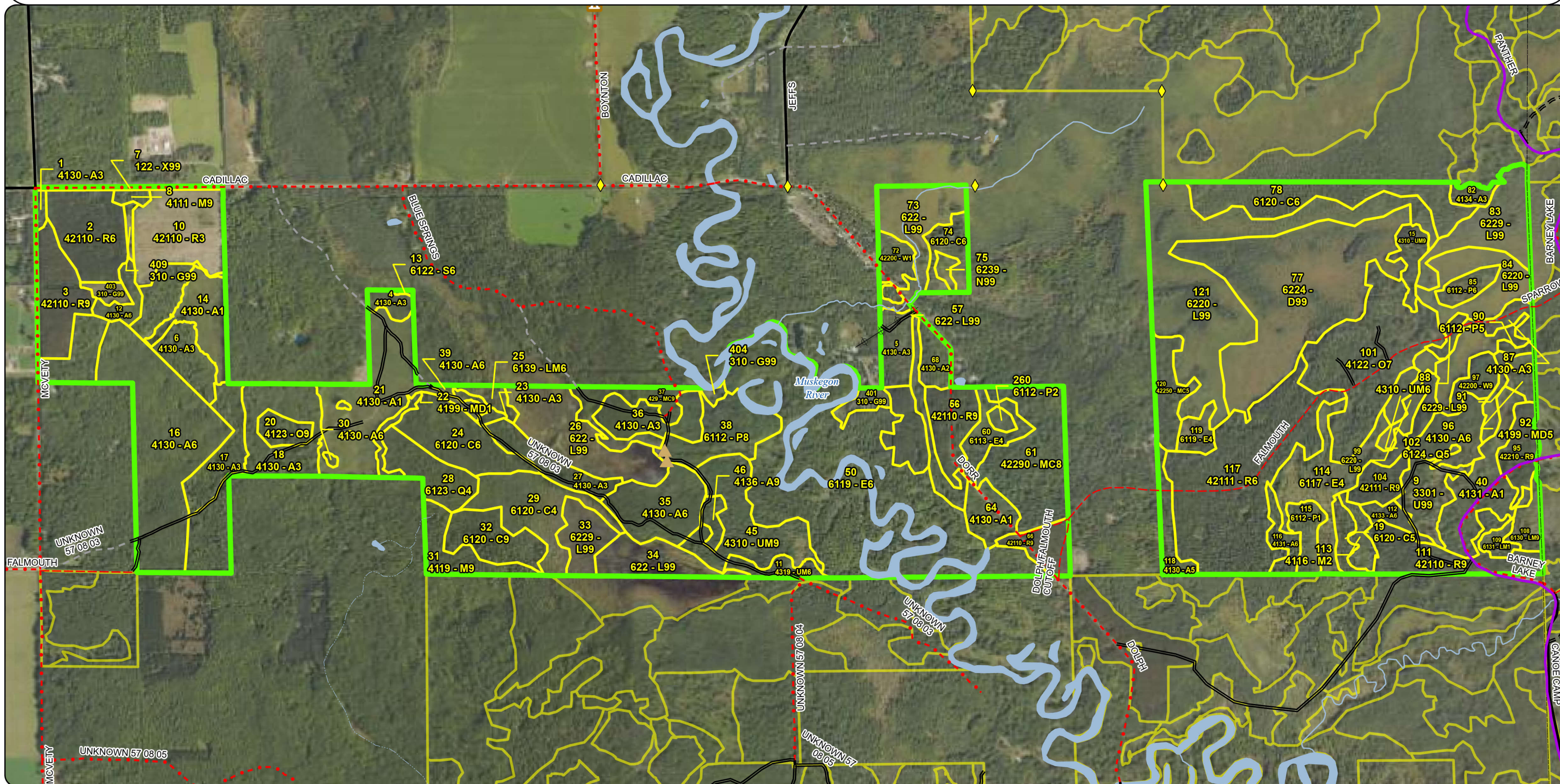
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0 0.5 1 Miles

