



# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 63037

Entry Year 2026

Acreage: 1,891

County Lake

Management Area: Lake County Outwash

**Stand Examiner:** Ryan Adamczyk

### Legal Description:

T19N R12W Sections 20, 29, 32

### Identified Planning Goals:

Vegetation management in the Lake County Outwash 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 planning period will focus on harvesting older jack pine and balancing the age-class distribution of aspen. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation; maintaining soft and hard mast sources including oak; and preserving related recreational opportunity. Expected trends within this 10-year planning period are the need to minimize jack pine budworm damage by reducing the amount of more susceptible older jack pine; the need to regenerate oak and red pine; the need to target some accessible aspen in older age-classes for harvest; and increased recreational pressure.

### Soil and topography:

Graycalm-Grayling sands: Nearly level and undulating, somewhat excessively drained Graycalm soils and excessively drained Grayling soils. The steepest terrain including the Graycalm-Grayling sands is located on the west side of the compartment. Tawas-Roscommon association: Nearly level, very poorly drained soils in drainage-ways and bogs generally found on the east side of the compartment.

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

The compartment is surrounded by other state lands with the exception of one small private parcel in the NWNW of section 32.

### Unique Natural Features:

E. Massasauga just west of the southwest corner of section 20, E. Massasauga to south. Great blue heron rookery just east of compartment. Wood turtle to northwest, Karner blue butterfly to west, Eagle to northwest, Loon to northeast and northwest, Hill's thistle to west. Potential for Karner blue butterfly, persius duskywing, frosted elfin, dusted skipper, grizzled skipper and red legged spittlebug in grassy openings. Potential for E. massasauga, Blanding's turtle, eastern box turtle and great blue heron rookery.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

None.

### Watershed and Fisheries Considerations:

The headwaters of the Baldwin River are in this Compartment. The Baldwin River is a Designated Trout Stream, and supports populations of brown trout, brook trout, rainbow trout (steelhead), coho salmon, and chinook salmon. BMPs should be followed for any treatments near flowing water in the Compartment.

### Wildlife Habitat Considerations:

The Baldwin-Luther Swamp is a large component of this Management Area and comprises the eastern part of this compartment. This swamp is a core area for bear populations in the southern part of the Baldwin Bear Management Unit and is an important deeryard area. In addition, it is a proposed eastern massasauga rattlesnake (EMR) management area. Heavy concentrations of deer during the winter and spring cause serious regeneration problems for oak and aspen management surrounding the swamp. High water tables and windthrow have created problems with the regenerating of swamp conifers and desirable hardwoods within the swamp. Treatments within the proposed EMR area should follow those guidelines. Overall, wildlife goals are to maintain lowland conifer and to promote oak and aspen adjacent to lowlands. Creation of brush piles near lowlands, protection of mast bearing shrubs and provision of coarse woody debris are also desired. Seek opportunities to promote a mix of cover types including non-forested or barrens areas in addition to larger stands of older age and variable age classes with vertical structure. Featured species of special interest are marten,

eastern massasauga rattlesnake, snowshoe hare, deer, black bear, and red-headed woodpecker.

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

Surface sediments consist of an end moraine of coarse-textured till and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the State. Gravel pits are found two miles to the east and potential is considered good on the upland areas. This compartment is located in an area sparsely drilled for oil and gas. The nearest good production is Peacock Field located five miles to the west. Peacock Field has produced over 1.6 million BO from the Devonian Traverse Limestone. None of the compartment is currently leased for oil and gas development.

### **Vehicle Access:**

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

### **Survey Needs:**

Small parcel of private located in 19N 12W Section 32 NW1/4 NW1/4.

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

A variety of motorsport recreational trails track North/South through the center of this compartment. For winter use, there is 3.3 miles of snowmobile trail (#344E). Summer use includes 3.3 miles of Little Manistee ORV route, which is adjacent/intertwined with 4 miles of Little Manistee motorcycle trail. Due to the wet nature of this compartment, along with centralized location of the ORV route and snowmobile trail--both these recreational trails are likely the most suitable haul routes for timber harvest activities. Timber sale specifications should include trail protection provisions that address both summer and winter motorized recreational activities. The motorcycle trail is designed to be narrow (24 inches at ground level, 40 inches at handlebar height) to provide a unique motorcycling experience, as well as deter larger unwanted ORV's from accessing state lands. Where practical, recommend leaving or protecting trees that provide a narrow corridor to dissuade larger vehicles from entering the motorcycle trail. Hunting and fishing opportunities exist within this compartment.

### **Fire Protection:**

Numerous conifer stands mixed with lowland fuel types can create control problems for suppression forces. Fuel types in this compartment would support large fire within this area. With several miles of off road vehicle trails, the potential for a wildfire occurrence is increased.

### **Additional Compartment Information:**

None.

