



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63132

Entry Year 2023

Acreage: 2,753

County Wexford

Management Area: Manistee River Valley

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

**Stand Examiner:** Matt Edison

**Legal Description:**

T24N R10W Sections: 7, 8, 9, 16, 17, 18

T24N R11W Sections: 12, 13, 24

**Identified Planning Goals:**

Maintain the integrity of the Manistee River Valley by incorporating silviculturally sound management practices. Promote age class diversity in the early successional forest types while providing quality timber products and enhancing wildlife habitat and natural communities. Manage for various types of multi-use recreation.

**Soil and topography:**

There are unique terrain features to contend with in this compartment. Elevation changes of up to 300 feet create steep river bluffs and banks along with upland and lowland plateaus. The soil makeup within the compartment is mostly Rubicon-Montcalm-Graycalm association. The Tawas-Croswell-Lupton association dominates the lowland forest areas. The Karlin series can be found within the hardwood forest areas.

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

There are three pieces of private land holdings within the compartment. All are located on the northern portion of the compartment. All of these parcels are recommended for land acquisition.

**Unique Natural Features:**

The Manistee River marks the south boundary of this compartment. There is potential for Wood Turtle and Massasauga Rattlesnakes along the river corridor. The hardwood component of the compartment provides potential nesting habitat for Red Shoulder Hawks and Goshawks.

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

High Rollways Overlook

**Special Management Designations or Considerations:**

The compartment contains a unique old-growth corridor along the Manistee River. The North Country Trail follows the corridor and the ridge line overlooking the river.

**Watershed and Fisheries Considerations:**

The Manistee River and several unnamed streams flow through Compartment 132. The Manistee River is a Designated Trout Stream, and in this area supports popular sports fisheries for Brown Trout, Walleye, and Northern Pike. Brown Trout are stocked by MDNR. Natural Rivers standards should be followed for any treatments conducted near the Manistee River.

**Wildlife Habitat Considerations:**

Featured wildlife species include deer, bear, and ruffed grouse. Management objectives are to keep a variety of cover types and age class diversity as well as maintain and/or enhance habitat including work on openings and edges to preserve wildlife viewing and hunting opportunities.

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

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pits are several miles away. There appears to be some potential for sand & gravel within the compartment on the uplands. The compartment is nearly three miles south of the prolific Guelph Formation (Niagaran) reef hydrocarbon play, and potential for oil & gas from known producing formations beneath the compartment is considered low at this time. 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:**

Vehicle access into the compartment is readily available off of county roads in the north. Numerous two-tracks and forest roads criss-cross through the compartment. There are forest roads leading to well used camping and viewing sites on the

banks of the Manistee River.

**Survey Needs:**

Survey work may be needed for sale prep. on Section line between 24NR10W sec.'s 6 & 7.

**Recreational Facilities and Opportunities:**

High Rollways Overlook, a very popular scenic site is located in this compartment. Recreation Division river access site located in stand 122 that allows vehicle boat access to the Manistee River. The North Country Trail runs through the compartment along the river corridor and ridge top.

**Fire Protection:**

Heavy fall use of this compartment by recreational users is a concern. Due to minimal roads, suppression forces must access from the north. The steep banks along the Manistee River will hamper suppression activities. 9-1-2011 BET

**Additional Compartment Information:**

The following reports from the Inventory are attached:

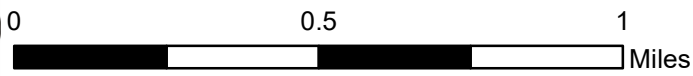
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

