



# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 63030

Entry Year 2025

Acreage: 2,477

County Osceola

Management Area: Cadillac Moraines

**Stand Examiner:** James Park

### Legal Description:

T18N, R09W, Sections 2-4, 10, 11

### 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.

This management area contains one or more of the northern Lower Peninsula Grouse Enhanced Management Systems areas. This area plan will emphasize balanced age classes of aspen for timber production which will have habitat benefits for a number of the featured species including ruffed grouse. The boundaries of Grouse Enhanced Management Systems areas will be delineated and an operational plan will be developed during this planning period by the local biologist in collaboration with the Forest Resources Division unit manager and integrated into the plan through the revision process.

### Soil and topography:

Chelsea-Rubicon-Montcalm association (sands). Terrain is rolling and there are some steep hills within the compartment.

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

The state ownership is in contiguous blocks. Sections 10 and 11 have large areas of private ownership.

### Unique Natural Features:

Common loon just south of sections 4 and 11 and to the west and north/northeast. Blanding's turtle to south. Slippershell mussel to southeast. Wood turtle to southeast. Potential for secretive locust and ebony boghaunter in bogs. Potential for dusted skipper, grizzled skipper, and red-legged spittlebug in grassy openings.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

None.

### Watershed and Fisheries Considerations:

Fisheries Division has no objection to the proposed 2015 YOE forest treatments for Compartment 30.

### Wildlife Habitat Considerations:

Approximately 1400 acres of this compartment are lands purchased using State Game Fund.  
This compartment is one of two that make up the GEM area.

This compartment is located in the Highplains Ecosystem, Cadillac Subsection, LTA 1121. Soils in this area are characterized by well-drained loamy sands. The surrounding landscape is primarily forested with the exception of the areas surrounding the community of Evert to the southeast. Historically, this area was composed of mesic forest types. Presently, early serial stage northern and central hardwoods dominate the landscape, with a mixed pine component present, mostly plantings. Regeneration of the oak component both within the aspen and northern hardwood types is a concern for long term sustainability. Red maple and cherry generally regenerate well in heavily thinned stands. Wildlife habitat objectives are to continue to manage for high structural diversity within stands and age class diversity across the compartment, including early successional stands that benefit species such as ruffed grouse, and white tail deer. Down and dead woody debris is a consideration for aspen and hardwood stands.

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

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 800 and 1,000 feet. Beneath the glacial drift are 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 three miles to the southeast, but gravel potential is considered to be good. The compartment lies two miles northwest of Evert Field. The field has produced over 3.8 million BO from the Devonian Dundee Limestone and over 5 Bcf gas from the Stray sandstone. Several older shallow wells have been drilled in this area without success. Section 2 is currently leased for oil and gas development and also nonmetallic mineral potash exploration.

**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:**

A 1/2 mile of the Evert Motorcycle Trail runs north/south along the Southwestern boundary of this compartment. The Evert Motorcycle trail is designated by a directors order as a cycle trail only, therefore, efforts to keep the trail narrow are encouraged. Providing for "leave trees" and protecting understory brush at locations where larger ORV's could enter the cycle only trail are preferred management tools in this trail area. Trees harvested directly adjacent to the trail should be cut flush to the ground to reduce accidents caused by stumps. Additional trail protection specifications should be considered to reduce impacts to trail users, as well as serve as an example of how sound timber harvesting methods can co-exist, and often improve recreation and wildlife experiences for future generations. Additional recreation activities include gathering of berries, and mushrooms.

**Fire Protection:**

Very few fires have started in the compartment. Fuels during early season could cause a larger fire. Recreational opportunities would be the main cause of any fire starts. Most of the unit has limited access with only a limited maintenance county road crossing through. The remote location increases the likelihood of a wildfire going undetected for an extended period of time. (B. Tower, 2013).

**Additional Compartment Information:**

The following reports from the Inventory are attached:

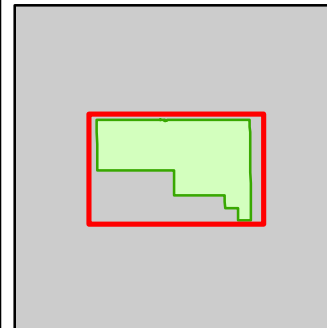
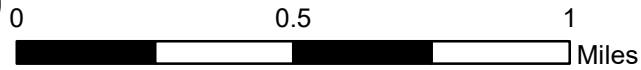
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

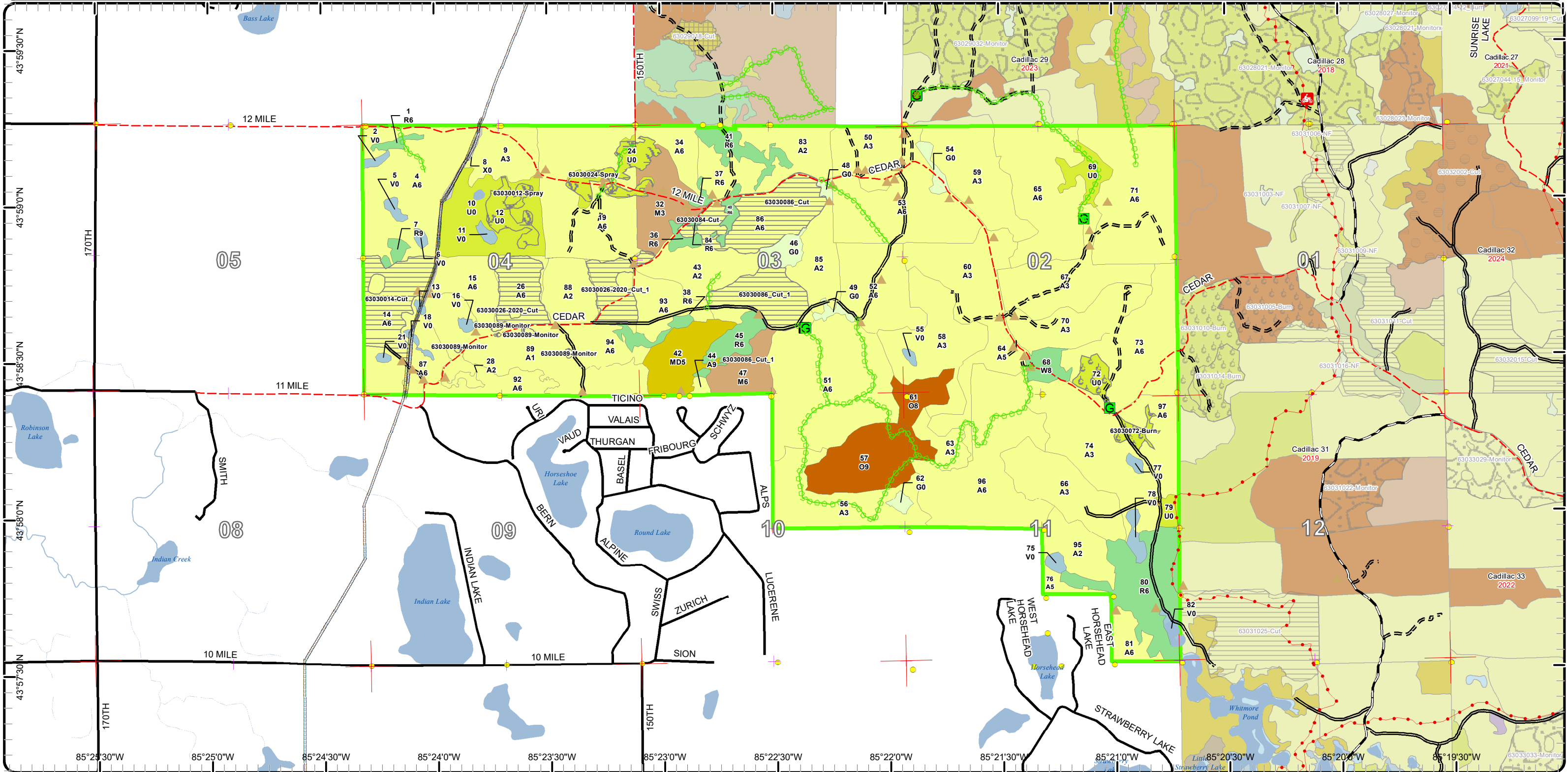
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 30  
 T18N-R09W Sec. 2-4,10-10-11  
 County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Cadillac Moraines  
 YOE: 2025  
 Acres: 2476.6 GIS Calculated  
 Examiner: James Park  
 Map Revised: 10/19/2023  
 Map Phase: Post-Maps



