



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63097

Entry Year 2023

Acreage: 1,237

County Missaukee

Management Area: Houghton Lake Wetlands

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**Revision Date:** 2021-06-16

**Stand Examiner:** Matt Edison

**Legal Description:**

T22N-R5W, Sections 27, 35, and 36

**Identified Planning Goals:**

The goals of this compartment are to manage for a diverse timber and age class to provide for recreational opportunities for the public. The Muskegon River Floodplains are a major component of this compartment.

**Soil and topography:**

Loamy sands, muck, frequently flooded. Mostly flat, wet and low terrain.

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

Mostly State ownership surrounds the compartment to the north and east. Blocks of private recreational land with seasonal and year-round residents to the south and west. The remaining areas of section 35 are recommended for acquisition to help fill-in State ownership and access. Past entry stated that all State lands in section 27 are currently being considered for potential disposal due to these lands being land locked. Access for previous management activities were through the private, Hi-Lo Ranch. Currently, (2021) access to section 27 is negotiable with Hi-Lo Ranch,

**Unique Natural Features:**

Wood turtle to west. Blanding's turtle to NE. Osprey, bald eagle, and great blue heron to SE and elsewhere in vicinity. Massasauga to S. Secretive locust to SW and SE. Grasshopper sparrow to N. Yellow rail to NE. Bigmouth shiner, rainbow (mussel) and slippershell mussel in Muskegon River and tributaries in vicinity. Alleghany plum to E. Potential for secretive locust and ebony boghaunter in bogs. Potential for wood turtle and other riverine species: bigmouth shiner, rainbow (mussel), and slippershell mussel. Potential for massasauga, Blanding's turtle, and box turtle. Potential for eagle, osprey, and great blue heron rookery. Potential for red-shouldered hawk. Limited potential for marsh birds: American bittern, least bittern, yellow rail, black tern, common moorhen, and marsh wren. Potential for calpyso and ram's head lady slipper in cedar swamps. Limited potential for rare plants of forested floodplains: ginseng, beak grass, and broad-leaved puccoon.

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

None identified

**Special Management Designations or Considerations:**

The Houghton Lake Wildlife Research Area; Porter Ranch, is directly adjacent to the north of this compartment. Retain all oak acreage for mast production.

**Watershed and Fisheries Considerations:**

No Fisheries comments at this time.

**Wildlife Habitat Considerations:**

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

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

No known potential exists for commercial metallic mineral production in this part of the state. Multiple active sand/gravel pits occur 2-4 miles to the west. The compartment lies in low outwash valley that is dominated by wetlands, and potential for sand & gravel development appears relatively low. The nearest oil & gas production, past or present, is more than four miles west, and there has been minimal exploration in and around the compartment. Potential for oil & gas from known

producing formations beneath the compartment is considered low at this time. There is no current mineral leasing activity in or around the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

The compartment is accessed from the Jeffs Rd. Vehicle access to the internal parts of the compartment are limited. Snowmobile trail associated road runs through the east edge of the compartment and outside the compartment across the north edge. Numerous two track and logging roads access forest stands in various places. Much of the compartment is very wet and not conducive to any vehicle traffic.

**Survey Needs:**

Survey potential in Section 27. However, there is existing maintained fence lines to be evaluated.

**Recreational Facilities and Opportunities:**

Snowmobile Trail #6/7 runs through the northern portion of the compartment east of Jeffs Rd. Numerous hunting opportunities exist throughout the compartment.

**Fire Protection:**

The area is a wet lowland marshy area. This would make wildfire control difficult for most of the suppression forces. The Muskegon River may provide for dispersed camping and remote campfires. 9-01-2011 BET

**Additional Compartment Information:**

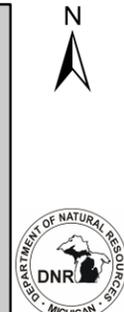
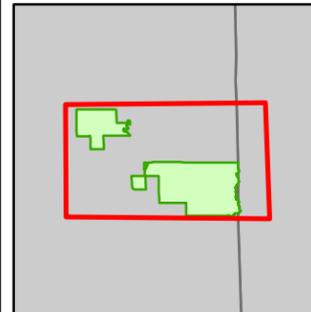
**The following reports from the Inventory are attached:**

- 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**

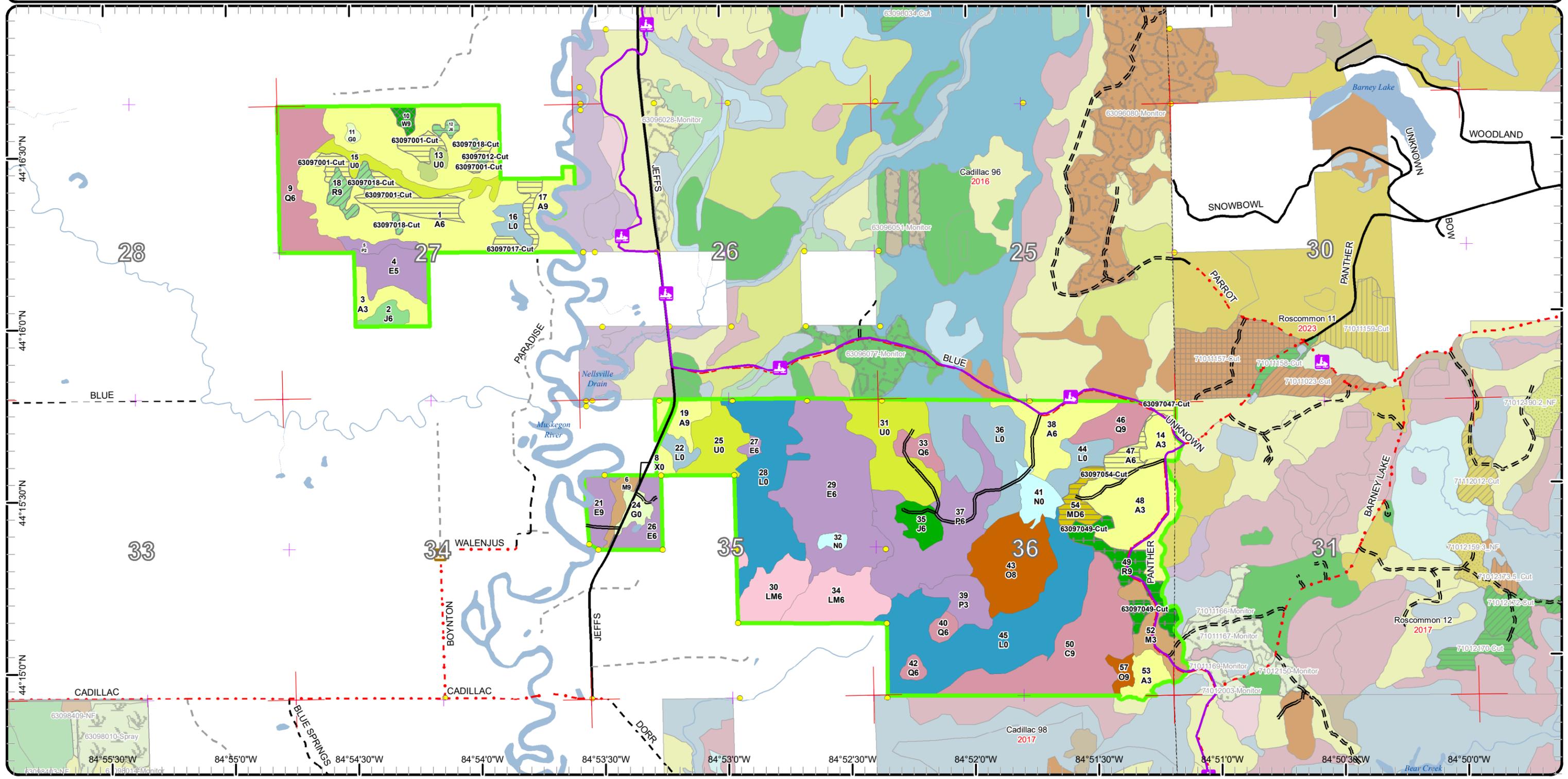
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