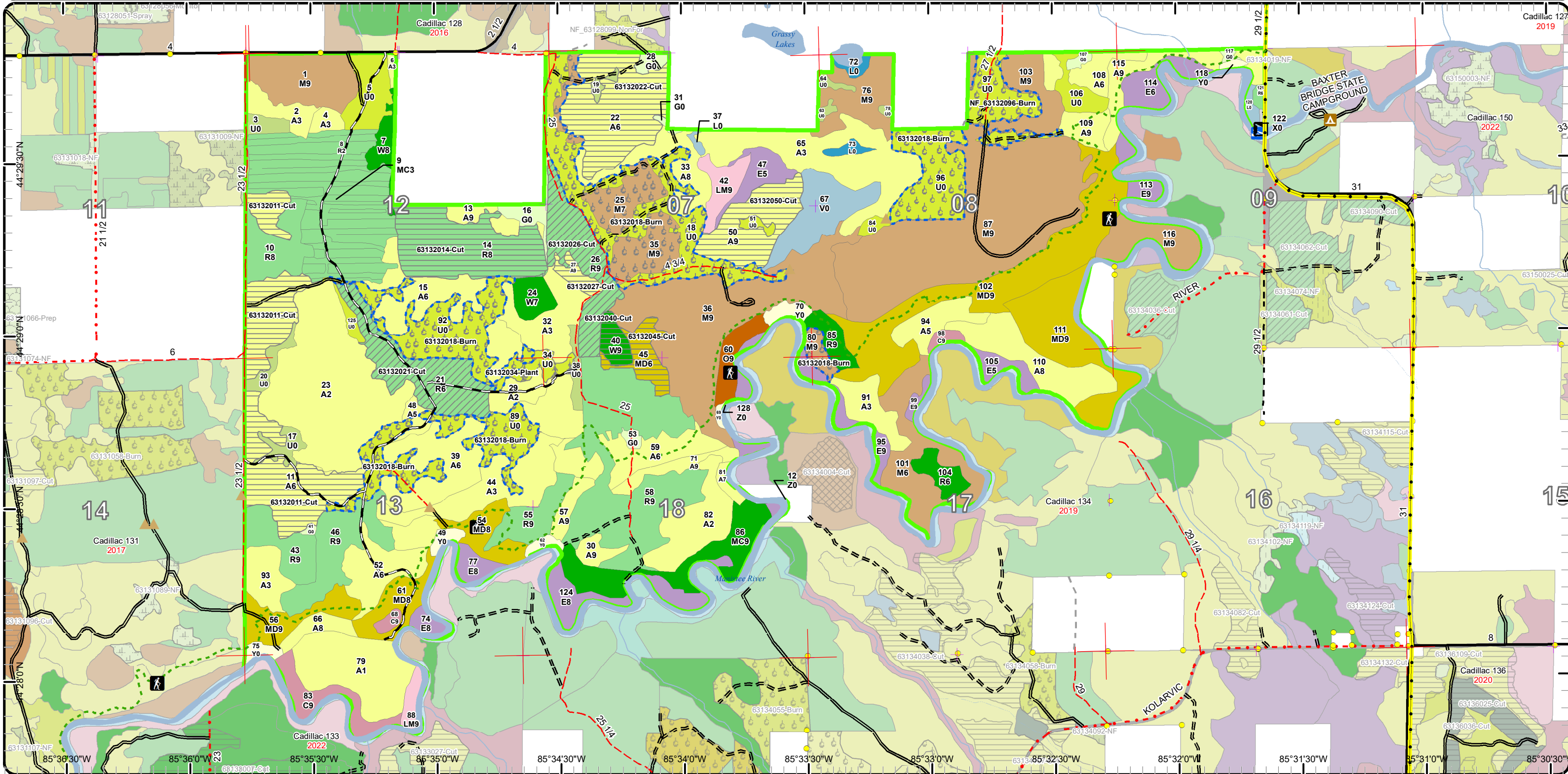
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

# Cover Type & Treatments Map

Compartment: 132  
 T42N R10W Sec. 07-09,16-18  
 County: Wexford  
 Unit: Cadillac  
 Mgmt Area: Manistee River Valley  
 YOE: 2023  
 Acres: 2752.6 GIS Calculated  
 Examiner: Matt Edison  
 Map Revised: 6/28/2021  
 Map Phase: Web-Post



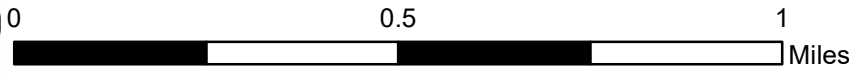
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- Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Secondary Forest Road
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- Compartment Boundary
- Treatments with Site Conditions
- Planting (tree species)
- Clearcut (w/Reserves)
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- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil