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

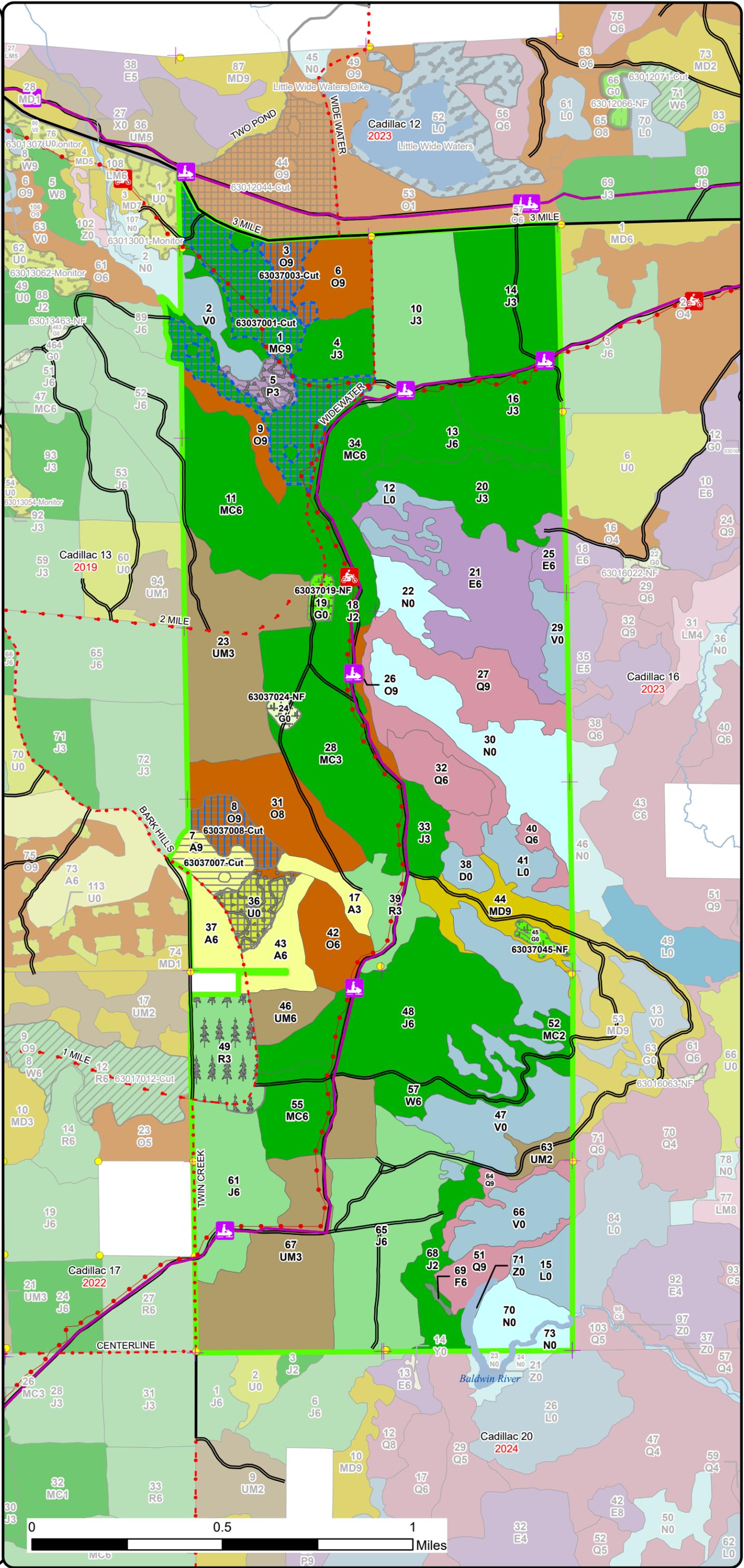
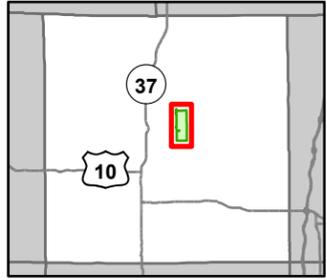
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

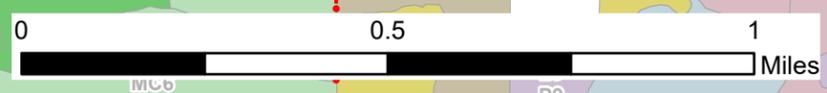
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 63037  
 T19N, R12W, Sec. 20, 29, 32  
 County: Lake  
 Unit: Cadillac  
 Mgmt Area: Lake County  
 Outwash  
 YOE: 2026  
 Acres: 1890.8 GIS Calculated  
 Examiner: Ryan Adamczyk  
 Map Revised: 7/18/2024  
 Map Phase: Web Post

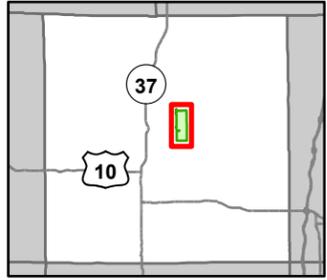


- Motorcycle Trails (DNR License)
- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Remonumented Section Corners
- Survey Grade Corners
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Planting (tree species)
- Regeneration Survey
- Other Treatment - See Comments
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

