



# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 63021

Entry Year 2025

Acreage: 2,412

County Lake

Management Area: Cadillac Moraines

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**Stand Examiner:** James Park

### Legal Description:

T18N, R12W, SEC. 1, 2, 11, 12

### Identified Planning Goals:

Vegetation management in the Lake County Outwash management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on harvesting older jack pine and balancing the age-class distribution of aspen. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation; maintaining soft and hard mast sources including oak; and preserving related recreational opportunity.

Expected trends within this 10-year planning period are the need to minimize jack pine budworm damage by reducing the amount of more susceptible older jack pine; the need to regenerate oak and red pine; the need to target some accessible aspen in older age-classes for harvest; and increased recreational pressure.

### Soil and topography:

Mostly Rubicon-Roselawn sands and Graycalm-Montcalm sands. The terrain is generally rolling to hilly.

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

This compartment is predominately state-owned land. The state land is generally in large blocks. The private ownership is mostly hunting type land which is undeveloped. The following parcels are recommended for acquisition if they become available for sale: The private parcels in the NE quarter of section 11.

### Unique Natural Features:

Eastern massasauga, great blue heron rookery, bald eagle, hooded warbler, eastern box turtle, spotted turtle, and hill's thistle have been found in this compartment. This compartment has the potential for northern goshawk, red-shouldered hawk, dusted skipper, grizzled skipper, red-legged spittlebug, hill's thistle, rough fescue, Alleghany plum, and pale agoseris.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

### Watershed and Fisheries Considerations:

There are no Fisheries concerns within this compartment.

### Wildlife Habitat Considerations:

This compartment is in the Newaygo Outwash Plain Ecosystem, LTA 1111. Soils in this LTA vary throughout the Subsection but are generally deep, excessively well drained sands and loamy sands with moisture availability limitations. Microsite variability and the spread of large fires from outwash plains appeared to create localized conditions favorable to a wide variety of plant communities. Wildlife objectives are to maintain the aspen type and upland brush areas will be created out of the oak type. Featured species of special interest are bear, deer, turkey, woodcock, and ruffed grouse.

### 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 till. The glacial drift thickness varies between 400 and 600 feet. There is over 250 feet of local relief within the compartment. Beneath the glacial drift are the Pennsylvanian Saginaw Formation and the Mississippian Bayport Limestone. The Saginaw is quarried for clay/shale products and the Bayport for limestone in other areas of the State. A rock (?) quarry is indicated in Section 10 to the west. A gravel pit is located 3 miles southwest of the compartment and potential is considered good especially the upland areas. None of the compartment is leased for oil and gas development.

### Vehicle Access:

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

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

The Tin Cup Springs ORV route, motorcycle trail, and undesignated equestrian trail are within this compartment. The Tin Cup Springs motorcycle trail is under Director's Order prohibiting vehicular use by ORV's larger than a motorcycle. Management considerations along the cycle trail should include tools that will keep the trail tread narrow. Tools include sporadic, well placed "leave trees" in areas where the route and cycle trail interface to dissuade unwanted larger ORV vehicles from entering the single track, or leaving unmerchantable vegetation along the cycle trail corridor to define narrow tread associated with these cycle trails. The undesignated equine trail is being considered for designation as an equine trail via the trail proposal process. All divisions will have the opportunity to determine whether designation is appropriate for this horse event trail. Timber management activities should include trail protection specifications for both the motorsport and horse trail, while also serving as an example of how sound timber harvesting methods can co-exist, and often improve recreation and wildlife experiences for future generations. (T.M.N. 7-3-13).

**Fire Protection:**

Given the fuel type within the compartment, fire occurrence would be minimal. Along the ORV trail system, fire occurrence could be more of an issue. Access within the compartment is poor due to the poor 2 tracks and ORV trail. Private land holdings within the compartment could be a protection issue.

**Additional Compartment Information:**

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

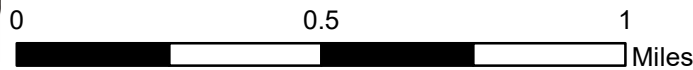
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

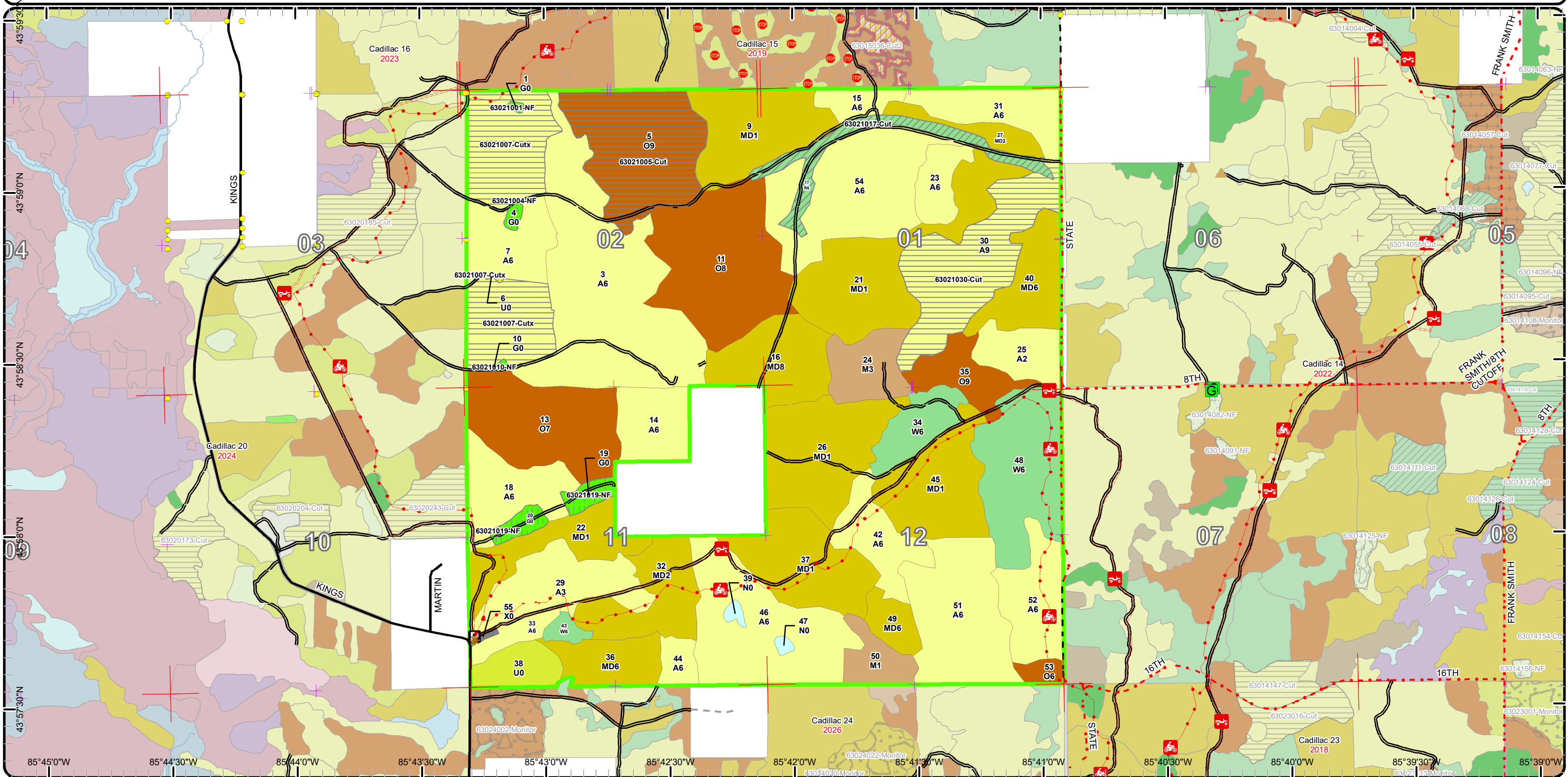
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 21  
 T18N-R12W sec.01,02,11,12  
 County: Lake  
 Unit: Cadillac  
 Mgmt Area: Cadillac Moraines  
 YOE: 2025  
 Acres: 2411.5 GIS Calculated  
 Examiner: James Park  
 Map Revised: 10/19/2023  
 Map Phase: Post-Maps

