



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63141

Entry Year 2024

Acreage: 1,346

County Wexford

Management Area: Upper Muskegon

**Stand Examiner:** Michael Aksamit

## Legal Description:

T22N R 9 W, Sections 1, 2, 3, 10, 11 & 12

## Identified Planning Goals:

Vegetation management in the Upper Muskegon management area (MA) (Figure 2.27.1) 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:

Rubicon-Montcalm-Graycalm in the uplands and Muck and Peat in lowlands. Numerous potholes, lakes and bogs with rolling topography in the uplands.

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

Mixed public and private lands with no intensive residential development adjoining state owned lands. There is an 11 acre parcel for sale with frontage on Long Lake that should be considered for acquisition. There are also several land locked parcels in section 12 that should be considered.

## Unique Natural Features:

Emergent Marsh element occurrence in section 12 Round Lake. Northern wet meadow and submergent marsh in section 3 (Long Lake). The common loon is present throughout the compartment. Potential for blanding's turtle, spotted turtle, secretive locust, and ebony bog haunter in bog cover types.

## Archeological, Historical, and Cultural Features:

None Known

## Special Management Designations or Considerations:

Riparian zones should be buffered and aesthetics maintained during harvest operations

## Watershed and Fisheries Considerations:

Long Lake, Whitlock Lake, and Island Lake are located within Compartment 141. Long Lake provides fishing for largemouth bass, northern pike, bluegill, black crappie, pumpkinseed sunfish, and yellow perch. Protection for these lakes and other ponds should follow the Best Management Practice setbacks recommended in the Forest management Guidelines. (R. O'Neal 10/12)

## Wildlife Habitat Considerations:

Management should be centered on maintaining existing cover types due to the good mixture of habitats provided, regenerating oak, and providing adequate buffers for the potholes, bogs and lakes in this compartment. Featured species guidance will be considered for American bittern, American woodcock, beaver, black bear, eastern massasauga rattlesnake, mallard, pileated woodpecker, red-headed woodpecker, ruffed grouse, snowshoe hare, white-tailed deer, and wood duck. (E. Victory 9/2012)

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured glacial till. The glacial drift thickness varies between 600 and 1,000 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale elsewhere in the State. A gravel pit is located in Section 11 and gravel potential is considered to be good, especially the upland areas. This area lies eighteen miles southeast of the prolific Guelph (Niagaran) reef trend, but there does not appear to be any potential for reefs

in this area. This area is partially leased for oil and gas.

**Vehicle Access:**

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

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

Long Lake State Forest Campground, and road are located within this compartment. Any proposed harvesting within the campground or along the campground road should be completed during non camping season, using a short wood technique to reduce damage to desirable understory trees. Approximately 4 miles of the Long Lake motorcycle trail pass through the compartment. The Long Lake Motorcycle Trail is designated by Directors Order to remain 2 wheeled vehicles only trail- therefore this trail should be kept tight, narrow, and curvy. The non-motorized shore to shore riding and hiking trail passes thru this compartment. Proposed timber management activities should include trail protection specifications to reduce user impacts, as well as serve as an example of how silviculturally sound timber management practices can co-exist, and often improve recreation and wildlife experiences for future generations. (T.M.N. 8-31-12)

**Fire Protection:**

Access is by county and forest roads. Terrain will be a concern for access of fire suppression equipment. Recreational use has the potential to be a cause of wildfires in the area. Recreational users will be a concern during a wildfire or prescribed burn. Dry periods of weather may be an issue for muck fires. (BET 8-1-12)

**Additional Compartment Information:**

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

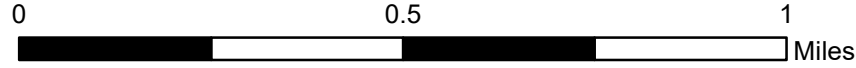
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

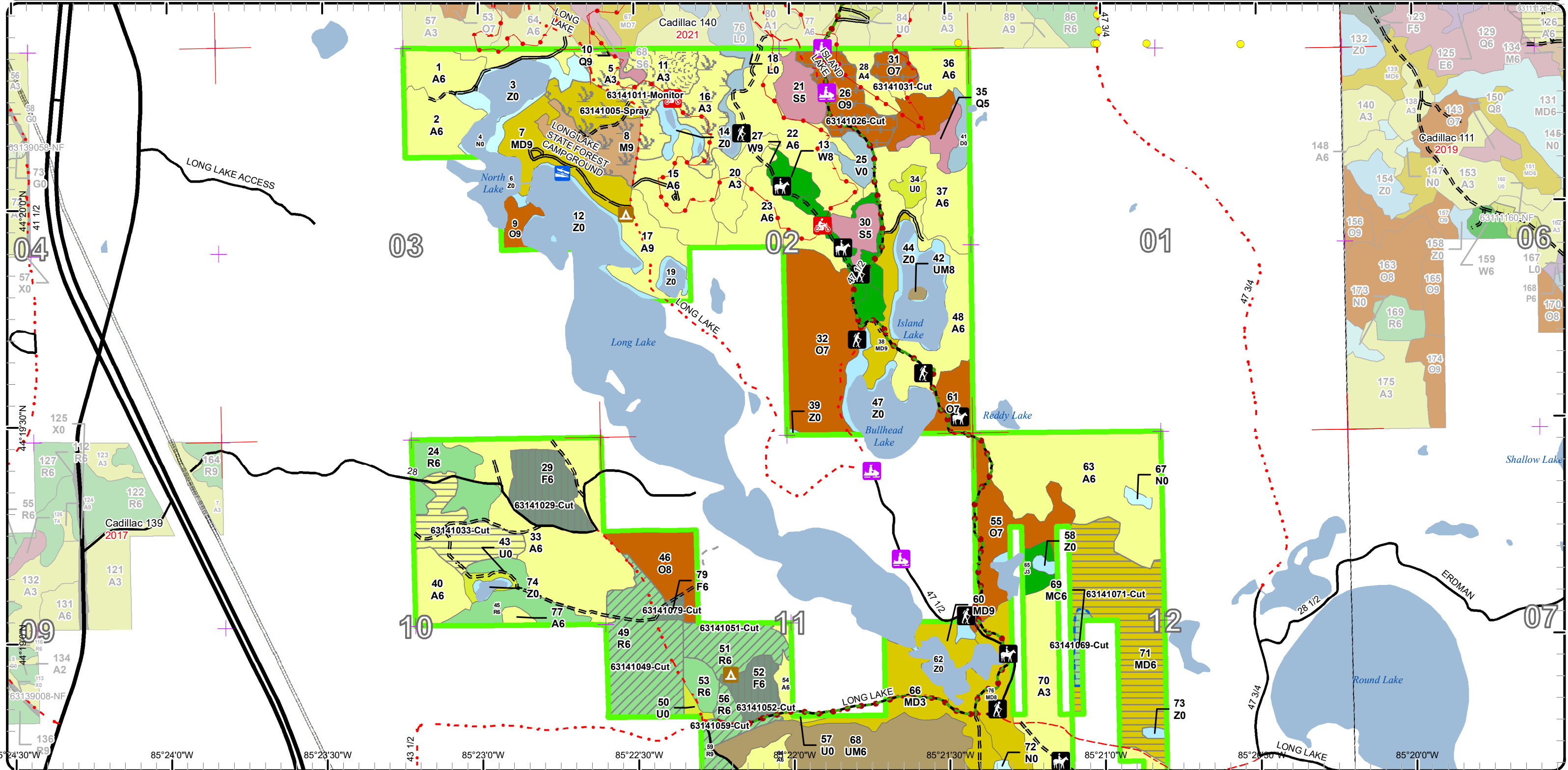
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 141  
 T22N-R09W Sec. 01-03,10-12  
 County: Wexford  
 Unit: Cadillac  
 Mgmt Area: Upper Muskegon  
 YOE: 2024  
 Acres: 1346.3 GIS Calculated  
 Examiner: Michael Aksamit  
 Map Revised: 10/5/2022  
 Map Phase: Post - Maps



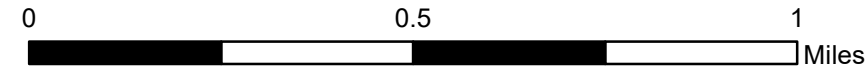
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- + Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
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- Private - Dirt / Gravel Road
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- Treatments with Site Conditions
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- Clearcut (w/Reserves)
- Harvest, Overstory Removal
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- Monitoring
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