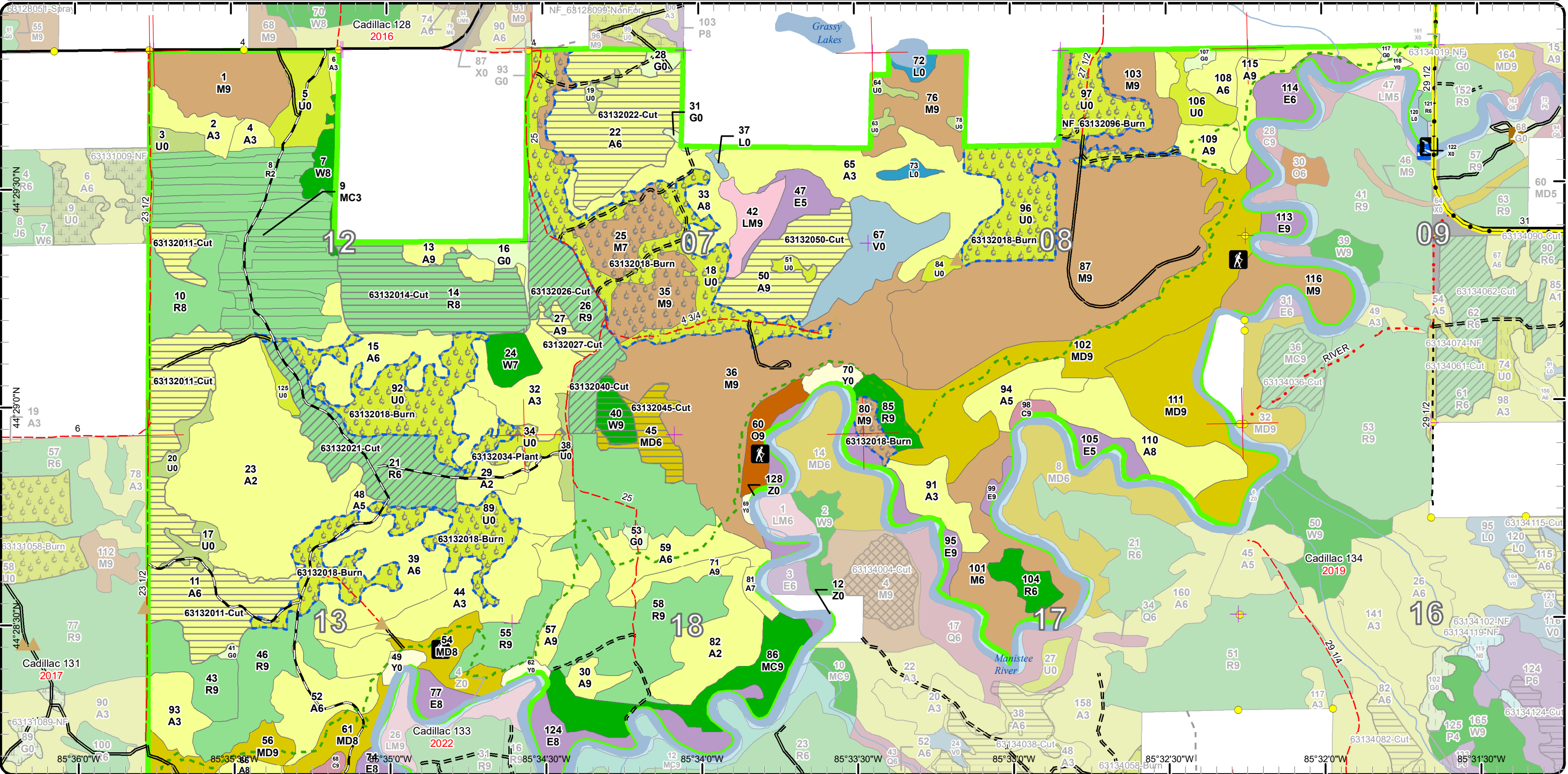


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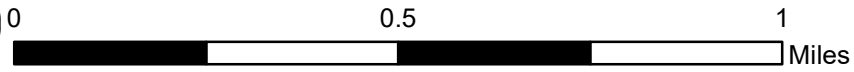
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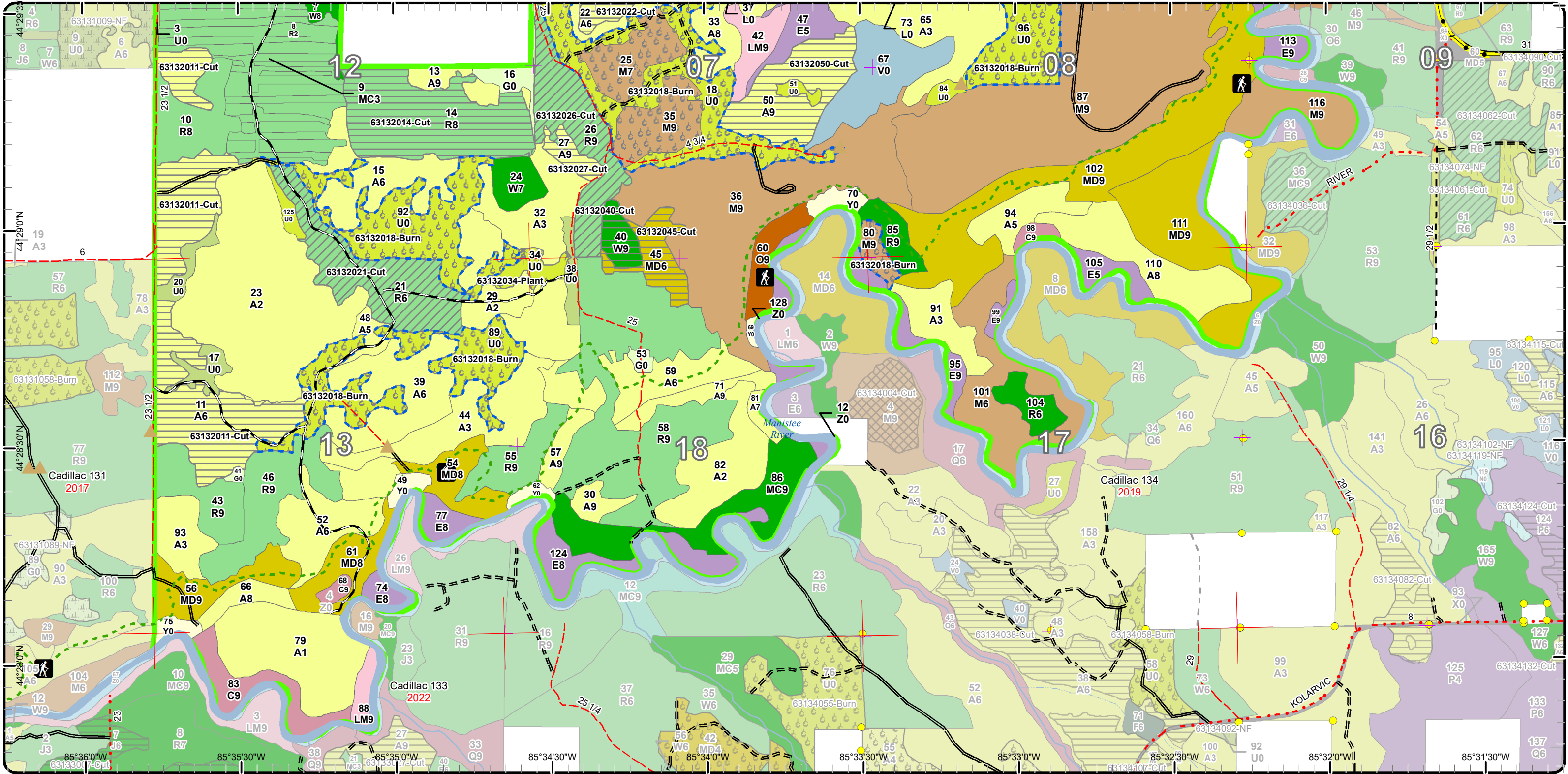