- Survey Grade Corners
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- Campground
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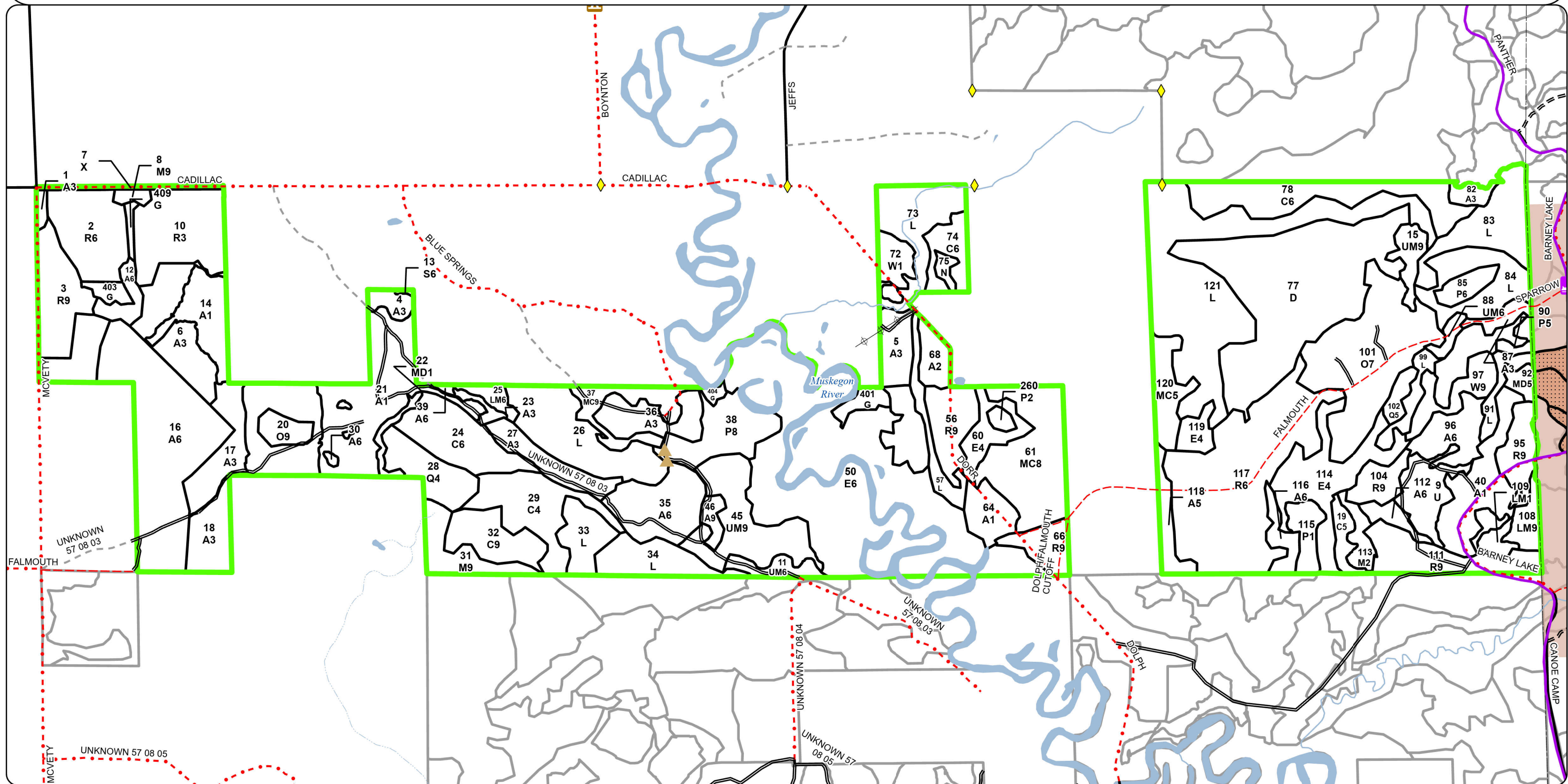


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Miles

-  Survey Grade Corners
-  Berms
-  Campground
-  Designated Snowmobile Trails
-  DNR - Secondary Forest Road
-  DNR - Forest Access Route

- | | | | |
|---|---------------------------------------|---|-------------------------|
|  | Federal / State / County - Paved Road |  | Counties |
|  | County - Gravel Road |  | Powerline |
|  | County - Dirt Road (Seasonal) |  | Compartment Boundary |
|  | Private - Dirt / Gravel Road |  | Stand Boundaries |
|  | Intermittent Stream |  | SCA |
|  | Perennial River |  | Wildlife Research Areas |
|  | Lakes and Rivers |  | Other Habitat Area |