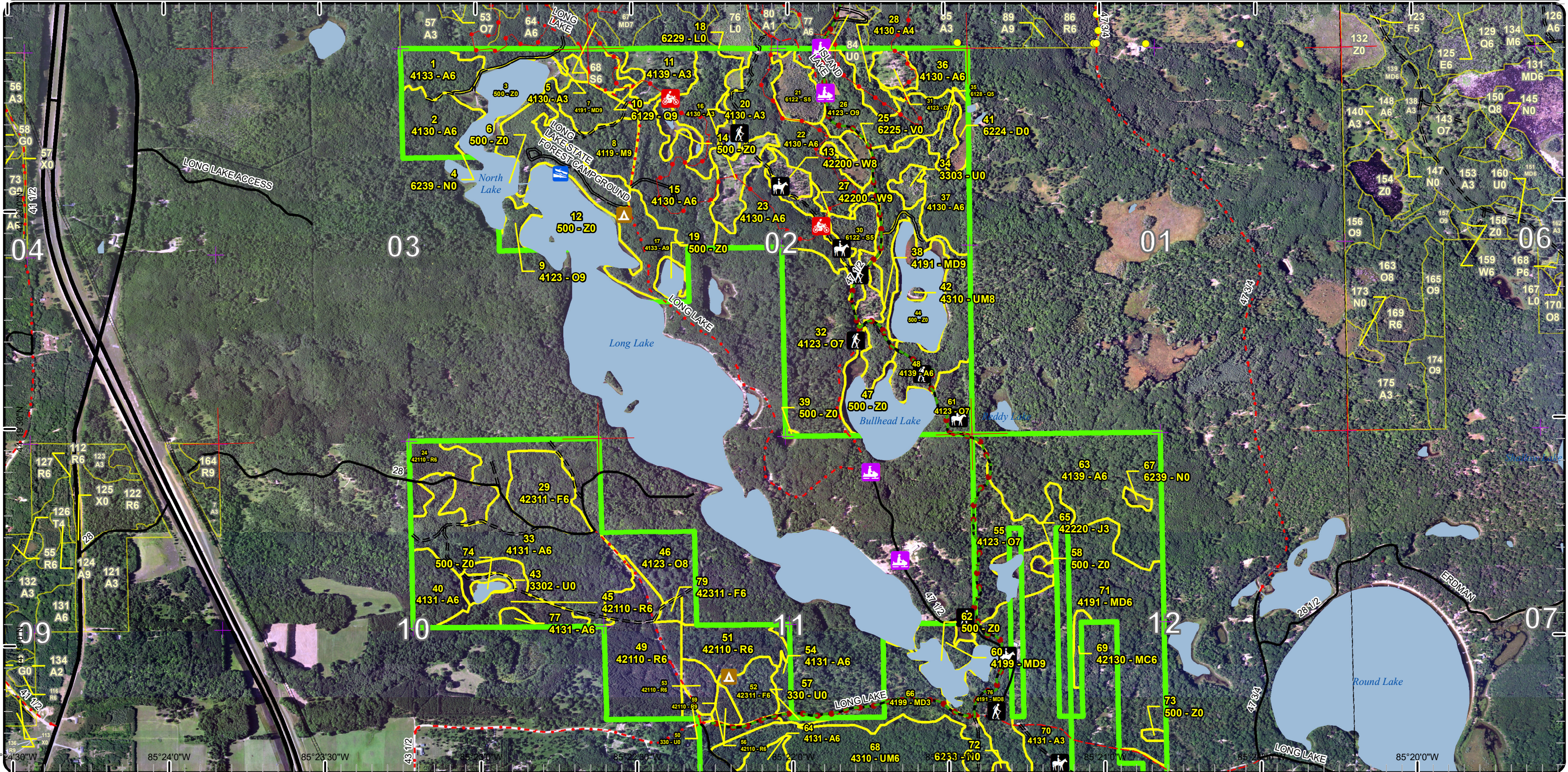


# Stand Boundary Map

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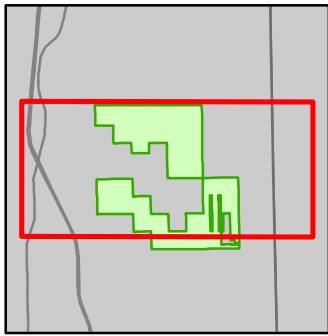
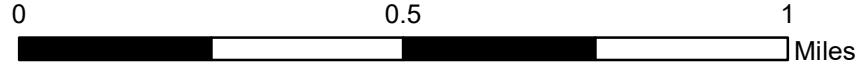


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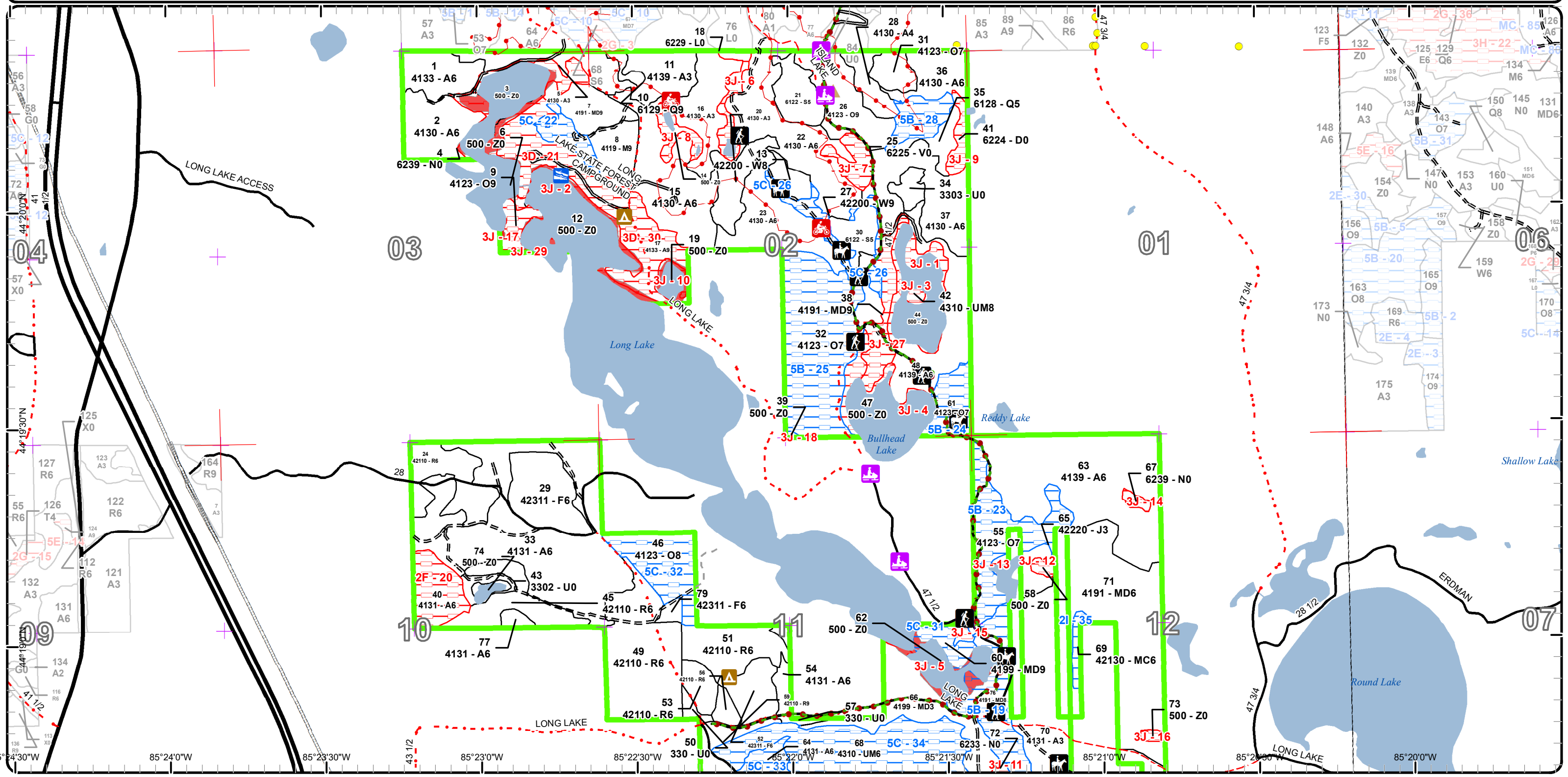