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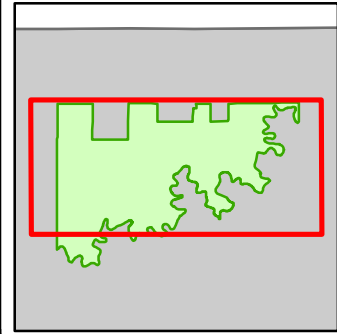
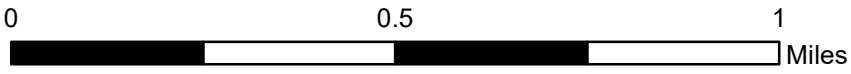
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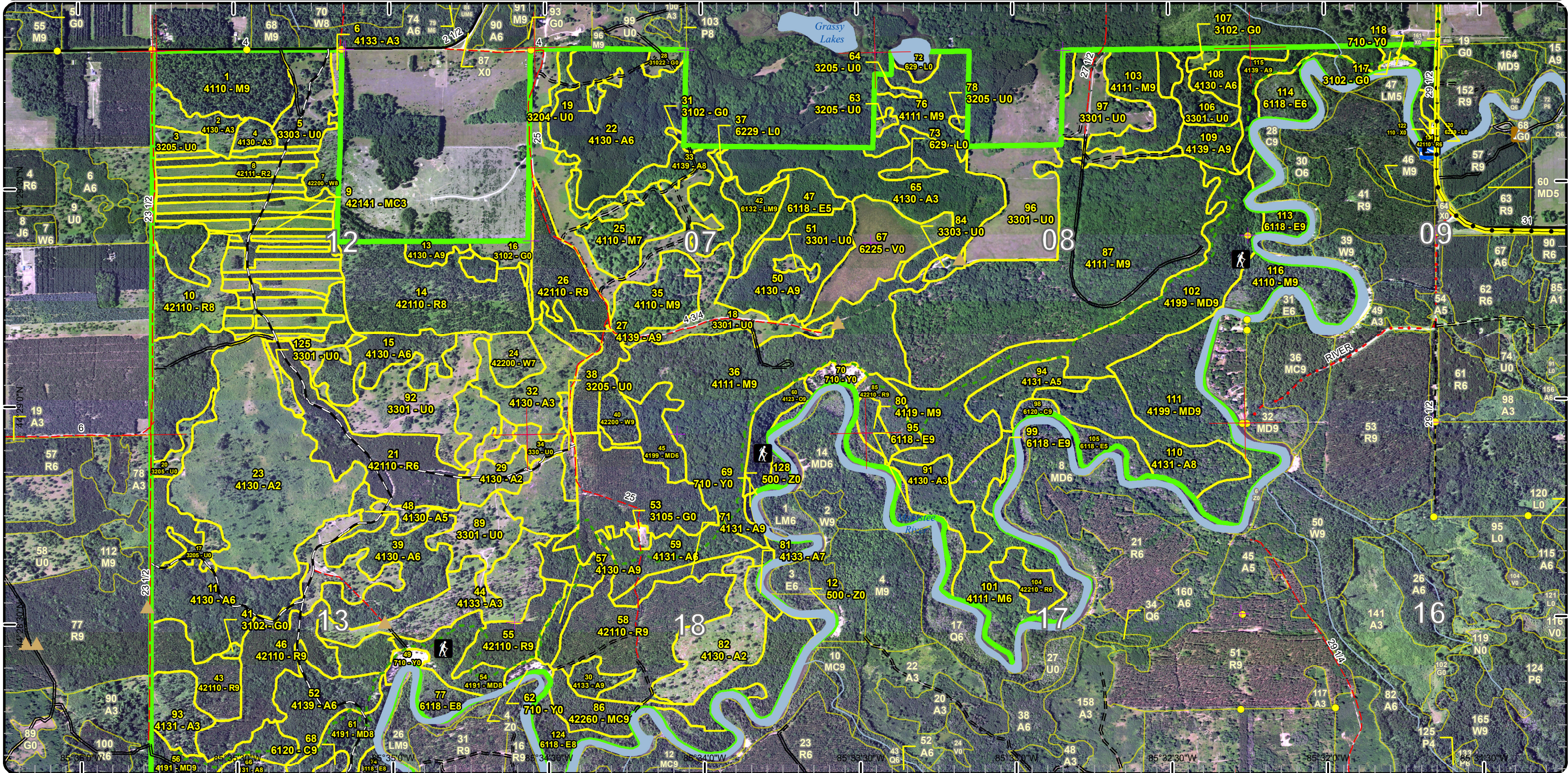