Report 1 – Total Acres by Cover Type and Age Class

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	76	111	101	15	23	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	2	0	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	13	0	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	3	7	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
Total	374	94	103	115	107	58	62	101	39	211	18	50	82	43	0	0	0	183	1639

Report 2 – Treatment Summary

Cadillac Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 98
Total Compartment Acres: 1,642

Commercial Harvest - 116
Harvests with Site Condition - 26
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot 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	3
Total	31	0	0	0	0	72	0	0	0	106

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	106	0	0	0	0	0	29	0	26	162
Next Step	0	0	0	0	0	0	34	0	0	34
Total	106	0	0	0	0	0	63	0	26	196

Standard

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

403	63098403-NF	3.4	310 - Herbaceous Openland	99		NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

401	63098401-NF	4.5	310 - Herbaceous Openland	99		NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription 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.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Trespass Issue.

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

409	63098409-NF	1.8	310 - Herbaceous Openland	99		NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 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
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										
120 63098120-Cut	12.7	42250 - Pine, Oak	5	49	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<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										
111 63098111-Cut	24.2	42110 - Planted Red Pine	9	66	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<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										
104 63098104-Cut	8.8	42111 - Planted Red Pine, Mixed Deciduous	9	66	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
97 63098097-Cutx	2.9	42200 - Natural White Pine	9	75	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										
96 63098096-Cut	14.9	4130 - Aspen	6	56	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										
95 63098095-Cut	11.5	42210 - Natural Red Pine	9	75	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										
92 63098092-Cut	3.7	4199 - Other Mixed Upland Deciduous	5	90	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Clearcut with no retention.Buffer wet areas per BMPs <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Oak, Maple, Pine spp. <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
56 63098056-Cut	27.4	42110 - Planted Red Pine	9	63	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<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 pine stand. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Oak, red pine, maple, balsam, aspen. <u>Regen:</u> <u>Other</u> Oak wilt no exceptions spec. Dry summer/ Frozen conditions spec. <u>Comment:</u> <u>Site Condition:</u> <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										

Approved Treatments:

10 63098010-Monitor	29.2	42110 - Planted Red Pine	3	4	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Red Pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 03/01/2024										

Total Treatment 161.7
Acreage 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 With Condition	Acres Not Available	Dominant Site Conditions				
					2I	2G	5A	5E
397	391	0	6	Aspen			5	1
118	0	0	118	Cedar		118		
11	10	2	0	Herbaceous Openland	2			
15	15	0	0	Low-Density Trees				
40	16	0	24	Lowland Aspen/Balsam Poplar		24		
21	0	0	21	Lowland Conifers		21		
202	11	0	192	Lowland Deciduous		192		
15	4	0	11	Lowland Mixed Forest		11		
249	225	24	0	Lowland Shrub	24			
0	0	0	0	Lowland Spruce/Fir		0		
2	2	0	0	Marsh				
7	7	0	0	Mixed Upland Deciduous				
52	39	13	0	Natural Mixed Pines	13			
22	22	0	0	Northern Hardwood				
63	63	0	0	Oak				
244	244	0	0	Red Pine				
94	94	0	0	Treed Bog				
14	0	0	14	Upland Conifers		14		
49	49	0	0	Upland Mixed Forest				
3	3	0	0	Urban				
20	20	0	0	White Pine				
1,639	1,214	38	386	Total Forested Acres	38	380	5	1
	74%	2%	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
Comments:							

Report 4 – Site Conditions



3	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: If harvested stand would expand into managed wildlife opening.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	158	3D: Recreational/scenic values	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portions accessible commercially wet harvested last entry.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: accessible portion of stand was harvest last YOE.. This portion represents the unharvest able portion.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Todd Lewis: Examiner