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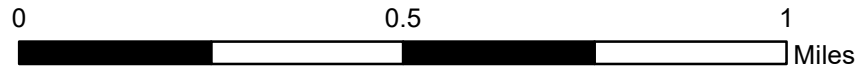
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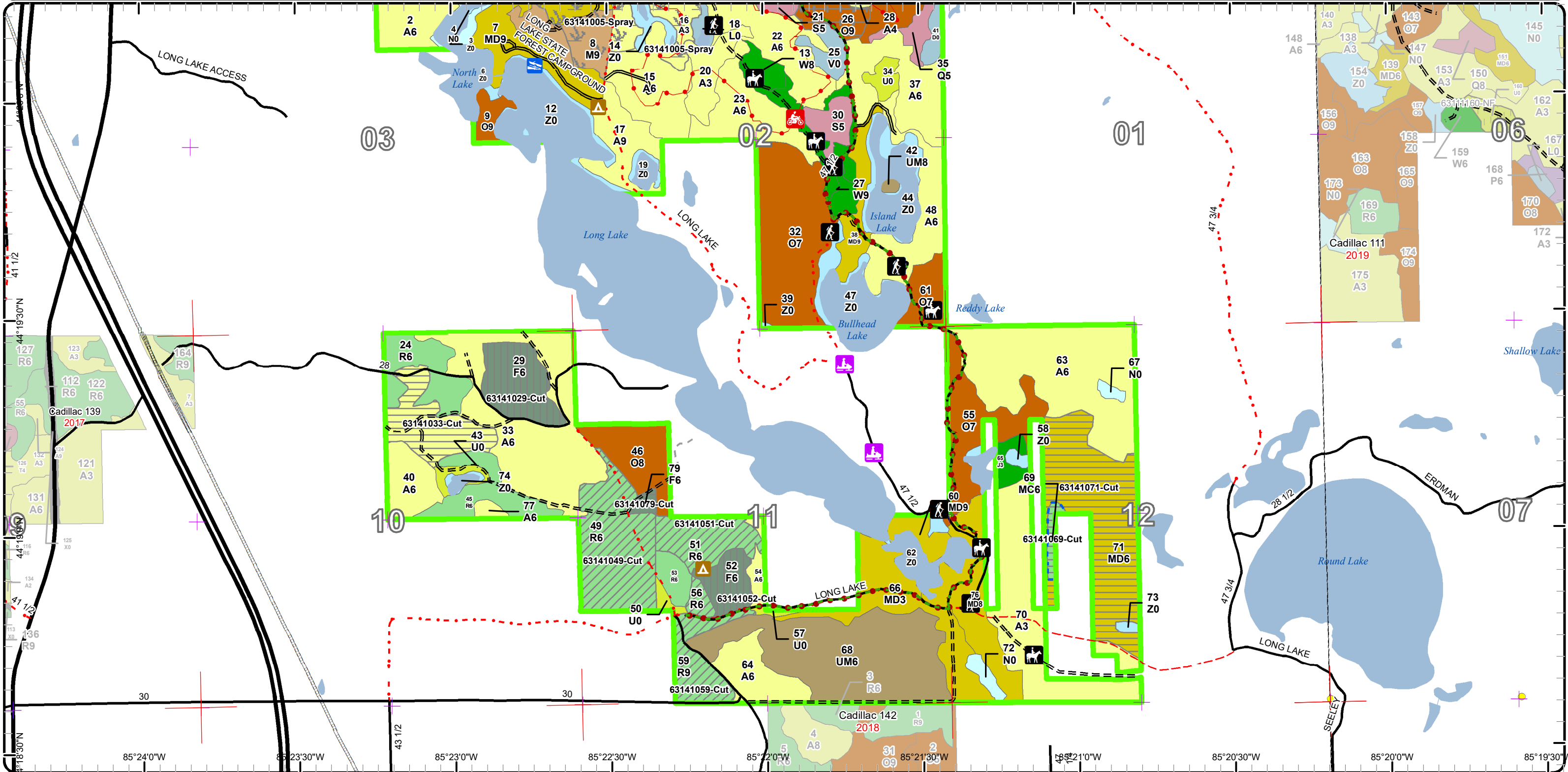


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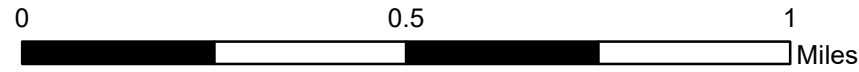
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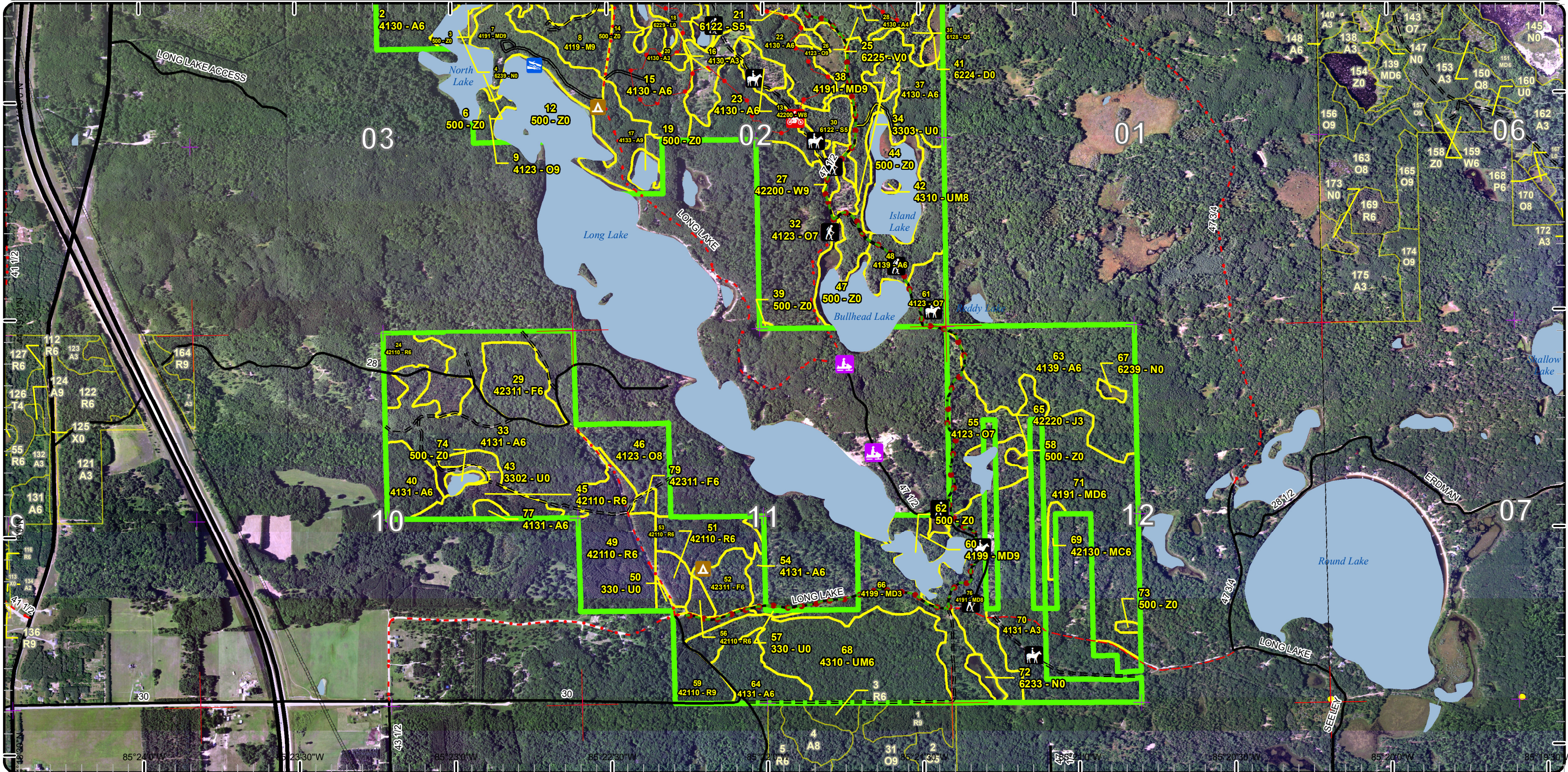
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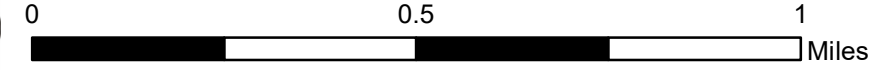
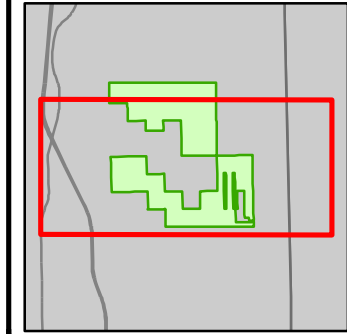