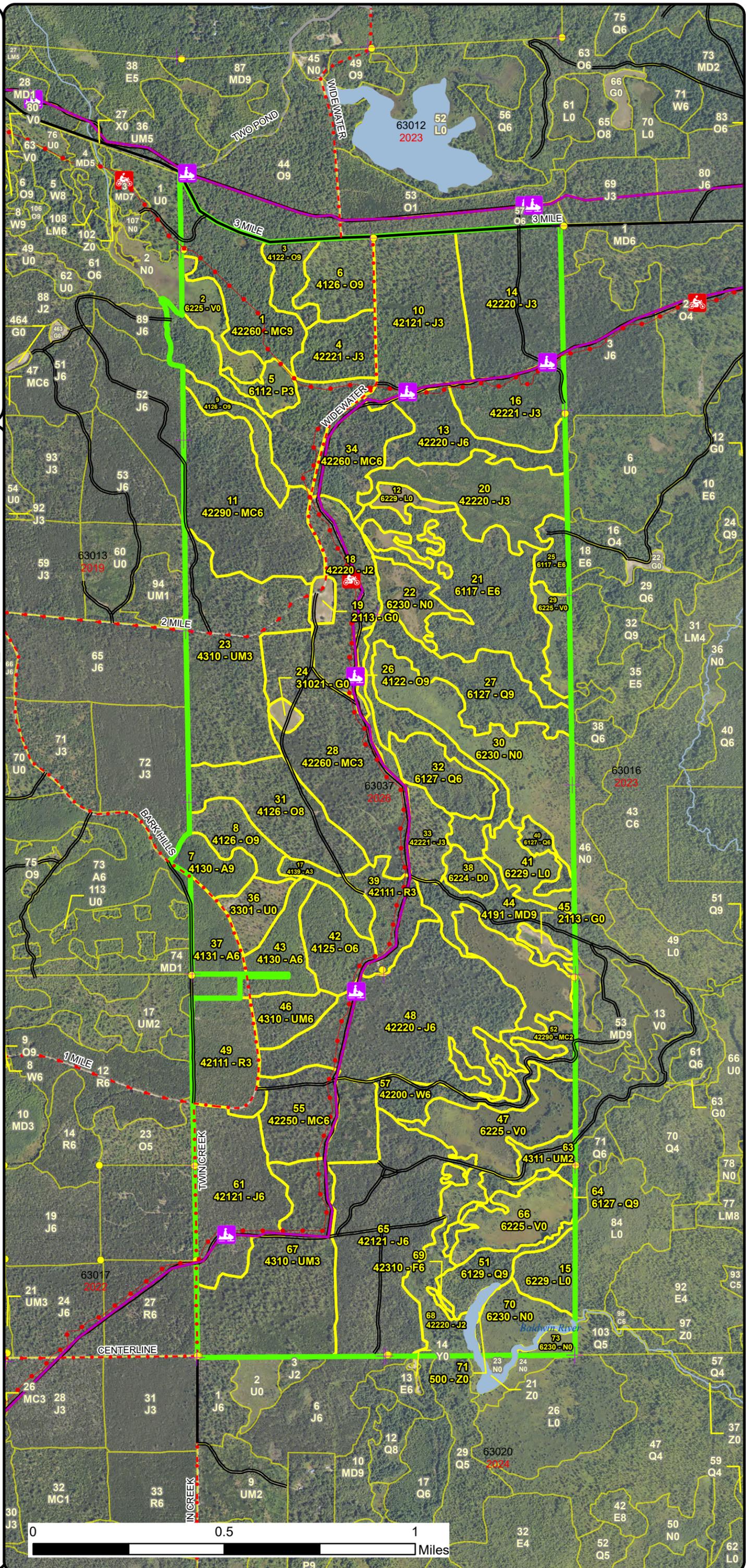


# Stand Boundary Map

Compartment: 63037  
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 Outwash  
 YOE: 2026  
 Acres: 1890.8 GIS Calculated  
 Examiner: Ryan Adamczyk  
 Map Revised: 7/18/2024  
 Map Phase: Web Post