Compartment: 98
Year of Entry: 2027



12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Todd Lewis: Examiner

Compartment: 98
Year of Entry: 2027



18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	2I: Survey needed	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	2I: Survey needed	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4130 - Aspen	Sapling Well	1.8	38	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.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		90	Sapling	5	38		
Red Oak		10		10			
2	42110 - Planted Red Pine	Poletimber Well	26.4	45	111-140	N/A	Per previous inventory: Burned in 1968 and was replanted. R3 last time.
Canopy Species		% Cover	Size Class	DBH	Age		Stand third row thinned 2018.
Red Oak		10	Sapling	5			
Red Pine		90	Seedling	9	45		
3	42110 - Planted Red Pine	Sawtimber Well	22.0	68	111-140	N/A	Stand was second thinned in 2018.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100		11	68		
4	4130 - Aspen	Sapling Well	4.5	16	Immature	N/A	Comment 2015: Harvested last YOE
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Log	1			
Quaking Aspen		90	Log	2	16		
5	4130 - Aspen	Sapling Well	12.2	16	Immature	N/A	Treated acres with sale # 50-07
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		85	Log	3	16		
Northern Pin Oak		15		8			
6	4130 - Aspen	Sapling Well	35.9	26	1-50	N/A	harvested last entry. Aspen/red maple with residual over story oak.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		2	Log	1			
Beech		2	Log	1			
Red Oak		1		12			
Red Maple		10	Log	2			
Bigtooth Aspen		85	Log	2	26		
7	122 - Road/Parking Lot	Unspecified	2.8			No	Cadillac Rd
8	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	2.2	104	111-140	N/A	Old homestead site. Old silo foundation evident. Ash is dead standing.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		25		14			
Sugar Maple		65		18	104		
Bigtooth Aspen		10		12			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	3301 - Low Density Deciduous Trees	Unspecified	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.
10	42110 - Planted Red Pine	Sapling Well	31.7	4	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.
11	4319 - Mixed Upland Forest	Poletimber Well	6.4	82	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.
12	4130 - Aspen	Poletimber Well	6.3	54	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.
13	6122 - Black Spruce	Poletimber Well	0.4	58	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.
14	4130 - Aspen	Sapling Poor	17.1	5	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.

