



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63033

Entry Year 2022

Acreage: 1,495

County Osceola

Management Area: Evert Block

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**Revision Date:** 2020-06-11

**Stand Examiner:** Michael Aksamit

**Legal Description:**

T18-R8W; sections 7, 8, and 18.

**Identified Planning Goals:**

Vegetation management in the Evert Block management area (MA) will provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period years will focus on balancing the age-class distributions for aspen and regenerating oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are the need to regenerate oak, the need to continue to balance aspen age classes, the need to diversify forest cover types and an increase in recreation pressure.

**Soil and topography:**

Rubicon, Roselawn sands. Variable topography, flat to rolling hills.

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

The east and south edges of the compartment are mostly private lands with year-round homes and farmlands. The north and west edges are State lands with similar cover types. No recommended disposals of these State lands per the Pere Marquette Plan. No internal private holdings.

**Unique Natural Features:**

There are no unique and/or natural features within this compartment.

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

There are no known historical features within this compartment. Parts of this area were a sheep ranch at one time.

**Special Management Designations or Considerations:**

Per the RMU outlined in the Pere Marquette Management Plan, the major management emphasis is the production of high volume quality timber, along with maintaining the aspen type and age class diversity. No proposed increase or decreases in any particular cover type. There are several northern red oak stands within this compartment that we have, and continue to use, prescribed burning as a management tool. Oak is naturally well adapted to fire by its ability to sprout repeatedly and grow rapidly after a fire. Historically, fire played a major role in the original establishment of these oak stands. Prescribed burning helps release oak regeneration in the understory by setting back its competition from tree species, which are less fire-resistant (primarily red maple). Thereby, giving oak a "fighting chance" to regenerate here again in the future.

**Watershed and Fisheries Considerations:**

A portion of the Whitmore pond area is located in the Southwest corner of the compartment. A small amount of panfish fishing is enjoyed here. Also, the headwaters of Twin Creek are located in the southwest corner of this compartment. Twin Creek is a Designated Trout Stream of very high quality. Twin Creek supports excellent populations of naturally reproduced brown and brook trout. Therefore, all BMP's should be followed in the wet areas around the creek, and a buffer should be left along the water. Also, active management for aspen regeneration should not take place within 100 yards of the stream, as this will encourage beaver activity. Beavers can be extremely detrimental to a trout stream such as Twin Creek. Beavers have been a problem here in the past, so not managing for young aspen should allow the stream to recover over time. - Mark Tonello

Also, active management for aspen regeneration in riparian zones adjacent to the stream in this compartment should be avoided. Young aspen is a prime source of food for beavers, and beavers have the potential to negatively impact trout streams. Beavers have been a problem here in the past, so not managing for young aspen should allow the stream to recover.

### **Wildlife Habitat Considerations:**

Featured wildlife species are deer, ruffed grouse and pileated woodpecker. Woodcock as well as a variety of species utilizing early-successional communities and young forests will also benefit from management in this area. Management objectives are to maintain and regenerate oak stands, and to maintain the aspen type with age class diversity to provide continually available early-successional habitat for hunting and viewing opportunities.

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

Currently, no mineral management objectives.

Surface sediments consist of an end moraine of coarse textured till. Glacial drift thickness varies between 600 and 800 feet. There is nearly 200 feet of relief. Beneath the Glacial Drift is the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. The nearest gravel pit is two miles to the southeast, but gravel potential is considered to be good. The compartment lies two miles northwest of Evert Field. The field produced over 3.8 million BO from the Devonian Dundee Limestone. None of the State land is currently leased for oil and gas development. There may be potential for oil and gas in this area.

### **Vehicle Access:**

There are county dirt roads and State forest 2- track roads affording good accessibility into this area. There are no bridges in this compartment. A forest road access plan is detailed on the compartment map. State and County roads are identified 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 have been determined to be in excess of our access needs, are a threat to the resources, or are a concern environmentally.

Proposed new roads or roads recommended for substantial improvement are noted below: None.

### **Survey Needs:**

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

The 40" Evert ORV trail winds through this compartment and is heavily used in the warmer months. This ORV trail is maintained under an orv contract issued by Lansing. This area is also used for intensive hunting of large and small game species, and is used for berries and mushroom picking. Dispersed camping happens throughout the area. Snowmobiles and horses ride on the existing road system throughout the area. They are not identified as designated trails for those uses.-PFK

### **Fire Protection:**

Fire suppression equipment will have good access to this compartment through the use of forest roads and the county road within. Fuel types will not support a crown fire. Rolling terrain would slow the progress of fire suppression, if a wildfire would start. Dispersed camping or ORV activity could be a cause of a wildfire.

### **Additional Compartment Information:**

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

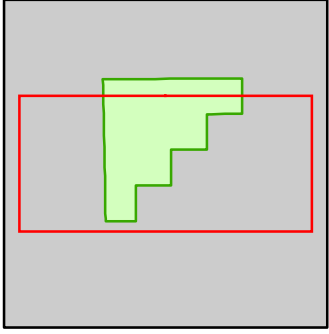
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