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 T22N R5W, Sec. 27, 35, and 36  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt Area: Houghton Lake  
 Wetlands  
 YOE: 2023  
 Acres: 1237 GIS Calculated  
 Examiner: Matt Edison  
 Map Revised: 6/16/2021  
 Map Phase: Web-Post

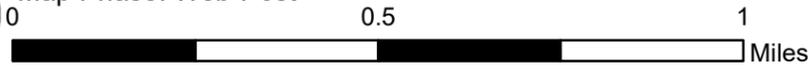


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
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- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
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- 🟩 Compartment Boundary
- 🏠 Selection (Group, Single Tree)
- 🏠 Clearcut (w/Reserves)
- 🏠 Harvest, Overstory Removal
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- 🌲 411 - Northern Hardwood
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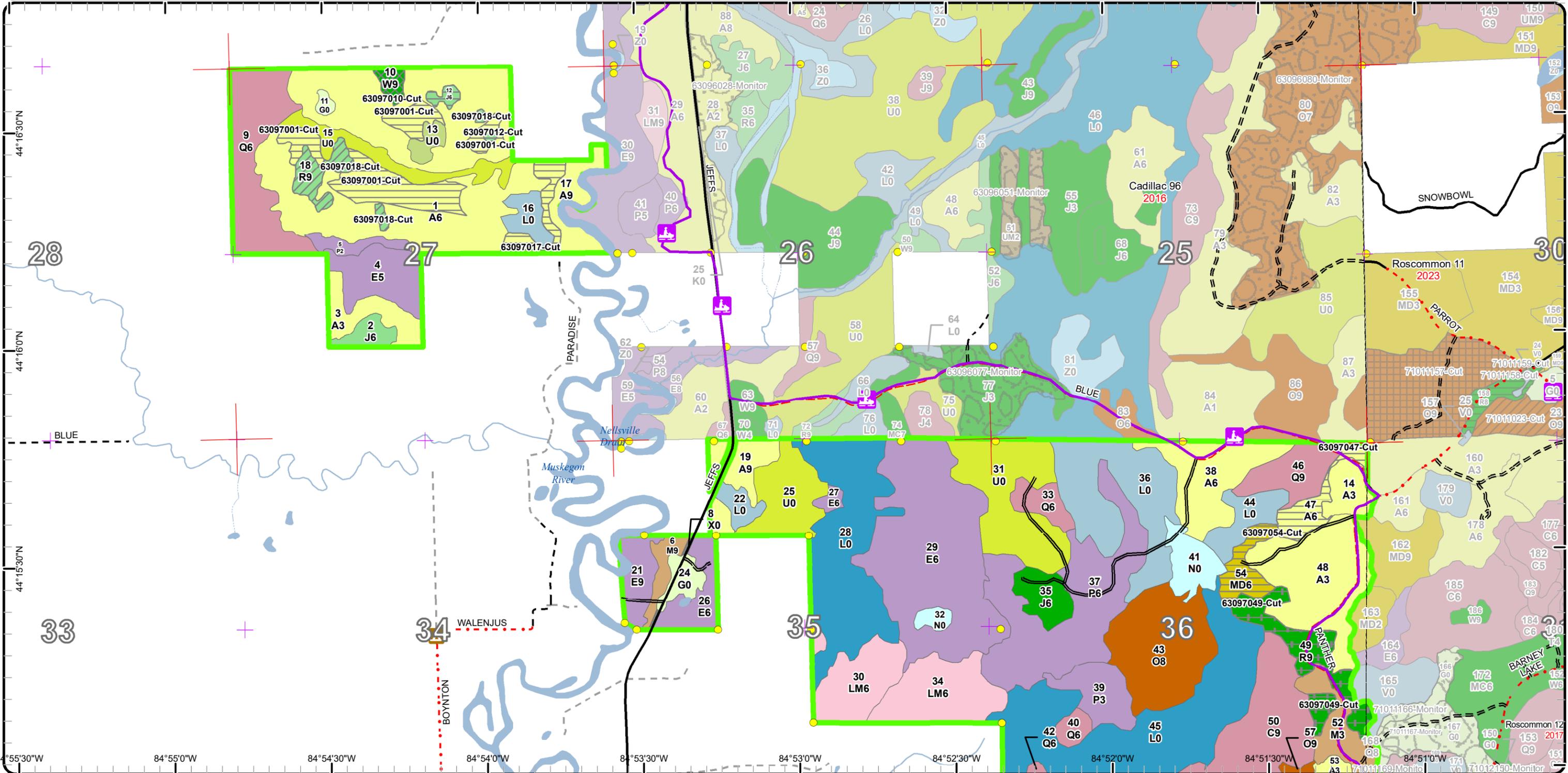


