



# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 63112

Entry Year 2022

Acreage: 1,800

County Missaukee

Management Area: Upper Muskegon

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**Revision Date:** 2020-06-09

**Stand Examiner:** Blair Tweedale

### Legal Description:

T23N,R8W,Sections 13,24,25,26,34

### Identified Planning Goals:

This compartment is located within the Upper Muskegon Management Area. Some goals for this MA are as follows: 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.

### Soil and topography:

Rubicon and Roscommon sands with some Carbondale and Lupton Muck. Relatively rolling terrain, with some areas of more drastic elevation changes to the North.

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

Large solid blocks of state land with some private in every section. Lake City is just south of compartment. Two major state highways, M42 and M-66 are located in the compartment. M-42 bisects the compartment with M66 forming the east boundary of the compartment. Land use is primarily forest recreation.

### Unique Natural Features:

Long Lake and Goose lake are located in portions of the Southern end of this compartment.

### Archeological, Historical, and Cultural Features:

Woodland Indian mound listed on State Archeological Inventory.

### Special Management Designations or Considerations:

Oak wilt has been found and treated within this compartment in multiple locations.

### Watershed and Fisheries Considerations:

### Wildlife Habitat Considerations:

Featured wildlife species in this Management Area are diverse reflecting the wide range of habitat types present. Featured Species of wildlife include american bittern, american woodcock, beaver, black bear, eastern massasuga rattlesnake, golden-winged warbler, mallard, pileated woodpecker, ruffed grouse, snowshoe hare, white-tailed deer, and wood duck. Most of these species benefit from young forest and open types while some require some old trees for foraging and nest/den sites. Maintaining the opening types and balancing harvests with a diverse assortment of age classes in the timber types will meet the goals for these species.

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

### Vehicle Access:

### Survey Needs:

### Recreational Facilities and Opportunities:

A north-south spur of Miss-Kal Snowmobile Trail, which starts north of Lake City is located in the compartment. It connection with the main east-west portion of the Miss-Kal Trail to the north. Goose Lake and Long Lake Campgrounds complex provides over 70 rustic forest campsites. Both campgrounds are in

great need of substantial renovations.

Missaukee Mountain ski area is located in section 13 and is owned and operated by the Lake City. The land was provided to Lake City under a public use deed by the DNR. Lake City also has an across county ski trail on adjacent state forest land and is being operated without permit. Dispersed hunting and fishing opportunities are available through out the compartment.

**Fire Protection:**

Fuel types within the compartment would not support a crown fire. Access is good with several 2 tracks and forest roads. Wheeled suppression units could be utilized in fire control. Dispersed camping and ORV trail activity could add to increase in wildfires.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

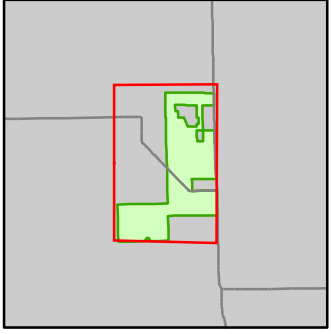
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