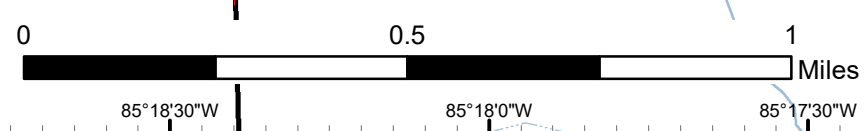
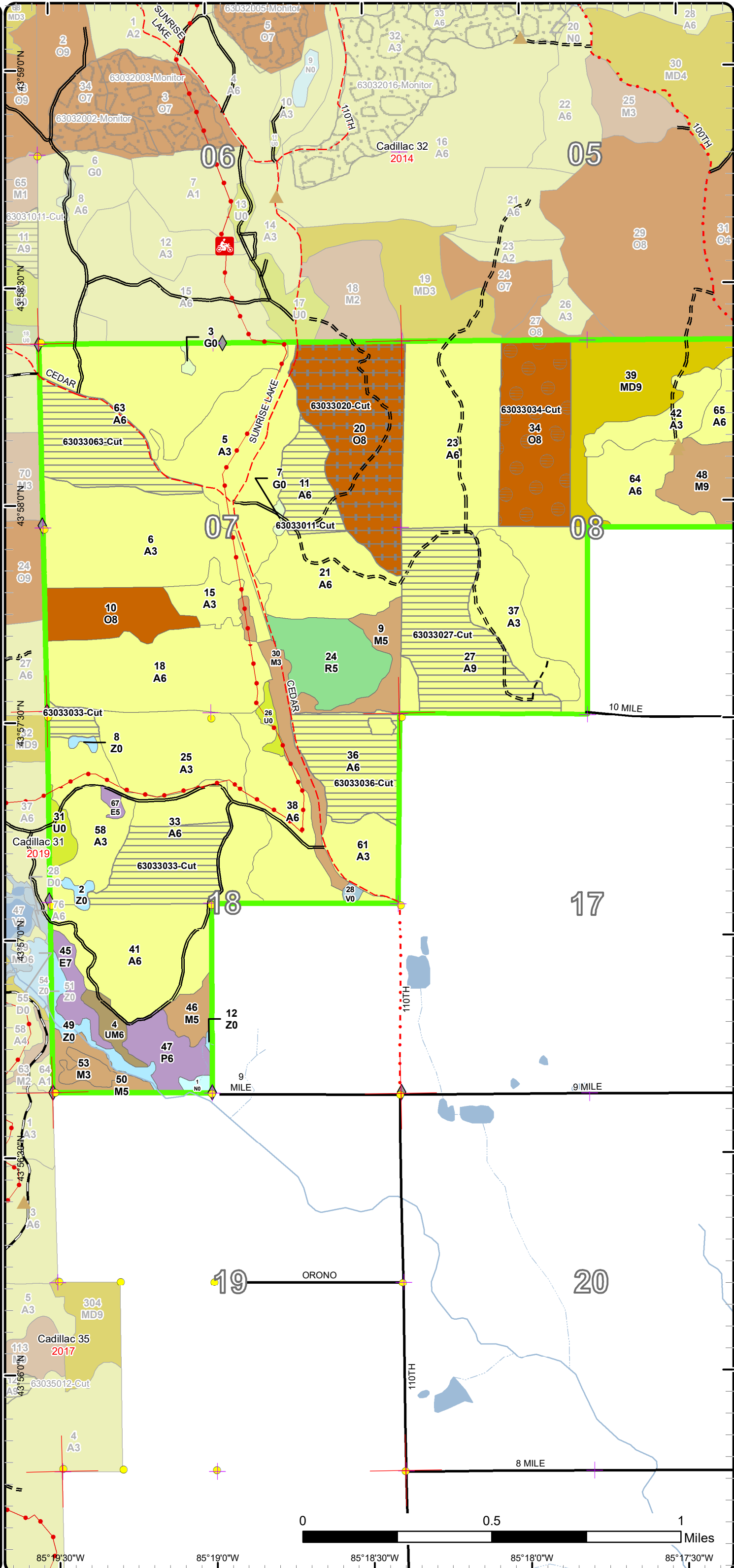
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 33  
 T20N - R07W Sec.  
 02,03,14,19,21  
 County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOE: 2022  
 Acres: 1,495 GIS Calculated  
 Examiner: Michael Aksamit  
 Map Revised: 6/22/2020  
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- County - Gravel Road
- County - Dirt Road (Seasonal)
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
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- Harvest, Overstory Removal
- Patch/Strip Cut (Femelschlag)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

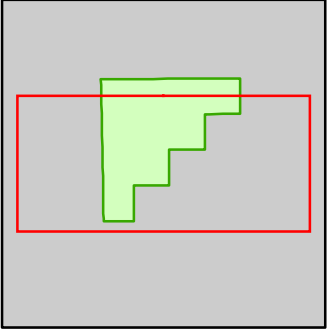


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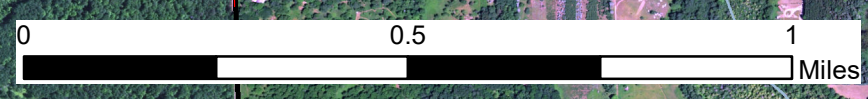
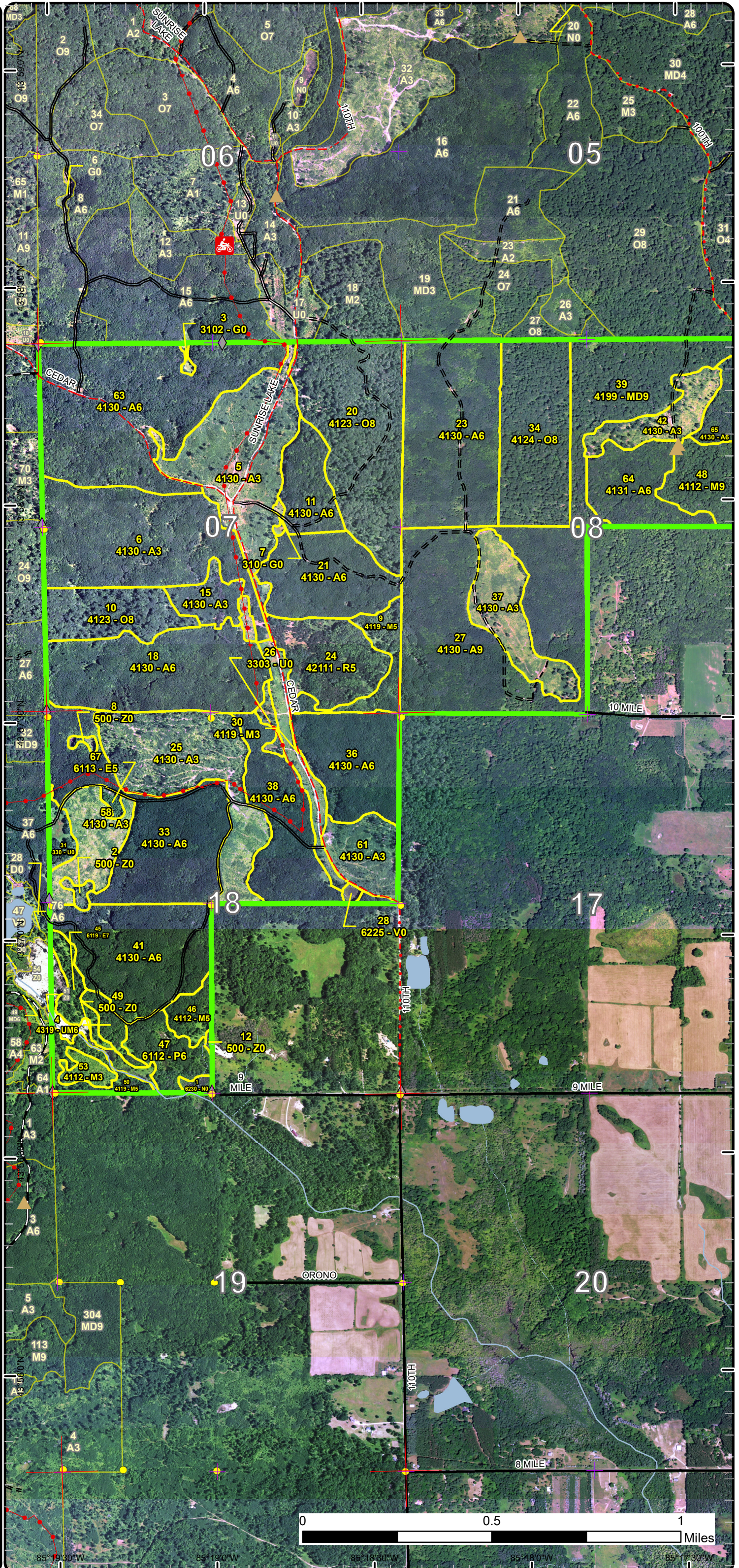