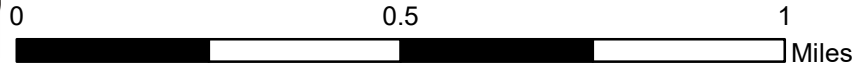


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Motorcycle Trails (DNR License)
- ORV Routes
- ORV License & Trail Permit
- Designated ORV Route
- Parking Lot
- Sign
- Trailhead
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 122 - Roads/Parking Lot
- 211 - Cropland
- 330 - Low Density Trees
- 623 - Emergent Wetland

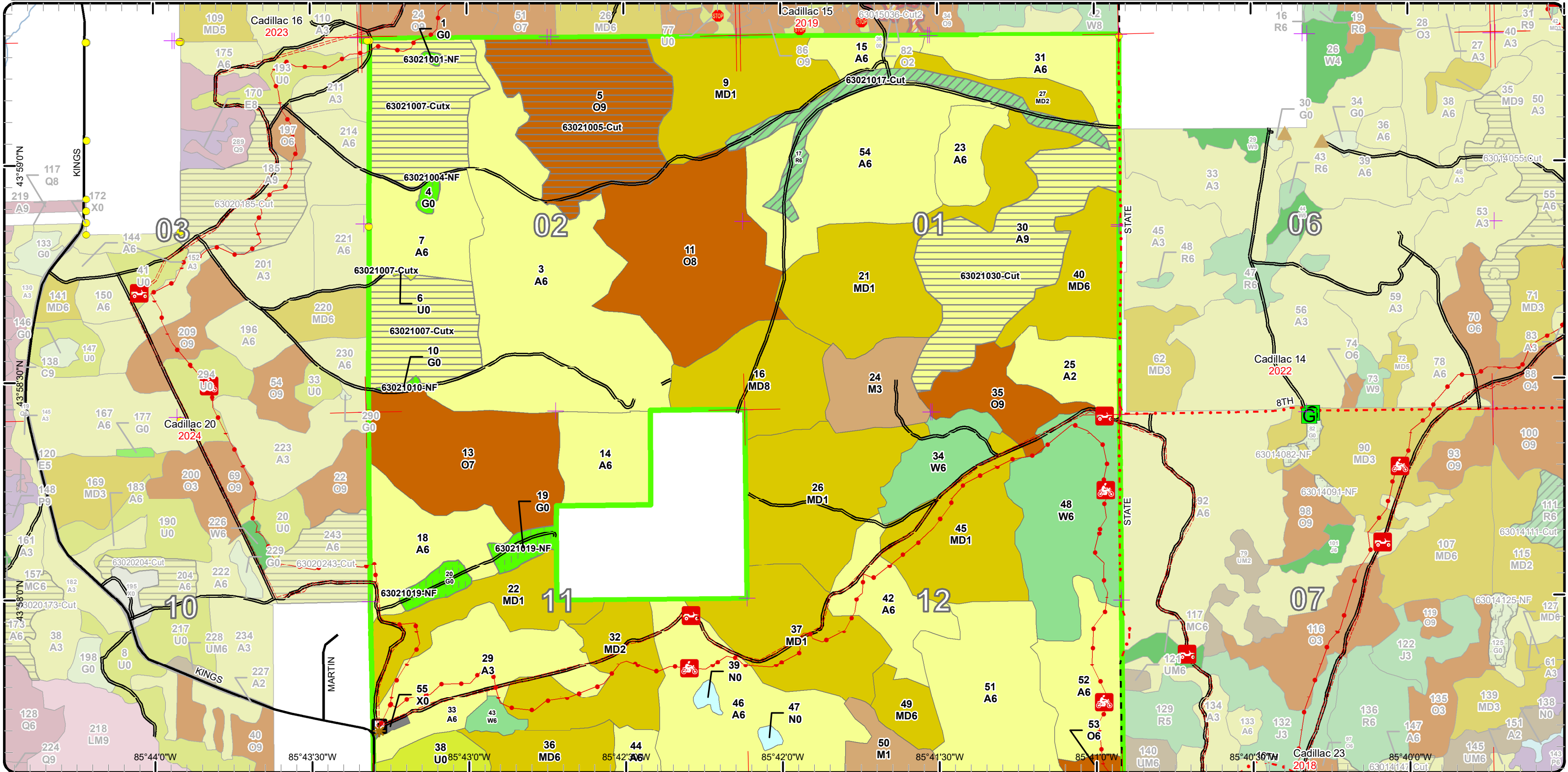


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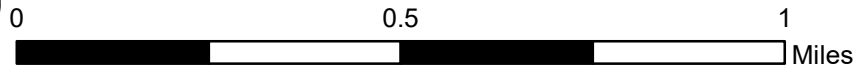