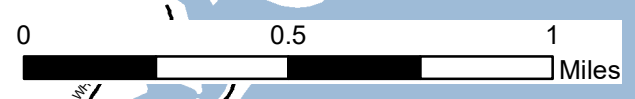
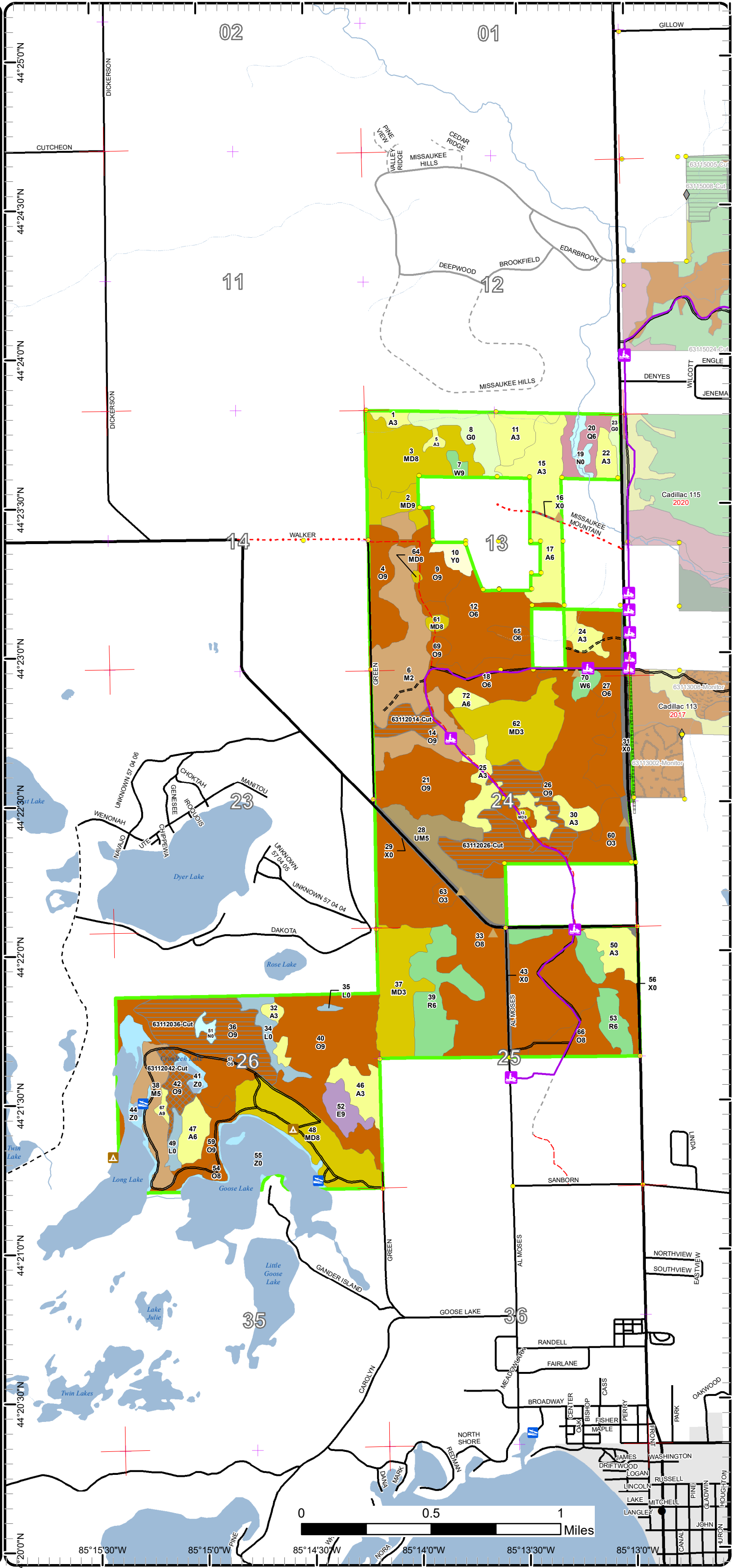
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 112  
 T23N, R08W Sec. 13, 24, 25, 26,  
 34  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt Area: Upper Muskegon  
 YOE: 2022  
 Acres: 1,800 GIS Calculated  
 Examiner: Blair Tweedale  
 Map Revised: 6/23/2020  
 Map Phase: Web - Post

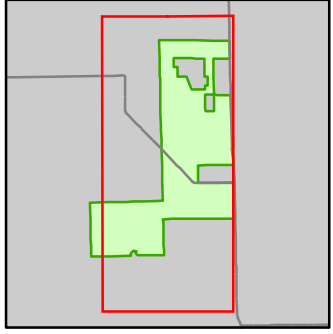


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Boating Access Site
- Campground
- Pipeline
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