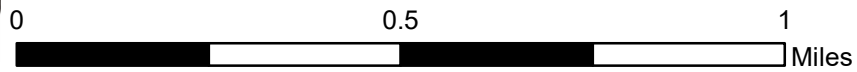
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Designated Hunter Walking Trails
- ORV License & Trail Permit
- ▲ Berms
- G Gate
- P Parking Lot
- ✱ Trailhead
- Intermittent Stream
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- Clearcut (w/Reserves)
- Prescribed Burn
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



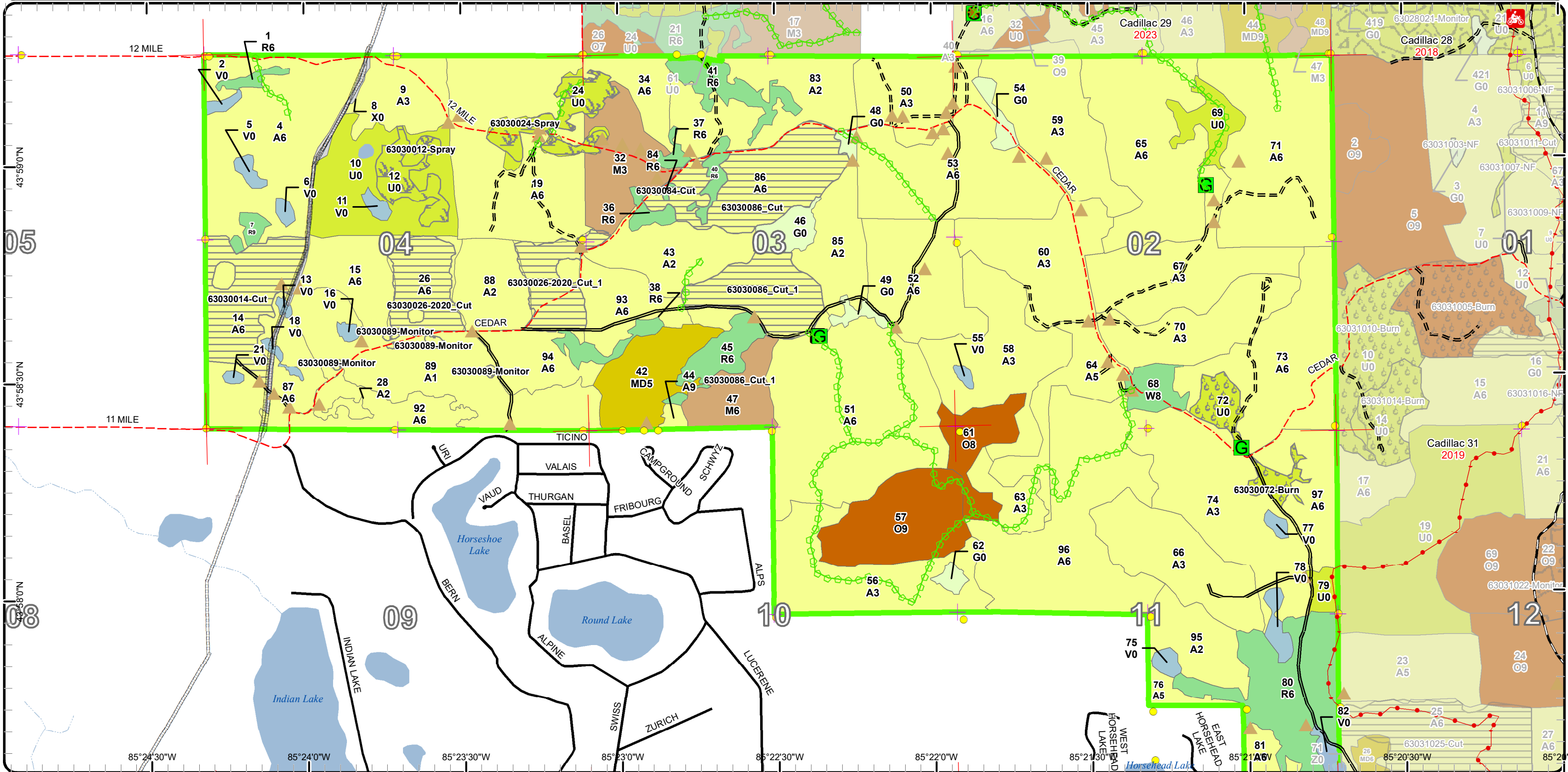


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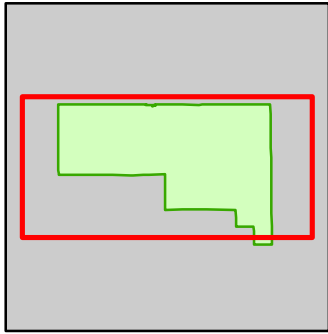
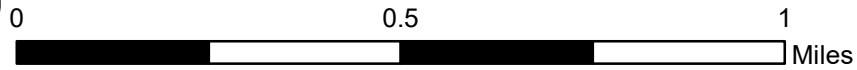
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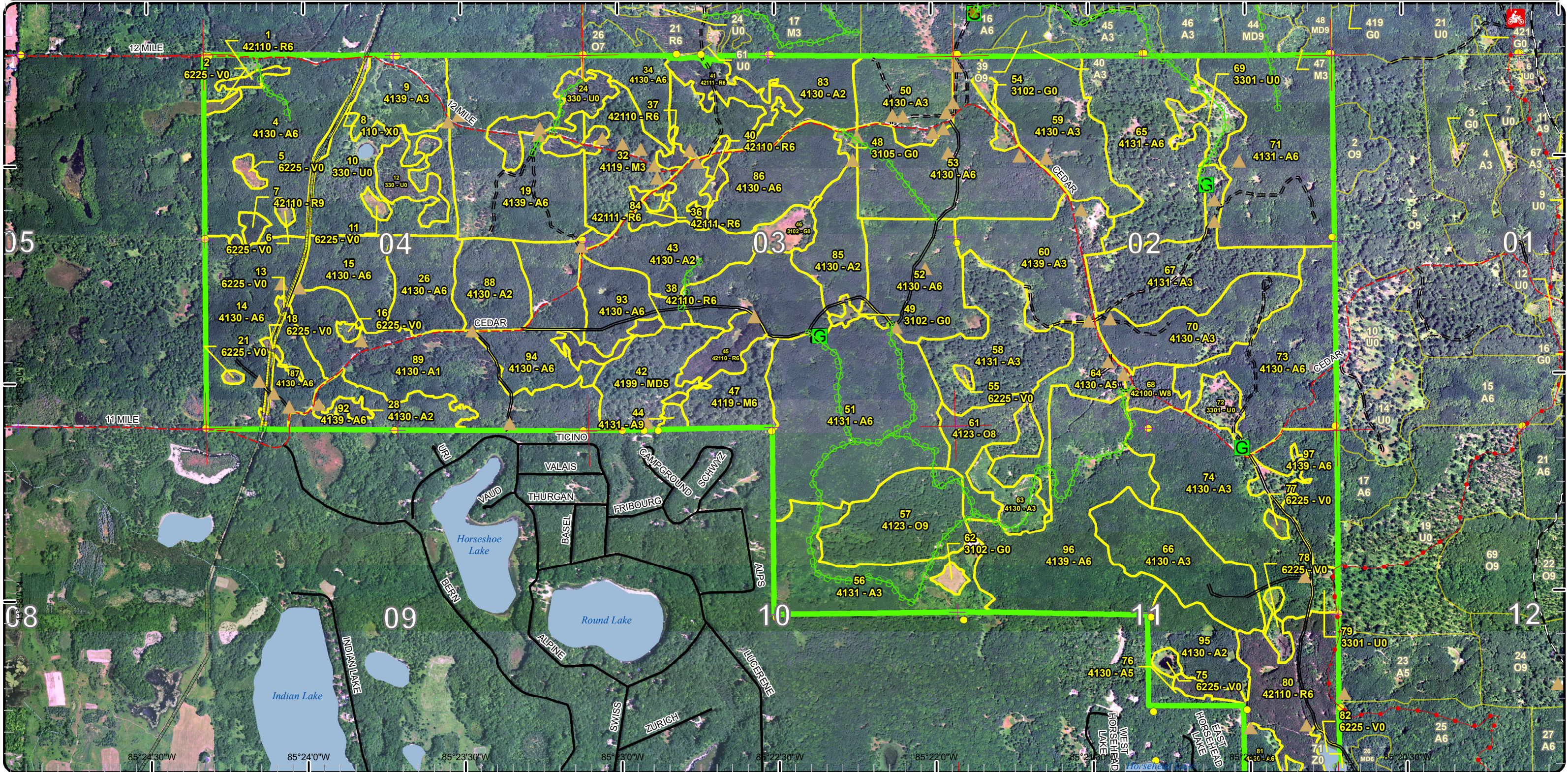


# Stand Boundary Map

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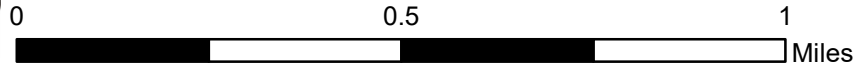
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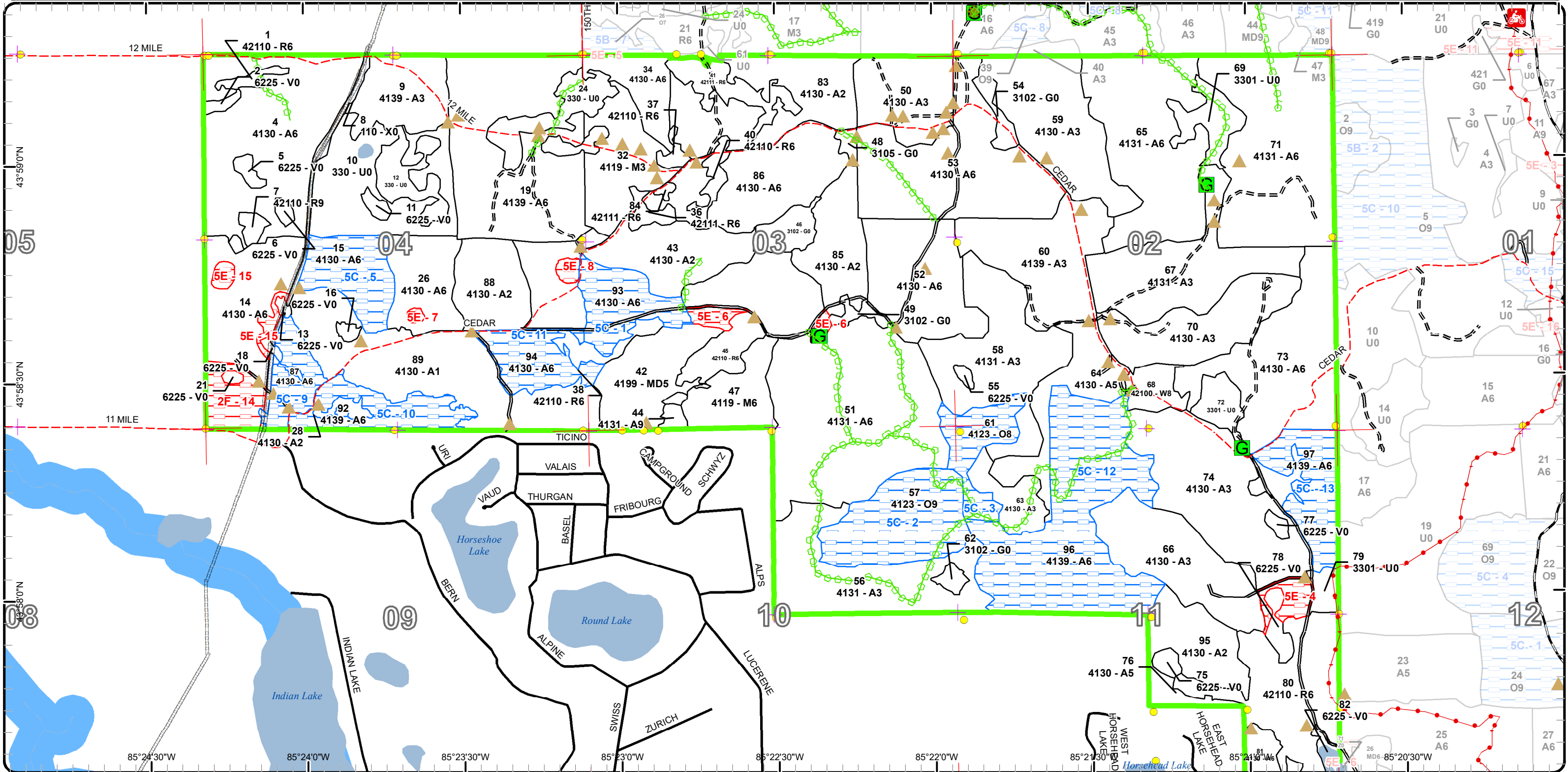