# Stand Boundary Map

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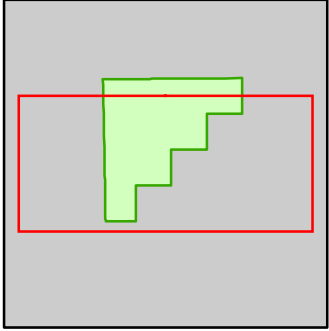


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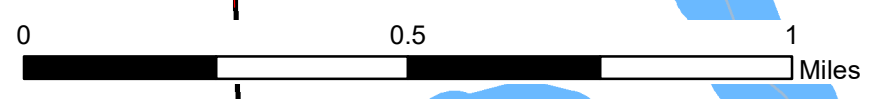
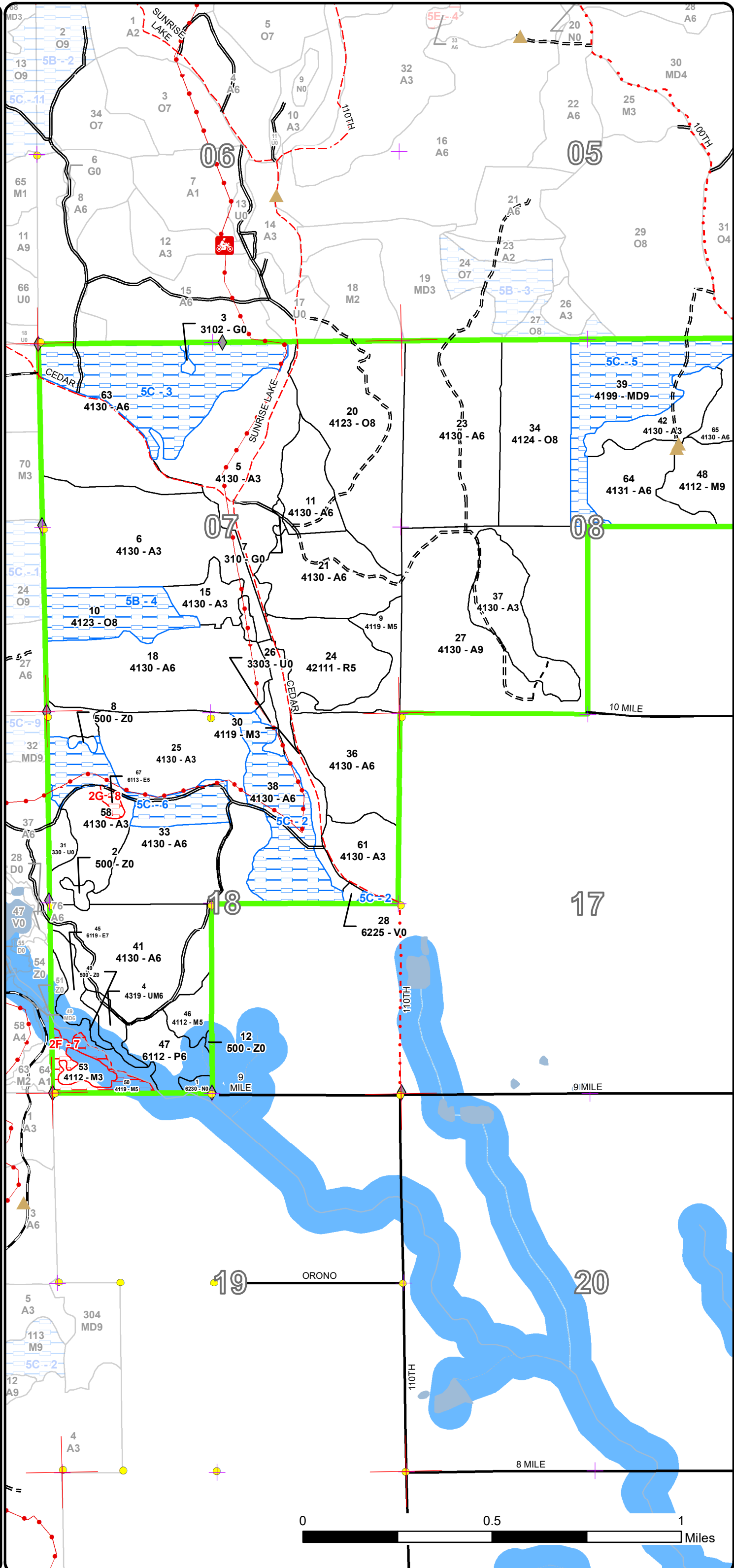


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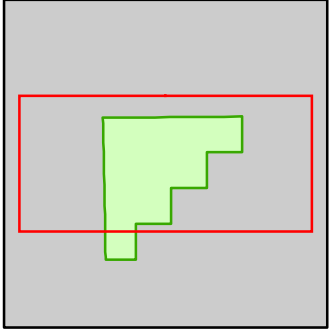
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- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Cold Water Streams
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- High Priority Trout Stream Buffer