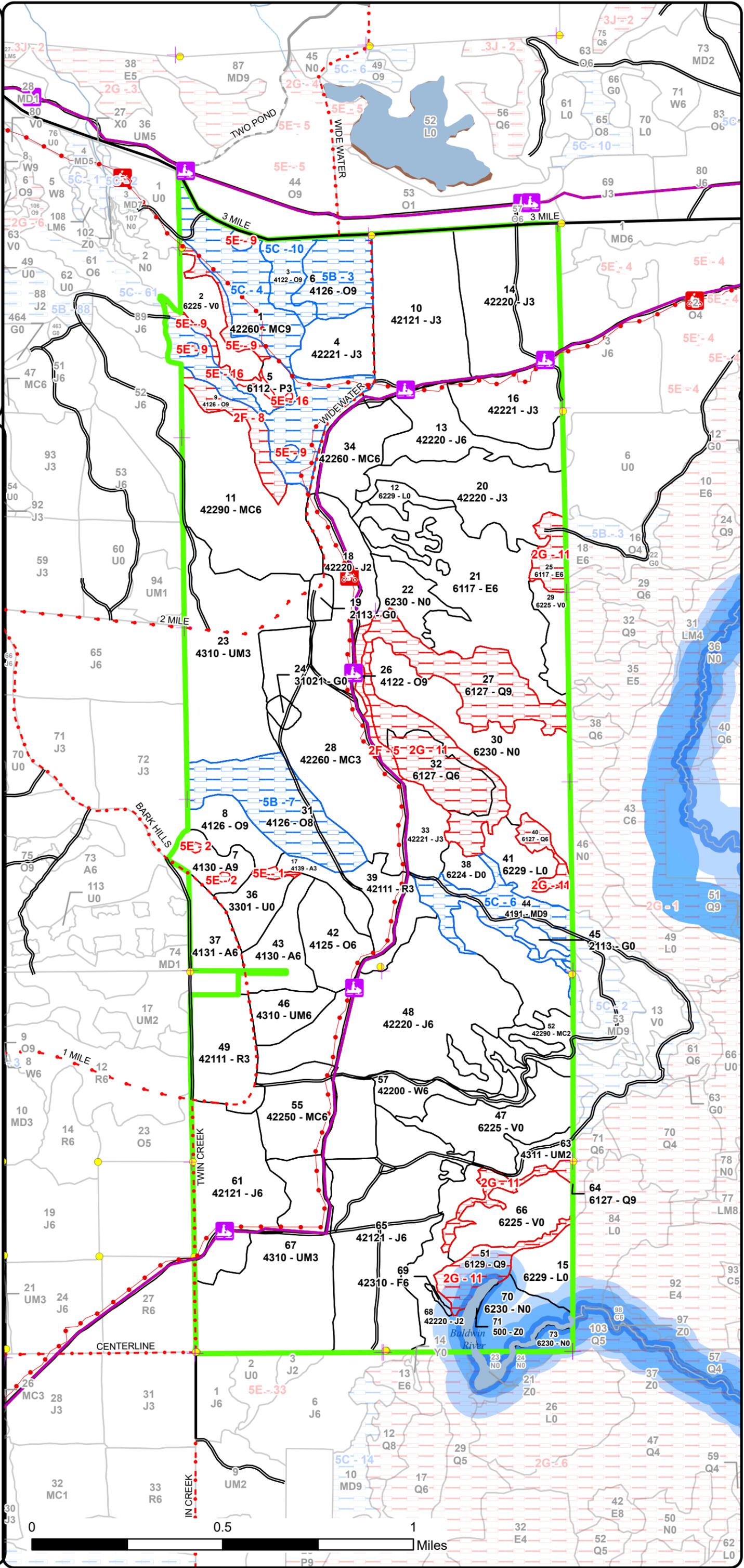
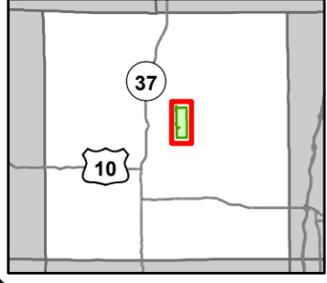


- Motorcycle Trails (DNR License)
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- 623 - Emergent Wetland
- State Forests



# Special Conservation Areas & Site Conditions Map

Compartment: 63037  
 T19N, R12W, Sec. 20, 29, 32  
 County: Lake  
 Unit: Cadillac  
 Mgmt Area: Lake County  
 Outwash  
 YOE: 2026  
 Acres: 1890.8 GIS Calculated  
 Examiner: Ryan Adamczyk  
 Map Revised: 7/18/2024  
 Map Phase: Web Post



- Motorcycle Trails (DNR License)
- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
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- DNR - Secondary Forest Road
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- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Counties
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Wildlife Management Areas





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	0	10	0	16	36	0	0	0	0	0	0	0	0	0	0	0	0	62
Bog	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
Cropland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	219	104	168	92	0	0	0	0	0	0	0	0	0	0	0	0	583
Low-Density Trees	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	7	31	15	59	0	0	0	0	0	0	0	111
Lowland Deciduous	0	0	0	0	0	0	0	74	10	0	0	0	0	0	0	0	0	0	84
Lowland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Marsh	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	28
Natural Mixed Pines	0	0	11	174	0	0	0	28	85	0	0	0	0	0	0	0	0	0	298
Oak	0	0	0	0	0	23	0	0	0	0	61	54	0	0	0	0	0	0	138
Red Pine	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Treed Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	185	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	199
Upland Spruce/Fir	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>309</b>	<b>9</b>	<b>479</b>	<b>278</b>	<b>184</b>	<b>167</b>	<b>0</b>	<b>127</b>	<b>126</b>	<b>15</b>	<b>148</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1892</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Compartment 37

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 1,891

Commercial Harvest - 29  
 Harvests with Site Condition - 85  
 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	13	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	0	73	0	0	0	0	0	73
Oak	0	0	0	29	0	0	0	0	0	29
<b>Total</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>101</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>114</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	114	0	0	0	0	0	0	0	12	126
Next Step	0	0	0	0	0	0	114	0	0	114
<b>Total</b>	<b>114</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>114</b>	<b>0</b>	<b>12</b>	<b>240</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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**Proposed Treatments:**