# Special Conservation Areas

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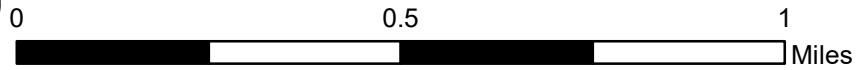


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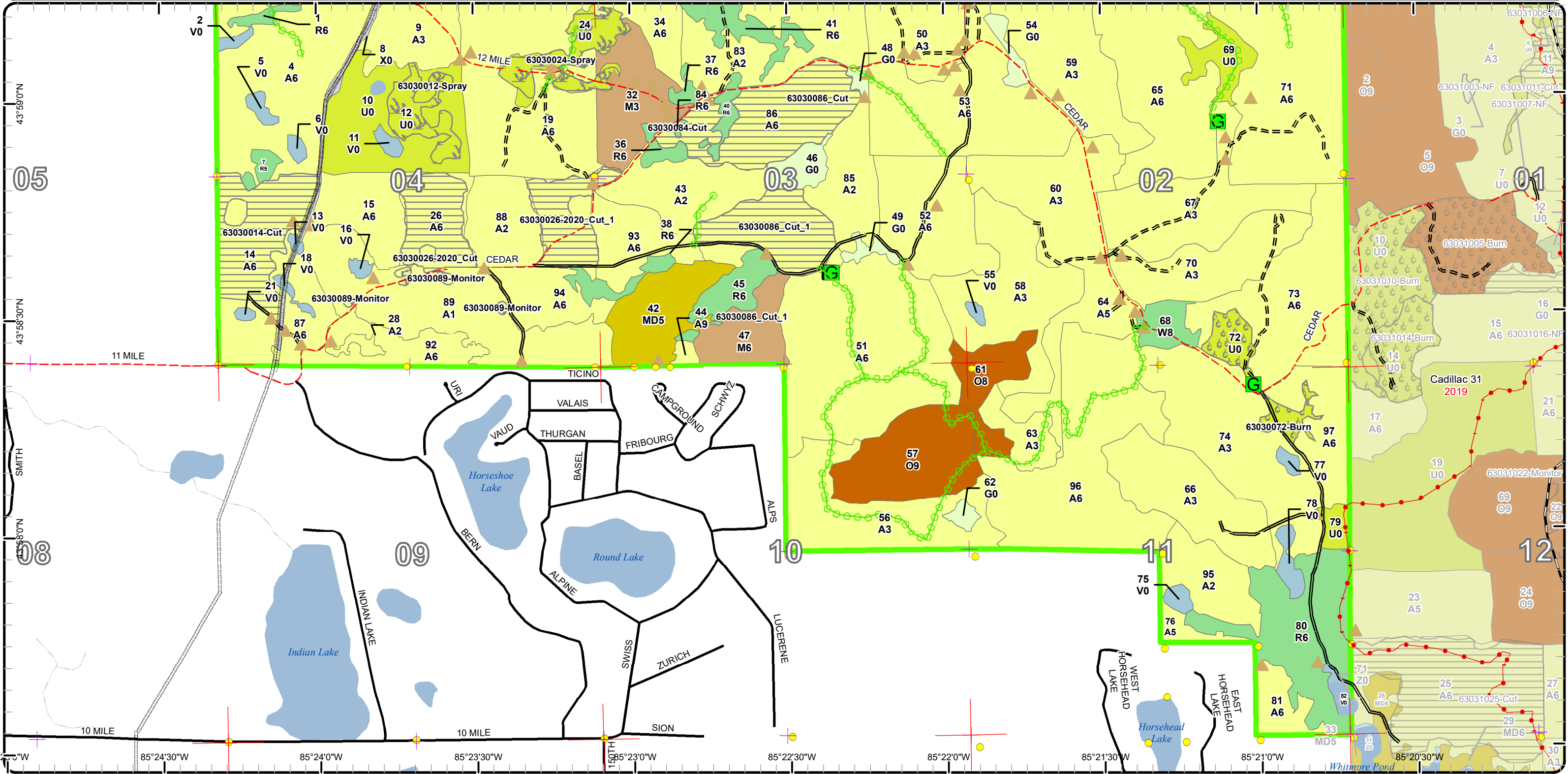


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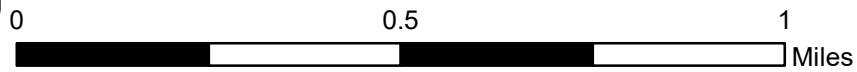
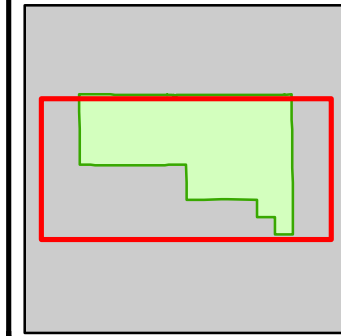
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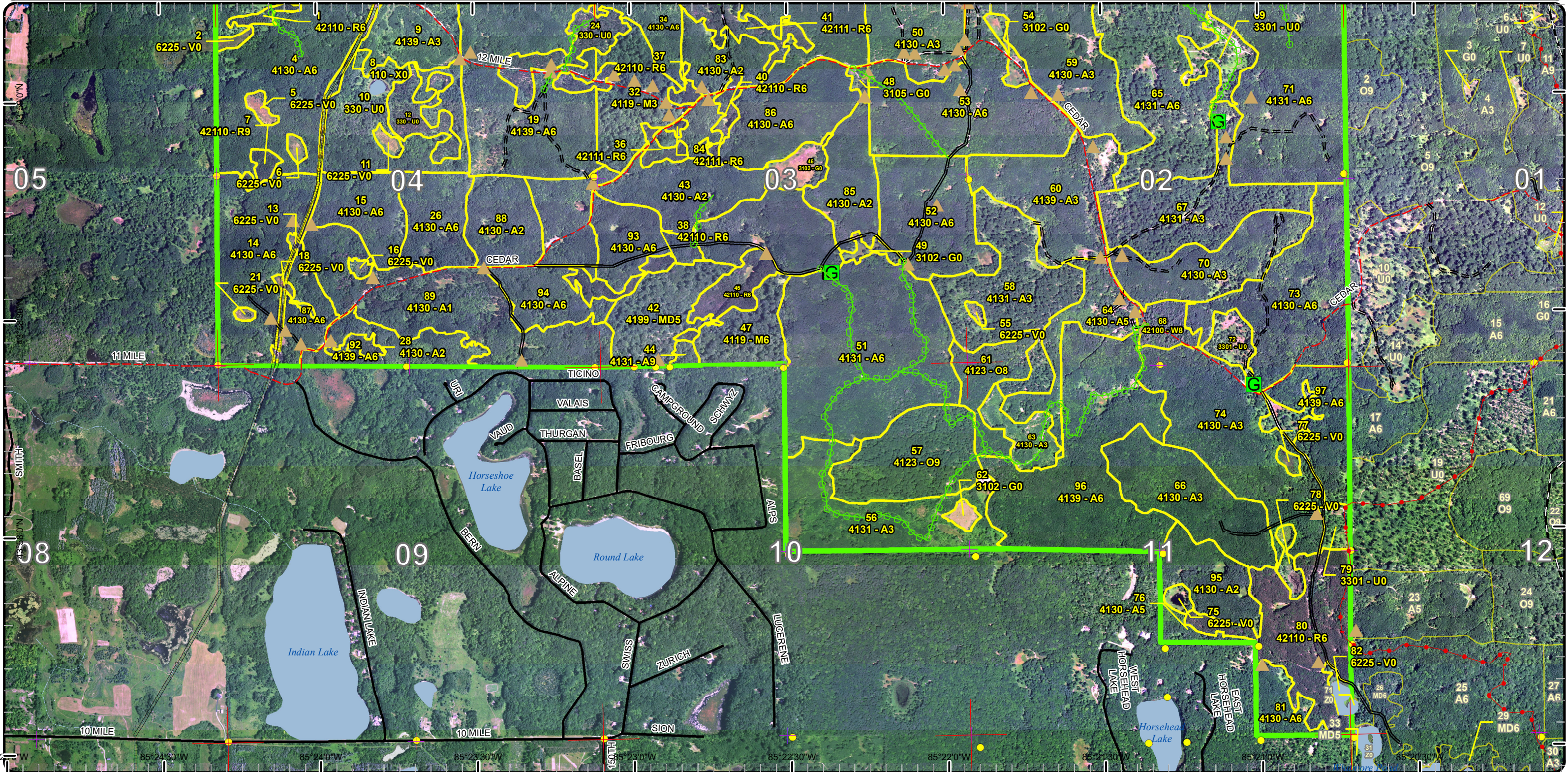