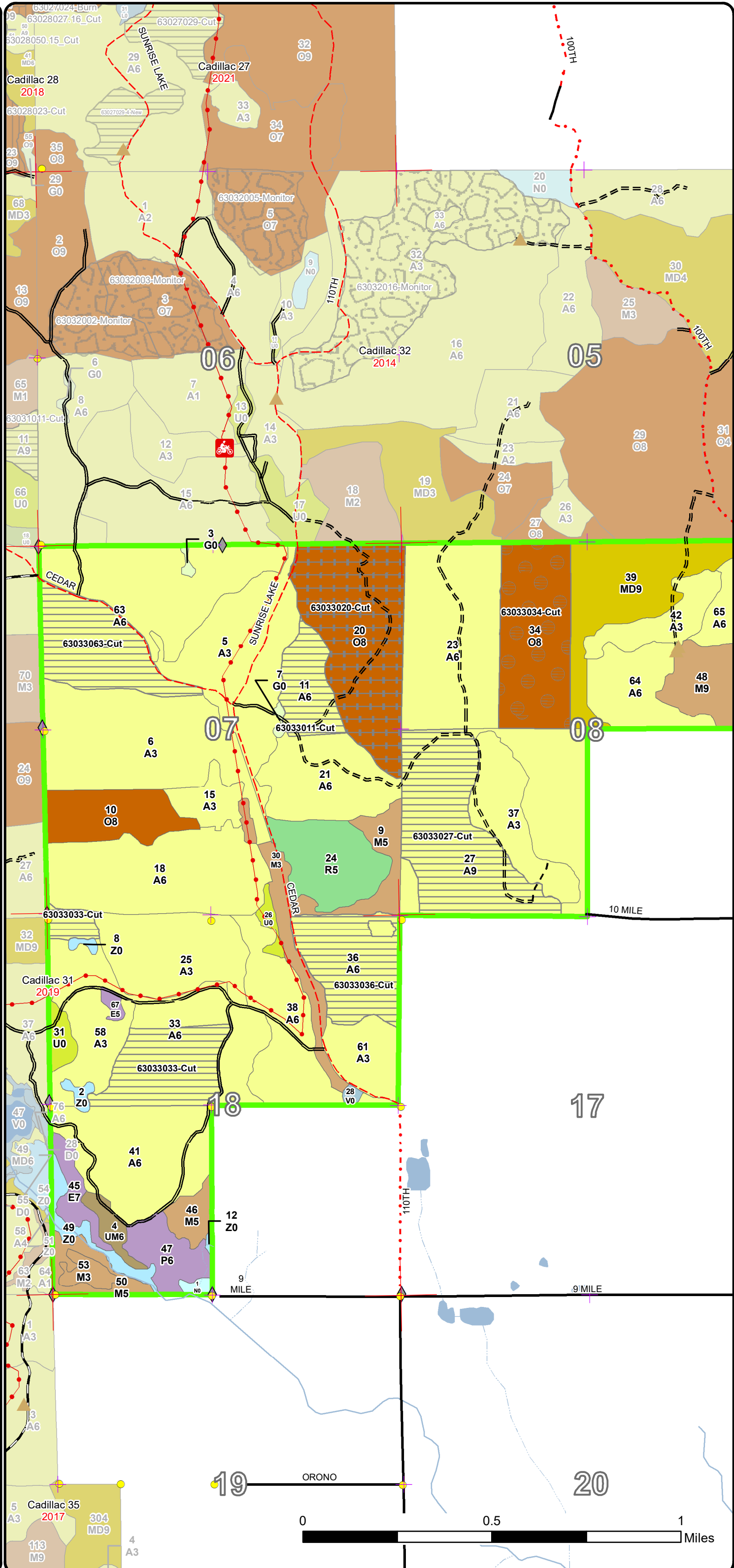


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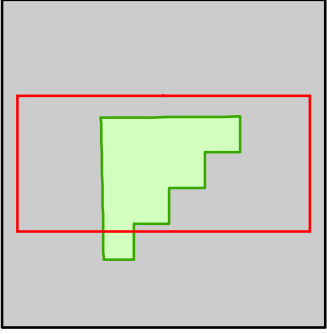
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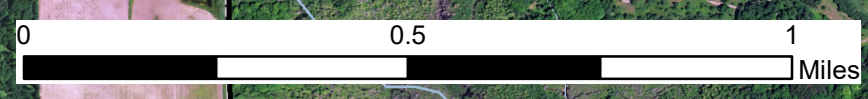
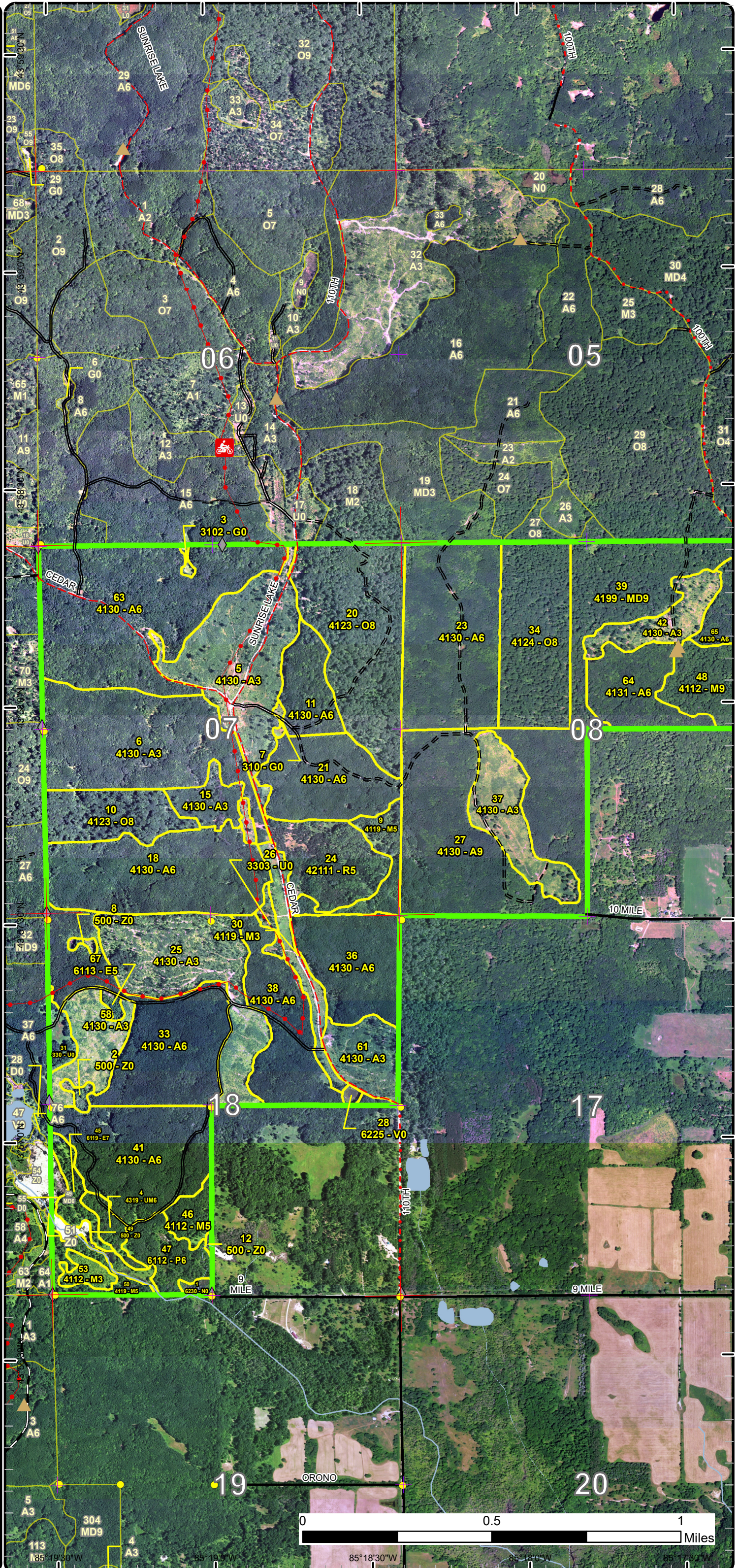