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- STOP Sign
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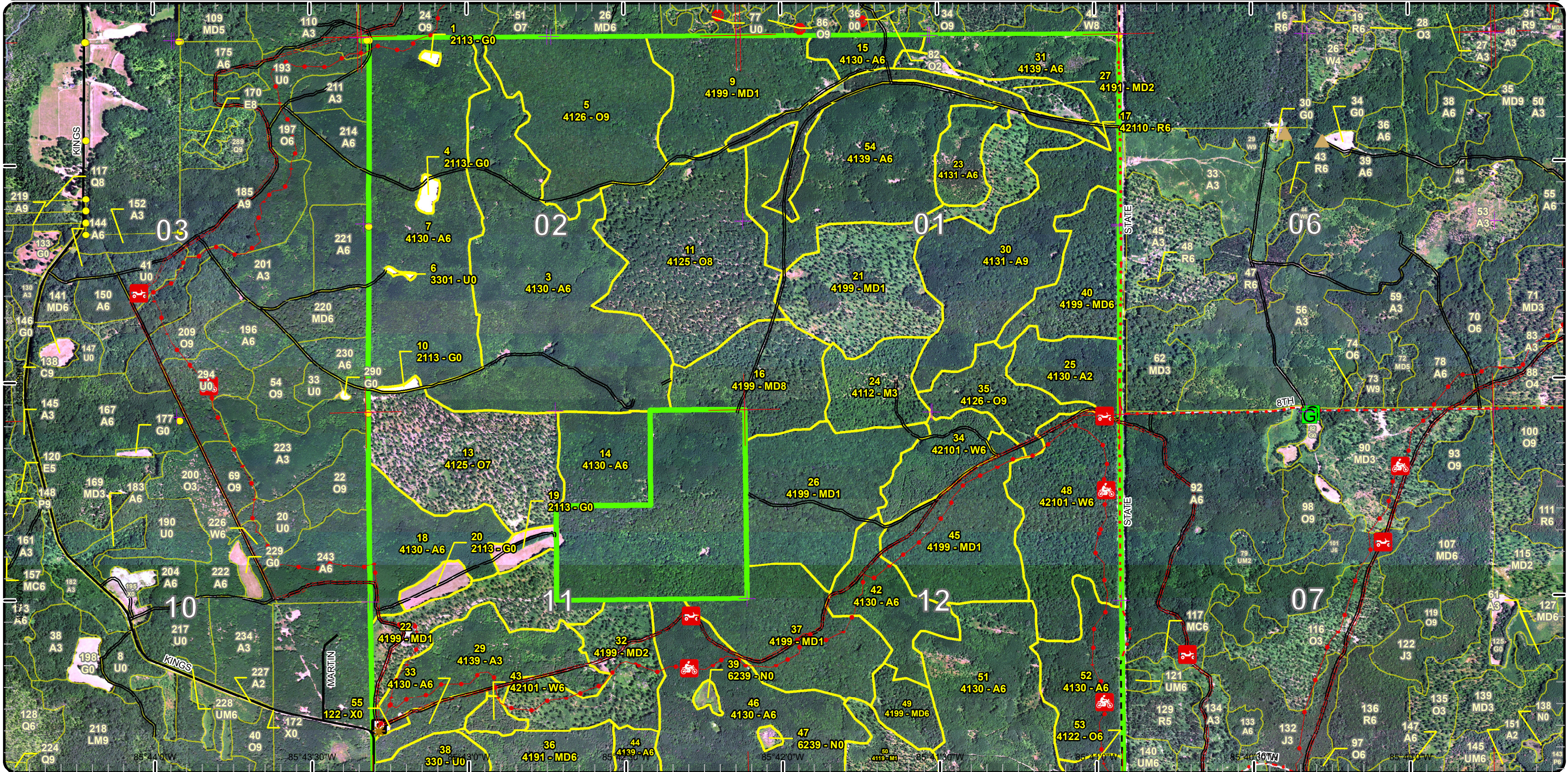


# Stand Boundary Map

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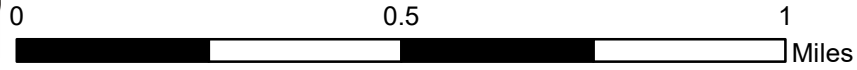


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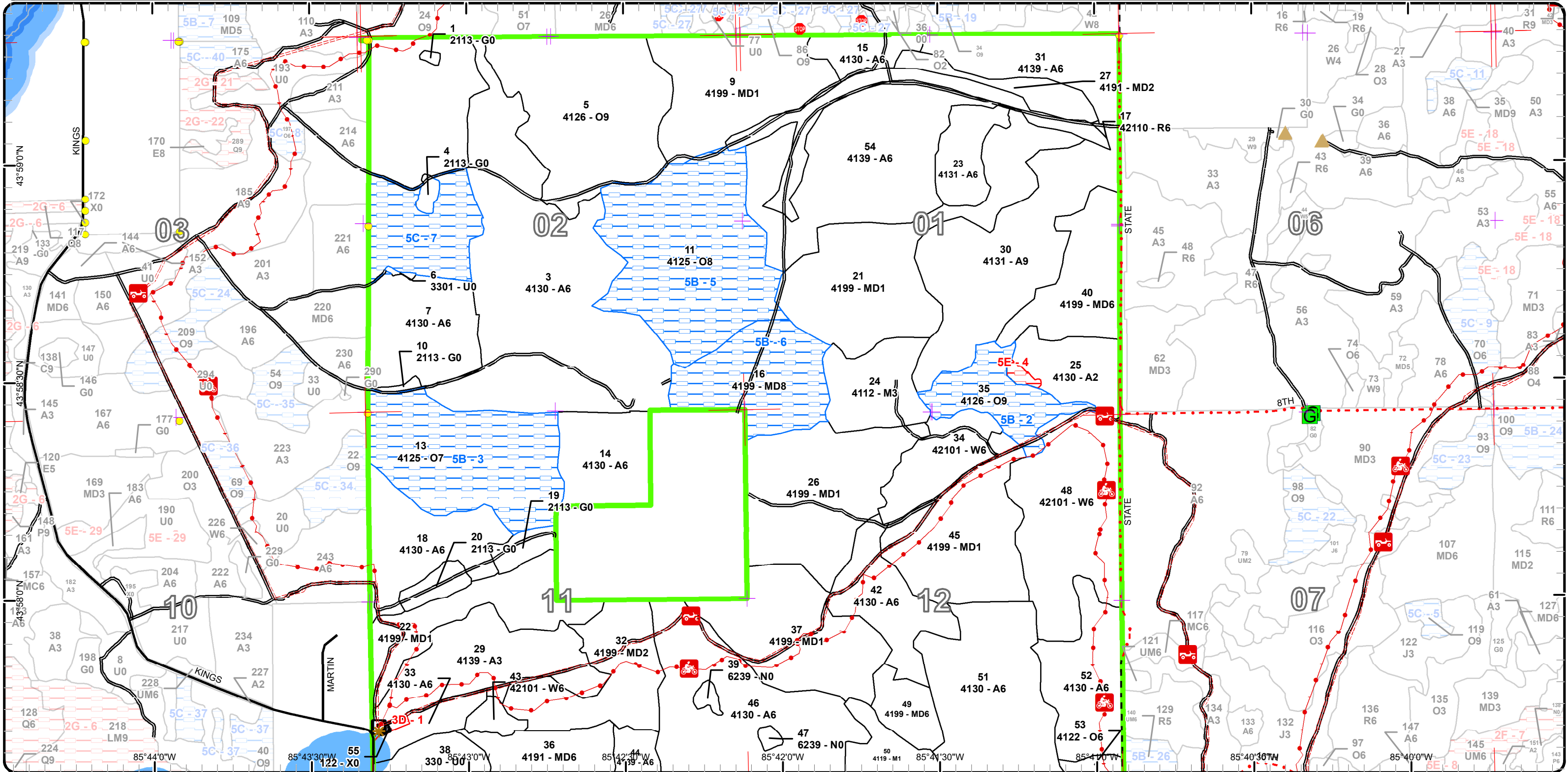