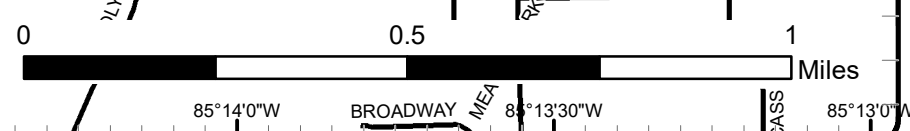
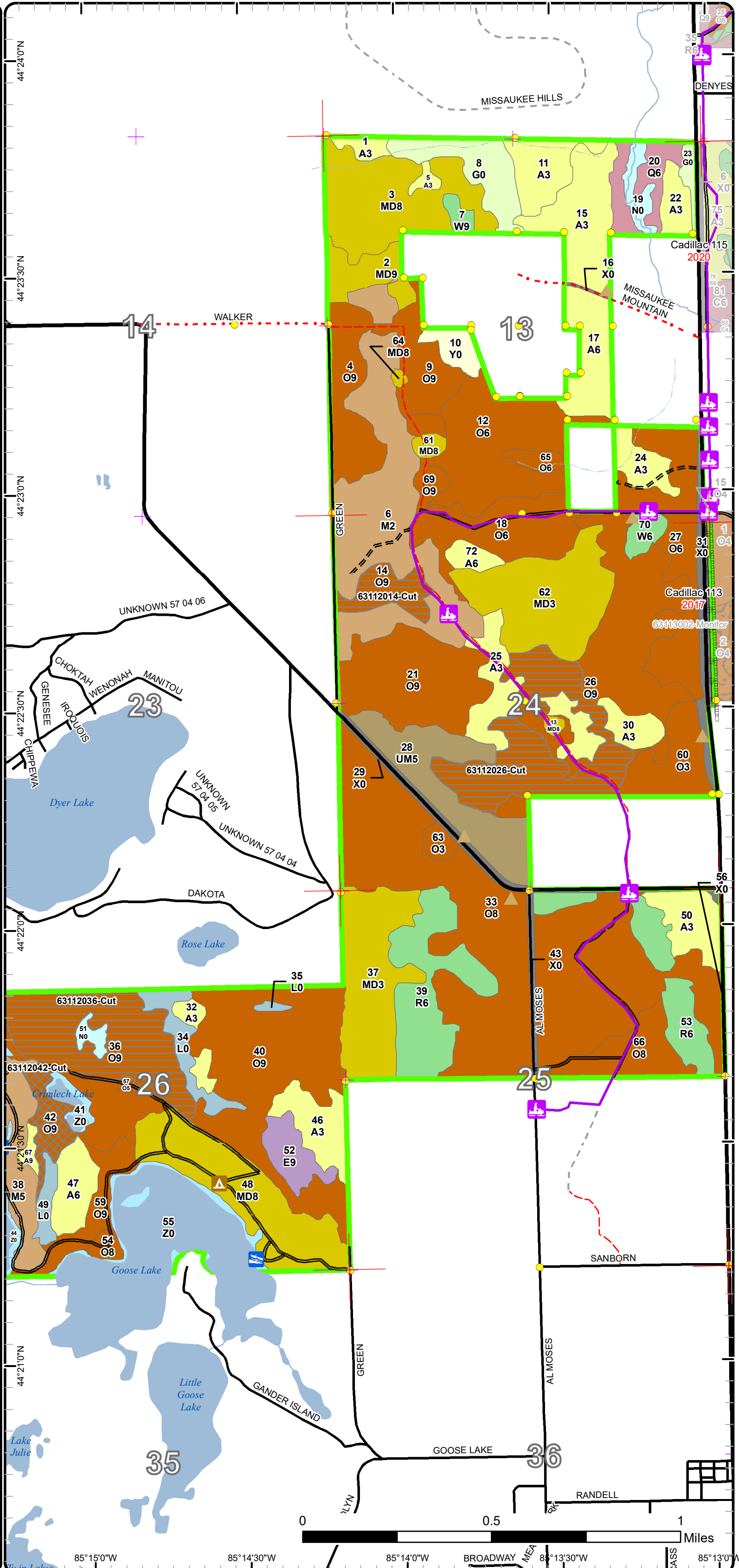


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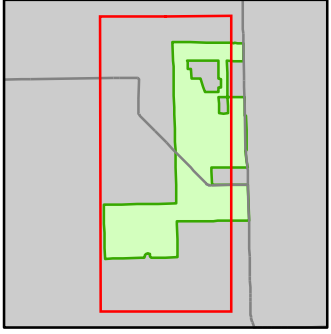