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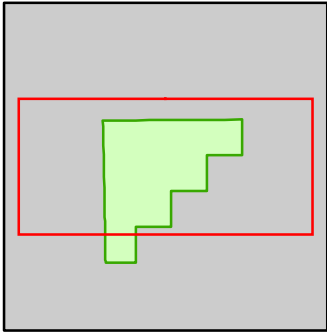


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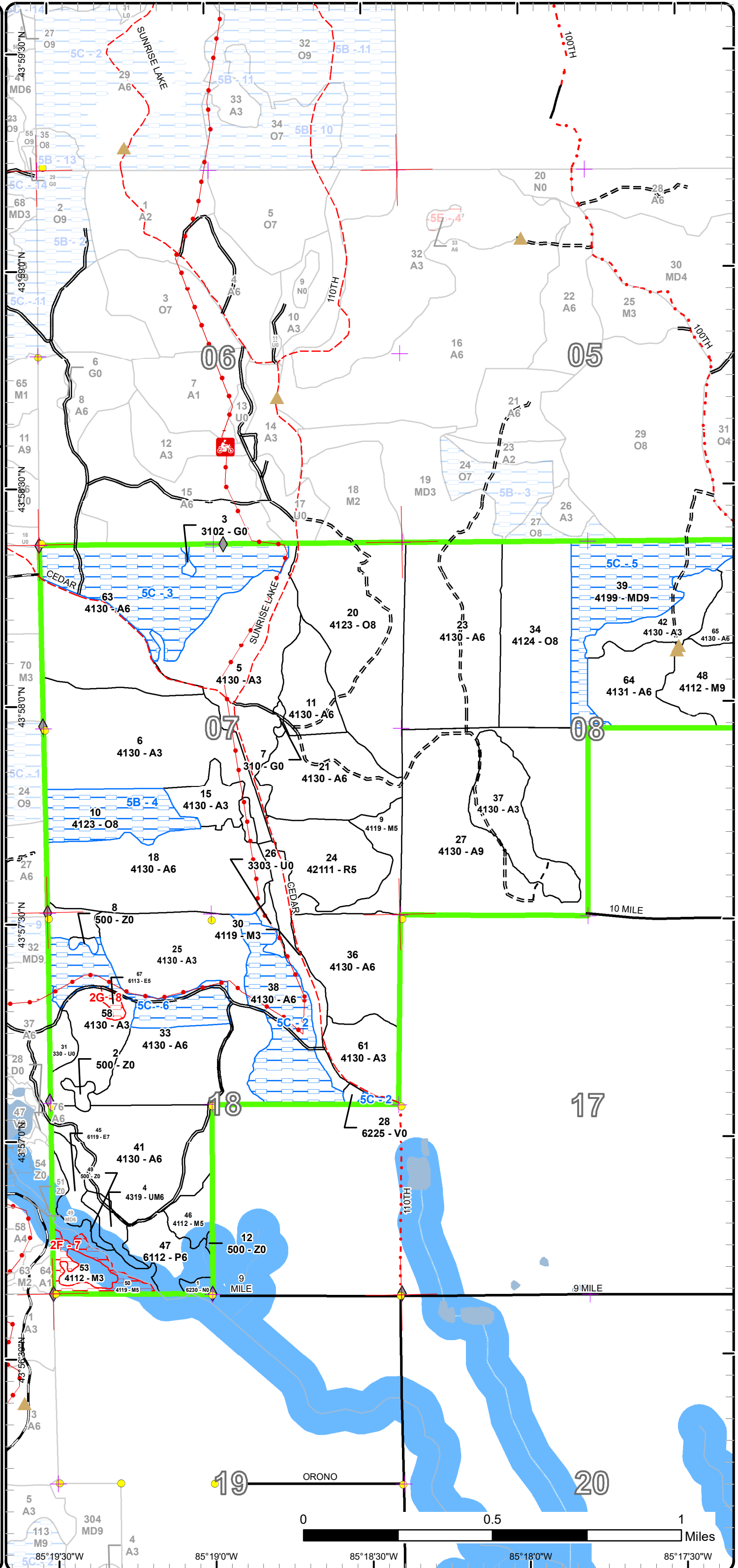