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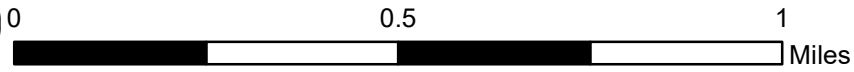
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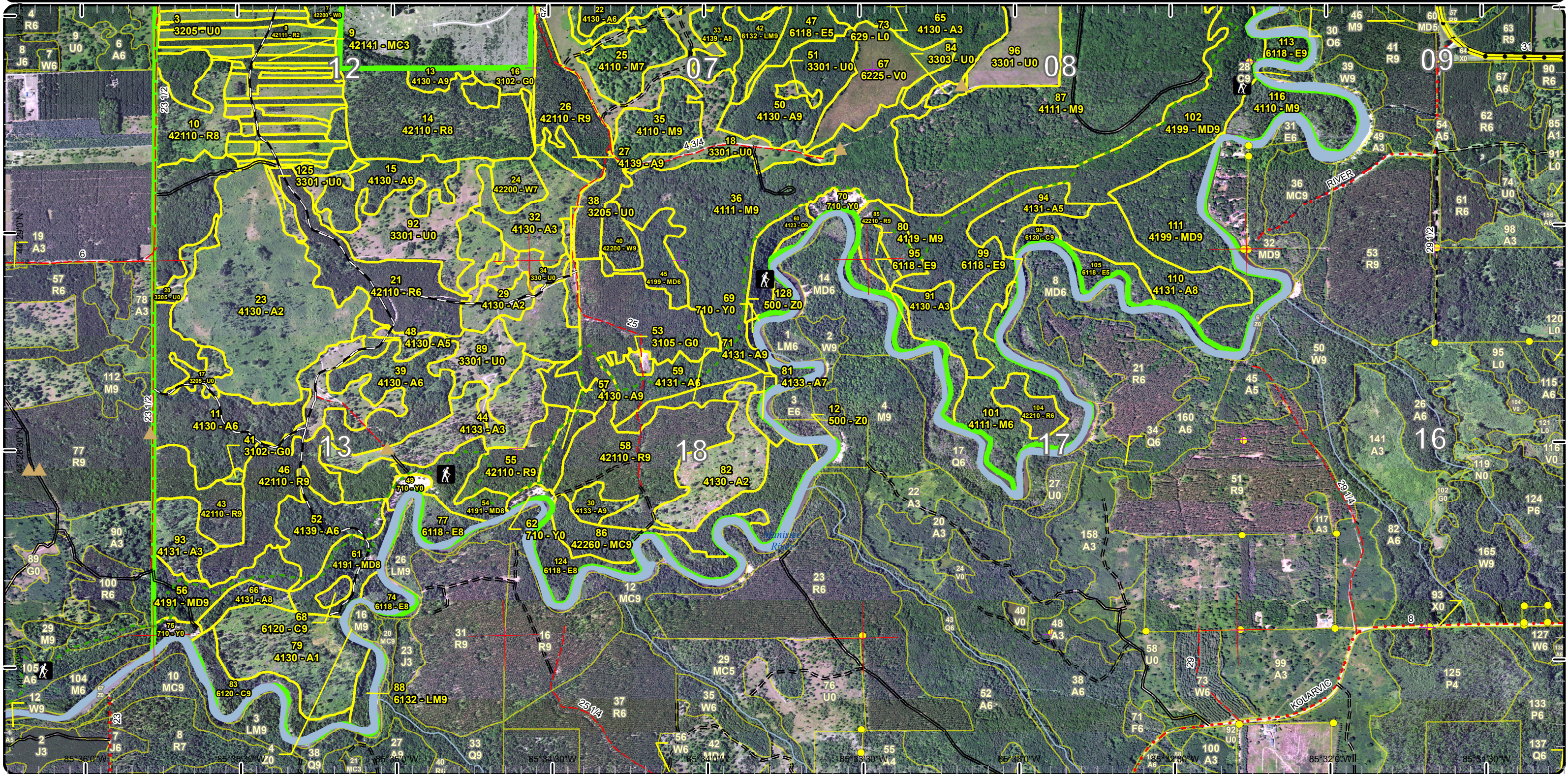
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