# Cover Type & Treatments Map

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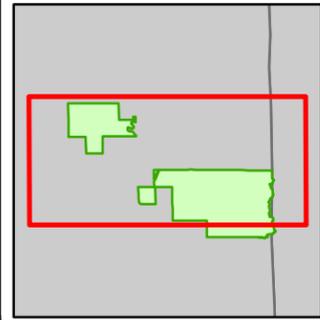


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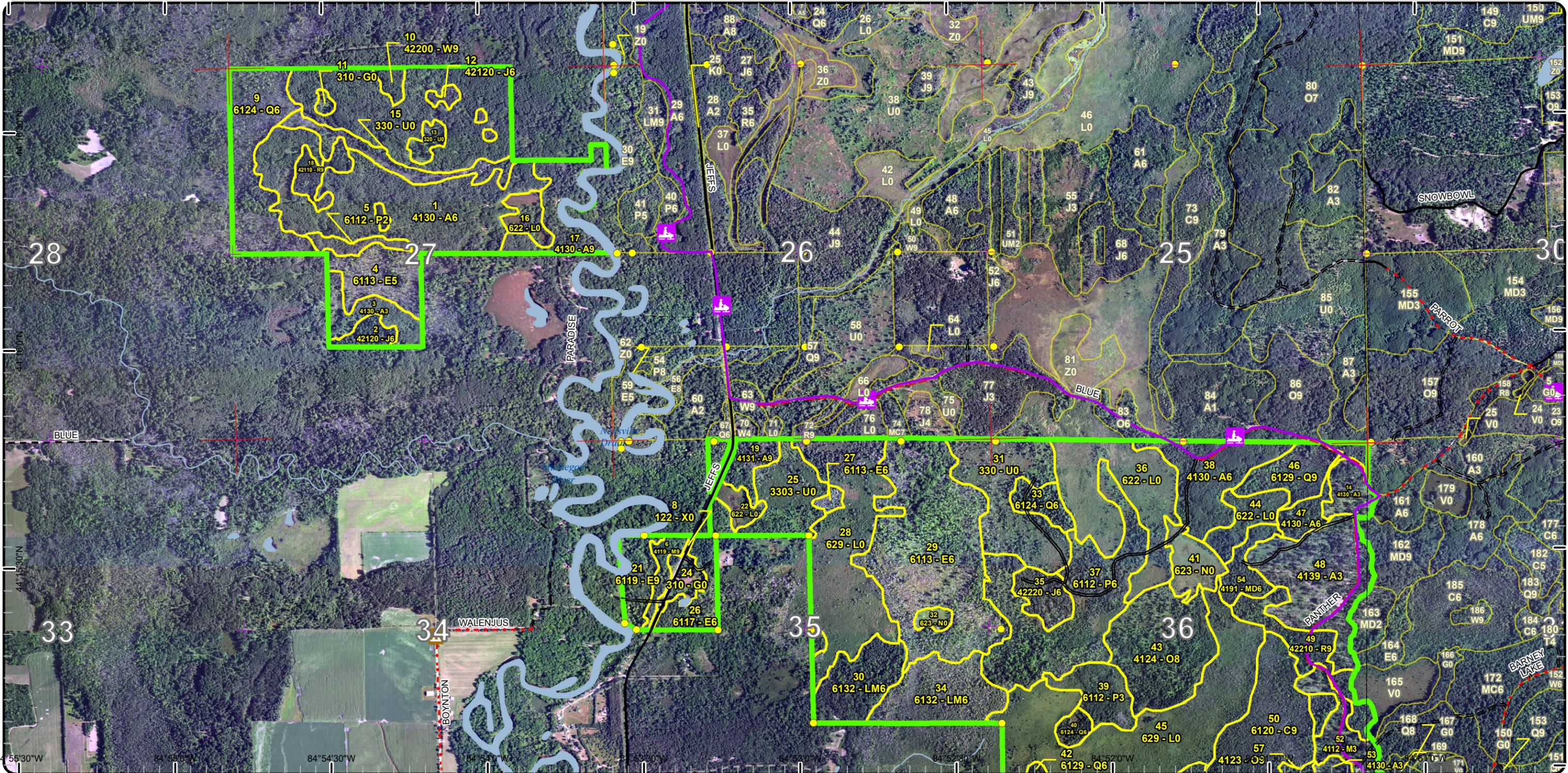


# Stand Boundary Map

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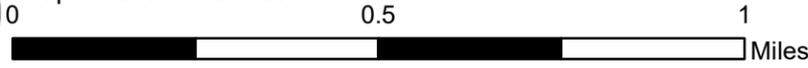