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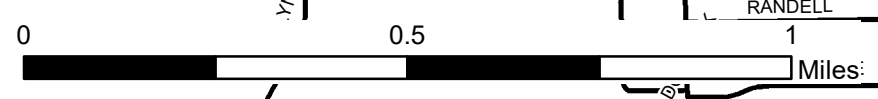
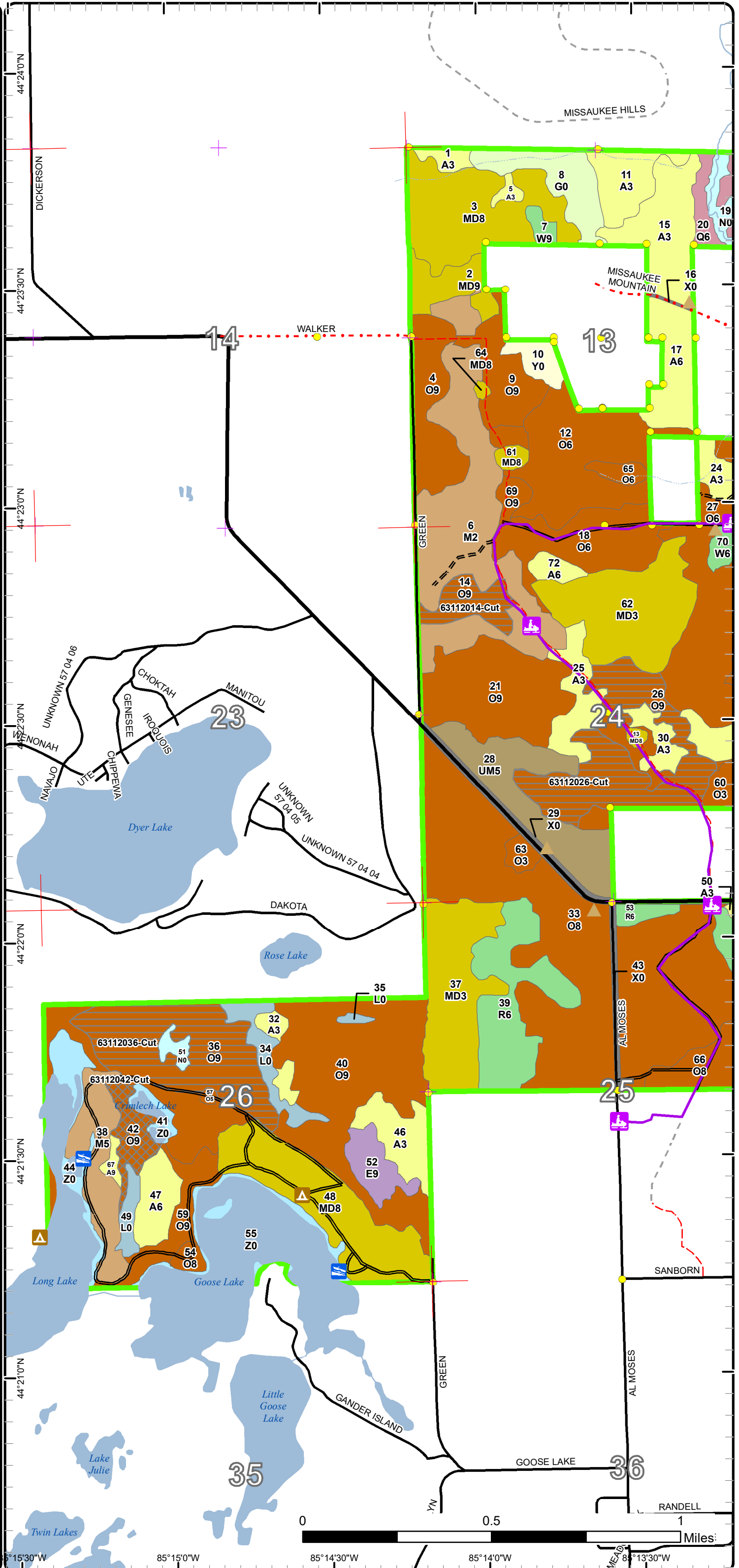