<b>1</b>	<b>63037001-Cut</b>	72.5	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	75	111-140	Harvest	Seed Tree with Retention	4122 - Oak, Pine	Even-Aged	No
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Prescription Specs: Cut all tree species greater than 4.5" except do not cut white oak or red pine. Do not cut white pine greater than 18". Keep a 100' buffer along all wetland areas and mark a few small pockets throughout the stand as long term retention. BA should not exceed 30. Use oak wilt spec with exceptions. Use grouse spec. Use trail protection spec. Use EMR spec, harvest only during frozen winter or dry summer. Make a 3 year contract and harvest with stand 3.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: oak species, white pine, aspen, red maple, jack pine

Other Comment:

Site Condition Age-Class or Site Quality

Proposed Start Date: 10/1 /2025

<b>3</b>	<b>63037003-Cut</b>	12.8	4122 - Oak, Pine	Sawtimber Well	104	51-80	Harvest	Seed Tree with Retention	4122 - Oak, Pine	Even-Aged	No
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Prescription Specs: Cut all trees greater than 4.5" DBH except do not cut white oak. Mark to leave a healthy white pine 12" or greater per acre while cruising. Use oak wilt spec with exceptions. Harvest with stand 1. Delay treatment until 3 years post harvest of adjacent stand to the north.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: oak species, white pine, jack pine, red maple, red pine

Other Comment:

Site Condition Age-Class or Site Quality

Proposed Start Date: 10/1 /2025

<b>7</b>	<b>63037007-Cut</b>	13.3	4130 - Aspen	Sawtimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Cut all species greater than 2" DBH. Mark a couple small retention islands following certification guidelines. Use grouse spec.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: aspen, red maple, oak sp.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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>8 63037008-Cut</b>	15.7	4126 - White, Black, N. Pin Oak	Sawtimber Well	93	81-110	Harvest	Seed Tree with Retention	4126 - White, Black, N. Pin Oak	Even-Aged	No
<p><u>Prescription</u> Cut all species except white oak. Do not cut any standing dead or any species less than 4.5" DBH. Retention will be the residual BA as well as the hill on the south side of the unit as shown on map. Use oak wilt restriction with exceptions.</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> Pin oak, white oak, red maple, aspen, jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>19 63037019-NF</b>	4.8	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3102 - Grass	No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>24 63037024-NF</b>	3.2	31021 - Cool Season Grass	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3102 - Grass	No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>45 63037045-NF</b>	3.7	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3102 - Grass	No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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
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Total Treatment  
Acreage Proposed: 126

## Report 4 – Site Conditions

Cadillac Mgt. Unit

Ryan Adamczyk : Examiner

Compartment: 37

Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5B	5C	2F	2G	5E
61	60	0	1	Aspen					1
54	54	0	0	Bog					0
9	9	0	0	Cropland					
3	3	0	0	Herbaceous Openland					
582	582	0	0	Jack Pine					
14	14	0	0	Low-Density Trees					
9	7	0	2	Lowland Aspen/Balsam Poplar					2
112	0	0	112	Lowland Conifers				112	
83	74	0	10	Lowland Deciduous				10	
45	45	0	0	Lowland Shrub					
78	78	0	0	Marsh					
28	0	28	0	Mixed Upland Deciduous		28			
298	213	72	12	Natural Mixed Pines		72			12
139	39	80	20	Oak	67	13	18		1
54	54	0	0	Red Pine					
8	8	0	0	Treed Bog					
200	200	0	0	Upland Mixed Forest					
1	1	0	0	Upland Spruce/Fir					
4	4	0	0	Water					
17	17	0	0	White Pine					
1,797	1,459	180	157	Total Forested Acres	67	113	18	121	17
	81%	10%	9%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit

Ryan Adamczyk : Examiner

Compartment: 37

Year of Entry: 2026

2	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2F: Too steep</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>2F: Too steep</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
 Ryan Adamczyk : Examiner

Compartment: 37  
 Year of Entry: 2026

9	Unavailable	5E: Long-Term Retention	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	122	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	2	2G: Too wet (sensitive soils, does not include access issues)	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