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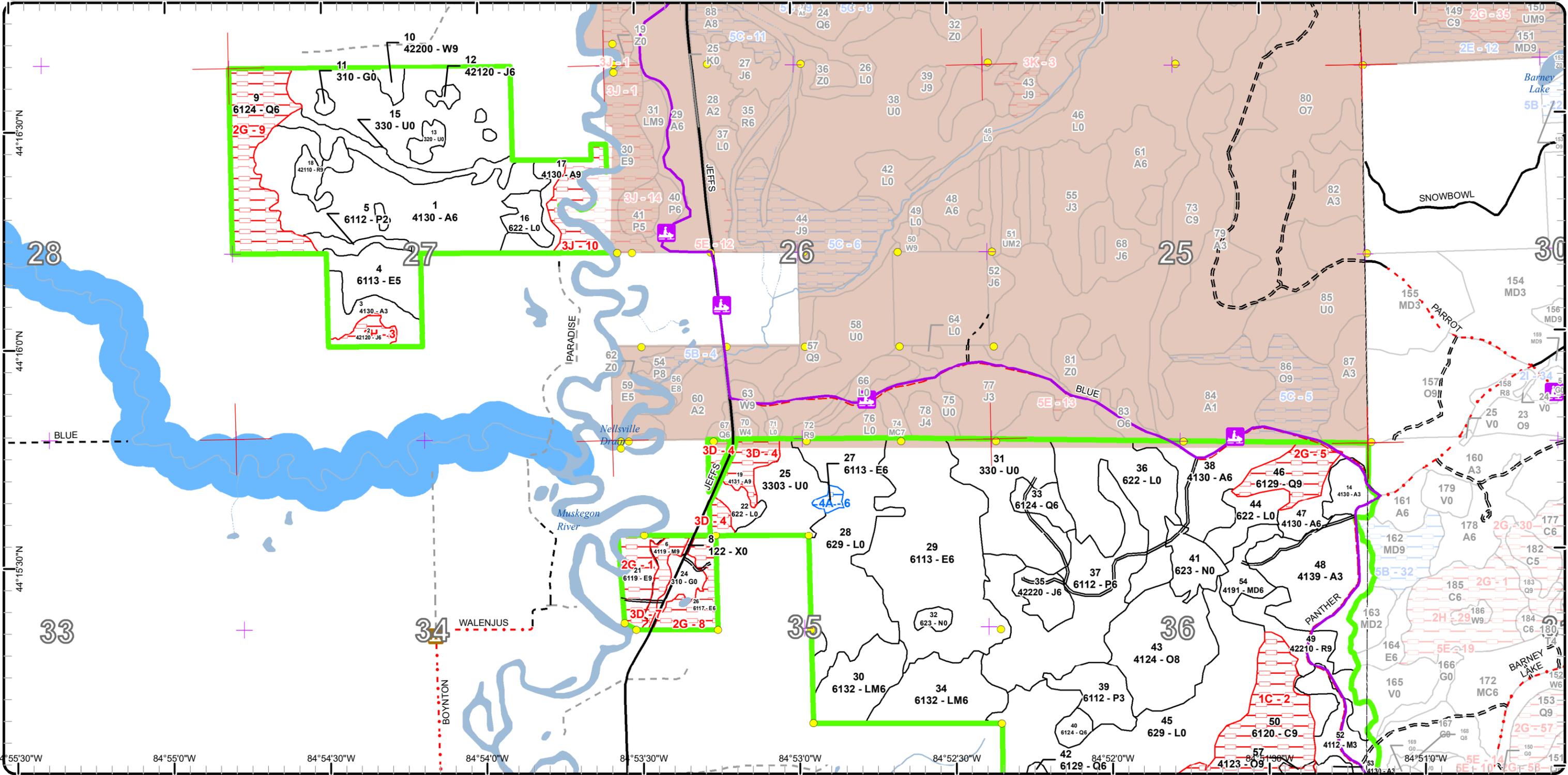


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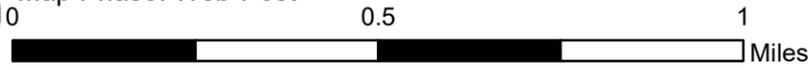
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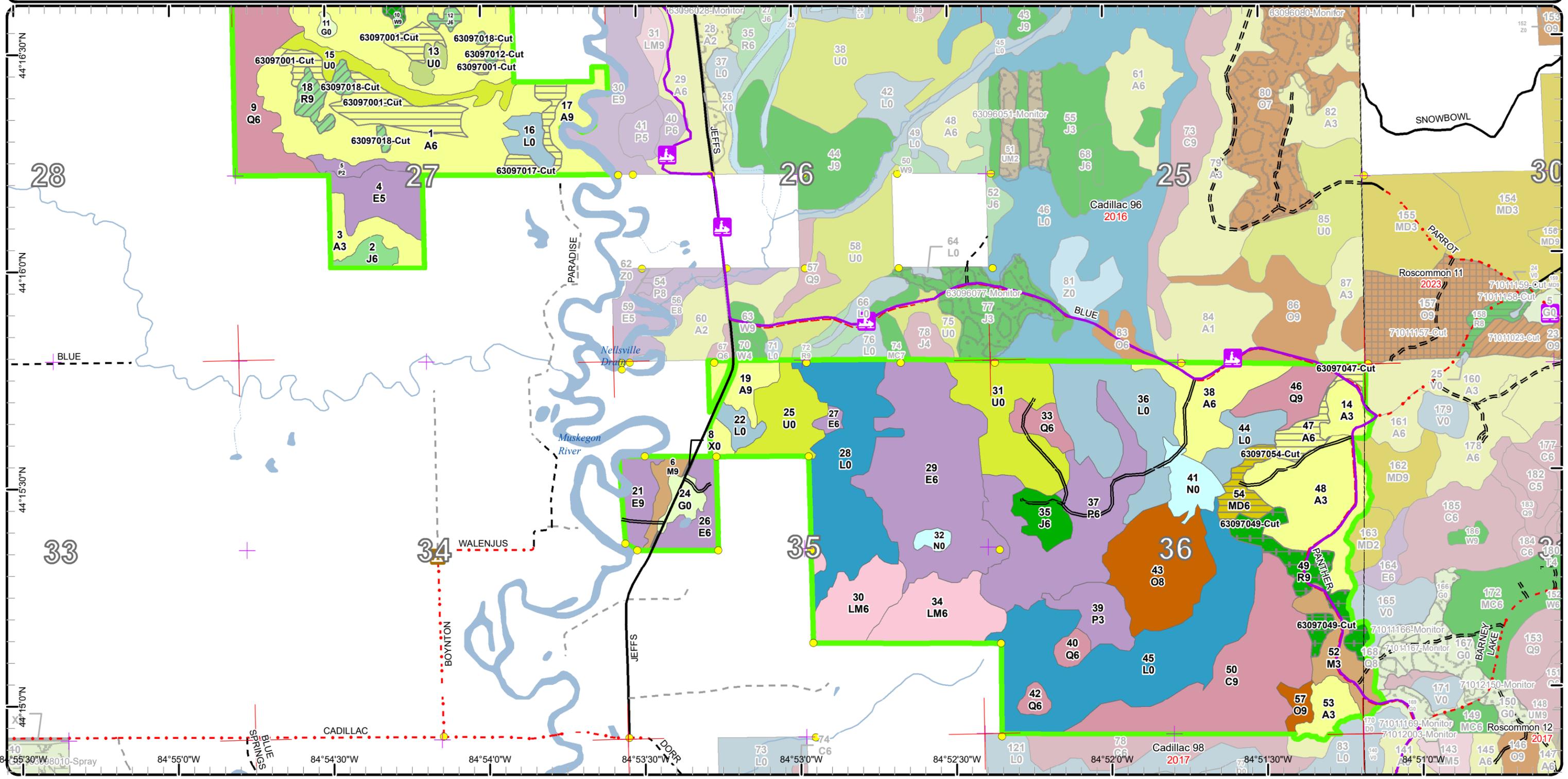
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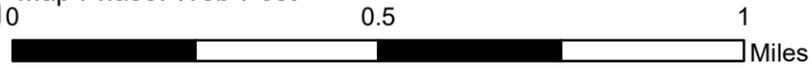