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Coordinates: 44°24'0"N, 44°23'30"N, 44°23'0"N, 44°22'30"N, 44°22'0"N, 44°21'30"N, 44°21'0"N, 44°21'30"N, 44°21'0"N, 85°15'30"W, 85°15'0"W, 85°14'30"W, 85°14'0"W, 85°13'30"W





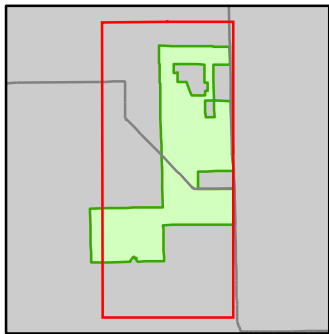




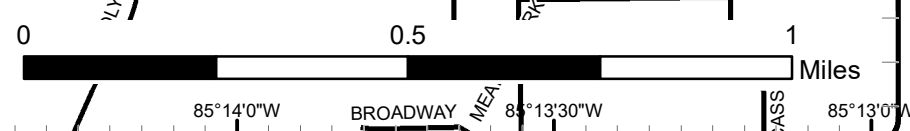
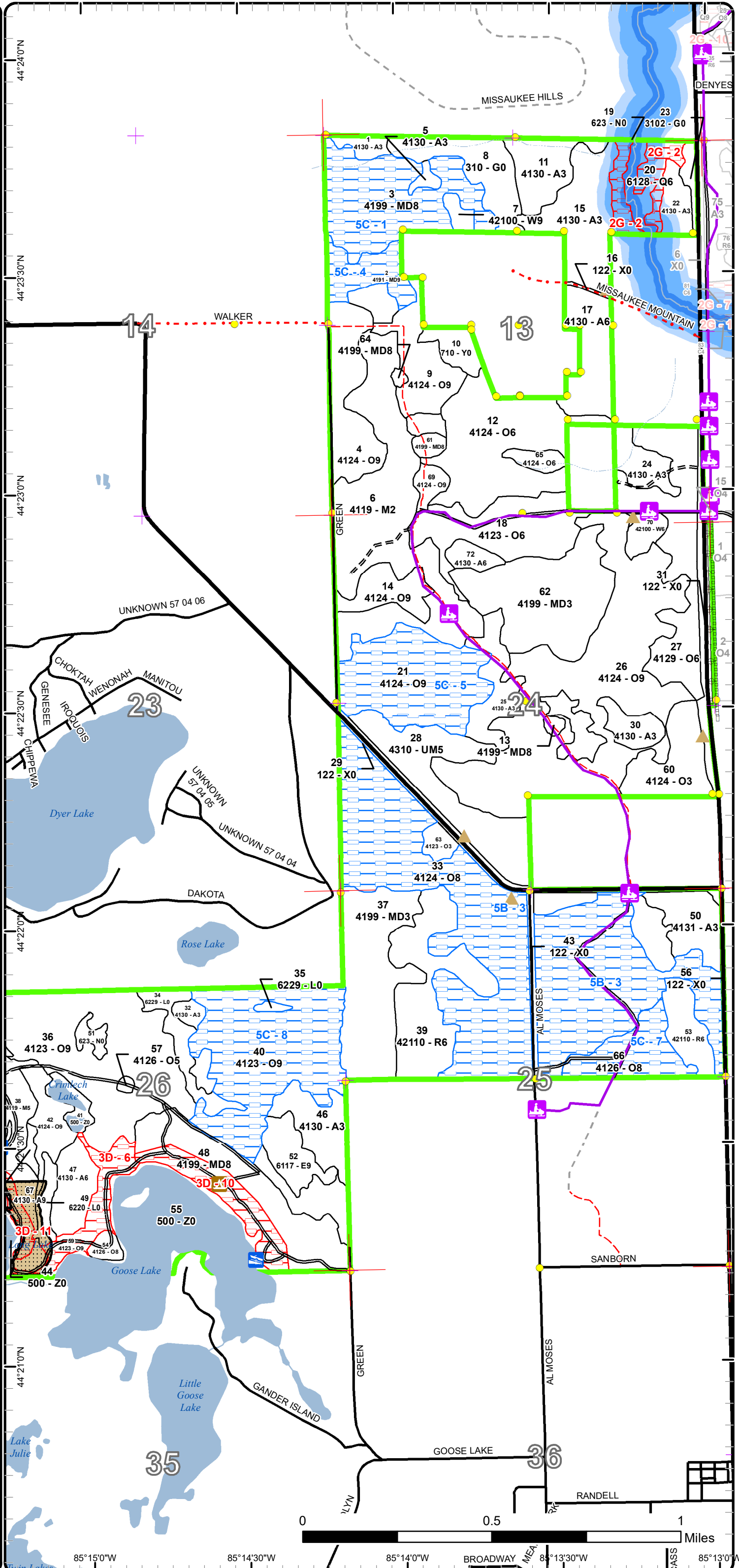


# Special Conservation Areas

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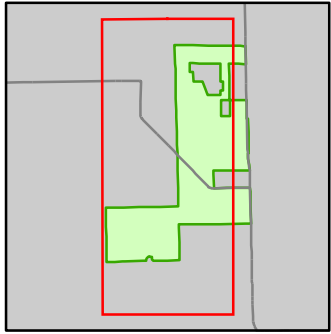


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- Campground
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- State Forest Campground