# Special Conservation Areas

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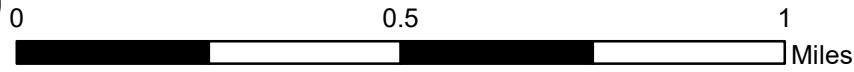


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- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Trail Head

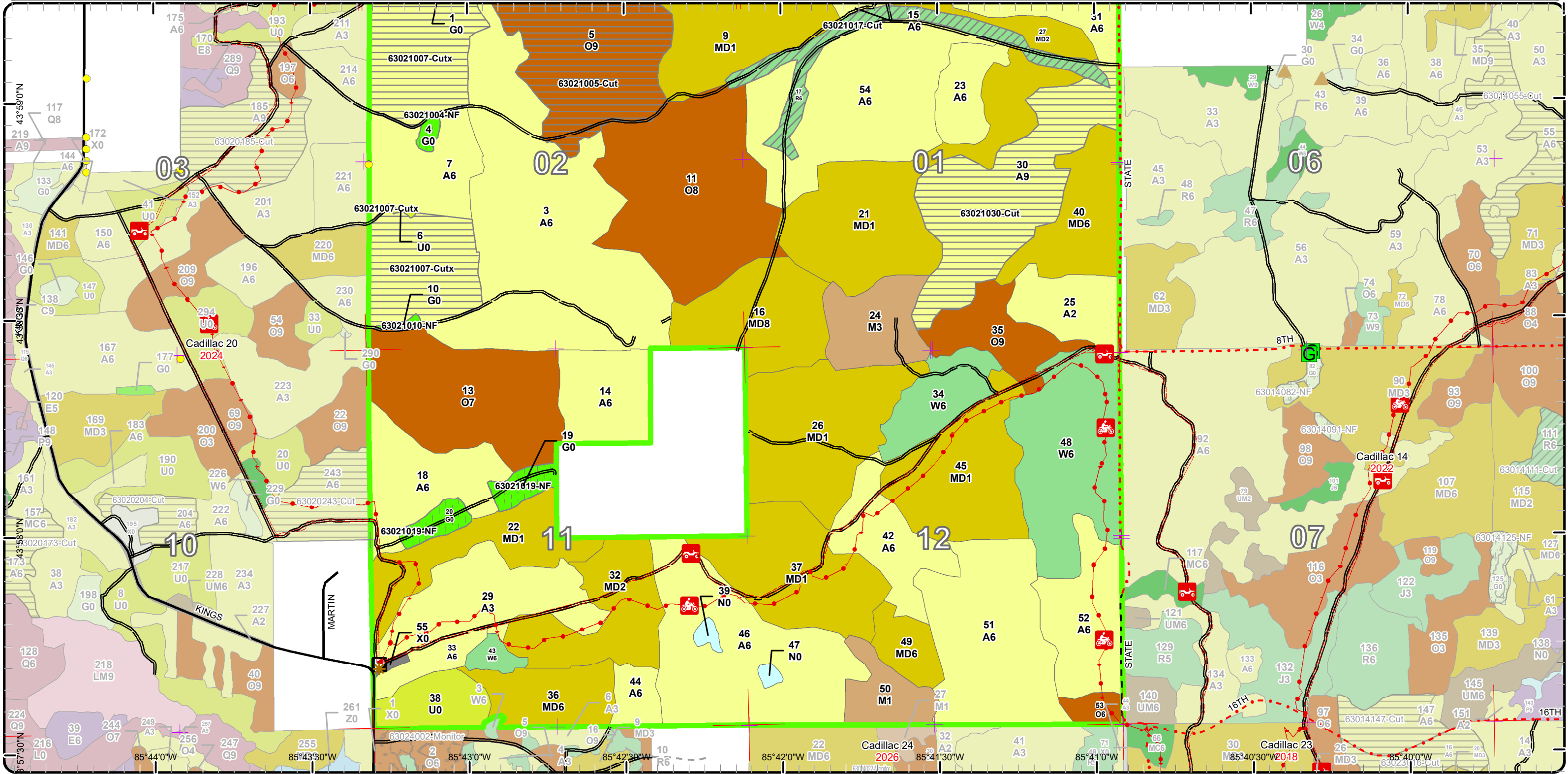


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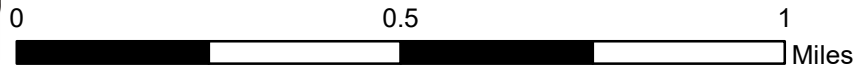