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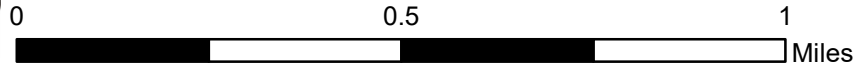
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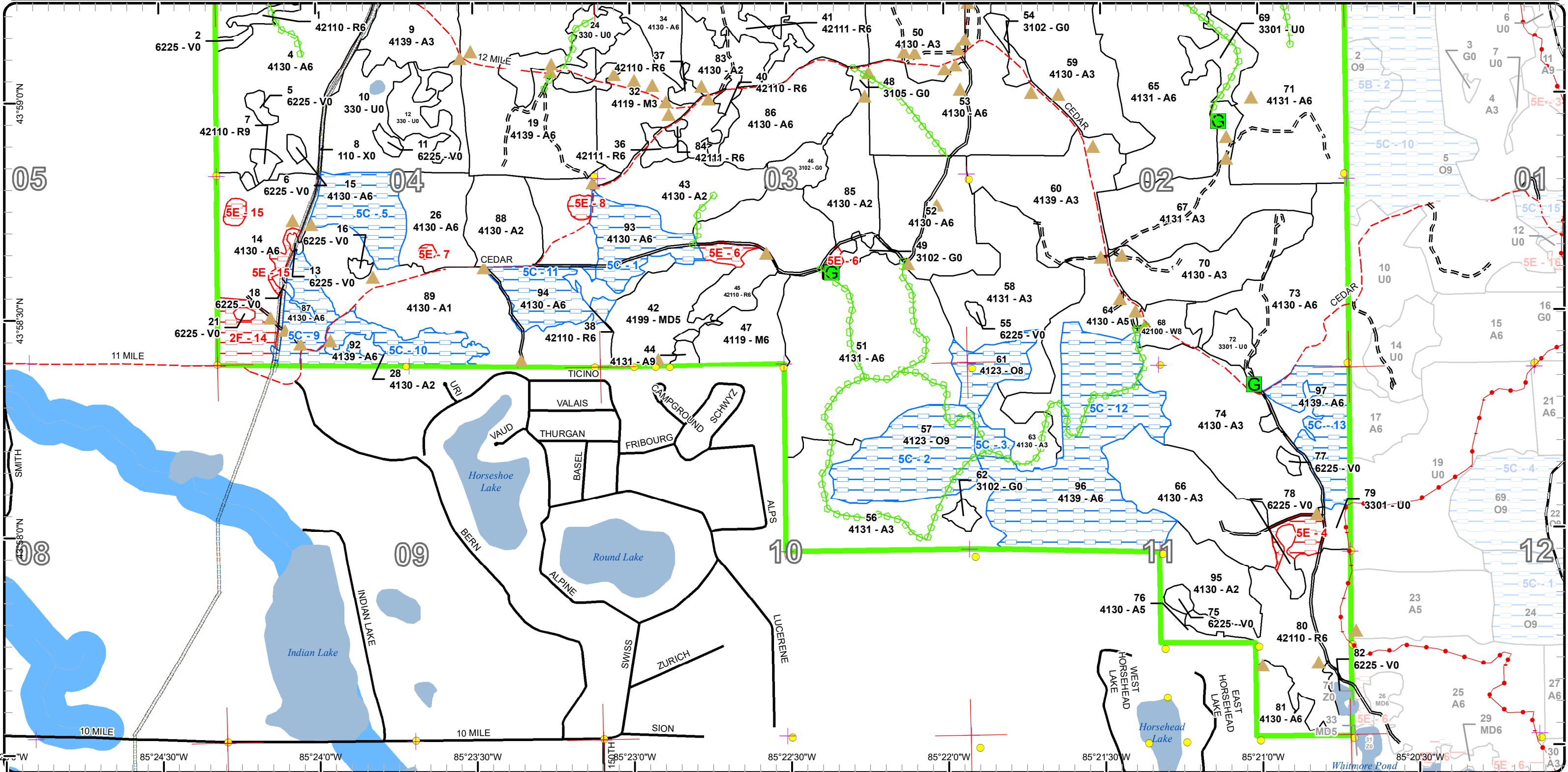


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Report 1 – Total Acres by Cover Type and Age Class



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	390	244	243	470	432	135	90	3	0	0	0	0	0	0	0	0	0	2005
Bog	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Low-Density Trees	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
Mixed Upland Deciduous	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Oak	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	70
Red Pine	0	0	0	0	0	0	0	117	0	0	0	0	0	0	0	0	0	0	117
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	10
<b>Total</b>	<b>181</b>	<b>390</b>	<b>244</b>	<b>335</b>	<b>470</b>	<b>432</b>	<b>135</b>	<b>218</b>	<b>3</b>	<b>0</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2475</b>





## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 30

Total Compartment Acres: 2,477

Commercial Harvest - 173  
 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	172	0	0	0	0	0	0	0	0	172
Red Pine	1	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>173</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>173</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	173	0	0	0	17	35	2	0	0	226
Next Step	0	0	54	0	17	20	41	0	0	131
<b>Total</b>	<b>173</b>	<b>0</b>	<b>54</b>	<b>0</b>	<b>33</b>	<b>54</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>358</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:**

14	63030014-Cut	40.1	4130 - Aspen	Poletimber Well	49	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention. Use wet area protection spec. Do not cut paper birch. Use grouse drumming log spec. Stand size may vary due to wet areas within the stand.</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 Regen:</u> Aspen spp., maple spp., oak spp., paper birch, pine spp., black cherry</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
72	63030072-Burn	16.5	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	Burn	Opening	310 - Herbaceous Openland		No
<p><u>Prescription</u> Burn on 3-5 year rotation</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Last burned in 2016.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