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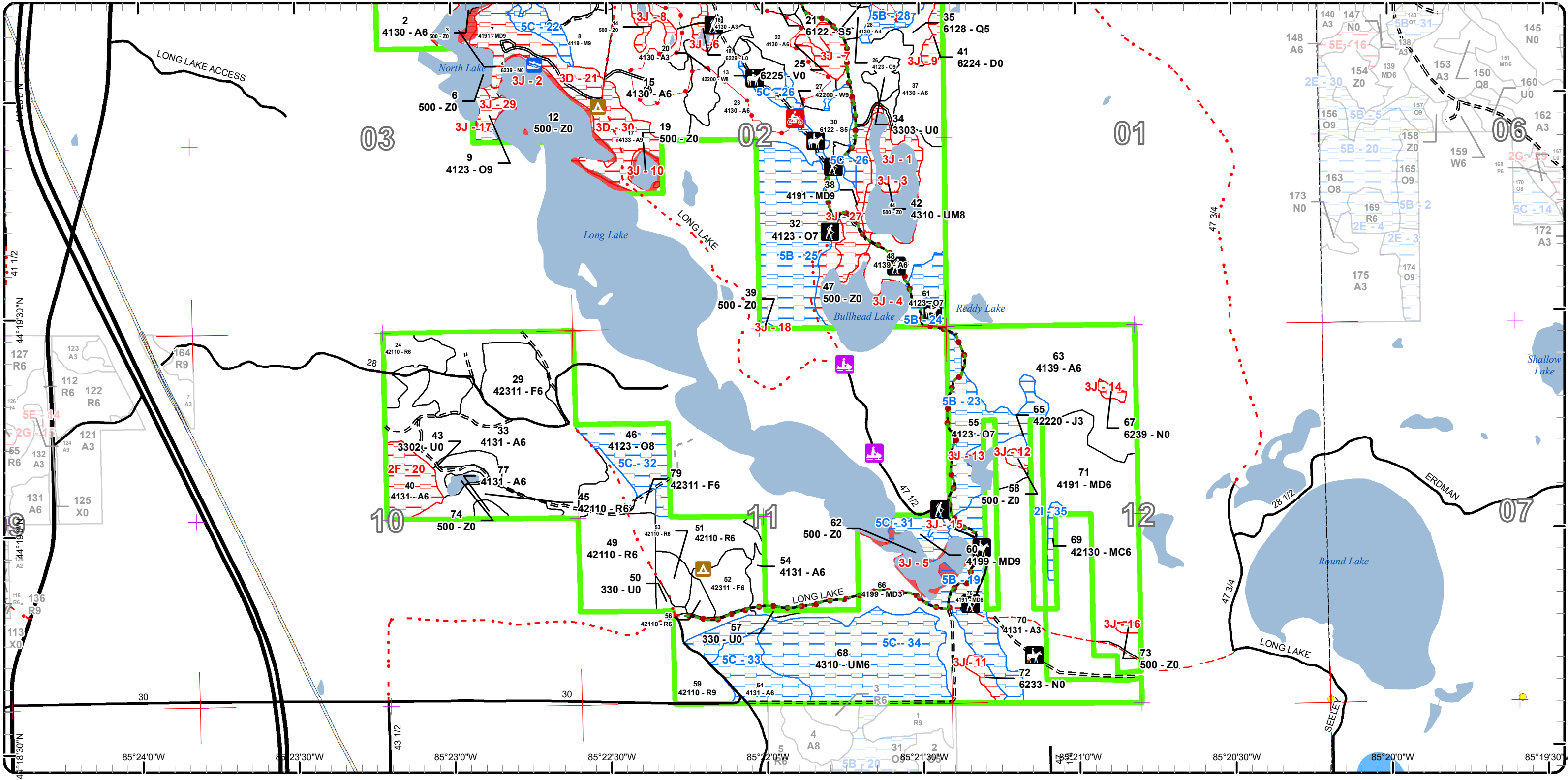


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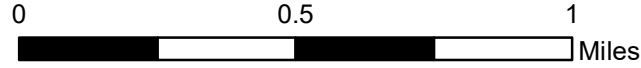
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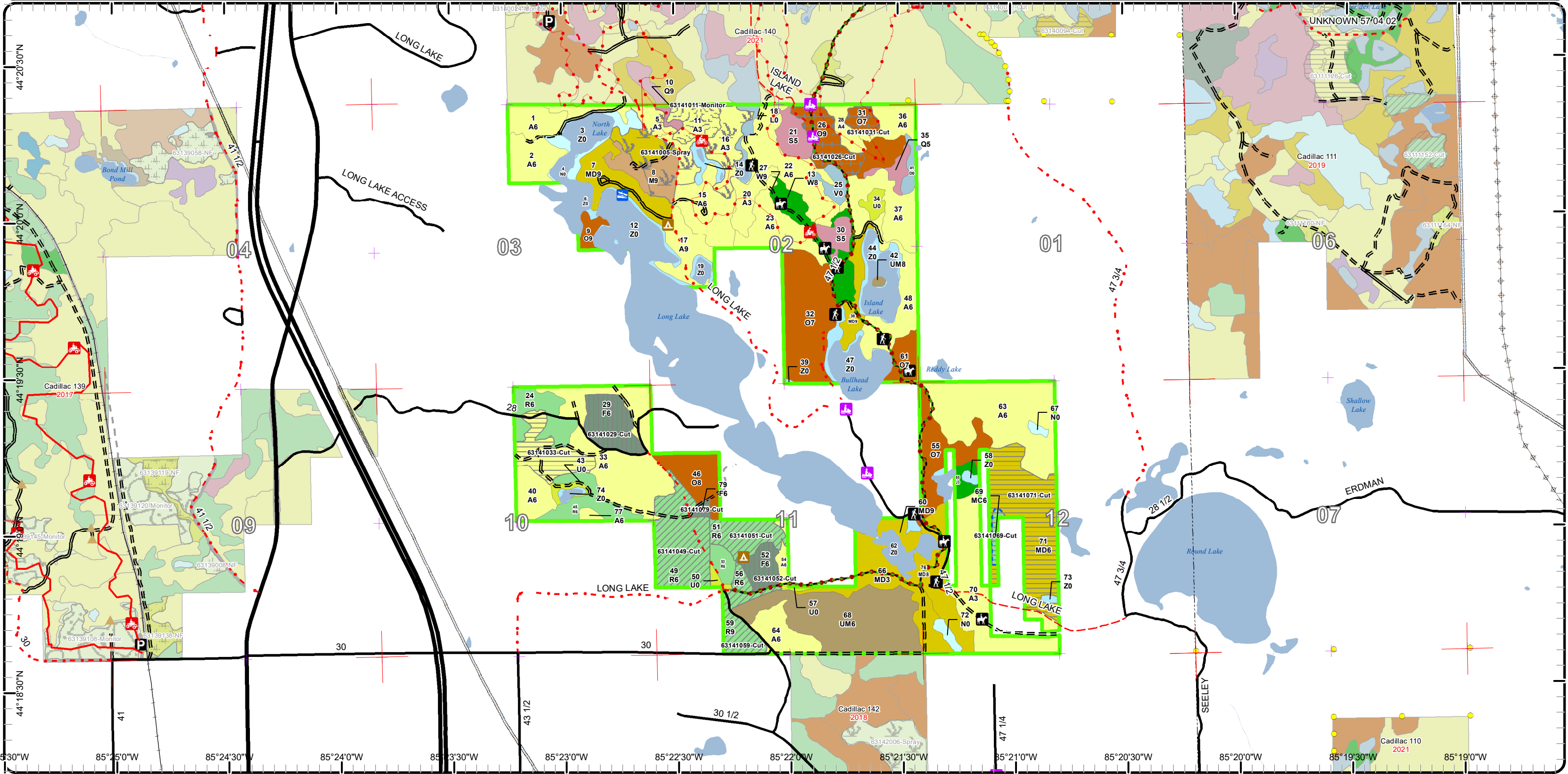


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# Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 141 Year of Entry 2024

Michael Aksamit : 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+	Uneven-Aged	Total
Aspen	0	77	71	45	184	115	36	0	0	0	0	0	0	0	0	0	0	0	527
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Jack Pine	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	6	0	0	0	2	0	0	0	0	0	0	8
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	0	0	0	0	0	0	11	8	0	0	0	0	0	0	0	0	0	0	19
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	32	0	0	0	63	0	12	28	36	0	0	7	0	0	0	0	178
Northern Hardwood	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Oak	0	0	0	0	0	0	0	0	0	84	53	21	0	0	0	0	0	0	158
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	0	0	124	0	0	0	0	0	0	0	0	0	0	124
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	0	2	74
Upland Spruce/Fir	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	35
Water	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126
White Pine	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	21
<b>Total</b>	<b>177</b>	<b>82</b>	<b>103</b>	<b>45</b>	<b>184</b>	<b>115</b>	<b>182</b>	<b>173</b>	<b>34</b>	<b>130</b>	<b>92</b>	<b>23</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1346</b>





## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 141

Total Compartment Acres: 1,346

Commercial Harvest - 230  
 Harvests with Site Condition - 3  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	24	0	0	0	0	0	0	0	0	24
Mixed Upland Deciduous	63	0	0	0	0	0	0	0	0	63
Oak	0	0	0	0	0	27	0	0	0	27
Planted Mixed Pines	3	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	81	0	0	0	0	81
Upland Spruce/Fir	2	0	0	33	0	0	0	0	0	35
<b>Total</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>81</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>233</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	233	0	0	0	55	14	0	0	0	302
Next Step	0	0	0	0	0	180	0	0	0	180
<b>Total</b>	<b>233</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55</b>	<b>193</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>482</b>





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

16	63141005-Spray	55.4	4130 - Aspen	Sapling Well	27		Pesticide	Hand Application	413 - Aspen	Two-Aged	No
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Prescription Forest Health- Oak Wilt Research Area- Study is being conducted to help better understand the infection, movement and treatment of Oak  
Specs: Wilt. Pesticide application may be used on various trees in the treatment area.

Next Step Monitoring, Herbicide Use  
Treatments:

Acceptable Mixed deciduous  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

11	63141011-Monitor	13.5	4139 - Aspen, Mixed Deciduous	Sapling Well	7	1-50	Monitoring	Other - Specify	4131 - Aspen, Oak	Two-Aged	No
----	------------------	------	-------------------------------	--------------	---	------	------------	-----------------	-------------------	----------	----

Prescription Monitor for Oak wilt. In summer 2015, Oak wilt trees were identified and removed.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 6 /15/2032

26	63141026-Cut	20.6	4123 - Red Oak	Sawtimber Well	83	111-140	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
----	--------------	------	----------------	----------------	----	---------	---------	-------------------	-----------------	-----------	----

Prescription Overstory removal. 2 inch DBH and greater. Leave scattered white oak and potentially a small island.  
Specs:

Next Step  
Treatments:

Acceptable oak, maple and aspen  
Regen:

Other With a 2 inch spec, maple and aspen currently in the understory should re-sprout after the harvest, letting oak stump sprouts compete.  
Comment: Additionally, this should prevent 2-3 inch DBH saplings from being damaged by snow load in winter.

Site Condition

Proposed Start Date: 10/1 /2023





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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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<b>29</b>	<b>63141029-Cut</b>	21.7	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	61	111-140	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Uneven-Aged	No
-----------	---------------------	------	---	-----------------	----	---------	---------	----------------------------	-------------------------------------	-------------	----

Prescription Clearcut stand, retaining all white oak and some overstory red oak. Additionally, protect existing oak regeneration where possible. Include oak wilt specification.

Specs: Retain a pocket of better looking spruce.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, Aspen, Red Maple

Regen:

Other Stand contains large overstory oaks, as well as pockets of pole and sapling sized advanced regeneration.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>31</b>	<b>63141031-Cut</b>	6.7	4123 - Red Oak	Sawtimber Poor	87	51-80	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
-----------	---------------------	-----	----------------	----------------	----	-------	---------	-------------------	-----------------	-----------	----

Prescription Overstory removal. 2 inch DBH and greater. Leave scattered white oak and potentially a small island.

Specs:

Next Step

Treatments:

Acceptable oak, maple and aspen

Regen:

Other With a 2 inch spec, maple and aspen currently in the understory should re-sprout after the harvest, letting oak stump sprouts compete.

Comment: Additionally, this should prevent 2-3 inch DBH saplings from being damaged by snow load in winter.

Site Condition

Proposed Start Date: 10/1 /2023

<b>33</b>	<b>63141033-Cut</b>	23.5	4131 - Aspen, Oak	Poletimber Well	46		Harvest	Clearcut	413 - Aspen	Even-Aged	No
-----------	---------------------	------	-------------------	-----------------	----	--	---------	----------	-------------	-----------	----

Prescription Clearcut all species. Pocket retention in hilly or low areas.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Oak, Red Maple, White Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023





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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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49	63141049-Cut	42.3	42110 - Planted Red Pine	Poletimber Well	66	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	------	--------------------------	-----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription Thin from below to a residual basal area of 110-120. Focus on removal of poor form trees, including double stems.

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

51	63141051-Cut	18.9	42110 - Planted Red Pine	Poletimber Well	66	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	------	--------------------------	-----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription In areas that are primarily red pine, thin from below to a residual basal area of 110-120.

Specs:

Where stand is heavier to large oaks, remove suppressed red pine under and adjacent to oaks. Thin in between to 110-120 BA where density allows.

Next Step

Treatments:

Acceptable Red Pine, Oak

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

52	63141052-Cut	11.4	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	66	81-110	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
----	--------------	------	---	-----------------	----	--------	---------	----------------------------	-------------------------------------	-----------	----

Prescription Clearcut stand, retaining all white oak and some overstory red oak. Additionally, protect existing oak regeneration where possible. Include oak wilt specification.

Specs:

Retain a pocket of better looking spruce.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, Maple, Aspen

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023





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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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56	63141056-Cut	3.3	42110 - Planted Red Pine	Poletimber Well	66	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	-----	--------------------------	-----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription Thin from below to a residual basal area of 110-120.

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

59	63141059-Cut	16.9	42110 - Planted Red Pine	Sawtimber Well	66	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	------	--------------------------	----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription Thin from below to a residual basal area of 110-120.

Specs:

Southern portion of stand will need thinned heavier than northern portion.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

69	63141069-Cut	3.0	42130 - Planted Scotch Pine	Poletimber Well	90	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
----	--------------	-----	-----------------------------	-----------------	----	-------	---------	----------	-------------------------------	-----------	----

Prescription Treatments will be prepared according to actual on the ground conditions and acres may vary from prescribed.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of aspen, maple, oak, white pine, red pine, jack pine, balsam fir, hemlock, cherry, or cedar.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023





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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>71 63141071-Cut</b>	62.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	56	111-140	Harvest	Clearcut with Retention	4220 - Natural White Pine	Uneven-Aged	No
<p><u>Prescription</u> Cut all species, except leave some white pine, remove defective trees and leave quality poles. Mark cut or leave trees, or find a diameter range.  <u>Specs:</u> Treatments will be prepared according to actual on the ground conditions and acres may vary from prescribed.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of aspen, maple, oak, white pine, red pine, jack pine, balsam fir, hemlock, or cedar.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>79 63141079-Cut</b>	2.1	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	66	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with no retention due to small size.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Oak, Aspen, Red Maple  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										

**Total Treatment Acreage Proposed: 301.9**



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Michael Aksamit : Examiner

Compartment: 141  
Year of Entry: 2024

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

**2I    5B    5C    2F    3D    3J**

525	475	17	33	Aspen			17	15	19	
6	0	0	6	Bog						6
5	5	0	0	Jack Pine						
11	11	0	0	Low-Density Trees						
8	8	0	0	Lowland Conifers						
7	0	0	7	Lowland Shrub						7
19	19	0	0	Lowland Spruce/Fir						
22	0	0	22	Marsh						22
179	107	35	36	Mixed Upland Deciduous		28	7		24	12
18	11	7	0	Northern Hardwood			7			
158	27	125	6	Oak		104	21			6
3	0	3	0	Planted Mixed Pines	3					
124	124	0	0	Red Pine						
5	0	0	5	Treed Bog						5
74	0	72	1	Upland Mixed Forest			72			1
35	35	0	0	Upland Spruce/Fir						
122	2	0	120	Water						120
22	10	11	0	White Pine			11			
1,342	835	271	236	Total Forested Acres	3	132	136	15	43	179
	62%	20%	18%	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	3J: Water quality / BMPs (stream, river, or lake)	24	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b>							
Compartment 141 Lakes, Marshes, Emergent Wetlands							



## Report 4 – Site Conditions

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2	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	66	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Island, small size with no access							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	22	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	14	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							



## Report 4 – Site Conditions

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8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							

## Report 4 – Site Conditions

Cadillac Mgt. Unit

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14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
15	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
17	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
18	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	0	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Compartment 141 Lakes, Marshes, Emergent Wetlands							
19	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Michael Aksamit : Examiner

Compartment: 141  
Year of Entry: 2024

20	<b>Unavailable</b>	<b>2F: Too steep</b>	15	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	53	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit

Michael Aksamit : Examiner

Compartment: 141

Year of Entry: 2024

26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Unavailable	3D: Recreational / Scenic values	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Could be harvested from northern side, but due to small area and adjacent water hold this stand for the time being.							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Michael Aksamit : Examiner

Compartment: 141  
Year of Entry: 2024

32	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wait for spruce in understory to get larger before harvest - very little market value currently.							
33	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	72	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Available</b>	<b>2I: Survey needed</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
1	4133 - Aspen, Mixed Pine	Poletimber Well	14.2	36	81-110	N/A	This is a regenerating aspen and oak mix that is progressing nicely. Aspen is concentrated in clones and the oak, pine is scattered throughout. There are scattered mature overstory oak that were left from the previous harvest.																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>25</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Oak</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Pole/Sapling</td> <td>5</td> <td>36</td> </tr> <tr> <td>White Pine</td> <td>25</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	25	Pole/Sapling	6		White Oak	5	Pole/Sapling	6		Bigtooth Aspen	40	Pole/Sapling	5	36	White Pine	25	Pole	8		Red Maple	5	Pole/Sapling	5		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	5 - 10 feet	Sapling	White Pine	Low	5 - 10 feet	Sapling	Red Oak	Low	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Oak	25	Pole/Sapling	6																																															
White Oak	5	Pole/Sapling	6																																															
Bigtooth Aspen	40	Pole/Sapling	5	36																																														
White Pine	25	Pole	8																																															
Red Maple	5	Pole/Sapling	5																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Beech	Low	5 - 10 feet	Sapling																																															
White Pine	Low	5 - 10 feet	Sapling																																															
Red Oak	Low	5 - 10 feet	Sapling																																															
2	4130 - Aspen	Poletimber Well	18.6	35		N/A	Predominately aspen regen with mature red oak and white pine scattered throughout.																																											
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3	500 - Water	Nonstocked	10.2			No																																												
4	6239 - Mixed Emergent Wetland	Nonstocked	16.6			No	edge seeding in to white pine																																											
5	4130 - Aspen	Sapling Well	13.3	29	Immature	N/A	Aspen regen 15-20 ft some pine and mature oak. road had been buffered during previous harvest.																																											
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6	500 - Water	Nonstocked	3.8			No																																												
7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	36.3	97	81-110	N/A	Long Lake State forest Campground is located within the boundaries of this stand.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
8	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.6	85	81-110	N/A																																																																		
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9	4123 - Red Oak	Sawtimber Well	5.9	81	81-110	N/A	oak stand that follows a ridge between 2 water features. access would be difficult.																																																																	
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10	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	2.2	107	201+	N/A	New stand added. Lowland pocket with hardwood ridges on either side. Standing water throughout the stand with some flow noticed in several area. Slash that is present is most windy thrown cedar.																																																																	
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11	4139 - Aspen, Mixed Deciduous	Sapling Well	13.5	7	1-50	N/A	Stand was harvested in 2015. (Newborn Mix 63-031-14-01). Oak wilt was found on site in summer 2015 due to harvest. All infested trees were removed in fall 2015. Monitor for oak wilt.																																																																	
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12	500 - Water	Nonstocked	35.4			No	Long Lake  There is a State Forest Campground and boat launch located at the north end of the lake.																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
13	42200 - Natural White Pine	Sawtimber Medium	10.5	73	1-50	N/A	Stand was harvested in summer of 2015 (newborn mix 63-031-14-01).		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		10	Pole/Log/Sap	8		Red Maple	Low	10 - 20 feet	Sapling
White Oak		10	Log/Pole	10		Red Oak	Low	10 - 20 feet	Sapling
White Pine		80	Log/Pole/XLog	16	73				
14	500 - Water	Nonstocked	5.1			No			
15	4130 - Aspen	Poletimber Well	34.7	32	Immature	N/A	Good aspen regen.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		70	Pole/Sapling	6	32	Red Oak	Low	< 5 feet	Sapling
White Pine		10	Log/Pole	12		Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
Red Maple		5	Sapling/Pole	4		White Pine	Low	< 5 feet	Sapling
Quaking Aspen		5	Pole/Sapling	5					
Red Oak		10	Log	16					
16	4130 - Aspen	Sapling Well	18.5	27		N/A	Most of the stand is regenerating aspen. There are scattered pockets of mature oak, aspen and red maple. These pockets are not big enough to manage individually.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		60	Sapling/Pole	3	27	Red Maple	Low	5 - 10 feet	Sapling
White Pine		10	Log/Pole	12		Red Oak	Low	5 - 10 feet	Sapling
Red Oak		10	Log/Pole	16	93	White Pine	Low	5 - 10 feet	Sapling
Quaking Aspen		5	Sapling	3					
Red Maple		15	Sapling/Pole	8					
17	4133 - Aspen, Mixed Pine	Sawtimber Well	18.5	55	141-170	N/A	Stand is located on both sides of long lake rd. Harvest on the west side would be impracticable due to lakeshore buffer. There is a kettle hole lake on the west side of the rd impeding harvest. Leave stand at this time.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Pole/Sapling	6		White Pine	Medium	10 - 20 feet	Sapling
Red Oak		25	Log/Pole	12	84	Red Oak	Low	10 - 20 feet	Sapling
Red Pine		5	Log/Pole	12		White Oak	Low	10 - 20 feet	Sapling
Bigtooth Aspen		40	Log	14	55				
White Pine		20	Log	14					
White Oak		5	Pole/Log	8					
18	6229 - Mixed lowland shrub	Nonstocked	6.7			No	flowing water with scattered pockets of shrubs		
19	500 - Water	Nonstocked	4.3			No	Small Kettle Lake		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>20</b>	4130 - Aspen	Sapling Well	12.3	7	1-50	N/A	Stand was harvested in summer 2015 (newborn mix 63-031-14-01)		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Sapling	1		White Pine	Low	5 - 10 feet	Sapling
Red Oak		5	Log/XLog	14	80	Red Oak	Low	10 - 20 feet	Pole
White Oak		5	Log	16		Black Cherry	Low	< 5 feet	Sapling
Bigtooth Aspen		75	Sapling	1	7				
<b>21</b>	6122 - Black Spruce	Poletimber Medium	11.3	57		N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		2	Pole/Sapling	6		Labrador Tea	High	< 5 feet	Tall Shrub
Tamarack		3	Sapling/Pole	4		Nannyberry	Low	5 - 10 feet	Tall Shrub
Black Spruce		95	Pole	6	57				
<b>22</b>	4130 - Aspen	Poletimber Well	36.1	33	Immature	N/A	Good looking aspen regen with mature oaks and some pine. Mccct trail borders the edge of this stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		75	Pole/Sapling	6	33	Black Cherry	Low	5 - 10 feet	Sapling
Balsam Fir		3	Pole/Sapling	5		Red Pine	Low	< 5 feet	Sapling
White Pine		2	Log	14		Balsam Fir	Low	5 - 10 feet	Sapling
Red Pine		3	Log	16		Red Maple	Low	5 - 10 feet	Sapling
Red Oak		5	Log	15					
Red Maple		5	Pole/Sapling	5					
Quaking Aspen		5	Pole/Sapling	5					
White Oak		2	Log	16					
<b>23</b>	4130 - Aspen	Poletimber Well	25.2	37		N/A	Good looking aspen just reaching pole size.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		15	Pole	7		Black Cherry	Low	< 5 feet	Sapling
Bigtooth Aspen		65	Pole	7	37	Red Maple	Low	5 - 10 feet	Sapling
Black Cherry		2	Sapling/Pole	4		White Pine	Low	< 5 feet	Sapling
Red Maple		13	Pole	5		Red Oak	Low	< 5 feet	Sapling
Red Oak		5	Pole/Sapling	5					
<b>24</b>	42110 - Planted Red Pine	Poletimber Well	19.1	61	141-170	N/A	2022: Variable density stand. Areas with large overstory oaks are less dense. Pine is on the edge of log size overall. Very clean understory, small amounts of beech and occasional red oak. Hold one more entry. 2012: Third row thinned in 2007 slash still present.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Oak		1	XLog/Log	20		Beech	Trace	< 5 feet	Sapling
Red Pine		96	Pole/Log	8	61				
Red Oak		3	XLog/Log	20					
<b>25</b>	6225 - Bog	Nonstocked	6.5			No			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
26	4123 - Red Oak	Sawtimber Well	30.4	83	111-140	N/A	Nice oak with young aspen and red maple underneath.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		20	Sapling/Pole	4	27	Red Maple	High	10 - 20 feet	Sapling
White Oak		5	Log	14		White Pine	Low	< 5 feet	Sapling
Red Oak		75	Log	16	83				
27	42200 - Natural White Pine	Sawtimber Well	11.2	73	201+	N/A	Portion of stand was treated, and has been delineated out.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		8	Pole/Log/Sap	8		Red Oak	Low	10 - 20 feet	Sapling
Red Pine		5	Log	16		Black Cherry	Low	10 - 20 feet	Sapling
White Pine		70	Log/Pole/XLog	16	73	Nannyberry	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		10	Pole/Log	8		Red Maple	Low	10 - 20 feet	Sapling
White Oak		2	Log/Pole	10					
Red Maple		5	Pole/Sap/Log	6					
28	4130 - Aspen	Poletimber Poor	7.8	42	Unspecified	N/A	Aspen clones are scattered around an old opening. Clones are of various sizes and quality.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Sap/Log	8		Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen		45	Pole	7	42	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Bigtooth Aspen		35	Pole	7		Quaking Aspen	Low	10 - 20 feet	Sapling
Red Oak		10	Log	14		White Oak	Low	10 - 20 feet	Sapling
						Red Oak	Low	10 - 20 feet	Sapling
29	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	21.7	61	111-140	N/A	2022: Spruce is small and doesn't appear very vigorous. Anywhere from four to eight inches in diameter. Large overstory oaks exist throughout stand and there are scattered patches of pole sized oak and oak regen. In northeastern portion of stand, the spruce has been over topped by deciduous trees.  2012: White spruce is fairly small in height and diameter.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		7	Pole/Sapling	7		Red Maple	Low	10 - 20 feet	Sapling
White Oak		10	Pole/Sap/Log	6		Red Oak	Low	10 - 20 feet	Sapling
Red Oak		20	Pole/Sap/Log	8		White Oak	Low	5 - 10 feet	Sapling
White Spruce		60	Pole/Sapling	6	61				
30	6122 - Black Spruce	Poletimber Medium	8.2	63		N/A	Stand swapped from Non-Forested to Forested. Mostly black spruce and tamarack with scattered white pine on high spots. Age data was taken from an edge tree due to the high water table.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		70	Pole/Sapling	6	63	Black Spruce	Medium	5 - 10 feet	Sapling
White Pine		5	Pole/Log/Sap	8		Alder	Low	5 - 10 feet	Tall Shrub
Tamarack		25	Log/Pole	10		Labrador Tea	High	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**31** 4123 - Red Oak Sawtimber Poor 6.7 87 51-80 N/A Stand was harvested in summer 2015. Newborn Mix 63-031-14-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Log	10		White Oak	Low	< 5 feet	Sapling
Red Oak	83	Log	16	87	Red Oak	Low	< 5 feet	Sapling
White Oak	13	Log	14		Red Maple	Low	< 5 feet	Sapling
Quaking Aspen	2	Pole/Log	8		Quaking Aspen	Low	< 5 feet	Sapling