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	78	51-80	N/A	This stand serves as retention to the stands to the south and west as it is remote and wet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	20		12		Blue Spruce	Low		10 - 20 feet	10 - 20 feet
Jack Pine	10	Seedling	6		White Pine	Low		10 - 20 feet	10 - 20 feet
Northern Pin Oak	30		16	78	Balsam Fir	Low		10 - 20 feet	10 - 20 feet
Red Pine	20		15		Red Pine	Low		5 - 10 feet	5 - 10 feet
Black Spruce	5	Sapling	7						
Red Maple	15		14						
16	4130 - Aspen	Poletimber Well	69.2	38	1-50	N/A	Stand was harvested in 1987. Growing very well.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	10	Sapling	5						
Bigtooth Aspen	85	Sapling	5	38					
White Oak	5	Log	3						
17	4130 - Aspen	Sapling Well	16.4	16	1-50	N/A	Comment 2015: Cut last entry. young aspen with residual over story oak.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Oak	10		13						
Bigtooth Aspen	90	Log	3	16					
18	4130 - Aspen	Sapling Well	38.7	26	1-50	N/A	some residual oak in the over story.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	5	Log	4						
Paper Birch	5	Log	4						
Bigtooth Aspen	80	Log	4	26					
Red Oak	10		11						
19	6120 - Lowland Cedar	Poletimber Medium	5.6	52	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Quaking Aspen	5	Log	2		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet	
Black Spruce	25	Sapling	7		Red Maple	Medium	10 - 20 feet	10 - 20 feet	
Northern White Cedar	70		10	52	Tag Alder	Low	5 - 10 feet	5 - 10 feet	
20	4123 - Red Oak	Sawtimber Well	6.3	105	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Oak	15		12		Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet	
Red Oak	85		14	105	Bigtooth Aspen	High	10 - 20 feet	10 - 20 feet	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
21	4130 - Aspen	Sapling Poor	44.5	5	Immature	N/A	Comment 2025: Aspen growing well and is about 6-10ft.Harvested in 2020. 63-026-17 Bobcat Aspen.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Northern Pin Oak</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>3</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>90</td><td>Log</td><td>1</td><td>5</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Northern Pin Oak	5	Log	1		Red Maple	5	Log	3		Bigtooth Aspen	90	Log	1	5																				
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Northern Pin Oak	5	Log	1																																												
Red Maple	5	Log	3																																												
Bigtooth Aspen	90	Log	1	5																																											
22	4199 - Other Mixed Upland Deciduous	Sapling Poor	3.5	25	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.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>40</td><td>Log</td><td>3</td><td>25</td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Log</td><td>2</td><td>25</td></tr><tr><td>Black Ash</td><td>20</td><td>Log</td><td>2</td><td>25</td></tr><tr><td>Balsam Fir</td><td>10</td><td>Log</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	40	Log	3	25	Quaking Aspen	30	Log	2	25	Black Ash	20	Log	2	25	Balsam Fir	10	Log	1																
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Black Ash	20	Log	2	25																																											
Balsam Fir	10	Log	1																																												
23	4130 - Aspen	Sapling Well	2.5	16	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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Quaking Aspen	85	Log	3	16																																											
24	6120 - Lowland Cedar	Poletimber Well	25.2	114	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.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>25</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td></td><td>8</td><td></td></tr><tr><td>Black Spruce</td><td>10</td><td></td><td>8</td><td></td></tr><tr><td>Northern White Cedar</td><td>60</td><td></td><td>8</td><td>114</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	25	Sapling	6		Red Maple	5		8		Black Spruce	10		8		Northern White Cedar	60		8	114															
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Northern White Cedar	60		8	114																																											
25	6139 - Mixed Lowland Forest	Poletimber Well	4.2	77	81-110	N/A	Stand was to wet to be treated commercially. Keep as future retention area.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>15</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Red Maple</td><td>15</td><td></td><td>8</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Basswood</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Quaking Aspen</td><td>20</td><td></td><td>7</td><td></td></tr><tr><td>Black Spruce</td><td>30</td><td>Seedling</td><td>7</td><td>77</td></tr><tr><td>Northern White Cedar</td><td>5</td><td></td><td>10</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	15	Sapling	5		Red Maple	15		8		Paper Birch	5	Seedling	8		Basswood	10		10		Quaking Aspen	20		7		Black Spruce	30	Seedling	7	77	Northern White Cedar	5		10	
Canopy Species	% Cover	Size Class	DBH	Age																																											
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Quaking Aspen	20		7																																												
Black Spruce	30	Seedling	7	77																																											
Northern White Cedar	5		10																																												
26	622 - Lowland Shrub	Unspecified	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					
27	4130 - Aspen	Sapling Well	13.0	25	Immature	N/A	Stand is starting to fill in better. Transition to lowland complex to the north and south.					
Canopy Species		% Cover	Size Class	DBH	Age							