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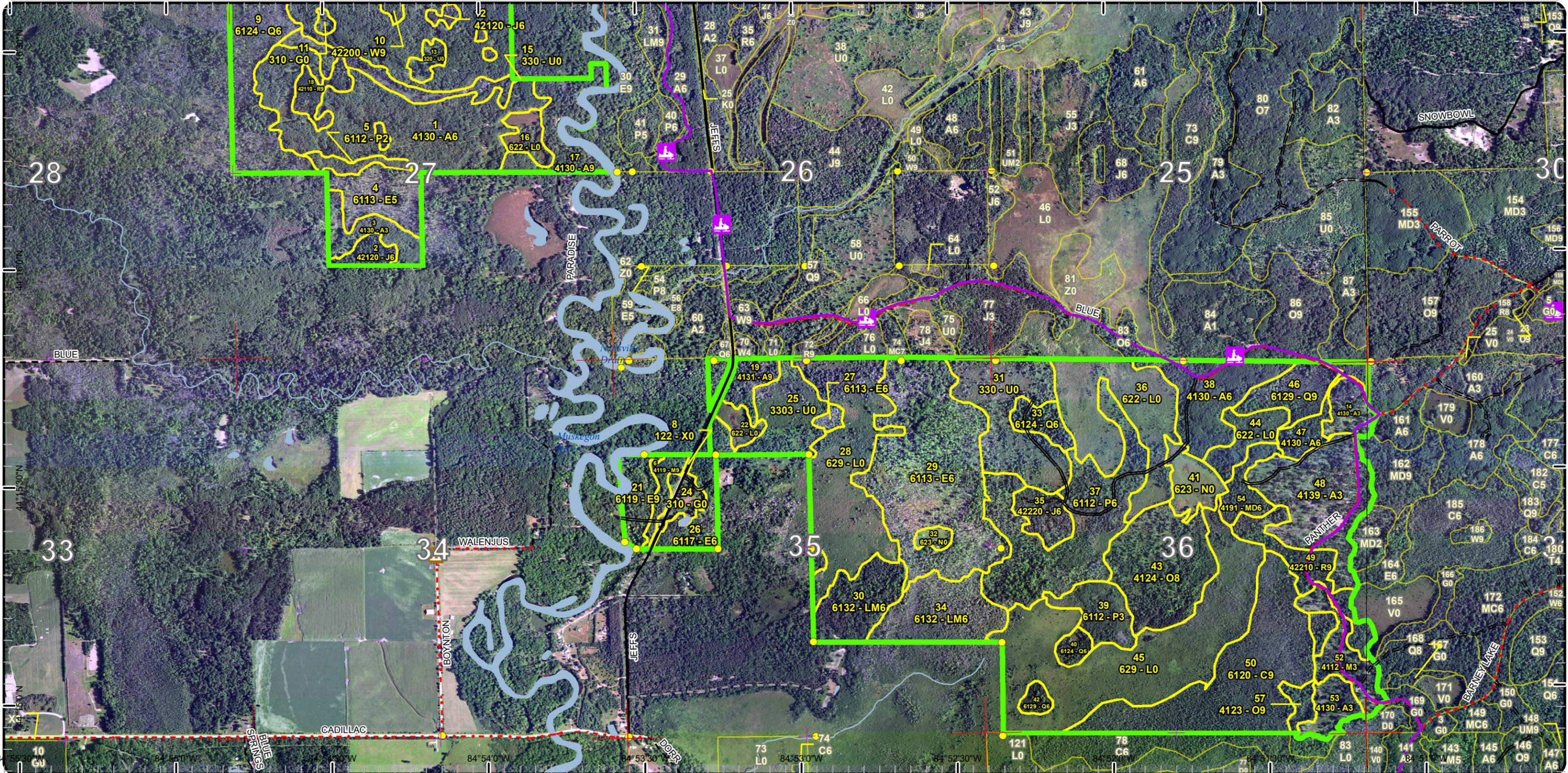


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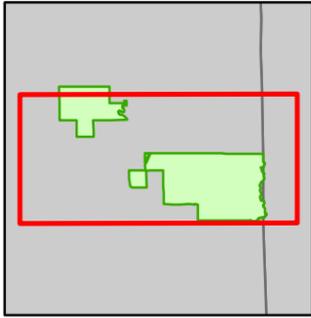
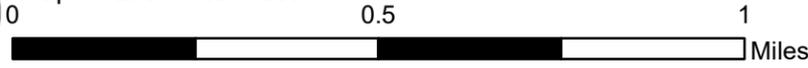