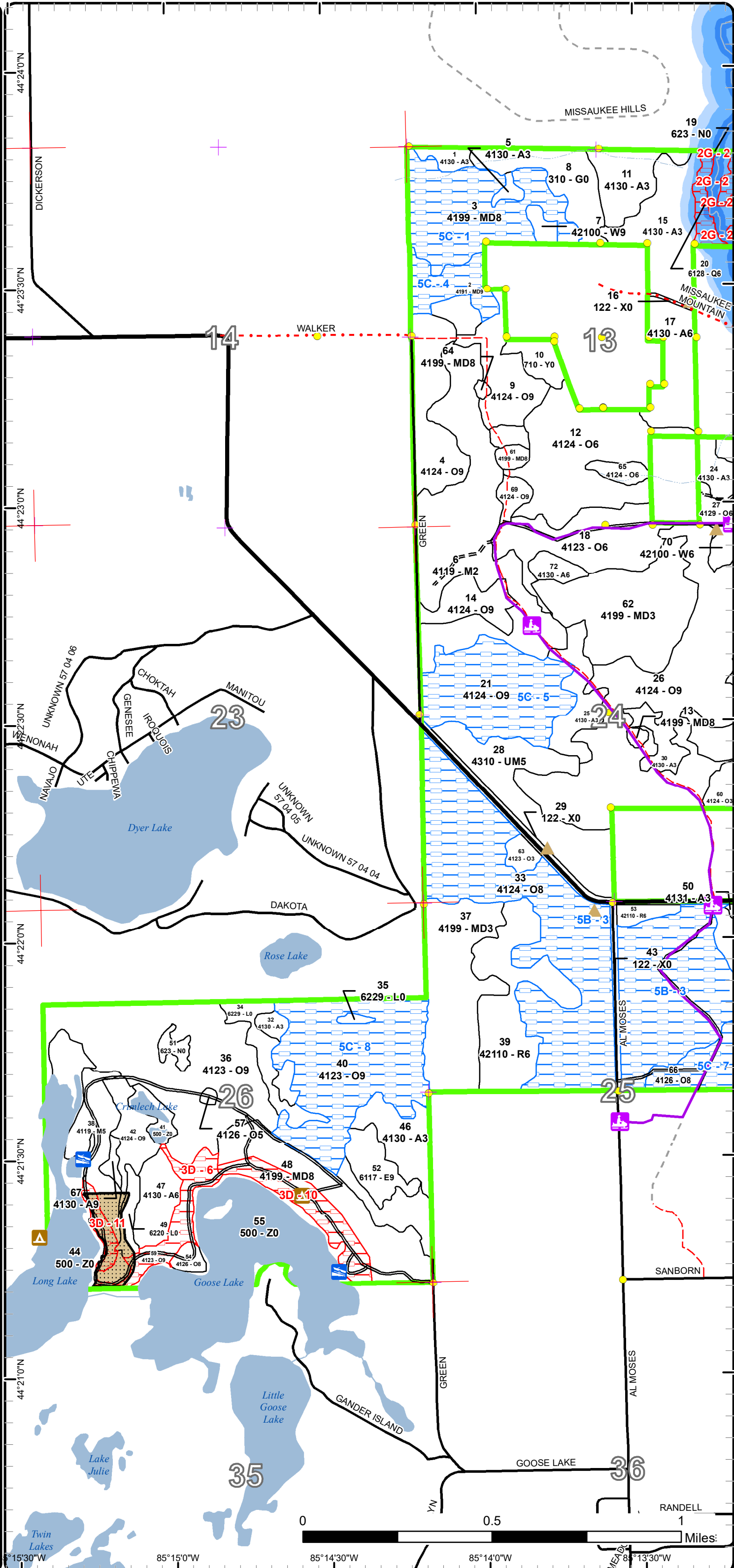


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Age Class

	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	17	55	63	29	17	0	0	0	0	0	0	0	0	0	0	0	19	200
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Lowland Conifers	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Deciduous	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	13
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	55	0	0	51	0	56	0	0	70	0	0	0	0	0	0	0	6	237
Northern Hardwood	0	93	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Oak	0	27	0	5	38	0	0	1	3	14	285	13	17	0	0	0	0	477	880
Red Pine	0	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	71
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	43
Urban	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Water	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
White Pine	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	6	10
<b>Total</b>	<b>210</b>	<b>192</b>	<b>55</b>	<b>68</b>	<b>146</b>	<b>60</b>	<b>72</b>	<b>76</b>	<b>16</b>	<b>84</b>	<b>285</b>	<b>13</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>508</b>	<b>1800</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 112

Total Compartment Acres: 1,800

Commercial Harvest - 147  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Oak		134	13	0	0	0	0	0	0	0	147
	<b>Total</b>	<b>134</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>147</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		147	0	0	0	0	0	0	0	0	147
Next Step		0	0	0	0	0	147	61	0	0	207
	<b>Total</b>	<b>147</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>147</b>	<b>61</b>	<b>0</b>	<b>0</b>	<b>354</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

**Proposed Treatments:**

<b>14</b>	<b>63112014-Cut</b>	14.2	4124 - Red with White Oak	Sawtimber Well	84	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Two-Aged	No
<u>Prescription</u> remove all red oak and red maple, leave white oak.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> oak and maple.											
<u>Regen:</u>											
<u>Other</u> Plan on leaving white oak in higher than normal densities to help reduce the potential damages in a wind event. The area has received 2											
<u>Comment:</u> major wind events in the past 20 years, causing damage in the majority if the stands in this compartment.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
<b>26</b>	<b>63112026-Cut</b>	59.2	4124 - Red with White Oak	Sawtimber Well	98	111-140	Harvest	Clearcut with Retention	412 - Oak Types	Two-Aged	No
<u>Prescription</u> harvest all species Except leave pockets, with only white oak left in the pockets.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> mixed deciduous											
<u>Regen:</u>											
<u>Other</u> oak wilt spec											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
<b>36</b>	<b>63112036-Cut</b>	60.6	4123 - Red Oak	Sawtimber Well	120	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<u>Prescription</u> Final harvest. Retention should be in the form of islands and corridors, avoid leaving single trees. Avoid operating in wet depressions.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Other, Pre-Commercial Thinning - Mechanical											
<u>Treatments:</u>											
<u>Acceptable</u> oak and maple											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
<b>42</b>	<b>63112042-Cut</b>	12.7	4124 - Red with White Oak	Sawtimber Well	104	111-140	Harvest	Group Selection	412 - Oak Types	Two-Aged	No
<u>Prescription</u> Remove all species except white oak.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> oak and maple											
<u>Regen:</u>											
<u>Other</u> Another option would be to clear-cut while reserving islands of areas that are higher densities to white oak. Still should remove all red oak											
<u>Comment:</u> due to age and occurrence of oak wilt in the area.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											



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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: 146.7