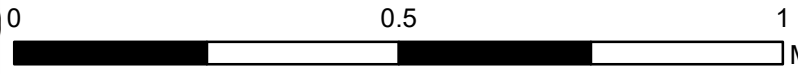
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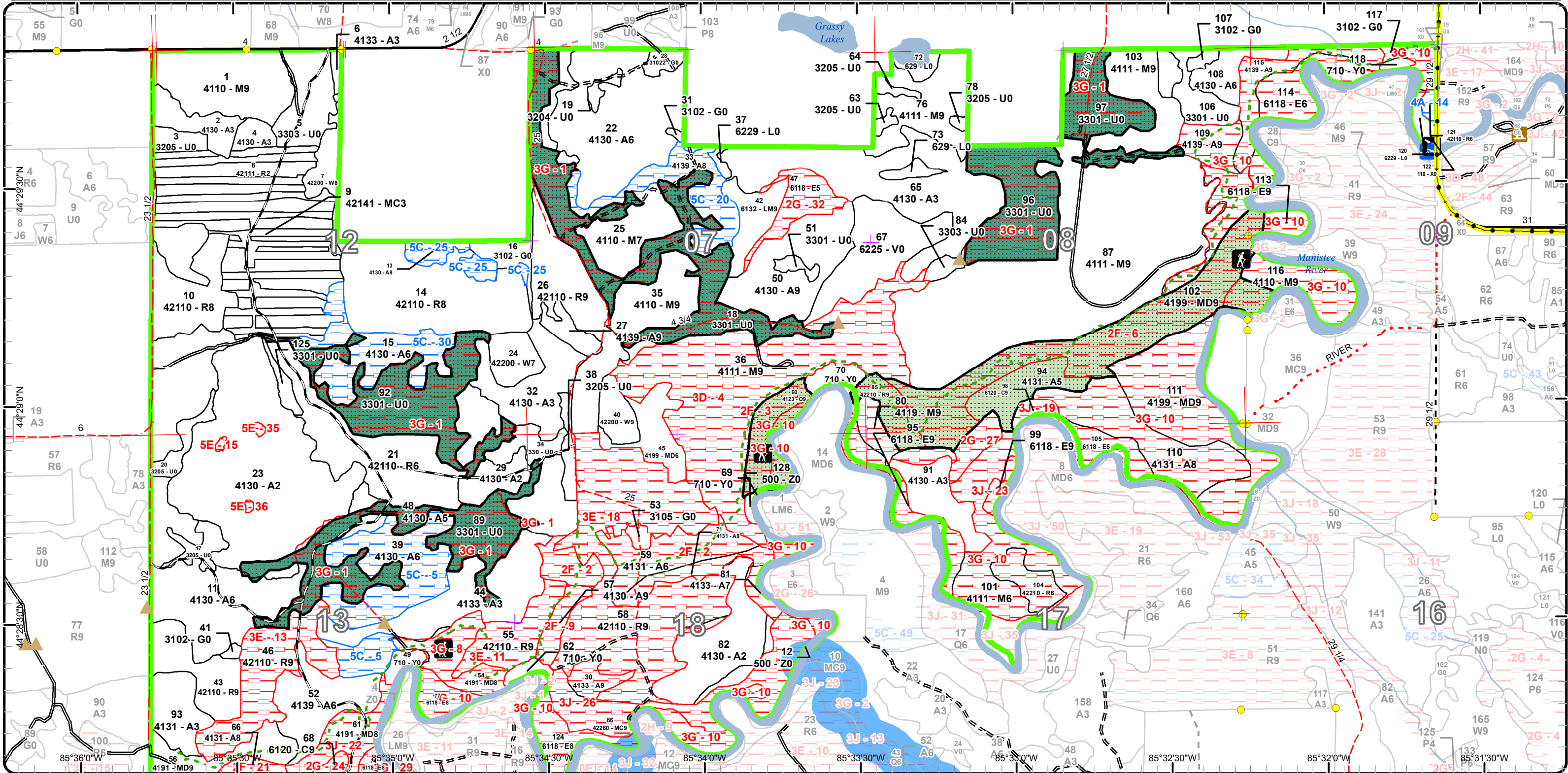
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- Available w/ Constraints
- Unavailable

- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention

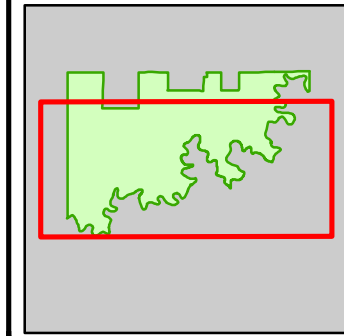
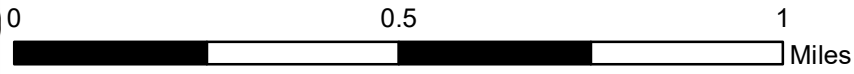
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- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor
- Recreational/Scenic Value Area



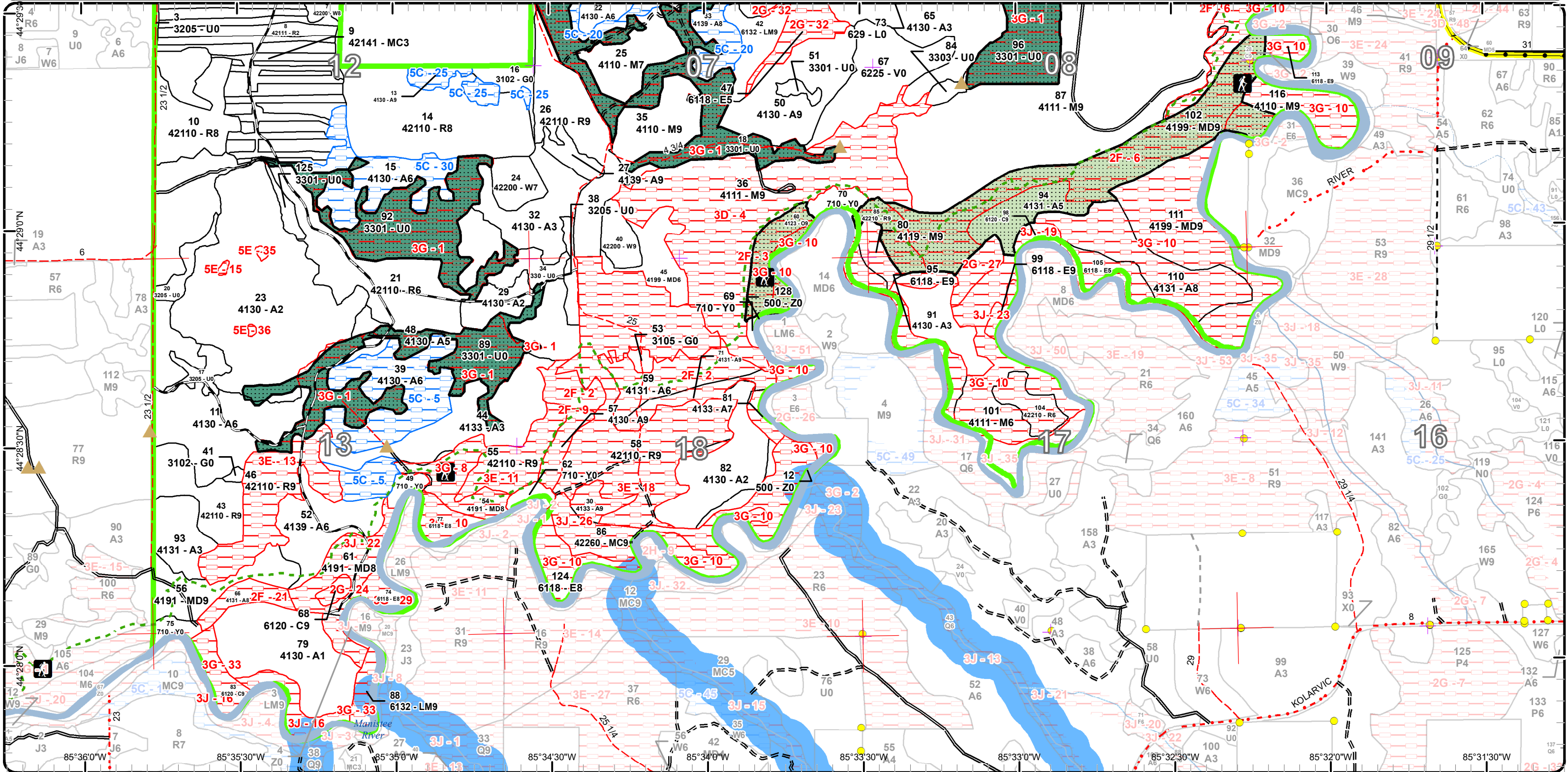


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Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	395	33	26	20	9	214	130	43	4	17	32	0	0	0	0	0	0	921
Bog	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Cedar	0	0	0	0	0	0	0	0	0	0	20	3	0	3	0	0	0	0	26
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Low-Density Trees	275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	275
Lowland Deciduous	0	0	0	0	0	0	6	0	25	3	0	13	0	0	53	0	0	9	109
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	13	0	8	0	0	0	0	0	0	21
Lowland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	0	0	0	0	36	20	0	17	54	92	0	0	0	0	0	219
Natural Mixed Pines	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	39
Northern Hardwood	0	0	0	0	0	0	0	0	49	0	0	284	0	7	0	0	0	161	500
Oak	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	13
Planted Mixed Pines	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Red Pine	0	63	0	0	0	47	0	31	197	61	0	0	0	0	10	0	25	434	
Sand, Soil	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Upland Shrub	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	9	10	0	0	0	0	0	0	0	10	29	
<b>Total</b>	<b>393</b>	<b>458</b>	<b>33</b>	<b>26</b>	<b>66</b>	<b>56</b>	<b>220</b>	<b>206</b>	<b>383</b>	<b>81</b>	<b>54</b>	<b>407</b>	<b>92</b>	<b>10</b>	<b>53</b>	<b>10</b>	<b>0</b>	<b>205</b>	<b>2750</b>





## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 132

Total Compartment Acres: 2,753

Commercial Harvest - 276  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 92

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	199	0	0	0	0	0	0	0	0	199
Mixed Upland Deciduous	15	0	0	0	0	0	0	0	0	15
Red Pine	61	0	0	0	85	0	0	0	0	146
White Pine	9	0	0	0	0	0	0	0	0	9
<b>Total</b>	<b>284</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>369</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	369	0	8	0	284	0	0	0	0	661
Next Step	0	61	61	0	89	61	722	0	0	993
<b>Total</b>	<b>369</b>	<b>61</b>	<b>69</b>	<b>0</b>	<b>373</b>	<b>61</b>	<b>722</b>	<b>0</b>	<b>0</b>	<b>1654</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:**

11	63132011-Cut	92.5	4130 - Aspen	Poletimber Well	62	141-170	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Yes