**Approved Treatments:**

12	63030012-Spray	14.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> TMS will decide.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red Pine</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2023</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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<b>24</b>	<b>63030024-Spray</b>	19.6	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
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Prescription  
Specs:

Next Step Pesticide, Other - Specify; Planting, Initial Plant; ; Planting, Initial Plant  
Treatments:

Acceptable plant red pine  
Regen:

Other Percent to Treat = 100%  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>26</b>	<b>63030026-2020_Cut</b>	25.0	4130 - Aspen	Poletimber Well	48	Unspecified	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
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Prescription Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest.  
Specs: Use grouse spec. in timber sale leaving at least 1, 10" or larger log-length (8 foot minimum) piece on the ground for every 2 acres and at least 6 large tops per acre.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2019

<b>26</b>	<b>63030026-2020_Cut_1</b>	22.2	4130 - Aspen	Poletimber Well	48	Unspecified	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
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Specs: Use grouse spec. in timber sale leaving at least 1, 10" or larger log-length (8 foot minimum) piece on the ground for every 2 acres, and at least 6 large tops per acre.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2019

<b>84</b>	<b>63030084-Cut</b>	0.9	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	65	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Cut all species. No retention due to small acreage.  
Specs:

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

Acceptable aspen, red maple, oak, red pine  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 9 /9 /2020





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>86 63030086_Cut</b>	52.2	4130 - Aspen	Poletimber Well	62	141-170	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest.</p> <p><u>Specs:</u> Use grouse spec. in timber sale leaving at least 1, 10" or larger log-length (8 foot minimum) piece on the ground for every 2 acres, and at least 6 large tops per acre.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										
<b>86 63030086_Cut _1</b>	32.7	4130 - Aspen	Poletimber Well	62	141-170	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest.</p> <p><u>Specs:</u> Use grouse spec. in timber sale leaving at least 1, 10" or larger log-length (8 foot minimum) piece on the ground for every 2 acres, and at least 6 large tops per acre.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										
<b>89 63030089-Monitor</b>	2.3	4130 - Aspen	Sapling Poor	4	Immature	Monitoring	Artificial Regen(3yr)	42310 - Planted Spruce	Even-Aged	No
<p><u>Prescription</u> Approximately 2000 white spruce plugs were hand planted in trenched rows that were originally meant for red pine. Monitor next year of entry</p> <p><u>Specs:</u> to determine if these need to be typed out as their own stands.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Spruce, white pine or jack pine</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Total Treatment 226.4**  
**Acreage Proposed:**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
James Park : Examiner

Compartment: 30  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2F	5E
		With Condition	Not Available				
2006	1717	<b>254</b>	35	Aspen	<b>254</b>	15	20
28	28	<b>0</b>	0	Bog			
23	23	<b>0</b>	0	Herbaceous Openland			
122	122	<b>0</b>	0	Low-Density Trees			
34	34	<b>0</b>	0	Mixed Upland Deciduous			
58	58	<b>0</b>	0	Northern Hardwood			
70	0	<b>70</b>	0	Oak	<b>70</b>		
117	117	<b>0</b>	0	Red Pine			
8	8	<b>0</b>	0	Urban			
11	11	<b>0</b>	0	White Pine			
2,477	2,118	<b>324</b>	35	Total Forested Acres	<b>324</b>	15	20
	86%	<b>13%</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
1	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	48	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

Cadillac Mgt. Unit  
James Park : Examiner

Compartment: 30  
Year of Entry: 2025

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for sale #63-020-20 "Instant Aspen".							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit  
James Park : Examiner**