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Blair Tweedale : Examiner

Compartment: 112  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions				
		With Condition	Not Available		5B	5C	2G	3D
200	200	0	0	Aspen				
28	28	0	0	Herbaceous Openland				
16	0	0	16	Lowland Conifers			16	
13	13	0	0	Lowland Deciduous				
19	19	0	0	Lowland Shrub				
11	11	0	0	Marsh				
237	148	70	20	Mixed Upland Deciduous		70		20
113	113	0	0	Northern Hardwood				
880	498	365	17	Oak	208	157		17
71	71	0	0	Red Pine				
8	8	0	0	Sand, Soil				
43	43	0	0	Upland Mixed Forest				
38	38	0	0	Urban				
106	106	0	0	Water				
9	9	0	0	White Pine				
1,792	1,305	435	52	Total Forested Acres	208	226	16	37
	73%	24%	3%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Blair Tweedale : Examiner

Compartment: 112  
Year of Entry: 2022

3	Available	<b>5B: Maintain for regeneration purposes</b>	208	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	<b>3D: Recreational / Scenic values</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	80	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Blair Tweedale : Examiner**

**Compartment: 112**  
**Year of Entry: 2022**

10	Unavailable	3D: Recreational / Scenic values	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Goose Lake Campground							

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	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. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



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3	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	53.7	85	51-80	N/A	Stand was thinned in Summer of 2014. Sale # 63-016-14-01																																																																								
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6	4119 - Mixed Northern Hardwoods	Sapling Medium	92.5	5	Immature	N/A	Stand final harvested around 2015. Was white pine in the north and red pine in the south. Was initially planned to be planted but lost to hardwood and oak. ALL oak was left. Wind damage (storm of fall 2018) to residual oaks left in stand.																																																																								
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7	42100 - Planted White Pine	Sawtimber Well	3.5	61	111-140	N/A																																											
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8	310 - Herbaceous Openland	Nonstocked	23.6	0	Unspecified	42110 - Planted Red Pine	Stand has been trenched and planted to red pine, with advanced regeneration of white pine volunteers. Accept a mix of red and white pine to dominate the stand.																																										
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9	4124 - Red with White Oak	Sawtimber Well	22.6	96	51-80	N/A	multiple stemmed oaks with small diameter red maple.																																										
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10	710 - Sand, Soil	Nonstocked	8.3			No	Gravel Pit																																										
11	4130 - Aspen	Sapling Well	18.6	12	1-50	N/A	Stand was cut in 2008 due to wind damage. Producer never finished sale. Some aspen still standing.																																										
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18	4123 - Red Oak	Poletimber Well	37.7	38	111-140	N/A	Dominated by multi-stem oak and maple. Quality and density varies throughout stand.																																														
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20	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.9	57	51-80	N/A	stand transitions upland to lowland from east to west.																																														
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23	3102 - Grass	Nonstocked	4.2		Unspecified	No	ROW for M-66																																				
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28	4310 - Pine, Oak Mix	Poletimber Medium	42.6	47	51-80	N/A																																																
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33	4124 - Red with White Oak	Sawtimber Medium	208.2	98	1-50	N/A	Stand was treated in winter/spring of 2015. Some pockets dominated by sapling to pole sized white oak.																																															
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36	4123 - Red Oak	Sawtimber Well	90.0	120	81-110	N/A																																														
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39	42110 - Planted Red Pine	Poletimber Well	43.8	60	111-140	N/A	Patchy, with pockets of oak and maple regeneration. Last thinned 2015, 112 Red Pine.																																													
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<b>48</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	56.3	56	1-50	N/A	Stand was treated as part of the Goose Lake Oak Wilt sale. Trenched and all red oak removed.																																								
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<b>49</b>	6220 - Alder/willow	Nonstocked	5.7			No																																									
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51	623 - Emergent Wetland	Nonstocked	3.5	0		No																																							
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52	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	13.3	75	81-110	N/A	Wet pocket.																																						
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53	42110 - Planted Red Pine	Poletimber Well	27.6	60	111-140	N/A	harvested in 2015.																																						
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54	4126 - White, Black, N. Pin Oak	Sawtimber Medium	3.4	79	1-50	N/A																																							
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55	500 - Water	Nonstocked	59.2			No	Goose Lk.																																						
56	122 - Road/Parking Lot	Nonstocked	1.7			No	M-66/Morey Rd.																																						
57	4126 - White, Black, N. Pin Oak	Poletimber Medium	1.0	68	1-50	N/A	Stand was treated as part of the Goose Lake Oak Wilt sale. Trenched and all red oak removed.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
58	4119 - Mixed Northern Hardwoods	Poletimber Medium	28.2	33	1-50	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>
Red Maple		60	Pole	6	33	Red Maple	Low	10 - 20 feet	Sapling
White Oak		25	Log/Pole	12	78	White Pine	High	5 - 10 feet	Sapling
White Pine		15	Pole/Sapling	5					
59	4123 - Red Oak	Sawtimber Well	17.0	119	111-140	N/A	low red maple regeneration. Hilly with hydrology and aesthetics.		
<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	Pole/Log	8		Red Maple	Low	10 - 20 feet	Sapling
Red Oak		80	Log/XLog	16	119				
White Oak		5	Log/Pole	10	122				
60	4124 - Red with White Oak	Sapling Well	23.0	7	Immature	N/A	Stand was final harvested in spring of 2014. A few green ringed oak were left as well as trees under 4inches in diameter.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		20	Sapling	1	7				
Red Oak		40	Sapling	1	7				
White Oak		20	Sapling	1	11				
Bigtooth Aspen		5	Sapling	1	11				
White Pine		10	Sapling	1	11				
Black Cherry		5	Sapling	1	11				
61	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	3.1	43	81-110	N/A	Oak wilt harvest occurred in 2016.		
<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		45	Pole/Log/Sap	6	43	Red Maple	Low	10 - 20 feet	Sapling
Beech		10	Sapling/Pole	3		Red Oak	Low	10 - 20 feet	Sapling
White Oak		45	Pole/Sap/Log	5		White Oak	Low	5 - 10 feet	Sapling
62	4199 - Other Mixed Upland Deciduous	Sapling Well	54.7	7	Immature	N/A	Stand was final harvested in spring of 2014. A few green ringed oak were left.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		30	Sapling	1	7				
Red Oak		40	Sapling	1	7				
White Oak		17	Sapling	1	7				
Bigtooth Aspen		5	Sapling	1	7				
White Pine		5	Sapling	1	7				
Black Cherry		3	Sapling	1					
63	4123 - Red Oak	Sapling Well	4.2	4	1-50	N/A	Stand was treated in winter/spring of 2015. Cut by hand cutters. Small stand was discovered to have oak wilt and all red oak was cut from this area in 2016 winter.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Oak		100	Sapling	1	4				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>64</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	1.0	43	81-110	N/A	Oak wilt harvest occurred in 2016.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	45	Pole/Log/Sap	6	43			
Beech	10	Sapling/Pole	3				
White Oak	45	Pole/Sap/Log	5				
Sub-Canopy Species	Density	Avg. Height	Size				
Beech	Low	10 - 20 feet	Sapling				
Red Maple	Low	10 - 20 feet	Sapling				
Red Oak	Low	10 - 20 feet	Sapling				