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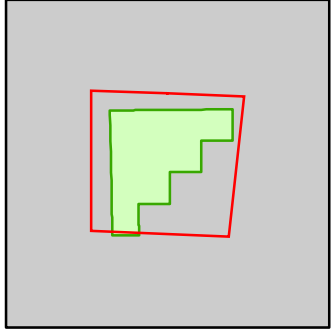
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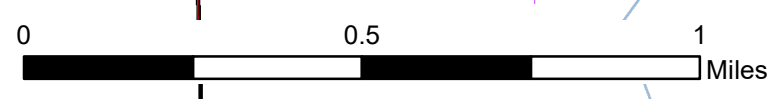
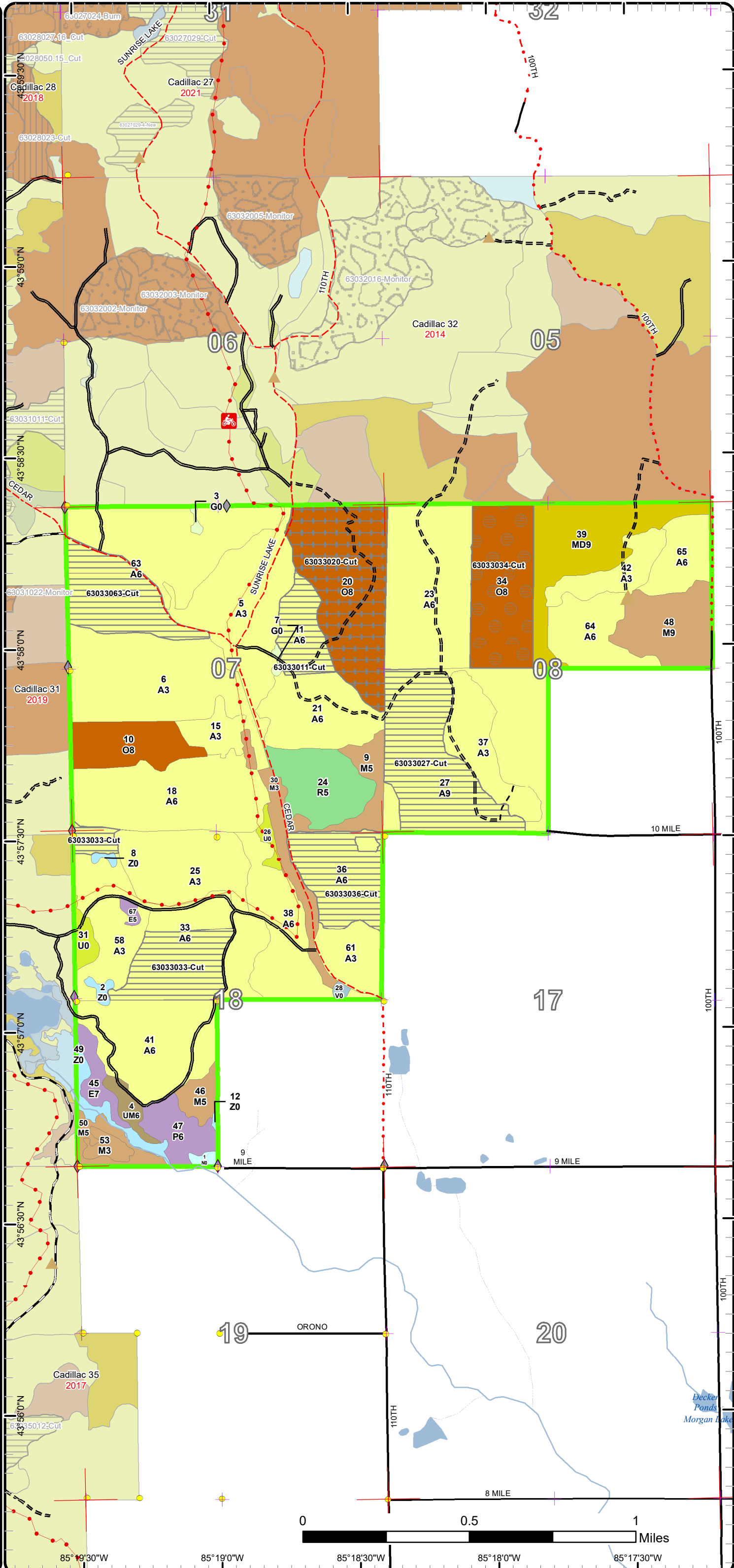


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Age Class

	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	233	0	172	187	252	178	46	0	0	0	0	0	0	0	0	0	0	1068
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Deciduous	0	0	0	0	0	10	2	0	0	0	0	0	0	0	0	0	0	0	12
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	57	0	0	0	0	0	0	0	0	0	57
Northern Hardwood	0	25	0	0	17	9	11	38	0	0	0	0	0	0	0	0	0	0	99
Oak	0	0	0	0	0	0	0	0	0	0	30	59	81	0	0	0	0	0	170
Red Pine	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Upland Mixed Forest	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
<b>Total</b>	<b>29</b>	<b>258</b>	<b>0</b>	<b>172</b>	<b>264</b>	<b>271</b>	<b>191</b>	<b>84</b>	<b>0</b>	<b>57</b>	<b>30</b>	<b>59</b>	<b>81</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1495</b>





## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 33

Total Compartment Acres: 1,495

Commercial Harvest - 369  
 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
Aspen	229	0	0	0	0	0	0	0	0	229
Oak	0	0	59	0	0	0	81	0	0	140
<b>Total</b>	<b>229</b>	<b>0</b>	<b>59</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>81</b>	<b>0</b>	<b>0</b>	<b>369</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	369	0	0	0	0	0	0	0	0	369
Next Step	0	59	0	0	59	0	576	0	0	694
<b>Total</b>	<b>369</b>	<b>59</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>0</b>	<b>576</b>	<b>0</b>	<b>0</b>	<b>1063</b>





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

11	63033011-Cut	22.5	4130 - Aspen	Poletimber Well	56	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Two-Aged	No
<p><u>Prescription</u> Clearcut with standard retention. Retain all pines. Include grouse spec.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Maple, Oak, Pine  <u>Other Comment:</u> Percentage to treat = 100%  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
20	63033020-Cut	80.7	4123 - Red Oak	Sawtimber Medium	110	81-110	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Remove overstory trees to complete shelterwood sequence.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable Regen:</u> Oak, Maple, Aspen, White Pine  <u>Other Comment:</u> Percent to Treat = 100%  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
27	63033027-Cut	75.8	4130 - Aspen	Sawtimber Well	47		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention, include grouse spec.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Maple, Oak  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
33	63033033-Cut	44.9	4130 - Aspen	Poletimber Well	48	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention, use grouse spec. Cold winter cut or buffer around wetter areas.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, Maple, Oak</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
34	63033034-Cut	58.9	4124 - Red with White Oak	Sawtimber Medium	100	51-80	Harvest	Strip/Patch/Gap Cut (Femelschlag)	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Patch or strip cut harvesting 50% of current area. Consult with area staff and unit WL biologist on design and layout. Whole tree skid.  <u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash; SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak, Maple</p> <p><u>Other Comment:</u> Burn then scarify post harvest</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
36	63033036-Cut	41.6	4130 - Aspen	Poletimber Well	57	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with delineated retention. Include grouse spec. Reserve portion of stand to the west until 2032 YOY for aesthetics &amp; visuals within compartment.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, Red Maple, Oak</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
63	63033063-Cut	44.3	4130 - Aspen	Poletimber Well	56	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention, include grouse spec.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, Maple, Oak</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 6 /8 /2020</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment  
Acreage Proposed: 368.7