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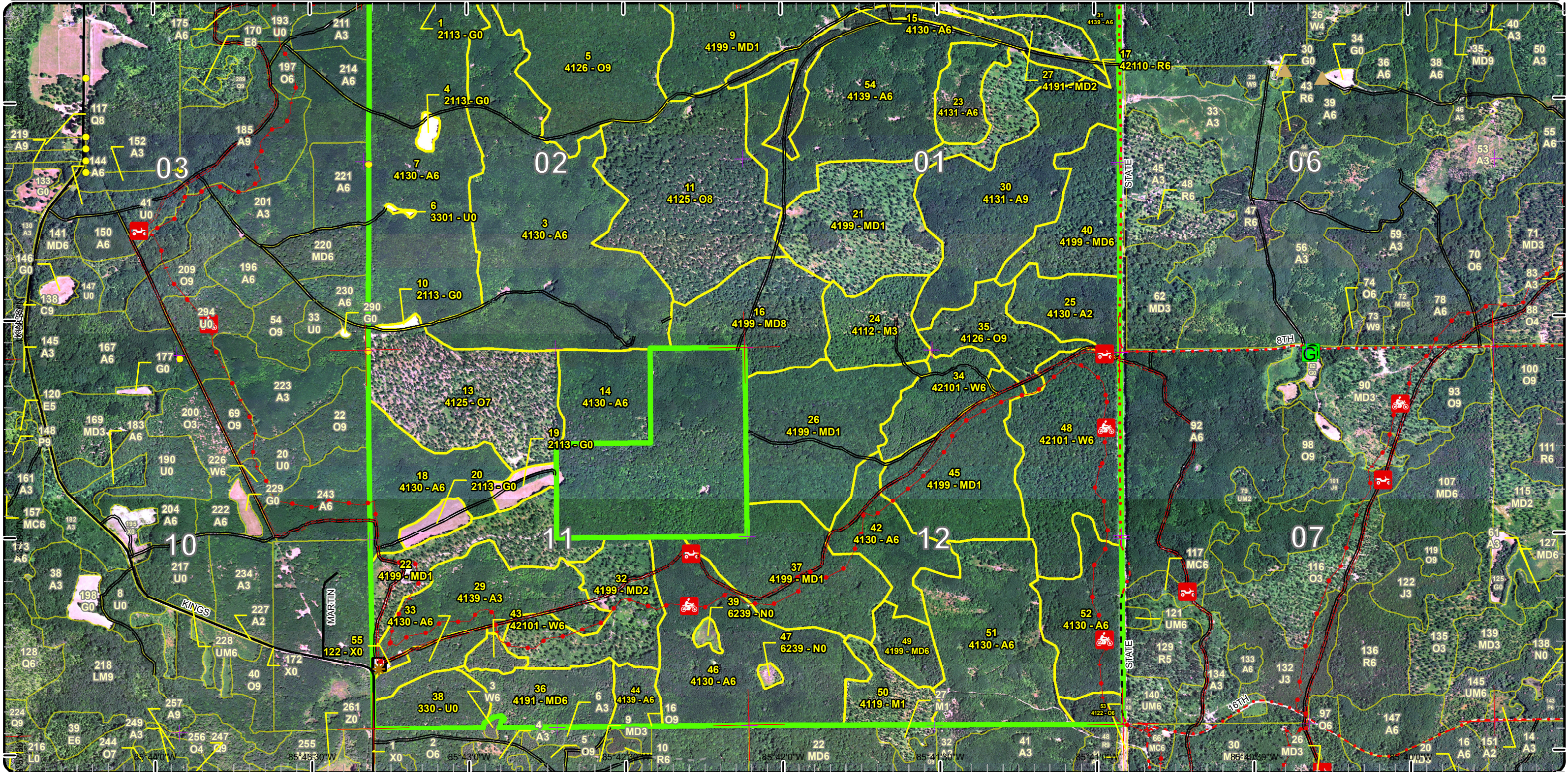
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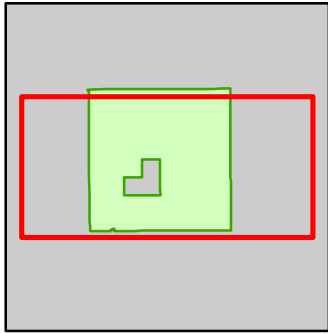
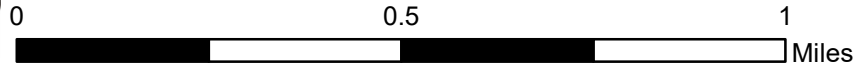
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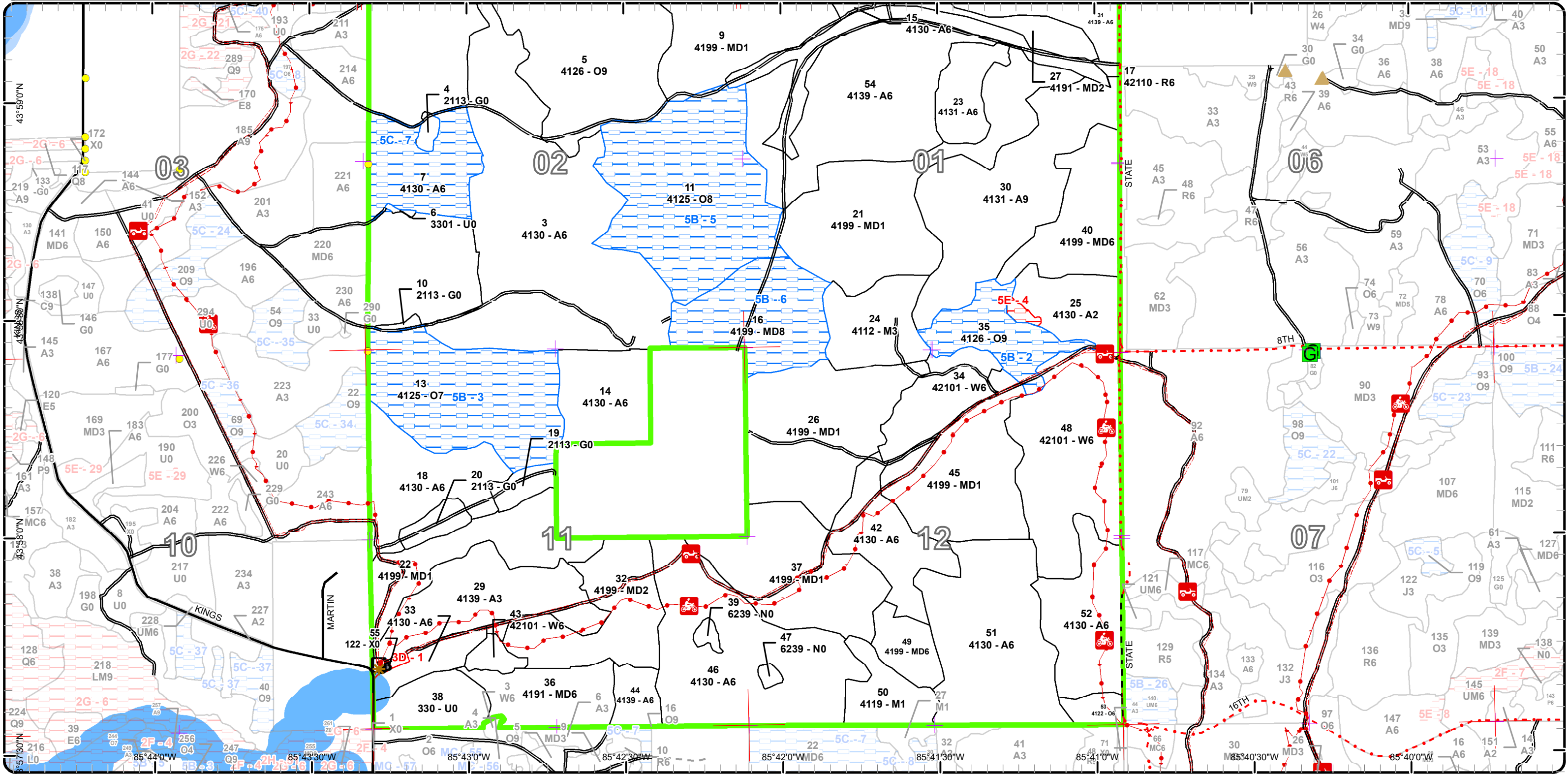