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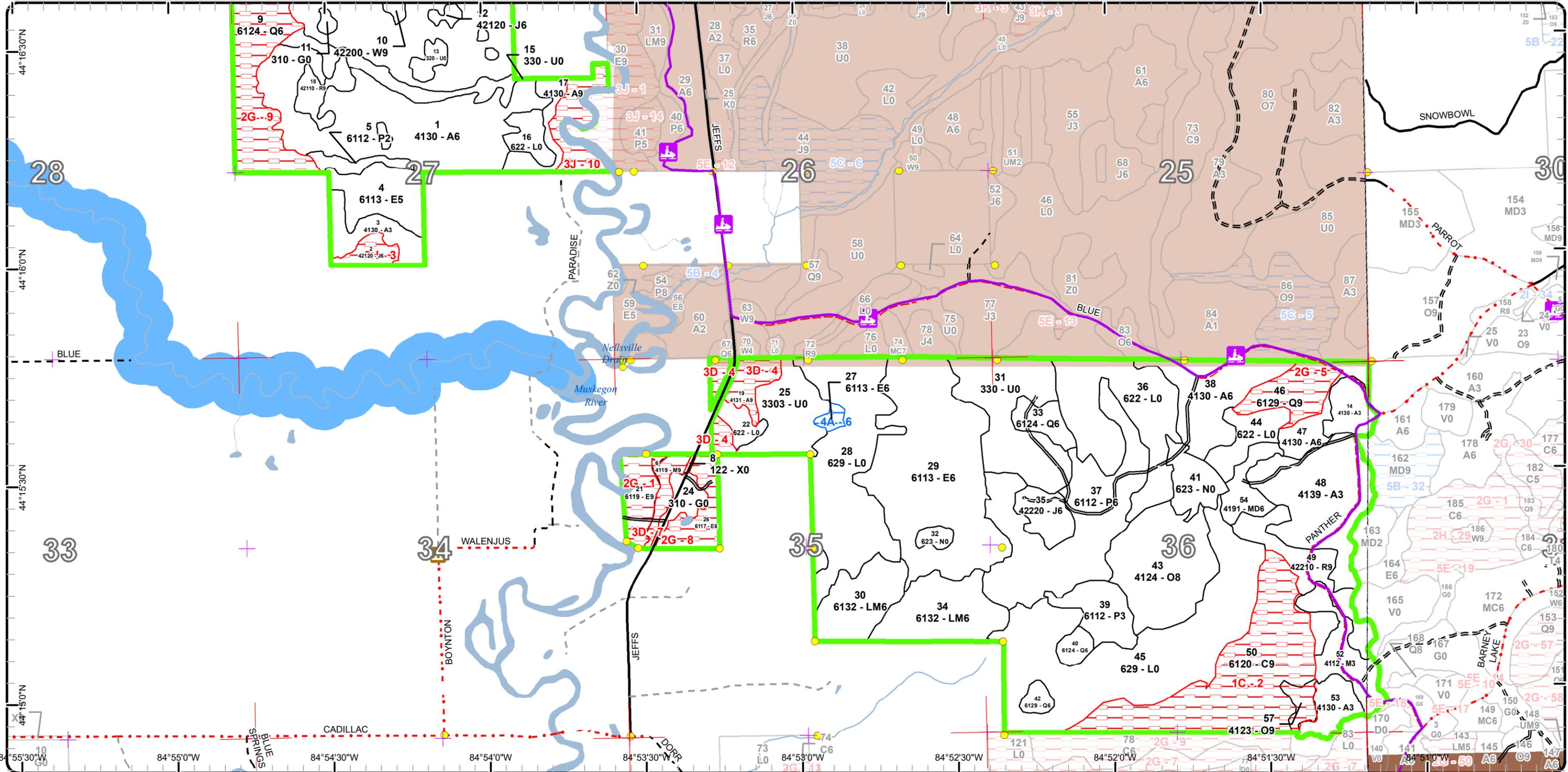


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- 3D: Recreational / Scenic values



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	68	0	14	183	0	11	0	15	23	0	0	0	0	0	0	0	0	314
Cedar	0	0	0	0	0	0	0	0	0	0	0	73	0	0	0	0	0	0	73
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	0	0	0	0	3	11	6	0	0	0	0	0	0	0	0	0	0	20
Low-Density Trees	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Lowland Aspen/Balsam Poplar	0	0	0	21	67	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Lowland Conifers	0	0	0	0	0	0	0	13	4	40	16	0	0	0	0	0	0	0	73
Lowland Deciduous	0	0	0	0	0	0	0	21	107	0	15	0	0	0	0	0	0	0	143
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	31	25	0	0	0	0	0	55
Lowland Shrub	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240
Marsh	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	18	0	0	0	0	6	0	0	0	0	0	0	0	0	0	24
Oak	0	0	0	0	0	0	5	0	45	0	0	0	0	0	0	0	0	0	50
Red Pine	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	34
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
<b>Total</b>	<b>350</b>	<b>68</b>	<b>0</b>	<b>53</b>	<b>250</b>	<b>3</b>	<b>37</b>	<b>40</b>	<b>211</b>	<b>63</b>	<b>35</b>	<b>104</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1237</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 97

Total Compartment Acres: 1,237

Commercial Harvest - 102  
 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	51	0	0	0	0	0	0	0	0	51
Jack Pine	3	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	10	0	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	10	24	0	0	0	34
White Pine	0	4	0	0	0	0	0	0	0	4
<b>Total</b>	<b>64</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>102</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	102	0	0	0	0	0	0	0	0	102
Next Step	0	0	0	0	0	68	0	0	0	68
<b>Total</b>	<b>102</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>68</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>169</b>



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

<b>1</b>	<b>63097001-Cut</b>	31.7	4130 - Aspen	Poletimber Well	36	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Specs: Clear cut aspen. Retain any oak over 12" diameter if present. Leave 3-10% retention patches in any areas of smaller dbh. Actual treatment shape will reflect what is on the ground and may vary from proposed treatment.

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

Acceptable Regen: Any mix of aspen, maple, cherry, balsam, pine, oak, or birch.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>10</b>	<b>63097010-Cut</b>	3.5	42200 - Natural White Pine	Sawtimber Well	90	141-170	Harvest	Single Tree Selection	4220 - Natural White Pine	Uneven-Aged	No
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Prescription Specs: Thin existing white and red pine down to 100-120 basal area. Focus on releasing best quality trees and opening areas with heavier existing regeneration. Actual treatment shape will reflect what is on the ground and may vary from proposed treatment.

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

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

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>12</b>	<b>63097012-Cut</b>	2.6	42120 - Planted Jack Pine	Poletimber Well	47	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Specs: Clear cut with no retention due to small size. Actual treatment shape will reflect what is on the ground and may vary from proposed treatment.