Northern Pin Oak		5	Log	2								
Quaking Aspen		95	Log	4	25							
28	6123 - Lowland Fir	Poletimber Poor	16.7	88	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.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Red Maple		15		14		Balsam Fir		Low	5 - 10 feet	5 - 10 feet		
Balsam Fir		65	Seedling	8	88							
Black Spruce		15	Sapling	7								
Northern White Cedar		5		9								
29	6120 - Lowland Cedar	Poletimber Poor	27.4	105	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.					
Canopy Species		% Cover	Size Class	DBH	Age							
Balsam Fir		10	Pole	4								
Black Spruce		15	Pole	4								
Northern White Cedar		75	Seedling	8	105							
30	4130 - Aspen	Poletimber Well	1.2	58	81-110	N/A	Retention pockets from stand 21.					
Canopy Species		% Cover	Size Class	DBH	Age							
Basswood		5		10								
Red Maple		10		7								
Bigtooth Aspen		80		7	58							
Balsam Fir		5	Seedling	5								
31	4119 - Mixed Northern Hardwoods	Sawtimber Well	13.6	95	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.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Black Cherry		5		8		Red Maple				Low	>20 feet	>20 feet
Basswood		20		14		Ironwood				Low	10 - 20 feet	10 - 20 feet
Sugar Maple		30		14	95	Black Cherry				Low	10 - 20 feet	10 - 20 feet
Red Maple		20		11		Beech				Low	10 - 20 feet	10 - 20 feet
Paper Birch		10	Seedling	8								
Bigtooth Aspen		15		7								
32	6120 - Lowland Cedar	Sawtimber Well	17.1	105	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					
Canopy Species		% Cover	Size Class	DBH	Age							
Balsam Fir		15	Sapling	6								
Northern White Cedar		75	Seedling	9	105							
White Pine		10		14								
33	6229 - Mixed Lowland Shrub	Unspecifed	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	Unspecifed	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	37	1-50	N/A																																																							
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Red Maple	15	Sapling	5																																																										
Bigtooth Aspen	85	Sapling	5	37																																																									
36	4130 - Aspen	Sapling Well	15.4	25	Immature	N/A	Aspen stand with scattered jack pine and balsam fir in the understory.																																																						
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37	429 - Mixed Upland Conifers	Sawtimber Well	13.9	85	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.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>40</td><td></td><td>9</td><td>85</td></tr><tr><td>Balsam Fir</td><td>25</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>13</td><td></td></tr><tr><td>Jack Pine</td><td>25</td><td>Seedling</td><td>7</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	40		9	85	Balsam Fir	25	Sapling	6		White Pine	10		13		Jack Pine	25	Seedling	7																														
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Jack Pine	25	Seedling	7																																																										
38	6112 - Lowland Aspen	Sawtimber Medium	22.1	80	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.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>20</td><td></td><td>14</td><td>80</td><td>Black/Red (Hybrid) Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Ash</td><td>5</td><td></td><td>12</td><td></td><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Quaking Aspen</td><td>45</td><td></td><td>10</td><td>80</td><td></td><td></td><td></td><td></td></tr><tr><td>Black Cherry</td><td>10</td><td>Seedling</td><td>7</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Balsam Fir</td><td>20</td><td>Seedling</td><td>7</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	20		14	80	Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet	White Ash	5		12		Balsam Fir	Low	5 - 10 feet	5 - 10 feet	Quaking Aspen	45		10	80					Black Cherry	10	Seedling	7						Balsam Fir	20	Seedling	7					
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39	4130 - Aspen	Poletimber Well	0.7	58	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.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>5</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td></td><td>7</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>80</td><td></td><td>7</td><td>58</td></tr><tr><td>Basswood</td><td>5</td><td></td><td>10</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	5	Seedling	5		Red Maple	10		7		Bigtooth Aspen	80		7	58	Basswood	5		10																														
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Basswood	5		10																																																										
40	4131 - Aspen, Oak	Poletimber Poor	26.4	19	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.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Northern Pin Oak</td><td>5</td><td></td><td>12</td><td>97</td></tr><tr><td>Northern Pin Oak</td><td>15</td><td>Log</td><td>1</td><td></td></tr><tr><td>Quaking Aspen</td><td>75</td><td>Log</td><td>1</td><td>19</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5		12		Northern Pin Oak	5		12	97	Northern Pin Oak	15	Log	1		Quaking Aspen	75	Log	1	19																													
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Northern Pin Oak	5		12	97																																																									
Northern Pin Oak	15	Log	1																																																										
Quaking Aspen	75	Log	1	19																																																									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
45	4310 - Pine, Oak Mix	Sapling Well	31.8	80	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Pole	2		Balsam Fir	Low		5 - 10 feet	5 - 10 feet