<b>65</b>	4124 - Red with White Oak	Poletimber Well	4.6	28	81-110	N/A	Multi stem oak and maple. Did not locate cut records.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	20	Sapling/Pole	4				
Red Oak	45	Sapling/Pole	3	28			
White Oak	35	Sapling/Pole	2				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	10 - 20 feet	Sapling				
Red Oak	Low	5 - 10 feet	Sapling				

<b>66</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	23.1	99	1-50	N/A	Harvested in 2015. Heavy aspen regeneration.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Oak	25	Log/Pole/Sap	13	99			
White Oak	75	Log/Pole/Sap	11	99			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Medium	5 - 10 feet	Sapling				
White Oak	Medium	5 - 10 feet	Sapling				
Bigtooth Aspen	Full	5 - 10 feet	Sapling				
Red Oak	Low	5 - 10 feet	Sapling				

<b>67</b>	4130 - Aspen	Sawtimber Well	2.4	41	111-140	N/A	less red maple regen throughout stand than stand to the north.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	5	Pole/Log	8				
Red Oak	10	Log/XLog	16	119			
White Oak	5	Log/Pole	10	122			
Bigtooth Aspen	80	Pole	7	41			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	10 - 20 feet	Sapling				

<b>69</b>	4124 - Red with White Oak	Sawtimber Well	8.2	96	1-50	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	25	Pole/Log/Sap	6				
Beech	10	Sapling/Pole	3				
Red Oak	45	Log/Pole	13	96			
White Oak	20	Pole/Sap/Log	5				
Sub-Canopy Species	Density	Avg. Height	Size				
Beech	Low	10 - 20 feet	Sapling				
Red Maple	Medium	10 - 20 feet	Sapling				
White Oak	Medium	10 - 20 feet	Sapling				

<b>70</b>	42100 - Planted White Pine	Poletimber Well	5.8	59	51-80	N/A	Salvage cut in the 90's. Variable diameter and densities throughout the stand.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	5	Pole	6				
White Pine	90	Pole/Log	9	59			
Red Oak	5	Pole/Log	8				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	10 - 20 feet	Sapling				
Red Oak	Low	10 - 20 feet	Sapling				
White Oak	Low	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72	4130 - Aspen	Poletimber Well	5.3	38	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Red Maple	Low	10 - 20 feet	Sapling
Red Oak	10	Pole/Sapling	5		Red Oak	Low	5 - 10 feet	Sapling
White Oak	5	Sapling/Pole	2					
Bigtooth Aspen	75	Pole/Sapling	7	38				