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	84.8	75	111-140	N/A																																																										
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2	6225 - Bog	Nonstocked	15.3		Unspecified	No																																																										
3	4122 - Oak, Pine	Sawtimber Well	12.8	104	51-80	N/A	Scattered pockets of oak and pine with open areas throughout. Overall a mixed oak and pine stand.																																																									
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4	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	20.6	31	1-50	N/A	Stand treated timber sale #63-005-93-01, "Trail Corners Sale". Sale Spec: Do not cut any oak. Leave one mature jack pine every 75', approx. 8 trees per acre.																																																									
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10	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	63.2	13	1-50	N/A	Stand planted to jack pine per FTP #C63-704 in 2011. Stand treated timber sale "63-024-06-01, "Jungle Jack". Treated in 2009. Specs read: Do not cut oak and green painted trees.																																																					
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11	42290 - Natural Mixed Pine	Poletimber Well	70.3	29	1-50	N/A	Stand treated timber sale #63-007-93-01.																																																					
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12	6229 - Mixed lowland shrub	Nonstocked	12.7		Unspecified	No																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
13	42220 - Natural Jack Pine	Poletimber Well	30.3	30	1-50	N/A	Stand treated timber sale #63-005-93-01, "Trail Corners". Cut in 1994.																																											
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14	42220 - Natural Jack Pine	Sapling Well	62.2	31	1-50	N/A	Stand treated timber sale #63-002-93-01, "Deer Skull Sale". Cut in 1993. Excellent regen.																																											
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15	6229 - Mixed lowland shrub	Nonstocked	15.3		Unspecified	No	Lowland complex comprised of cattails, leatherleaf, mixed shrubs, and scattered deciduous and coniferous tree species.																																											
16	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	32.0	16	Immature	N/A	Stand treated timber sale #63-024-006-01, "Jungle Jack". Sale specs: Do not cut any oak greater than 10" DBH. Do not cut any green painted trees.																																											
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Jack Pine	62	Sapling	3	16																																														
17	4139 - Aspen, Mixed Deciduous	Sapling Well	9.7	12	Immature	N/A	Stand treated timber sale #63-004-07-01, "Trouble Shooting Oak". Cut in 2010. Cut all trees except oak 4.5" DBH and under. Stand was harvested along with 39. East side of stand was trenched and planted to red pine using 75% oak weave per FTP #C63-707. Do not cut any green painted trees.																																											
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18	42220 - Natural Jack Pine	Sapling Medium	38.9	13	1-50	N/A	Stand treated timber sale #63-007-11-01, "Little M Jack". Cut in 2011. Cut all trees except oak 10" DBH and greater. Do not cut green painted trees. Good amount of oak seedlings above snow. Occasional overstory jack pine.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 2113 - Forage Crops Nonstocked 4.8 Unspecified No

20 42220 - Natural Jack Pine Sapling Well 45.4 15 Immature N/A Stand treated timber sale #63-039-06-01, Skeeter Holler. Cut in 2009.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	75	Sapling	2	15
Northern Pin Oak	10	Sapling	1	
White Pine	5	Pole/Sapling	6	
Black Cherry	10	Sapling	2	

21 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 73.5 65 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	15	Pole/Sap/Log	7		White Pine	Medium	Variable	Sapling
Bigtooth Aspen	15	Pole/Sap/Log	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Pine	5	Log/Pole	14		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	20	Log/Pole/XLog	10					
Red Maple	35	Pole/Log/Sap	7	65				
Northern Pin Oak	10	Pole/Sapling	6					

22 6230 - Cattail Nonstocked 16.0 Unspecified No Lowland complex comprised of cattails, tag alder, leatherleaf, and scattered conifer trees.

23 4310 - Pine, Oak Mix Sapling Well 81.3 17 1-50 N/A Stand treated timber sale #63-020-06-01, Bark Hills. Cut in 2007. All oak was left. Good regen north of Bark Hills Rd.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	15	Sapling	2	
White Oak	5	Pole/Sap/Log	8	
Black/Red (Hybrid) Oak	20	Log	12	100
Black Cherry	5	Sapling	3	
Jack Pine	55	Sapling	3	17

24 31021 - Cool Season Grass Nonstocked 3.2 Unspecified No

25 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 9.7 75 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Pole/Log	8		White Pine	High	10 - 20 feet	Sapling
Red Maple	35	Log/Pole	10	75				
White Pine	30	Log/Pole	12					
Black/Red (Hybrid) Oak	20	Pole/Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**26** 4122 - Oak, Pine Sawtimber Well 5.6 105 1-50 N/A Ridge top and side hill. Slopes to lowland.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log/Pole	12		White Pine	Full	>20 feet	Pole
White Oak	25	Log/Pole	12		Red Pine	Medium	>20 feet	Pole
Black/Red (Hybrid) Oak	45	Log/Pole	12	105				
White Pine	20	Log/Pole	10					

**27** 6127 - Lowland Pine Sawtimber Well 59.4 95 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Pole/Log	9		White Pine	High	10 - 20 feet	Sapling
Red Maple	20	Log/Pole	10					
White Pine	45	Log/Pole	12	95				
Hemlock	10	Log/Pole	10					
Red Pine	5	Log/Pole	12					
Northern White Cedar	15	Pole/Log	8					

**28** 42260 - Natural Pine, Mixed Deciduous Sapling Well 75.2 29 1-50 N/A Stand treated timber sale #63-012-93-01, "Bear Paw Jack Pine". Sale spec: Cut all jack pine.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Pole/Sap/Log	8	
Black/Red (Hybrid) Oak	20	Sapling	4	
Jack Pine	55	Sapling/Pole	4	29
Black/Red (Hybrid) Oak	5	Log	12	
White Pine	10	Pole/Sapling	6	
Black Cherry	5	Sapling	3	

**29** 6225 - Bog Nonstocked 11.7 Unspecified No

**30** 6230 - Cattail Nonstocked 58.0 Unspecified No Lowland complex comprised of cattails, tag alder, leatherleaf, and scattered conifer trees.