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|--|---|--|
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|--|---|--|



Report 1 – Total Acres by Cover Type and Age Class



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	31	0	417	405	173	97	0	0	0	0	0	0	0	0	0	0	0	1123
Cropland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	296	234	80	0	0	0	0	0	58	0	0	0	0	0	0	0	0	668
Northern Hardwood	0	0	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Oak	0	0	0	0	0	0	8	0	0	0	221	124	0	0	0	0	0	0	353
Red Pine	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	33
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	31	0	94	0	0	0	0	0	0	0	0	0	0	125
<b>Total</b>	<b>54</b>	<b>327</b>	<b>291</b>	<b>497</b>	<b>405</b>	<b>204</b>	<b>105</b>	<b>127</b>	<b>0</b>	<b>58</b>	<b>221</b>	<b>124</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2412</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 21

Total Compartment Acres: 2,412

Commercial Harvest - 348  
 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	213	0	0	0	0	0	0	0	0	213
Oak	102	0	0	0	0	0	0	0	0	102
Red Pine	0	0	0	0	0	33	0	0	0	33
<b>Total</b>	<b>315</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>348</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	348	0	0	0	0	0	0	22	0	370
Next Step	0	0	0	0	102	0	315	0	0	417
<b>Total</b>	<b>348</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>102</b>	<b>0</b>	<b>315</b>	<b>22</b>	<b>0</b>	<b>787</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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**Approved Treatments:**

1	63021001-NF	0.9	2113 - Forage Crops Nonstocked				Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass	No
<p><u>Prescription</u> Managed Wildlife Opening</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
4	63021004-NF	2.8	2113 - Forage Crops Nonstocked				Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass	No
<p><u>Prescription</u> Managed Wildlife Opening</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
5	63021005-Cut	102.4	4126 - White, Black, N. Pin Oak	Sawtimber Well	95	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with island retention. Use oak wilt spec with exceptions. Do not cut white oak under 8 inches dbh. Apply post harvest rx burn.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Understory; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak spp., aspen spp., red maple, white pine, black cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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7	63021007-Cutx	115.4	4130 - Aspen	Poletimber Well	49	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with standard retention in the form of islands. Use grouse drumming spec. Use oak wilt with exceptions spec. Buffer wildlife openings to maximize edge effect.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Aspen spp., oak spp., maple spp., white pine, black cherry and other native upland species.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

10	63021010-NF	1.4	2113 - Forage Crops Nonstocked				Unspec ified	NonForestMgt /Grass Planting	Herbaceous/Crop /Grass Planting	3102 - Grass	No
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Prescription Managed Wildlife Opening

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

17	63021017-Cut	32.8	42110 - Planted Red Pine	Poletimber Well	66	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to a residual BA of 110-130 focusing on suppressed and low quality trees as well as crown spacing.

Next Step  
Treatments:

Acceptable Regen: Red pine, red maple, oak spp., aspen spp.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

19	63021019-NF	16.7	2113 - Forage Crops Nonstocked				Unspec ified	NonForestMgt /Grass Planting	Herbaceous/Crop /Grass Planting	3102 - Grass	No
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Prescription Managed Wildlife Opening

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
30 63021030-Cut	97.2	4131 - Aspen, Oak	Sawtimber Well	55	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with island retention. Use grouse spec. Use oak wilt with exceptions spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen spp., oak spp., white pine, red pine, black cherry, red maple</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Total Treatment** 369.6  
**Acreage Proposed:**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
James Park : Examiner

Compartment: 21  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions				
		With Condition			5B	5C	3D	5E	
1123	1077	44		2	Aspen		44		2
22	22	0		0	Cropland				
25	25	0		0	Low-Density Trees				
5	5	0		0	Marsh				
668	610	58		0	Mixed Upland Deciduous	58			
57	57	0		0	Northern Hardwood				
353	110	243		0	Oak	243			
33	33	0		0	Red Pine				
2	0	0		2	Urban			2	
125	125	0		0	White Pine				
2,412	2,063	345		4	Total Forested Acres	301	44	2	2
	86%	14%		0%	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	3D: Recreational / Scenic values	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5B: Maintain for regeneration purposes	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Available	5B: Maintain for regeneration purposes	90	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
James Park : Examiner

Compartment: 21  
Year of Entry: 2025

4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand treated January 2018.							
5	Available	5B: Maintain for regeneration purposes	119	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Available	5B: Maintain for regeneration purposes	58	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							





### 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
Tin Cup Spring Motorcycle Trail and Route	Concentrated Recreation Area	Trail Head	SCA	0
<b>Comments</b>				



### 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**1** 2113 - Forage Crops Nonstocked 0.9 Unspecified Managed Opening Cultivated wildlife opening.