**Compartment: 30  
Year of Entry: 2025**

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	106	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	5E: Long-Term Retention	5	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	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	42110 - Planted Red Pine	Poletimber Well	3.1	62	141-170	N/A	Red pine planted 1961 per FTP #33. No thinnings have occurred. Straight rows.																																																						
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2	6225 - Bog	Nonstocked	1.9		Unspecified	No	Leatherleaf bog.																																																						
4	4130 - Aspen	Poletimber Well	89.3	39	111-140	N/A	Stand treated timber sale #63-030-84-01. Overall diameters and densities vary. Steep slopes. Low, wet areas scattered throughout.																																																						
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8	110 - Low Intensity Urban	Nonstocked	7.5		Unspecified	No	MichCon gas pipeline.																																																						
9	4139 - Aspen, Mixed Deciduous	Sapling Well	29.5	17	Immature	N/A	Stand treated timber sale #63-017-05-01, "Gasline Aspen". Cut in 2006.																																																						
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16	6225 - Bog	Nonstocked	1.6		Unspecified	No	Leatherleaf bog																																																						
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19	4139 - Aspen, Mixed Deciduous	Poletimber Well	94.6	33	1-50	N/A	Stand treated timber sale #63-031-84-01, "Indian Lake #4". Previous comment: Area of 55 year old red pine less than 1 acre to the northwest of stand. Scattered red pine left over from timber sale #63-040-05-01, "Osceola ORP" to south/southwest with average BA of 50. Combined scattered red pine with aspen due to low BA and encroaching hardwoods.																																												
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21	6225 - Bog	Nonstocked	1.0		Unspecified	No	Leatherleaf bog.																																												
24	330 - Low-Density Trees	Nonstocked	22.1	0	Unspecified	4211 - Planted Red Pine	Stand treated timber sale #63-040-05-01, "Osceola ORP". Planted per FTP#29 in 1961. Stand final harvested in 2019 as part of Grouse Gems sale # 63-010-15. Replant to red pine.																																												
26	4130 - Aspen	Poletimber Well	52.1	48	Unspecified	N/A	Stand treated timber sale #5-74A in 1975. Few scattered pockets of saplings and logs. A couple of small pockets of pole to log red pine.																																												
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28	4130 - Aspen	Sapling Medium	3.1	4	Immature	N/A	Stand treated timber sale #63-012-95-01, "6710 Corner Removal". Cut 1996. Sapling stand with pockets and scattered mature oak.																																												
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32	4119 - Mixed Northern Hardwoods	Sapling Well	34.4	27	1-50	N/A	Stand treated timber sale #63-012-95-01, "6710 Corner Removal". Cut 1996. Sapling stand with pockets and scattered mature oak.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>34</b>	4130 - Aspen	Poletimber Well	18.2	33	1-50	N/A	Stand treated #63-012-95-01, "6710 Corner Removal". Treated 1996.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		60	Pole/Sapling	5	33	Witch Hazel	
Red Maple		25	Sapling/Pole	4		Serviceberry (Juneberry)	
Red Oak		15	Sapling/Pole	3		Density	
						Avg. Height	
						Size	
<b>36</b>	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	4.3	65	81-110	N/A	Stand treated in Fall 2019 with timber sale # "63-010-15", "Grouse Gems". Third row thin. Planted per FTP# G-14 in 1958. Patchy openings throughout. Straight rows.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Oak		10	Log/Pole	14		Red Maple	
Red Pine		65	Pole/Log	9	65	Red Oak	
Red Maple		10	Pole/Log	7		Beech	
Red Oak		15	Log/Pole	14		Serviceberry (Juneberry)	
						Density	
						Avg. Height	
						Size	
<b>37</b>	42110 - Planted Red Pine	Poletimber Well	2.7	65	81-110	N/A	Stand planted per FTP# G-14, 1958. Straight rows.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Cherry		5	Pole/Log	7		Red Maple	
Red Pine		95	Pole/Log	8	65	Witch Hazel	
						Serviceberry (Juneberry)	
						Density	
						Avg. Height	
						Size	
<b>38</b>	42110 - Planted Red Pine	Poletimber Well	7.2	62	111-140	N/A	Stand planted per FTP#28, 1961. Straight rows. Stand treated in Fall 2019 with timber sale # "63-010-15", "Grouse Gems". Third row thin.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		100	Pole/Log	8	62	Red Maple	
						Red Oak	
						Black Cherry	
						Density	
						Avg. Height	
						Size	
<b>40</b>	42110 - Planted Red Pine	Poletimber Well	5.3	62	81-110	N/A	Stand treated in Fall 2019 with timber sale # "63-010-15", "Grouse Gems". Third row thin. Stand planted per FTP# 29, 1961.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		3	Log/Pole	12		Beech	
Black Cherry		2	Pole/Log	8		Witch Hazel	
Red Pine		95	Pole/Log	9	62	Red Oak	
						Red Maple	
						Density	
						Avg. Height	
						Size	
<b>41</b>	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	15.7	62	81-110	N/A	Stand planted per FTP# 29, 1961.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		15	Pole/Log	8			
Red Pine		80	Pole/Log	8	62		
Black Cherry		5	Log/Pole	10			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
42	4199 - Other Mixed Upland Deciduous	Poletimber Medium	34.3	25	1-50	N/A	Stand treated timber sale #63-016-96-01, "Dog Days Removal". Specs were to cut all red maple and big tooth aspen to 4" DBH, and oak between 6"-8" DBH.																																																
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43	4130 - Aspen	Sapling Medium	35.4	4	Immature	N/A	Stand treated in Fall 2019 with timber sale # "63-010-15", "Grouse Gems".Cut all trees except oak and black cherry.																																																
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44	4131 - Aspen, Oak	Sawtimber Well	2.5	75	81-110	N/A																																																	
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45	42110 - Planted Red Pine	Poletimber Well	14.5	62	111-140	N/A	2/07/20: Stand cut by Shawn Muma Forest Products in Timber Sale 63-010-15 "Grouse Gems". Third row thin pattern was changed to a take two, leave four after hill slopes made operating with one cut row difficult. Stand planted FTP# 29, 1961. Straight rows.																																																
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46	3102 - Grass	Nonstocked	9.6		Unspecified	No																																																	
47	4119 - Mixed Northern Hardwoods	Poletimber Well	23.7	25	1-50	N/A	Stand treated timber sale #63-016-96-01, "Dog Days Removal". Treated in 1998.																																																
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48	3105 - Mixed Upland Herbaceous	Nonstocked	2.5		Unspecified	No																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	3102 - Grass	Nonstocked	3.4		Unspecified	No			
50	4130 - Aspen	Sapling Well	34.1	26	1-50	N/A	Stand treated timber sale #63-211-95-01. Stand treated 1997.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Oak		15	Log/Pole	10					
Bigtooth Aspen		70	Sapling/Pole	4	26				
Red Maple		15	Sapling/Pole	4					
51	4131 - Aspen, Oak	Poletimber Well	119.9	43	51-80	N/A	Stand treated timber sale #31-78A, 1980.		
<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		30	Pole/Sapling	7		Serviceberry (Juneberry)	Medium	Variable	Tall Shrub
Black Cherry		5	Pole/Sapling	5		Witch Hazel	High	Variable	Tall Shrub
Bigtooth Aspen		45	Pole/Sap/Log	8	43				
Red Oak		20	Pole/Sapling	6					
52	4130 - Aspen	Poletimber Well	50.8	37	51-80	N/A	Stand treated in timber sale approximately 35 years ago but paperwork could not be found.		
<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		20	Pole/Sapling	6		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch		5	Sapling/Pole	4		Witch Hazel	High	Variable	Tall Shrub
Red Oak		15	Pole/Sapling	5					