**31** 4126 - White, Black, N. Pin Oak Sawtimber Medium 43.8 91 1-50 N/A Stand treated timber sale #63-063-07-01, The Bark Boot. Cut in 2009.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Log/Pole	10		Northern Pin Oak	Low	5 - 10 feet	Sapling
White Pine	10	Pole	6		White Oak	Medium	< 5 feet	Sapling
Jack Pine	15	Pole/Log	8		Jack Pine	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	55	Log/Pole	12	91				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**32** 6127 - Lowland Pine Poletimber Well 22.1 70 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	6		Leatherleaf	High	< 5 feet	Tall Shrub
Black Spruce	10	Pole/Log	8					
White Pine	55	Pole/Log	8	70				
Jack Pine	15	Pole/Log	6					
Tamarack	5	Pole/Log	8					

**33** 42221 - Natural Jack Pine, Mixed Deciduous Sapling Well 14.7 13 Immature N/A

Stand treated timber sale #63-007-11-01, "Little M Jack". Cut in 2011. Sale specs: Do not cut any green painted trees and do not cut any oak. Overstory oak approximately 8-9" DBH.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	65	Sapling	1	13
Northern Pin Oak	20	Sapling/Pole/Log	4	
White Oak	5	Sapling/Pole	2	
White Pine	5	Sapling/Pole	4	
Black Cherry	5	Sapling	1	

**34** 42260 - Natural Pine, Mixed Deciduous Poletimber Well 27.8 65 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	45	Log/Pole/XLog	10	65	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Pine	5	Log/Pole	14		White Pine	Medium	Variable	Sapling
Red Maple	15	Pole	7		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Northern Pin Oak	5	Pole/Sapling	6					
Jack Pine	20	Pole/Sap/Log	7					
Bigtooth Aspen	10	Pole/Sap/Log	7					

**36** 3301 - Low Density Deciduous Trees Nonstocked 13.8 0 Unspecified 4126 - White, Black, N. Pin Oak Stand treated in 2020 as part of Bark Hills timbersale, # 60-021-16-01.

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	< 5 feet	Sapling
White Oak	Low	>20 feet	Log
Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Maple	Low	< 5 feet	Sapling
White Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	Low	>20 feet	Log
Bigtooth Aspen	Low	5 - 10 feet	Sapling
White Pine	Trace	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
<b>37</b>	4131 - Aspen, Oak	Poletimber Well	15.6	38	51-80	N/A																																								
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<b>38</b>	6224 - Treed Bog	Nonstocked	7.6		Unspecified	No	Leatherleaf bog with scattered white pine, occasional black spruce.																																							
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<b>39</b>	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	21.5	12	Immature	N/A	Regen looks good. Trenched and planted red pine using 75% oak weave per FTP #C63-707. Stand treated timber sale #63-004-07-01, "Trouble Shooting Oak". Cut in 2010. Cut all trees except oak 4.5" DBH and under. Do not cut any green painted trees.																																							
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<b>40</b>	6127 - Lowland Pine	Poletimber Well	6.7	60	1-50	N/A																																								
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<b>41</b>	6229 - Mixed lowland shrub	Nonstocked	16.5		Unspecified	No																																								
<b>42</b>	4125 - Black, N. Pin Oak	Poletimber Well	23.2	40	1-50	N/A																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**43** 4130 - Aspen Poletimber Well 21.5 41 51-80 N/A Stand treated timber sale #63-011-83-01, "Barkhill Oak". Cut in 1983.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	7	
Bigtooth Aspen	65	Pole/Sapling	7	41
Black/Red (Hybrid) Oak	15	Pole/Sapling	5	

**44** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 28.1 94 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log/Pole	10	
White Oak	20	Log/Pole	12	
Black/Red (Hybrid) Oak	33	Log/Pole	14	94
Jack Pine	15	Log/Pole	10	
White Pine	22	Log/Pole	12	
Bigtooth Aspen	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	Sapling
White Oak	Medium	< 5 feet	Sapling
White Pine	Trace	10 - 20 feet	Sapling

**45** 2113 - Forage Crops Nonstocked 3.7 Unspecified Managed Opening Not maintained Wildlife opening, filling in with jack pine

**46** 4310 - Pine, Oak Mix Poletimber Well 14.5 41 1-50 N/A Stand treated timber sale #63-011-83-01, "Barkhill Oak". Cut in 1983.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	50	Pole/Sapling	6	41
White Pine	5	Pole/Sapling	5	
Red Maple	5	Pole/Sapling	6	
White Oak	10	Pole/Sapling	4	
Black/Red (Hybrid) Oak	30	Pole/Sapling	6	

**47** 6225 - Bog Nonstocked 75.0 Unspecified No

**48** 42220 - Natural Jack Pine Poletimber Well 103.7 28 51-80 N/A Stand treated timber sale #63-018-93-01, "Flying MJP". Cut in 1996.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Log	12	
Black/Red (Hybrid) Oak	20	Sapling	3	
Black Cherry	5	Sapling/Pole	4	
Jack Pine	70	Sapling/Pole/Log	4	28



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**49** 42111 - Planted Red Pine, Mixed Deciduous Sapling Well 32.5 14 Immature N/A