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Michael Aksamit : Examiner

Compartment: 33  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	2F	2G
		With Condition	Not Available					
1067	924	<b>143</b>	0	Aspen	0	143		
1	1	0	0	Bog				
2	2	0	0	Herbaceous Openland				
10	10	0	0	Low-Density Trees				
18	18	0	0	Lowland Aspen/Balsam Poplar				
12	10	0	2	Lowland Deciduous				2
2	2	0	0	Marsh				
57	0	<b>57</b>	0	Mixed Upland Deciduous		57		
100	89	0	11	Northern Hardwood			11	
170	140	<b>30</b>	0	Oak	30			
35	35	0	0	Red Pine				
7	7	0	0	Upland Mixed Forest				
13	13	0	0	Water				
1,495	1,253	<b>230</b>	13	Total Forested Acres	30	200	11	2
	84%	<b>15%</b>	1%	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
2	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	68	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Cadillac Mgt. Unit

Michael Aksamit : Examiner

Compartment: 33

Year of Entry: 2022

4	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	30	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Advanced regeneration wouldn't stand up well to an overstory removal harvest, has grown too large.							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	57	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Maintain for scenic values this YOE.							
7	<b>Unavailable</b>	<b>2F: Too steep</b>	11	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	5D: Unproductive Forest Land	Unspecified
<b>Comments:</b> 11/20/19: Low stocking, low quality timber along creek. Hilly in spots, wet in others.							
8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	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
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	6230 - Cattail	Nonstocked	2.1	0		No																																														
2	500 - Water	Nonstocked	2.4	0		No																																														
3	3102 - Grass	Nonstocked	1.1			No																																														
4	4319 - Mixed Upland Forest	Poletimber Well	6.8	38		N/A	11/20/19: Low quality jack pine mixed with red maple and log sized cherry.																																													
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5	4130 - Aspen	Sapling Well	68.2	7		N/A	Stand was clear cut in 2013, all oak was left. Large clearcut complex that varies from red maple dominated to aspen dominated. Pockets of jack pine regen in old landing areas. Residual overstory red and white oak in the pole/log class.																																													
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7	310 - Herbaceous Openland	Nonstocked	1.2	0		No																																														
8	500 - Water	Nonstocked	1.3			No	11/22/19: Small ponds surrounded by poor quality red maple.																																													
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9	4119 - Mixed Northern Hardwoods	Poletimber Medium	16.5	36	81-110	N/A	Stand was clear cut in 1984. Appears to be portion of cut that was not planted. Stand to east was planted .																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
10	4123 - Red Oak	Sawtimber Medium	30.0	94	51-80	N/A																																													
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18	4130 - Aspen	Poletimber Well	74.2	20	Immature	N/A	Some very steep hills in stand. Bike trail passes through stand.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	4130 - Aspen	Poletimber Well	43.6	30	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		80	Pole/Sap/Log	6	30	Beech	
Black Cherry		5	Sapling/Pole	3		Low	
Red Oak		7	Pole/Sapling	5		5 - 10 feet	
Paper Birch		3	Sapling/Pole	4		Sapling	
Red Maple		5	Pole/Sapling	5			
23	4130 - Aspen	Poletimber Well	80.9	30		N/A	12/13/19: Previous age of 29 from cutting record. Current age of 29 based on core from ~7" BTA. Patches of white oak in clearings along road.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		18	Sapling/Pole	4		Beech	
Black Cherry		3	Pole/Sapling	5		Trace	
Bigtooth Aspen		75	Pole/Sapling	6	30	5 - 10 feet	
Beech		2	Pole/Sapling	6		Sapling	
Red Oak		2	Pole/Sapling	5			
24	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Medium	35.0	31	81-110	N/A	11/6/19: Low quality red pine site with fingers of hardwood throughout. Red pine is stagnating at 2-3 sticks and won't likely do much more than it already has.  Stand was planted to red pine in 1989.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		75	Pole/Sap/Log	7	31		
Red Oak		15	Pole/Sapling	5			
Red Maple		8	Sapling/Pole	4			
25	4130 - Aspen	Sapling Well	65.7	7	Immature	N/A	11/22/19: Small pockets of poor stocking but overall looking good. Scattered red oak left in overstory, as well as a pocket of red oak in the western portion of the stand. Unpleasant amount of raspberry on the edges.  Stand was harvested in 2013.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		20	Sapling	1	7	Blackberry/Raspberry	
Red Oak		5	Pole/Log/Sap	8		Medium	
Bigtooth Aspen		75	Sapling	1	7	Low	
						< 5 feet	
						Tall Shrub	
						Sweet Fern	
						Low	
						< 5 feet	
						Tall Shrub	
						Alder	
						Low	
						5 - 10 feet	
						Tall Shrub	
26	3303 - Mixed Low Density Trees	Nonstocked	3.5			No	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Black Cherry		Low	Variable	Log			
Red Oak		Low	Variable	Pole			
Bigtooth Aspen		Low	Variable	Log			
27	4130 - Aspen	Sawtimber Well	123.3	47		N/A	Stand was final harvested in 1973. 11/6/19: Primarily log class aspen that's just starting to size out. Scattered dead ash and hickory.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Pole/Log/Sap	7		Beech	
Black Cherry		3	Pole	6		Low	
Bigtooth Aspen		80	Log/Pole	10	47	Medium	
Paper Birch		2	Pole/Sapling	5		< 5 feet	
						Tall Shrub	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	6225 - Bog	Nonstocked	1.3			No	
30	4119 - Mixed Northern Hardwoods	Sapling Well	19.3	7	Immature	N/A	11/6/19: Long narrow stand along road. Primarily red maple with pockets of aspen and jack pine. Scattered residual overstory oak.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	55	Sapling	1	7	
		Quaking Aspen	15	Sapling	1		
		Red Oak	10	Sapling/Pole/Log	1		
		Beech	5	Sapling	1		
		Jack Pine	15	Sapling	1		
31	330 - Low-Density Trees	Nonstocked	6.6			No	11/22/19: Grassy opening with scattered black cherry as well as a pocket of aspen in the SW side.
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Black Cherry	Low	>20 feet	Log		
		Bigtooth Aspen	Medium	>20 feet	Pole		
33	4130 - Aspen	Poletimber Well	74.3	48	Unspecified	N/A	11/22/19: Dead ash throughout. Some of the aspen is starting to size out and fall over.  Stand clearcut in 1972.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	15	Pole/Log/Sap	7		
		Bigtooth Aspen	75	Pole/Log	9	48	
		Red Oak	5	Pole/Log	8		
		Black Cherry	3	Pole/Log	8		
		Paper Birch	2	Pole/Sapling	5		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Maple	Medium	>20 feet	Sapling		
34	4124 - Red with White Oak	Sawtimber Medium	58.9	100	51-80	N/A	Stand was cut in 2003, marked oak along with all aspen and maple cut at this time.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Oak	70	Log/Pole	12	100	
		White Oak	25	Log/Pole	10		
		Beech	5	Pole/Sapling	6		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Maple	High	Variable	Sapling		
		Beech	Low	5 - 10 feet	Sapling		
		Bigtooth Aspen	Low	< 5 feet	Sapling		
36	4130 - Aspen	Poletimber Well	43.3	57	Unspecified	N/A	
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	10	Pole	7		
		Red Oak	3	Pole/Log	8		
		Bigtooth Aspen	85	Pole/Log	8	57	
		Black Cherry	2	Pole	7		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Maple	Low	Variable	Sapling		
		Black Cherry	Low	< 5 feet	Sapling		
37	4130 - Aspen	Sapling Well	32.2	7	Immature	N/A	11/5/2019: Some areas of stand are heavier to red maple. Scattered residual red oak (Log/Pole) across entire stand.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	10	Sapling	1		
		Red Oak	10	Sapling/Pole/Log	1		
		Bigtooth Aspen	80	Sapling	1	7	
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Witch Hazel	Low	5 - 10 feet	Tall Shrub		
		Hawthorn (spp.)	Low	< 5 feet	Tall Shrub		
		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
38	4130 - Aspen	Poletimber Well	45.7	65		N/A	Extremely hilly, some areas are exceedingly steep.																																										
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39	4199 - Other Mixed Upland Deciduous	Sawtimber Well	56.9	85	111-140	N/A	Cut under contract 63-003-02, "Jim Dandy Oak" in ~2002. Hilly in areas.																																										
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45	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	10.1	41	1-50	N/A	11/20/19: Poorly stocked mixed lowland deciduous stand with a few pockets of white pine and hemlock.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46	4112 - Maple, Beech, Cherry Association	Poletimber Medium	9.2	40	51-80	N/A	11/20/19: Low stocking maple, oak, and cherry w/ low wet areas & grassy opening next to lake.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Pole/Sapling	6	40	Red Maple	Low	Variable	Sapling
Red Oak	20	Pole/Sapling	7		Witch Hazel	Low	Variable	Tall Shrub
Black Cherry	20	Pole	5					