**3** 4130 - Aspen Poletimber Well 188.2 29 1-50 N/A Stand final harvested in 1994 with timbersale TinCup Hills Aspen/Oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	60	Pole	5	29	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Maple	30	Pole/Sapling	5		Red Maple	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	10	Sapling/Pole	4					

**4** 2113 - Forage Crops Nonstocked 2.8 Unspecified Managed Opening

**5** 4126 - White, Black, N. Pin Oak Sawtimber Well 102.4 95 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	30	Log	12		Red Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	5	Pole/Log	9		White Pine	Low	10 - 20 feet	Sapling
Red Oak	10	Log	12					
Black/Red (Hybrid) Oak	50	Log	15	95				
Red Maple	5	Pole/Log	9					

**6** 3301 - Low Density Deciduous Trees Nonstocked 0.6 Unspecified Managed Opening Cultivated wildlife opening.

**7** 4130 - Aspen Poletimber Well 159.2 49 1-50 N/A Low quality aspen stand with pockets of smaller-diameter oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	6		Red Maple	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	10	Pole	6					
Bigtooth Aspen	60	Pole	8	49				

**9** 4199 - Other Mixed Upland Deciduous Sapling Poor 70.6 4 1-50 N/A Stand was treated in Spring 2019 with timber sale # "63-033-15-01", "Hill Folk Oak".

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Sapling	1	
White Pine	5	Pole/Sapling	6	
Red Maple	45	Sapling	1	4
White Oak	10	Log/Pole	10	
Black/Red (Hybrid) Oak	20	Log/Pole	12	96
Black Cherry	5	Sapling	1	

**10** 2113 - Forage Crops Nonstocked 1.4 Unspecified Managed Opening Cultivated wildlife opening.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**11** 4125 - Black, N. Pin Oak Sawtimber Medium 119.4 97 51-80 N/A Thinned 2012. Red maple regen dominating the understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	7	Sapling/Pole	3		White Pine	Low	10 - 20 feet	Sapling
Red Oak	8	Log	14		Red Maple	High	10 - 20 feet	Sapling
Red Maple	25	Sapling/Pole	2	11	White Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	45	XLog	20	97	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
White Oak	15	Log	14					

**13** 4125 - Black, N. Pin Oak Sawtimber Poor 89.8 103 1-50 N/A Stand treated timber sale #63-019-11-01, "c21 Oak and Aspen".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log	12		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
White Oak	5	Log	12		White Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	90	Log	16	103	Bigtooth Aspen	Low	5 - 10 feet	Sapling
					Red Maple	High	5 - 10 feet	Sapling

**14** 4130 - Aspen Poletimber Well 37.7 39 81-110 N/A Pole stand with a touch of conifer component.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	65	Pole	7	39				
White Pine	4	Pole	6					
Black/Red (Hybrid) Oak	5	Pole	8					
Red Maple	20	Pole	6					
Red Pine	1	Log	12					

**15** 4130 - Aspen Poletimber Well 15.5 38 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	70	Pole	7	38	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	15	Pole/Sapling	5					

**16** 4199 - Other Mixed Upland Deciduous Sawtimber Medium 57.7 83 51-80 N/A East half of stand thinned 2006. Red maple filling in the gaps. Some super canopy white pine in the stand along with a few scattered red pine. There is a lowland area in the west half of the stand that is inundated and surrounded by a pocket of paper birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	14	Pole	8		Red Maple	Low	>20 feet	Sapling
Red Pine	1	Log	14		White Pine	Medium	10 - 20 feet	Sapling
White Pine	15	Log/Pole/XLog	10					
Black/Red (Hybrid) Oak	35	Log	14	83				
Bigtooth Aspen	10	Pole/Sapling	7					
White Oak	15	Log/Pole	10					
Paper Birch	10	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
17	42110 - Planted Red Pine	Poletimber Well	33.0	66	141-170	N/A																																																												
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18	4130 - Aspen	Poletimber Well	49.1	37	81-110	N/A																																																												
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21	4199 - Other Mixed Upland Deciduous	Sapling Poor	98.8	17	Immature	N/A	Harvested 2006. Stand RX burned in 2012 to set back maple. Oak regen is excellent.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**23** 4131 - Aspen, Oak Poletimber Well 22.2 28 1-50 N/A Harvested 1995.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole/Sapling	4	
Red Maple	15	Pole/Sapling	5	
Black/Red (Hybrid) Oak	20	Sapling/Pole	4	
Jack Pine	10	Sapling/Pole	4	
Bigtooth Aspen	50	Pole/Sapling	5	28

**24** 4112 - Maple, Beech, Cherry Association Sapling Well 35.0 17 Immature N/A Stand thinned 2006.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	85	Sapling	2	17	Red Maple	High	10 - 20 feet	Sapling
White Oak	5	Log	14					
Black/Red (Hybrid) Oak	5	Sapling	2					
Black/Red (Hybrid) Oak	5	Log	16	103				

**25** 4130 - Aspen Sapling Medium 30.7 5 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	2	Log/Pole	10		Black/Red (Hybrid) Oak	Trace	< 5 feet	Sapling
Bigtooth Aspen	78	Sapling	1	5	White Oak	Trace	< 5 feet	Sapling
Red Maple	20	Sapling	1					

**26** 4199 - Other Mixed Upland Deciduous Sapling Poor 85.5 5 1-50 N/A Stand was treated in Winter 2018 with timber sale # "63-031-15-01", "Magic Mike".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole/Sapling	6		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	15	Sapling	1		Black Cherry	Low	< 5 feet	Sapling
White Oak	10	Log	14		White Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	25	Log	16	106	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Maple	45	Sapling	1	5	White Pine	Low	< 5 feet	Sapling

**27** 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 17.1 28 1-50 N/A Harvested 1995. Scattered overstory oak.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	XLog	20	
Jack Pine	30	Sapling	4	
Black Cherry	15	Sapling	4	
Black/Red (Hybrid) Oak	50	Sapling	4	28



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>29</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	59.6	28	Unspecified	N/A	Some pockets of older oak.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		10	Pole	8			
Black Cherry		10	Sapling	4			
Bigtooth Aspen		50	Pole/Sapling	5	28		
Black/Red (Hybrid) Oak		10	Sapling	4			
Red Maple		20	Sapling/Pole	4			

<b>30</b>	4131 - Aspen, Oak	Sawtimber Well	97.2	55	51-80	N/A	Spotty oak and aspen clones.
Canopy Species		% Cover	Size Class	DBH	Age		
White Oak		15	Log	12			
Bigtooth Aspen		50	Pole/Log	10	55		
Black/Red (Hybrid) Oak		25	Log	16			
White Pine		2	Pole/Sapling	6			
Red Maple		8	Log/Pole	10			
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		High	10 - 20 feet	Sapling			

<b>31</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	42.6	28	1-50	N/A	Stand harvested 1995.
Canopy Species		% Cover	Size Class	DBH	Age		
Black/Red (Hybrid) Oak		15	Sapling/Pole	4			
Red Maple		15	Sapling/Pole	4			
Bigtooth Aspen		50	Pole/Sapling	5	28		
Black Cherry		20	Sapling	4			