**32** 4123 - Red Oak Sawtimber Poor 53.1 90 1-50 N/A Higher BA on slope along county road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole/Sapling	6		Red Maple	High	5 - 10 feet	Sapling
White Oak	10	Log	14		Red Oak	Low	5 - 10 feet	Sapling
Red Oak	80	Log	14	90	Bigtooth Aspen	Low	< 5 feet	Sapling
Red Maple	5	Pole	8	15	White Pine	Low	5 - 10 feet	Sapling

**33** 4131 - Aspen, Oak Poletimber Well 85.1 46 N/A 2022: Variable stand. Eastern 2/3 is less mature and has a larger oak component. Western 1/3 of stand is much more mature, with some aspen reaching log size. White pine scattered throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log/Sap	8		Red Oak	Low	5 - 10 feet	Sapling
Red Oak	17	Log/Pole/Sap	10		Black Cherry	Low	5 - 10 feet	Sapling
White Oak	5	Log/Pole	10		White Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen	65	Pole/Sap/Log	8	46	Red Maple	Low	5 - 10 feet	Sapling
White Pine	8	Pole/Log	9					

**34** 3303 - Mixed Low Density Trees Nonstocked 4.4 Unspecified No Stand swapped from Forested to Non-Forested.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Log
Nannyberry	Low		Tall Shrub
Red Osier Dogwood	Low		Tall Shrub
Willow spp.	Medium		Tall Shrub
Alder	Medium		Tall Shrub
Northern White Cedar	Low		Pole
Black Ash	Low		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**35** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 5.8 67 Unspecified N/A Small winding lowland pocket surrounded oak and aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole/Sapling	6	
Northern White Cedar	15	Pole/Sapling	7	
White Pine	20	Log	14	
Black Spruce	25	Pole	8	67
Tamarack	10	Pole	7	
Paper Birch	10	Pole/Sapling	6	
Red Maple	15	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Nannyberry	Low	5 - 10 feet	Tall Shrub
Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	Low	5 - 10 feet	Sapling

**36** 4130 - Aspen Poletimber Well 12.5 24 Immature N/A Good aspen regen with scattered mature oak in the overstory

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Log/Pole	12	
Quaking Aspen	15	Pole/Sapling	5	
Bigtooth Aspen	70	Pole/Sapling	5	24
Red Maple	10	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Red Oak	Low	5 - 10 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling

**37** 4130 - Aspen Poletimber Well 28.6 37 Unspecified N/A Good quality aspen regen.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	4	
Red Oak	8	Log/Pole	12	
Quaking Aspen	5	Sapling	3	
White Pine	2	Sapling	4	
Bigtooth Aspen	75	Pole/Sapling	5	37

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Red Oak	Low	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling

**38** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 12.2 79 81-110 N/A Stand follows a ridge creating a buffer between 2 lakes and a road. Heavier to pine north of 2 track along horse trail this area also has some wet pockets that are to small to map.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	Pole/Sapling	6	
Red Maple	10	Pole/Sapling	7	
Red Oak	40	Log/Pole	14	79
White Oak	5	Pole/Log	8	
Paper Birch	5	Pole/Log	8	
Bigtooth Aspen	20	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Red Oak	Low	10 - 20 feet	Sapling
White Pine	Medium	5 - 10 feet	Sapling
Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub

**39** 500 - Water Nonstocked 0.3 No





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>40</b>	4131 - Aspen, Oak	Poletimber Well	14.6	47		N/A	2022: Stand located on hilltops with steep sides. Large x-log to log sized red oak throughout. Lots of developing red maple sprouts from sapling to pole size. Scattered aspen throughout. Beech is mostly dead. Pocket of white pine in wester portion of stand. Eastern portion of stand is smaller aspen. 2012: Good looking aspen with wolfy oaks and white pine																																														
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<b>41</b>	6224 - Treed Bog	Nonstocked	4.7			No	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Swamp Laurel</td> <td>Full</td> <td></td> <td>Tall Shrub</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td></td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td></td> <td>Pole</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Swamp Laurel	Full		Tall Shrub	Black Spruce	Low		Sapling	White Pine	Trace		Pole																														
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<b>42</b>	4310 - Pine, Oak Mix	Sawtimber Medium	1.5	110	51-80	N/A																																															
<b>43</b>	3302 - Low Density Conifer Trees	Nonstocked	3.0			No	Border of marsh/wet meadow with scrubby pines and shrubs along edges. Road through stand.																																														
<b>44</b>	500 - Water	Nonstocked	23.7			No																																															
<b>45</b>	42110 - Planted Red Pine	Poletimber Well	17.4	61	141-170	N/A	2022: Stand is straddling between pole and log size. BA right around 150 to 170. Areas of white pine regen present, otherwise fairly clean under story. Pocket of log sized white pine between two sections of red pine. Northern finger of stand is very steep.  2012: Third row thinned in 2007 slash is still present.																																														
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<b>46</b>	4123 - Red Oak	Sawtimber Medium	20.8	100	51-80	N/A	2022: Eastern strip of stand along private is regenerating well. Internal portions of stand with white spruce present are not regenerating as well. Oak saplings are found in patches. Occasional volunteer red pine.  2012: Shelterwood harvested last YOE large oak remains, good regen present.  Cut 2005, 63-019-04 "East Side Red Pine". Marked cut trees, and spec cut all aspen and red maple.																																														
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48	4139 - Aspen, Mixed Deciduous	Poletimber Well	26.6	37	Unspecified	N/A	Mostly aspen just reaching pole size. The majority of the conifers buffer the lake edge and are much larger than the rest of the stand.																																																								
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49	42110 - Planted Red Pine	Poletimber Well	42.3	66	171-200	N/A	2022: BA is hovering between 160 and 180. Cut this rotation, but could hold until next. 2012: Stand was thinned in 2005 some slash still present.																																																								
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50	330 - Low-Density Trees	Nonstocked	2.1	0		No	Scrubby pine, patch of oak and maple																																																								
51	42110 - Planted Red Pine	Poletimber Well	18.9	66	171-200	N/A	2022: Nice log to pole sized red pine stand, with some areas heavier to oak. Red and white oaks in stand are log to x-log size, and where present are suppressing red pine. Portions of stand have good oak regeneration. There are also scattered patches of red maple regeneration. This one is on the edge, and could be cut this entry or held until the next. Cut in 2005, 63-019-04 "East Side Red Pine". Third row thinned. All aspen and red maple trees were also designated for cutting.																																																								
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52	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	11.4	66	81-110	N/A	2022: Low quality white spruce, pulp to log sized. Some large oak and occasional maple present throughout the stand is overtopping the spruce. Pockets of oak regeneration.																																																								
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53	42110 - Planted Red Pine	Poletimber Well	6.4	66	141-170	N/A	2022: Cut in 2017, 63-024-14 "Wildcat Mix". Patches of higher BA, but generally 120 to 150. Large overstory Red oak present throughout. Previous Inventory Comments: Cadillac horse camp is available for use under a use permit system for group camping.																																																								
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<b>54</b>	4131 - Aspen, Oak	Poletimber Well	4.7	40		N/A	2022: Southern portion of stand is heavier to oak, northern portion of stand is heavier to aspen. Aspen looks vigorous. Oak areas have heavy regen under the mature oaks in overstory.																																																																			
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<b>55</b>	4123 - Red Oak	Sawtimber Poor	29.1	85	1-50	N/A	mix of scattered overstory oak, with maple, aspen, oak and white pine coming in underneath.																																																																			
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<b>56</b>	42110 - Planted Red Pine	Poletimber Well	3.3	66	171-200	N/A	2022: Nice pole to log size red pine. Basal area ranges from 150 to 200. Fairly clean understory, with some beech and oak regeneration. A few large overstory oaks present.  Cut in 2005, 63-019-04 "East Side Red Pine". Third row thinned. All aspen and red maple were also designated for removal.																																																																			
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<b>57</b>	330 - Low-Density Trees	Nonstocked	1.3	0		No	Scrubby roadside oak and pine.																																																																			
<b>58</b>	500 - Water	Nonstocked	1.5	0		No																																																																				
<b>59</b>	42110 - Planted Red Pine	Sawtimber Well	16.9	66	171-200	N/A	2022: Thick understory of maple regen. Southern portion of stand is larger and higher BA.  Cut in 2005, 63-019-04 "East Side Red Pine". Third row thinned. All aspen and red maple were also designated for removal.																																																																			
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<b>60</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.0	120	81-110	N/A	2022: Most of Jack Pine has fallen out. Varied stand, with not much space to work around wetlands and topography.  2012: Jack Pine is beginning to fall apart and die off. Stand buffers and weaves between several small wet areas.																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**61** 4123 - Red Oak Sawtimber Poor 12.0 85 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole/Sapling	6		Black Cherry	Low	< 5 feet	Sapling
Red Oak	60	Log	14	85	Bigtooth Aspen	High	10 - 20 feet	Sapling
Red Pine	5	Log	14		Red Maple	High	10 - 20 feet	Sapling
Red Maple	30	Pole/Sapling	5		White Pine	Low	5 - 10 feet	Sapling

**62** 500 - Water Nonstocked 17.0 No

**63** 4139 - Aspen, Mixed Deciduous Poletimber Well 70.6 17 N/A Aspen regen with mature oaks 30-50 ba

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	16	125	Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
White Oak	5	Sapling	3		White Pine	Low	< 5 feet	Sapling
Bigtooth Aspen	50	Sapling/Pole	3	17	Red Maple	Low	5 - 10 feet	Sapling
White Pine	5	Sapling	4		Black Cherry	Low	5 - 10 feet	Sapling
Red Maple	30	Sapling/Pole	4					

**64** 4131 - Aspen, Oak Poletimber Well 17.4 57 Unspecified N/A 2012: Mature upland deciduous mix. Large red and white pine scattered through out stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Sap/Log	7		Red Maple	Low	5 - 10 feet	Sapling
Red Oak	20	Log/Pole/XLog	16		Red Oak	Low	10 - 20 feet	Sapling
Bigtooth Aspen	45	Pole/Log	8	57	White Oak	Low	10 - 20 feet	Sapling
White Oak	5	Log/Pole/XLog	14		White Pine	Low	5 - 10 feet	Sapling
White Pine	5	Pole/Log/Sap	8					
Red Pine	10	Log	12					

**65** 42220 - Natural Jack Pine Sapling Well 5.1 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	Pole/Sapling	6		Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	15	Sapling	1		White Pine	Low	< 5 feet	Sapling
Red Pine	2	Log	14		Red Oak	Low	< 5 feet	Sapling
Jack Pine	73	Sapling	1	6				
Red Oak	7	Log/Pole	12					

Cut in 2017, 63-024-14 "Wildcat Mix". "All red maple and aspen trees ... are designated for cutting, in addition cut all oak trees that are four inches or more at DBH, cut all coniferous trees that are six inches or more at DBH. Do not cut any trees marked with green paint above and below stump height."



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>66</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	31.9	17	1-50	N/A	2022: Regenerating well to mixed stand with Aspen, maple, oak, and pine. Overstory residual oak in good shape.																																																						
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<b>67</b>	6239 - Mixed Emergent Wetland	Nonstocked	1.6			No																																																							
<b>68</b>	4310 - Pine, Oak Mix	Poletimber Well	72.3	54	141-170	N/A	2012: Large Oaks with smaller WP and other deciduous underneath. WP and Spruce appear to have been under planted.																																																						
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<b>69</b>	42130 - Planted Scotch Pine	Poletimber Well	3.0	90	51-80	N/A	Would need survey work to establish private boundary. Stand is located on both ownerships.																																																						
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<b>70</b>	4131 - Aspen, Oak	Sapling Well	50.3	6	1-50	N/A	2022: Cut in 2017, 63-024-14 "Wildcat Mix". "All red maple and aspen trees ... are designated for cutting, in addition cut all oak trees that are four inches or more at DBH, cut all coniferous trees that are six inches or more at DBH. Do not cut any trees marked with green paint above and below stump height."																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**71** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 62.6 56 111-140 N/A Large oaks with white pine that appears to have been under planted in places and natural in other locations. Areas of mature aspen. Consider harvesting all oak and aspen, leaving best white pine poles.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log/Sap	10		Common Lowbush Blueberry	High	< 5 feet	Tall Shrub
Red Oak	20	Log/XLog	16	100	White Oak	Low	5 - 10 feet	Sapling
White Oak	15	Pole/Log/Sap	14		Black Cherry	Low	5 - 10 feet	Sapling
Red Pine	5	Log	14		Red Oak	Low	5 - 10 feet	Sapling
Jack Pine	3	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling
Black Cherry	2	Pole	6					
White Pine	30	Pole	8	56				
Bigtooth Aspen	20	Pole	9					

**72** 6233 - Wet Meadow Nonstocked 3.4 No Appears to be seasonably wet. Visited site 3/19/2012 and very little water was present.

**73** 500 - Water Nonstocked 1.1 No

**74** 500 - Water Nonstocked 2.2 No Marsh/wet meadow with scrubby pines along edges.

**76** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 28.4 80 51-80 N/A Scrubby mix of aspen clones and poor form oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	15	Log/Pole	13		White Oak	Low	< 5 feet	Sapling
Bigtooth Aspen	25	Pole/Sap/Log	7	39	White Pine	Low	< 5 feet	Sapling
Red Pine	5	Log/Pole	12		Black Cherry	Low	5 - 10 feet	Sapling
White Pine	20	Pole/Sap/Log	7		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	5	Pole/Log	8		Red Oak	Low	< 5 feet	Sapling
Red Oak	25	Log/Pole/XLog	14	80				
Quaking Aspen	5	Pole/Sap/Log	6					

**77** 4131 - Aspen, Oak Poletimber Well 2.2 47 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sap/Log	6		Red Oak	Low	5 - 10 feet	Sapling
Red Oak	25	XLog/Log/Pole	18		Red Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	70	Pole	7	47				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>79</b>	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	2.1	66	81-110	N/A	2022: Low quality white spruce with large overstory oaks throughout. Some scattered deciduous regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	20	Log/Pole/XLog	17		Red Maple	Low	5 - 10 feet	Sapling
White Spruce	75	Pole	7	66	White Oak	Low	5 - 10 feet	Sapling
White Oak	5	XLog/Log/Pole	18		Red Oak	Low	5 - 10 feet	Sapling