Bigtooth Aspen		60	Pole/Sapling	6	37				
53	4130 - Aspen	Poletimber Well	81.1	43	111-140	N/A	Stand treated timber sale # 33-78A. Clearcut in 1980. Previous comment: A few white pine pulp along northeast edge with Cedar Road.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		70	Pole/Sap/Log	8	43	Tag Alder	Low	Variable	Tall Shrub
Paper Birch		5	Pole/Sapling	6		Sassafras	Low	>20 feet	Sapling
Red Oak		10	Pole/Sapling	6		Witch Hazel	High	Variable	Tall Shrub
Red Maple		15	Pole/Sap/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
54	3102 - Grass	Nonstocked	5.1		Unspecified	No	Few scattered deciduous trees.		
55	6225 - Bog	Nonstocked	1.3		Unspecified	No	Leatherleaf bog.		
56	4131 - Aspen, Oak	Sapling Well	60.5	14	1-50	N/A	Stand treated timber sale #63-029-06-01, "Exploration Aspen". Cut in 2009.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		20	Log/Pole	11		Witch Hazel	Medium	Variable	Tall Shrub
Bigtooth Aspen		58	Sapling	2	14	Blackberry/Raspberry	High	Variable	Tall Shrub
Red Maple		20	Pole/Sapling	7					
Paper Birch		2	Pole	6					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
57	4123 - Red Oak	Sawtimber Well	47.9	95	51-80	N/A	Stand treated timber sale #63-016-95-01, "Beaver Pond Hdwd". Cut in 1996. All trees except oak 10" and greater were cut.																																						
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58	4131 - Aspen, Oak	Sapling Well	61.0	15	Unspecified	N/A	Stand treated timber sale #63-075-06-01, "Hornet Aspen-Oak". Treated in 2008.																																						
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59	4130 - Aspen	Sapling Well	55.3	27	1-50	N/A	Stand treated timber sale #63-214-95-01, "Sugar Bowl Aspen & Oak". Cut in 1996.																																						
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60	4139 - Aspen, Mixed Deciduous	Sapling Well	53.0	27	Unspecified	N/A	Stand treated timber sale #63-214-95-01, "Sugar Bowl Aspen & Oak". Cut in 1996.																																						
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61	4123 - Red Oak	Sawtimber Medium	21.7	95	1-50	N/A	Keep for age class and species diversity.																																						
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62	3102 - Grass	Nonstocked	2.8		Unspecified		Old exploratory gas drilling rig site. Site did not prove to be productive.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>63</b>	4130 - Aspen	Sapling Well	14.1	14	Immature	N/A	Stand treated timber sale #63-005-07-01, "Hornet Aspen-Oak". Cut in 2009.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Sapling	2		Witch Hazel	Medium	Variable	Tall Shrub
Bigtooth Aspen		85	Sapling	2	14				
<b>64</b>	4130 - Aspen	Poletimber Medium	29.6	36	1-50	N/A	Stand treated timber sale #63-033-84-01, "Horsehead". Cut in 1986. Areas of grassy openings within stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		5	Pole/Sapling	5		Witch Hazel	Low	Variable	Tall Shrub
Bigtooth Aspen		70	Pole/Sapling	7	36				
Red Maple		25	Pole/Sapling	6					
<b>65</b>	4131 - Aspen, Oak	Poletimber Well	79.3	15	1-50	N/A	Stand treated #63-007-06-01, "Crop & Spurs". Treated in 2008.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		10	Sapling/Pole	3					
Red Oak		30	Log/Pole	11	95				
White Oak		10	Log/Pole	11					
Bigtooth Aspen		50	Sapling/Pole	3	15				
<b>66</b>	4130 - Aspen	Sapling Well	50.9	5	Immature	N/A	Stand was treated in September 2017. Sale name 'Finch A&P' '63-011-15'		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Bigtooth Aspen		70	Sapling	1	5				
Red Oak		5	Sapling	1					
Red Maple		25	Sapling	1					
<b>67</b>	4131 - Aspen, Oak	Sapling Well	57.3	27	1-50	N/A	Stand treated timber sale #63-015-95-01, "Rocky Road Removal". Cut in 1996.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Sapling/Pole	3		Red Oak	Low	< 5 feet	Sapling
Red Oak		25	Log/Pole	13	95	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		55	Sapling/Pole	3	27				
Black Cherry		5	Sapling	2					
<b>68</b>	42100 - Planted White Pine	Sawtimber Medium	10.5	65	51-80	N/A	Previous comment: Stand planted per FTP #G-15, 1958. There are a few white pine that are approximately 70 years in age. Hold for diversity.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Cherry		5	Pole	8		Black Cherry	Medium	5 - 10 feet	Sapling
Red Oak		3	Pole/Log	8		Red Maple	Medium	5 - 10 feet	Sapling
White Oak		2	Log/Pole	16		White Oak	Low	5 - 10 feet	Sapling
White Pine		85	Log/Pole	11	65	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Bigtooth Aspen		5	Pole	7		Red Oak	Low	5 - 10 feet	Sapling
<b>69</b>	3301 - Low Density Deciduous Trees	Nonstocked	13.8		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>70</b>	4130 - Aspen	Sapling Well	43.4	27	Unspecified	N/A	Stand treated timber sale #63-016-95-01, Beaver Pond Hdwd". Treated 1996. Few scattered log white pine.																																					
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<b>71</b>	4131 - Aspen, Oak	Poletimber Well	95.6	39	81-110	N/A	Stand treated timber sale #63-031-84-01, "Indian Lake #4". Cut in 1984.																																					
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<b>72</b>	3301 - Low Density Deciduous Trees	Nonstocked	16.5		Unspecified	No																																						
<b>73</b>	4130 - Aspen	Poletimber Well	70.1	37	51-80	N/A	Stand treated timber sale #63-033-84-01, "Horsehead". Cut in 1986.																																					
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<b>74</b>	4130 - Aspen	Sapling Well	78.6	1	Immature	N/A	Stand treated in 2022 as part of "Instant Aspen" (sale # 63-020-20). Final Harvest.																																					
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<b>75</b>	6225 - Bog	Nonstocked	2.8		Unspecified	No	Leatherleaf bog with cattails.																																					
<b>76</b>	4130 - Aspen	Poletimber Medium	6.5	37	Unspecified	N/A	Stand treated timber sale #63-033-84-01, "Horsehead". Cut in 1986.																																					
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79	3301 - Low Density Deciduous Trees	Nonstocked	5.4		Unspecified	No																																															
80	42110 - Planted Red Pine	Poletimber Well	59.6	62	111-140	N/A	Stand planted per FTP #31. Planted in 1961.																																														
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84	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	0.9	65	81-110	N/A	Planted per FTP# G-14 in 1958. Patchy openings throughout. Straight rows.																																														
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<b>88</b>	4130 - Aspen	Sapling Medium	27.6	4	Immature	N/A	2020: Stand treated as part of GROUSE HAVEN MIX (63-009-15). Cut in 2019.  Stand treated timber sale #5-74A in 1975. Few scattered pockets of saplings and logs. A couple of small pockets of pole to log red pine.																																													
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<b>89</b>	4130 - Aspen	Sapling Poor	83.3	4	Immature	N/A	There are 5 small pockets within the stand that have a monitoring treatment on them (63030089). These areas were previous red pine stands that were final harvested. The cultivation plan changed, so after trenching no spraying or planting of red pine occurred. We went out as a unit and planted approximately 2000 white spruce plugs. Monitor these pockets moving forward to determine if they need to be typed out as individual stands.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**92** 4139 - Aspen, Mixed Deciduous Poletimber Well 24.6 48 111-140 N/A Stand treated timber sale #5-74A, 1975.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sassafras	1	Log/Pole	10		Red Maple	High	10 - 20 feet	Sapling
Red Maple	30	Pole/Log/Sap	7		Witch Hazel	Medium	Variable	Tall Shrub
Beech	1	Pole/Sapling	6		Hawthorn (spp.)	Low	Variable	Tall Shrub
Red Oak	10	Log/Pole/Sap	11		Red Oak	Low	< 5 feet	Sapling
White Oak	4	Pole/Sap/Log	6		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Bigtooth Aspen	50	Pole/Sap/Log	9	48				
Paper Birch	4	Pole/Sap/Log	6					