White Pine	40		14	80	Northern Pin Oak	Low		5 - 10 feet	5 - 10 feet
Northern Pin Oak	30		15		Red Maple	Medium		10 - 20 feet	10 - 20 feet
White Oak	10		12		Bigtooth Aspen	Full		>20 feet	>20 feet
Balsam Fir	5	Seedling	6						
46	4136 - Aspen, Mixed Conifer	Sawtimber Well	4.0	70	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern Pin Oak	5	Seedling	8		Red Maple	Low		5 - 10 feet	5 - 10 feet
Balsam Fir	5	Sapling	7		Balsam Fir	Low		< 5 feet	< 5 feet
Red Maple	5	Seedling	8						
Bigtooth Aspen	70		10	70					
White Pine	15		12						
50	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	157.5	86	51-80	N/A	Contains Muskegon rive and many old oxbows of the river. Floods seasonally. Most of the ash is dead/dying.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	50		14	86	Balsam Fir	Low		5 - 10 feet	5 - 10 feet
Quaking Aspen	15	Sapling	7						
Basswood	10		8						
White Oak	3		12						
Balsam Fir	10	Sapling	6						
Black Cherry	5	Seedling	7						
Beech	2		13						
Hemlock	5		10						
56	42110 - Planted Red Pine	Poletimber Well	27.4	63	141-170	N/A	Thinned with sale #009-07		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	85		11	63	Balsam Fir	Low		< 5 feet	< 5 feet
Red Maple	5	Sapling	5		White Pine	Low		5 - 10 feet	5 - 10 feet
White Pine	5	Seedling	8						
Jack Pine	5	Seedling	8						
57	622 - Lowland Shrub	Unspecified	9.5			No	wet drainage dominated by alder. Has a few aspen, rm, and oak scattered throughout.		
					Sub-Canopy Species	Density		Avg. Height	Size
					Tag Alder	Medium		10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
60	6113 - Lowland Maple	Poletimber Poor	10.5	84	1-50	N/A	merchantable portion of stand was habitat cut. wet with a lot of dead ash snags.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	15	Sapling	6		Tag Alder	High		5 - 10 feet	5 - 10 feet
Red Maple	60		9	84	Balsam Fir	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	25	Seedling	7						
61	42290 - Natural Mixed Pine	Sawtimber Medium	39.2	86	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	15		17		Red Maple	Medium		10 - 20 feet	10 - 20 feet
White Spruce	10	Seedling	8		White Oak	Low		5 - 10 feet	5 - 10 feet
White Oak	10		11		White Pine	Medium		5 - 10 feet	5 - 10 feet
White Pine	25		14						
Jack Pine	5		10						
Red Pine	35		12	86					
64	4130 - Aspen	Sapling Medium	10.9	16	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).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	2	Log	3		Northern Pin Oak	Trace		5 - 10 feet	5 - 10 feet
Northern Pin Oak	1	Sapling	7						
Red Pine	2	Log	2						
Red Maple	20	Log	3	16					
Bigtooth Aspen	60	Log	3	16					
White Pine	15	Log	3						
66	42110 - Planted Red Pine	Sawtimber Well	10.1	63	111-140	N/A	Stand was last thinned in 2018, second thinning. Thin next entry (2037)		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black/Red (Hybrid) Oak	5		8		White Pine	Low		5 - 10 feet	5 - 10 feet
Red Pine	95		10	63					
68	4130 - Aspen	Sapling Medium	7.7	25	Immature	N/A	scattered overstory oak along western edge of stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5	Seedling	6		White Pine	Low		< 5 feet	< 5 feet
Northern Pin Oak	5	Seedling	8						
Red Maple	10	Log	2						
Bigtooth Aspen	80	Log	3	25					
72	42200 - Natural White Pine	Sapling Poor	7.4	16	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.		
Canopy Species	% Cover	Size Class	DBH	Age					
White Pine	60	Pole	4	16					
Jack Pine	30	Log	3						
Paper Birch	5	Log	2						
Bigtooth Aspen	5	Log	2	16					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
73	622 - Lowland Shrub	Unspecified	24.0			No	contains drainage to Muskegon River																																																						
74	6120 - Lowland Cedar	Poletimber Well	10.6	124	81-110	N/A																																																							
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Northern White Cedar	55		9	124																																																									
75	6239 - Mixed Emergent Wetland	Unspecified	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	Unspecified	94.1			No	small aspen stand in NE of stand.																																																						
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78	6120 - Lowland Cedar	Poletimber Well	32.2	124	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	12	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	Unspecified	24.0			No																																																							
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84	6220 - Alder/Willow	Unspecified	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	34	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																																																			
87	4130 - Aspen	Sapling Well	5.7	34	1-50	N/A	OPIC - FMD: OI Stand Year Origin was 1991																																																			
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88	4310 - Pine, Oak Mix	Sawtimber Well	3.1	69	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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90	6112 - Lowland Aspen	Poletimber Medium	1.7	59	1-50	N/A	Aspen and oak with wet areas. Understory starting to fill in with balsam fir.																																																			
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91	6229 - Mixed Lowland Shrub	Unspecifed	6.0			No																																																				
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Black Spruce	Low	10 - 20 feet	10 - 20 feet																																																							
92	4199 - Other Mixed Upland Deciduous	Poletimber Medium	3.7	90	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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