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

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

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
17	63097017-Cut	8.7	4130 - Aspen	Sawtimber Well	84	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Clear cut. Retain some individual large oak and pine. Treat area that is outside of influence zone of Muskegon River. Actual treatment shape will reflect what is on the ground and may vary from proposed treatment.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any mix of aspen, oak, maple, cherry, birch, pine, balsam fir, or hemlock.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
18	63097018-Cut	10.3	42110 - Planted Red Pine	Sawtimber Well	76	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Remove any jack pine and aspen. Mark residual red and white pine down to approximately 100-120 basal area. Focus on releasing smaller diameter trees to promote growth. Actual treatment shape will reflect what is on the ground and may vary from proposed treatment.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
47	63097047-Cut	10.7	4130 - Aspen	Poletimber Well	55	1-50	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Clear cut with a few scattered pine and oak left. Apply appropriate trail protections to timber sale operations. Actual treatment shape will reflect what is on the ground and may vary from proposed treatment.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any mix of aspen, oak, maple, birch, cherry, pine, balsam fir, or hemlock.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
49	63097049-Cut	23.7	42210 - Natural Red Pine	Sawtimber Well	70	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Remove overstory of Red Pine. Leave a few scattered pine to retain a small component in stand. Actual treatment shape will reflect what is on the ground and may vary from proposed treatment. Apply appropriate trail protections to timber sale operations.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</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
54 63097054-Cut	10.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut to promote aspen regeneration. Retain a small component of individual pine and a few scattered oak. Actual treatment shape will reflect what is on the ground and may vary from proposed treatment.</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> Any mix of aspen, maple, oak, cherry, pine, birch, or balsam fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										

Total Treatment Acreage Proposed: 101.5

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Matt Edison : Examiner

Compartment: 97  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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### Dominant Site Conditions

				4A	1C	2G	2H	3D	3J
314	284	0	30	Aspen	0			15	15
73	0	0	73	Cedar	73				
8	8	0	0	Herbaceous Openland		0		0	
20	14	0	6	Jack Pine			6		
80	80	0	0	Low-Density Trees	0			0	
88	88	0	0	Lowland Aspen/Balsam Poplar					
73	16	0	57	Lowland Conifers		57			
143	114	2	26	Lowland Deciduous	2	26		0	
56	56	0	0	Lowland Mixed Forest					
240	240	0	0	Lowland Shrub	0	0		0	
16	16	0	0	Marsh					
10	10	0	0	Mixed Upland Deciduous					
24	18	0	6	Northern Hardwood		0		6	
50	45	0	5	Oak		5			
34	34	0	0	Red Pine					
4	4	0	0	Upland Shrub					
1	1	0	0	Urban		0		0	
4	4	0	0	White Pine					
1,237	1,032	2	203	Total Forested Acres	2	78	83	6	21
	83%	0%	16%	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	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Matt Edison : Examiner

Compartment: 97  
Year of Entry: 2023

2	Unavailable	1C: Other dept or div proc/practices	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3D: Recreational / Scenic values	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	4A: No Markets Available for these Forest Products	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3D: Recreational / Scenic values	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
 Matt Edison : Examiner

Compartment: 97  
 Year of Entry: 2023

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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	4130 - Aspen	Poletimber Well	151.3	36	111-140	N/A	Aspen mixed with widely scattered pine and oaks. Variable size and quality of trees throughout. Break up stand and treat some areas with larger diameter and lower quality now to enhance age class diversity. Let areas of smaller trees grow.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>80</td> <td>Pole</td> <td>6</td> <td>36</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	80	Pole	6	36	White Pine	10	Pole	8		Red Oak	10	Pole	8																										
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2	42120 - Planted Jack Pine	Poletimber Well	6.0	63	81-110	N/A	Inaccessible. Blocked by blow down swamp to north.																																													
3	4130 - Aspen	Sapling Well	13.8	27	Immature	N/A	Habitat cut by wildlife in 1993, Could not get to stand this entry, data from previous entry.																																													
4	6113 - Lowland Maple	Poletimber Medium	20.7	60	141-170	N/A	All flooded and dead at this point... blow down swamp. a few paper birch and red maple on edges																																													
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Red Maple	60	Log/Pole	10	60																																																
Green Ash	15	Pole	8																																																	
5	6112 - Lowland Aspen	Sapling Medium	5.3	28	Immature	N/A	Stand was habitat cut in 1992																																													
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6	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.3	79	51-80	N/A	Lowland hardwood stand that is located on narrow strip between Jeffs Road and river flood plain. Good buffer for river.																																													
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Black Ash	20	Pole/Sapling	6																																																	
8	122 - Road/Parking Lot	Nonstocked	0.8			No																																														
9	6124 - Lowland Spruce-Fir	Poletimber Well	40.4	80	51-80	N/A	Stand is a mix of lowland species. Clumpy areas of forested with some open sparse wetter areas. Mostly too wet for operability. Maybe some edge areas treatable in future when adjacent stands harvested.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
10	42200 - Natural White Pine	Sawtimber Well	3.5	90	141-170	N/A	Thin white and red pine to promote natural white pine.																																													
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11	310 - Herbaceous Openland	Nonstocked	1.6			No																																														
12	42120 - Planted Jack Pine	Poletimber Well	2.6	47	81-110	N/A	Small stand of declining jack pine. Final harvest with surrounding aspen stand.																																													
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13	320 - Upland Shrub	Nonstocked	4.3			No																																														
14	4130 - Aspen	Sapling Well	10.1	7	1-50	N/A	Aspen stand was cut in fall of 2014. Panther Aspen Sale																																													
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15	330 - Low-Density Trees	Nonstocked	15.1	0	Unspecified	No	Stand is a mix of sparse lowland species along a drainage to the Muskegon River.																																													
16	622 - Lowland Shrub	Nonstocked	7.6			No																																														
17	4130 - Aspen	Sawtimber Well	23.2	84	111-140	N/A	Stand is located along edge of subdivision with limited access. Also borders Muskegon River																																													
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18	42110 - Planted Red Pine	Sawtimber Well	10.3	76	141-170	N/A	Small stands of Red Pine with some jack pine mixed in in places. Good looking pine. Thin to release smaller diameters and maintain pine component to compartment.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
19	4131 - Aspen, Oak	Sawtimber Well	15.3	75	81-110	N/A	Would need survey. Site Condition from last entry.																																	
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21	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	12.7	92	111-140	N/A	Lowland hardwood stand that is underwater at times due to river floodplain.																																	
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22	622 - Lowland Shrub	Nonstocked	5.5			No																																		
24	310 - Herbaceous Openland	Nonstocked	6.9			No																																		
25	3303 - Mixed Low Density Trees	Nonstocked	23.1			No																																		
26	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	13.4	75	81-110	N/A	Stand is located east side of Jeffs Rd. Stand has white pine fringe and quickly transitions to very wet stand of mostly red maple and some scattered aspen. Ash snags remain scattered. Standing water and wetland grass throughout. Too wet, except extreme western strip along Jeff's Road.																																	
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27	6113 - Lowland Maple	Poletimber Well	2.3	94	81-110	N/A	Small pocket of swamp hardwoods.																																	
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28	629 - Mixed non-forested wetland	Nonstocked	64.1			No																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
29	6113 - Lowland Maple	Poletimber Well	93.6	75	1-50	N/A	This stand is vey wet with large areas that have already flooded out and blown down. Only small island pockets are operable. Several groups of deer in the stand on the north end. Standing water and wetland shrubs between treed pockets. Low basal area in some large areas.																																						
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30	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	25.1	118	111-140	N/A	Wet, areas of balsam and cedar. Heavy deer use.																																						
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31	330 - Low-Density Trees	Nonstocked	42.2			No	regen cut flooded out. lots of shrub with a few scattered trees.																																						
32	623 - Emergent Wetland	Nonstocked	3.1			No																																							
33	6124 - Lowland Spruce-Fir	Poletimber Well	8.3	62	51-80	N/A	Mix of various conifer species. Letherleaf in understory. Quite sparse.																																						
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34	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	30.5	104		N/A	Heavy deer use. Heavy browse on reproduction.																																						
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35	42220 - Natural Jack Pine	Poletimber Well	11.0	55	81-110	N/A																																							
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36	622 - Lowland Shrub	Nonstocked	50.0			No																																			
37	6112 - Lowland Aspen	Poletimber Well	66.7	38	81-110	N/A	Stand was cut in 1983. Good aspen mixed with scattered lowland brush areas and some water																																		
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38	4130 - Aspen	Poletimber Well	31.3	38	81-110	N/A	Stadn cut in 1983. some scattered wet areas.																																		
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39	6112 - Lowland Aspen	Sapling Well	15.5	26	Immature	N/A	Habitat cut in 1996																																		
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40	6124 - Lowland Spruce-Fir	Poletimber Well	4.5	66	Unspecified	N/A	Looks to be a mix of black spruce and balsam fir. Concur, lowland,																																		
41	623 - Emergent Wetland	Nonstocked	12.6			No																																			
42	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	3.5	75	111-140	N/A	Small pocket surrounded by wet swamp. No access.																																		
43	4124 - Red with White Oak	Sawtimber Medium	45.1	75	1-50	N/A	Northern portion cut by wildlife in 1996. Left all oak. Stad is wetter to the southern portion.																																		
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44	622 - Lowland Shrub	Nonstocked	12.4		Unspecified	No																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**45** 629 - Mixed non-forested wetland Nonstocked 100.6 No