<b>32</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	53.7	10	Immature	N/A	Small pocket of hand-planted spruce. Previous comments: Harvested 2012. Scattered overstory oak.
Canopy Species		% Cover	Size Class	DBH	Age		
Black/Red (Hybrid) Oak		5	Sapling	2			
Black Cherry		5	Sapling	2			
Red Maple		40	Sapling	2	10		
White Oak		10	Sapling	2			
White Pine		5	Sapling	2			
Bigtooth Aspen		35	Sapling	2			
Sub-Canopy Species		Density	Avg. Height	Size			
White Oak		Medium	< 5 feet	Sapling			
Black/Red (Hybrid) Oak		Low	< 5 feet	Sapling			

<b>33</b>	4130 - Aspen	Poletimber Well	13.9	45	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		10	Log	12			
Bigtooth Aspen		60	Pole	7	45		
Red Maple		20	Pole	7			
Black/Red (Hybrid) Oak		10	Pole	6			
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Low	5 - 10 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
34	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	30.6	48	81-110	N/A	Stand thinned 1995. Understory is flush with red maple and a touch of oak throughout. Where the stand was thinned heavily, red maple is dominant. Stand can hold 10 years.																																																	
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35	4126 - White, Black, N. Pin Oak	Sawtimber Well	33.7	103	51-80	N/A	Stand thinned 2006. Heavy red maple filling in canopy gaps.																																																	
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36	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	34.3	15	81-110	N/A																																																		
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37	4199 - Other Mixed Upland Deciduous	Sapling Poor	70.7	6	1-50	N/A	Stand was treated in Winter 2017 with timber sale # "63-031-15-01", "Magic Mike".																																																	
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38	330 - Low-Density Trees	Nonstocked	24.0	0	Unspecified	412 - Oak Types	Stand was treated in Spring 2018 with timber sale # "63-033-15-01", "Hill Folk Oak." Stand is regenerating well. Deer browse is heavy.																																																	
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39	6239 - Mixed Emergent Wetland	Nonstocked	2.6		Unspecified	No	Wet area																																																	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**40** 4199 - Other Mixed Upland Deciduous Poletimber Well 45.9 26 1-50 N/A Thinned 1997. Canopy gaps filled in with red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	2	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	28	Log	16	105	Red Maple	High	10 - 20 feet	Sapling
White Pine	5	Pole/Sapling	5		White Oak	Low	5 - 10 feet	Sapling
Red Maple	55	Sapling/Pole	4	26				
White Oak	10	Log	16					

**42** 4130 - Aspen Poletimber Well 39.8 39 51-80 N/A Variable BA and diameter. Some patchy openings.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	5	
Bigtooth Aspen	65	Pole	6	39
White Oak	5	Pole/Log	8	
Black/Red (Hybrid) Oak	10	Log/Pole	10	

**43** 42101 - Planted White Pine, Mixed Deciduous Poletimber Well 6.5 67 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	10	Log	12		Red Maple	High	10 - 20 feet	Sapling
White Pine	75	Log/Pole	10	67	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	10	Log	14					
Red Pine	5	Pole	10					

**44** 4139 - Aspen, Mixed Deciduous Poletimber Well 12.3 28 1-50 N/A harvested 1995

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	15	Sapling/Pole	3	
Black/Red (Hybrid) Oak	10	Sapling/Pole	4	
Bigtooth Aspen	45	Pole/Sapling	5	28
White Oak	5	Sapling	3	
Red Maple	25	Sapling/Pole	4	

**45** 4199 - Other Mixed Upland Deciduous Sapling Poor 68.9 5 1-50 N/A Stand was treated in Spring 2018 with timber sale # "63-033-15-01", "Hill Folk Oak".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Sapling	1	5	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Bigtooth Aspen	20	Sapling	1		White Oak	Low	< 5 feet	Sapling
White Oak	15	Log	14		White Pine	Medium	< 5 feet	Sapling
Black/Red (Hybrid) Oak	20	Log	16	100				
White Pine	5	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**46** 4130 - Aspen Poletimber Well 107.6 39 51-80 N/A Decent pole stand. Restart next entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Pole	5		White Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen	60	Pole/Sap/Log	8	39				
Red Maple	25	Pole/Sapling	7					

**47** 6239 - Mixed Emergent Wetland Nonstocked 1.9 Unspecified No

**48** 42101 - Planted White Pine, Mixed Deciduous Poletimber Well 87.7 67 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling/Pole	4		Red Maple	High	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	10	Pole/Log	9					
White Oak	5	Pole/Log	8					
Red Pine	5	Pole	8					
White Pine	64	Pole	8	67				
Bigtooth Aspen	1	Sapling/Pole	4					

**49** 4199 - Other Mixed Upland Deciduous Poletimber Well 17.4 28 1-50 N/A Stand thinned mid 1990's. Overstory oak that has filled in with red maple clumps.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	25	Pole	6		Red Maple	High	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	25	Log/Pole	10	86				
Red Maple	50	Pole	6	28				

**50** 4119 - Mixed Northern Hardwoods Sapling Poor 22.3 15 Immature N/A Stand harvested 2008.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	20	Sapling	2	
Black/Red (Hybrid) Oak	20	Sapling	2	
Bigtooth Aspen	5	Sapling	2	
Red Maple	55	Sapling	2	15

**51** 4130 - Aspen Poletimber Well 92.2 29 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	30	Pole/Sapling	5					
Bigtooth Aspen	60	Pole/Sapling	5	29				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**52**      4130 - Aspen      Poletimber Well      48.8      38      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	17	Pole/Sapling	6		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	60	Pole/Sap/Log	8	38				
White Pine	2	Pole/Sapling	5					
Red Maple	10	Pole	4					
Black/Red (Hybrid) Oak	10	Pole	4					
Jack Pine	1	Pole/Sapling	5					

**53**      4122 - Oak, Pine      Poletimber Well      7.7      58      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	10	Pole	10	
Black/Red (Hybrid) Oak	60	Log/Pole	11	58
White Pine	30	Pole/Sapling	7	

**54**      4139 - Aspen, Mixed Deciduous      Poletimber Well      106.5      39      51-80      N/A      Variable ages and diameters throughout stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole	5		Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	58	Pole	6	39				
Black/Red (Hybrid) Oak	10	Pole	6					
White Oak	5	Pole/Sapling	5					
White Pine	2	Pole	6					

**55**      122 - Road/Parking Lot      Nonstocked      1.7      0      Unspecified      No