**93** 4130 - Aspen Poletimber Well 26.2 48 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sap/Log	9	48
Bigtooth Aspen	70	Pole/Sap/Log	9	48
Red Pine	5	Pole/Log	8	
Black Cherry	5	Pole/Log	8	

**94** 4130 - Aspen Poletimber Well 23.3 48 111-140 N/A Stand treated timber sale #5-74A, 1975. Few small pockets of log to pole northern red oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log/Pole	11		Red Maple	High	10 - 20 feet	Sapling
Red Maple	25	Pole/Log	9		Witch Hazel	Medium	Variable	Tall Shrub
Bigtooth Aspen	65	Pole/Log	9	48	Black Cherry	Low	5 - 10 feet	Sapling

**95** 4130 - Aspen Sapling Medium 27.5 1 Immature N/A Stand treated in 2022 as part of "Instant Aspen" (sale # 63-020-20). Final Harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling	1	
Bigtooth Aspen	70	Sapling	1	1
Red Maple	20	Sapling	1	

**96** 4139 - Aspen, Mixed Deciduous Poletimber Well 105.5 50 51-80 N/A Stand treated timber sale approximately 40 years ago however, the paperwork could not be found. Varying densities and diameters.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	10	Pole	8		Beech	Medium	5 - 10 feet	Sapling
Red Oak	15	Pole/Log/Sap	6		Witch Hazel	High	Variable	Tall Shrub
Bigtooth Aspen	50	Pole/Log/Sap	8	50	Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Red Maple	20	Pole/Log	7		Red Maple	High	5 - 10 feet	Sapling
Paper Birch	5	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
97	4139 - Aspen, Mixed Deciduous	Poletimber Well	29.8	50	81-110	N/A	Stand harvested approx. 50 years ago. No paperwork could be located.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	7		Red Maple	High	5 - 10 feet	Sapling
Red Maple	20	Pole/Log	7		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Beech	10	Pole	8		Beech	Medium	5 - 10 feet	Sapling
Red Oak	15	Pole/Log/Sap	6		Witch Hazel	High	Variable	Tall Shrub
Bigtooth Aspen	50	Pole/Log/Sap	8	50				