**46** 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 16.3 92 Unspecified N/A

Big white pine with balsam, birch, and spruce. scattered cedar to the south. Wet

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	6		Balsam Fir	Low	10 - 20 feet	Sapling
Black Spruce	20	Log/Pole	11		White Pine	Low	10 - 20 feet	Sapling
Northern White Cedar	20	Pole/Log	7					
White Pine	35	Log/Pole	15	92				
Red Pine	10	Log/Pole	12					

**47** 4130 - Aspen Poletimber Well 10.7 55 1-50 N/A

Was previously part of adjacent stand 14, but left un-cut.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	9		Red Oak	Low	10 - 20 feet	Sapling
Red Oak	15	Log/Pole	13		White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	70	Pole/Log	9	55				
Black Cherry	5	Pole	8					

**48** 4139 - Aspen, Mixed Deciduous Sapling Well 47.5 7 1-50 N/A

Stand treated in summer of 2015 #63-037-13-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	11		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	20	Sapling	1	7	Beech	Low	10 - 20 feet	Sapling
Red Oak	10	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	50	Sapling	1	7	Cherry (spp.)	Low	10 - 20 feet	Sapling
White Pine	5	Log/Pole	11					
Red Pine	5	Log/Pole	10					

**49** 42210 - Natural Red Pine Sawtimber Well 23.7 70 51-80 N/A

Overstory red pine with aspen and maple removed last entry. Remove overstory pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	20	Log/Pole	12		Red Maple	High	10 - 20 feet	Sapling
Red Pine	80	Log/Pole	13	70	Bigtooth Aspen	Low	10 - 20 feet	Sapling

**50** 6120 - Lowland Cedar Sawtimber Well 73.1 106 111-140 N/A

Straight cedar mixed with scattered black spruce, paper birch, red maple and white pine. Lots of water when visited. May be able to do something on eastern fringe.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Pole	7		Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	10	Pole	7					
Northern White Cedar	80	Log/Pole	12	106				
White Pine	6	XLog	25					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>52</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	17.6	21	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	20	Log/Pole	12		Red Maple	High	5 - 10 feet	Sapling
Red Maple	80	Sapling	2	21	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
					Balsam Fir	Low	>20 feet	Pole

<b>53</b>	4130 - Aspen	Sapling Well	10.5	7	1-50	N/A	Cut in 2004.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	2	7	Red Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	60	Sapling	2	7	Witch Hazel	Low	10 - 20 feet	Tall Shrub
Northern Pin Oak	5	Log/Pole	13					
Red Pine	5	Log	15					

<b>54</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.3	52	51-80	N/A	Thin scattered hardwood and oak. Remove all aspen and red maple to expand aspen where possible. Leave some pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	25	Pole/Sapling	6	52
Red Maple	35	Pole	6	52
Red Oak	10	Log/Pole	12	
Quaking Aspen	20	Pole	6	
White Pine	10	Log/Pole	12	

<b>57</b>	4123 - Red Oak	Sawtimber Well	4.9	58	81-110	N/A	Previously part of stand 53. Left as inoperable part of cut.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	100	Log	12	58