95	42210 - Natural Red Pine	Sawtimber Well	11.5	75	141-170	N/A	Treated last entry, aspen starting to encroach on edges.Larger diameter red pine to the north.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black/Red (Hybrid) Oak	15		14		Bigtooth Aspen	Low		5 - 10 feet	5 - 10 feet
White Pine	10		14		White Pine	Low		5 - 10 feet	5 - 10 feet
Red Pine	75		12	75					
96	4130 - Aspen	Poletimber Well	14.9	56	111-140	N/A	Comment 2015: Aspen will hold until next YOE. Very heavy red maple understory but all under 10' in height.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5	Seedling	9		Red Maple	High		5 - 10 feet	5 - 10 feet
Northern Pin Oak	5		10		Northern Pin Oak	Low		5 - 10 feet	5 - 10 feet
Red Pine	2		12						
Red Maple	5		10						
Paper Birch	3	Seedling	6						
Bigtooth Aspen	80	Seedling	8	56					
97	42200 - Natural White Pine	Sawtimber Well	12.1	75	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	10	Seedling	6		Red Maple	Low		5 - 10 feet	5 - 10 feet
Black Spruce	20	Seedling	6		Balsam Fir	Low		5 - 10 feet	5 - 10 feet
White Pine	60		13	75					
Red Maple	10		10						
99	6220 - Alder/Willow	Unspecified	6.8			No			
					Sub-Canopy Species	Density	Avg. Height	Size	
					Tag Alder	Medium	10 - 20 feet	10 - 20 feet	
101	4122 - Oak, Pine	Sawtimber Poor	57.1	113	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	5	Seedling	9		Red Maple	Low		>20 feet	>20 feet
White Pine	30		13		Bigtooth Aspen	Medium		>20 feet	>20 feet
Red Pine	5		12						
Red Oak	60		15	113					
102	6124 - Lowland Spruce-Fir	Poletimber Medium	4.3	48	1-50	N/A	stand transitions to lowland tot he southeast. Left as edge following adjacent harvest.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	25		10		Tag Alder	Low		5 - 10 feet	5 - 10 feet
Black Spruce	30	Seedling	6		Balsam Fir	Low		5 - 10 feet	5 - 10 feet
White Pine	10		10						
Balsam Fir	35	Sapling	6	48					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
104	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	8.8	66	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.																																																									
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108	6130 - Fir, Aspen, Maple	Sawtimber Well	6.9	81	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.																																																									
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109	6131 - Hemlock, White Pine, Maple, Birch	Sapling Poor	3.7	15	1-50	N/A	OPIC - FMD: same sale with stand 108. Mark to cut hdwds Treated with sale # 13-07Portions of the stand have standing water.																																																									
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112	4133 - Aspen, Mixed Pine	Poletimber Well	4.9	65	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.																																																							
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113	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	6.1	16	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)																																																							
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114	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	30.9	52	1-50	N/A	Lowland maple with numerous drains running thorough stand.																																																							
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115	6112 - Lowland Aspen	Unspecified	8.2	17	1-50	N/A	Habitat cut in 2008.Pretty wet stand, a lot of standing water and a lot of alder.																																																							
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116	4131 - Aspen, Oak	Poletimber Well	6.6	49	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 standSmall pole sized aspen stand with an oak log component;																																																							
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117	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	81.4	84	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.																																														
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118	4130 - Aspen	Poletimber Medium	8.3	40	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.																																														
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119	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	5.8	85	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.																																														
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120	42250 - Pine, Oak	Poletimber Medium	12.7	49	81-110	N/A	Final harvest next YOE. Natural Jack pine and maple that transitions to a lowland type to the east.																																														
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121	6220 - Alder/Willow	Unspecified	82.8			No																																															
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260	6112 - Lowland Aspen	Sapling Medium	2.1	14	Immature	N/A	stand was habitat cut																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
401	310 - Herbaceous Openland	Unspecified	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	Unspecified	3.4			No	Stand serves as good landing site for future pine thinning.Some scattered wolfy red pine.
404	310 - Herbaceous Openland	Unspecified	1.5			No	potential trespass from neighbor to the north mowing across line.
409	310 - Herbaceous Openland	Unspecified	1.8			No	Opening along two track through red pine plantations.Some red pine starting to seed in.