Stand treated timber sale #63-022-10-01, "Little M Jack". Cut in 2011. Planted 2015. This stand has been updated from a field evaluation for a project on free to grow red pine.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	10	Sapling	2	
Red Pine	60	Sapling	2	14
Black Cherry	20	Sapling	3	

**51** 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 15.2 85 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole/Log	8		Leatherleaf	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	35	Log/Pole	10	85	Cattail spp.	Medium	Unspecified	Non-Wood
Hemlock	20	Log/Pole	12					
Red Maple	5	Pole/Log	8					
Paper Birch	5	Log/Pole	10					
White Pine	30	Log/Pole	14					

**52** 42290 - Natural Mixed Pine Sapling Medium 11.4 14 Immature N/A

Regen looks good. Trenched and planted red pine using 75% oak weave per FTP #C63-707. Stand treated timber sale #63-004-07-01, "Trouble Shooting Oak". Cut in 2010. Sale specs: Do not cut any oak 4.5" DBH and smaller. Do not cut any green painted trees.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	20	Sapling	1	
Black/Red (Hybrid) Oak	10	Sapling/Pole/Log	4	
White Pine	5	Log/Pole	12	
Jack Pine	55	Sapling	2	14
Bigtooth Aspen	10	Sapling	2	

**55** 42250 - Pine, Oak Poletimber Well 28.2 28 51-80 N/A

Stand treated timber sale #63-018-93-01, "Flying MJP". Cut in 1996.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	35	Log/Pole/Sap	10	
Jack Pine	60	Sapling/Pole/Log	4	28
Black Cherry	5	Sapling/Pole	3	

**57** 42200 - Natural White Pine Poletimber Well 17.5 62 51-80 N/A

Upland ridge of white pine pulpwood with some mature oak, white, red, and jack pine. Do not treat for age class and species diversity.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	70	Pole/Log	8	62	White Pine	Medium	5 - 10 feet	Sapling
White Oak	5	Pole/Log	10		Black Cherry	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	10	Pole/Log	10					
Red Pine	5	Pole/Log	9					
Jack Pine	10	Pole/Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>61</b>	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	54.5	39	51-80	N/A	Stand planted per FTP #C63-231, 1985. Wildfire burned through area in 1981 (exact location not known).
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Pole/Sapling	5	
Jack Pine	80	Pole/Sapling	7	39

<b>63</b>	4311 - Pine, Aspen Mix	Sapling Medium	8.2	13	Immature	N/A	Stand treated timber sale #63-032-06-01, "Springtime Pine & Aspen". Cut in 2011.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	10	
White Pine	5	Sapling	2	
Jack Pine	45	Sapling	2	13
Bigtooth Aspen	30	Sapling	2	
Black Cherry	15	Sapling	2	

<b>64</b>	6127 - Lowland Pine	Sawtimber Well	8.4	75	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole/Log	8		White Pine	High	10 - 20 feet	Sapling
Red Maple	10	Log/Pole	10					
Jack Pine	5	Pole/Sapling	7					
Black/Red (Hybrid) Oak	5	Pole/Log	8					
Red Pine	5	Pole/Log	9					
White Pine	55	Log/Pole	14	75				
Hemlock	5	Log/Pole	10					
Bigtooth Aspen	5	Pole/Log	8					
White Oak	5	Pole/Log	8					

<b>65</b>	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	91.5	45	51-80	N/A	Stand trenched and planted to jack pine per FTP #C63-17 in 1979. Jack pine sizes and densities vary somewhat throughout stand. Stand mostly small pole with some large diameters in more open areas.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Pole/Sapling	8	
Jack Pine	70	Pole/Sapling	7	45
White Oak	10	Pole/Sapling	6	

<b>66</b>	6225 - Bog	Nonstocked	26.6		Unspecified	No	Leatherleaf bog with cattails, shrubs, and a small patch of open water.
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Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	High	Unspecified	Non-Wood
White Pine	Trace	>20 feet	Log
Leatherleaf	High	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>67</b>	4310 - Pine, Oak Mix	Sapling Well	95.8	14	Immature	N/A	Stand trenched and planted to jack pine per FTP #C63-708 in 2010. Stand treated per timber sale #63-017-06-01, "Furrows & Feathers". Cut in 2009. Sale specs: Do not cut any green ringed trees. Do not cut oak.																																								
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<b>68</b>	42220 - Natural Jack Pine	Sapling Medium	25.0	13	Immature	N/A	Stand treated timber sale #63-032-06-01, "Springtime Pine & Aspen". Cut in late December of 2010.																																								
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<b>69</b>	42310 - Planted Spruce	Poletimber Well	0.8	42	51-80	N/A	Stand planted to white spruce per FTP #W63-185 in 1982. Stand is slightly upland but surrounded by lowland areas.																																								
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<b>70</b>	6230 - Cattail	Nonstocked	18.9		Unspecified	No	Lowland complex comprised of cattails, leatherleaf, mixed shrubs, and scattered deciduous and coniferous tree species.																																								
<b>71</b>	500 - Water	Nonstocked	3.5		Unspecified	No																																									
<b>73</b>	6230 - Cattail	Nonstocked	4.4		Unspecified	No	Lowland complex comprised of cattails, leatherleaf, and mixed shrubs.																																								