47	6112 - Lowland Aspen	Poletimber Well	18.3	30		N/A	11/20/19: Large lowland complex merged together. Multiple low wet spots
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling/Pole	4		Red Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	50	Pole/Sap/Log	7	30	Beech	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole/Sapling	5					
Hemlock	3	Log/Pole	10					
Black Cherry	5	Log/Pole	10					
Red Oak	10	Pole/Sap/Log	6					
Jack Pine	5	Pole	7					

48	4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.2	65	81-110	N/A	Cut all aspen under contract 63-003-02, "Jim Dandy Oak" in ~2002.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Log/Pole/XLog	10	65	Red Maple	Low	Variable	Sapling
Beech	30	Pole/Log	9		Beech	Medium	< 5 feet	Sapling
Red Oak	15	Log/Pole/XLog	10		Bigtooth Aspen	Low	< 5 feet	Sapling

49	500 - Water	Nonstocked	9.2			No	11/20/19: Large complex of beaver dams surrounded by grasses with scattered shrubs and trees.
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Sub-Canopy Species	Density	Avg. Height	Size
Alder	Low	5 - 10 feet	Tall Shrub
White Pine	Low	< 5 feet	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Musclewood/Hornbeam	Low	5 - 10 feet	Tall Shrub

50	4119 - Mixed Northern Hardwoods	Poletimber Medium	10.6	56	51-80	N/A	Stand treated timber sale #63-076-12-01, "Snakeskin Mix". Cut and remove all trees 2" or greater EXCEPT green ringed trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole/Sap/Log	7	56	Red Maple	Low	5 - 10 feet	Sapling
Beech	5	Pole	6		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Red Oak	25	Pole/Log	8		Black Cherry	Low	5 - 10 feet	Sapling
Jack Pine	10	Pole	7		Beech	Low	5 - 10 feet	Sapling
Black Cherry	10	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
53	4112 - Maple, Beech, Cherry Association	Sapling Well	6.0	7	Immature	N/A	11/20/19: Regenerating well to primarily red maple.																																												
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58	4130 - Aspen	Sapling Well	24.2	7	111-140	N/A																																													
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61	4130 - Aspen	Sapling Well	21.9	7	Immature	N/A	12/13/19: Some overstory trees from prior harvest in stand.																																												
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63	4130 - Aspen	Poletimber Well	112.2	56	Unspecified	N/A																																													
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64	4131 - Aspen, Oak	Poletimber Well	31.5	43	Unspecified	N/A	12/11/19: Strip of larger trees with a heavier oak component along western edge of stand. Will hold until entire stand is ready to be treated.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67      6113 - Lowland Maple      Poletimber Medium      2.1      51      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	80	Pole/Log	8	51	Alder	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	15	Pole/Log/Sap	7		Red Oak	Low	5 - 10 feet	Sapling
Black Cherry	5	Pole/Sapling	6		Cattail spp.	Medium	Unspecified	Non-Wood