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Prescription Clear cut with retention. Harvest all aspen. Leave 3-10% patch retention and leave some white pine and oak. Identify desired leave trees outside patch retention with green mark. Treatment shape and size will reflect actual ground conditions and may vary from proposed treatment.

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

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

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

14	63132014-Cut	60.8	42110 - Planted Red Pine	Sawtimber Medium	87	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut red pine. Follow up with burn, site prep, trench, plan regime.  
Specs:

Next Step Burn, Slash; Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Treatments: Herbicide Use; Monitoring, Artificial Regen(3yr); Monitoring, Herbicide Use

Acceptable Regen: Planted Red Pine and volunteers.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

18	63132018-Burn	256.0	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	Burn	Opening	310 - Herbaceous Openland		No
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Prescription Rx: Burn per wildlife specs.  
Specs:

Next Step Monitoring, Other - Specify  
Treatments:

Acceptable Regen:

Other Comment:

Site Condition Other Influence Zones

Proposed Start Date: 10/1 /2022



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
-----------------------	-------------------	-------	--------------------	-----------------	--------------	-------------	-------------------	---------------------	-------------------------	------------------	----------------

21	63132021-Cut	46.7	42110 - Planted Red Pine	Poletimber Well	49	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	------	-----------------------------	--------------------	----	-------------	---------	------------------------	----------------------------	-----------	----

Prescription Third Row Thin. Good quality rows can be designated for cutting.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

22	63132022-Cut	63.8	4130 - Aspen	Poletimber Well	59	111- 140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
----	--------------	------	--------------	--------------------	----	-------------	---------	----------------------------	-------------------------------------	-----------	----

Prescription Clear cut with retention. Harvest all aspen. Leave 3-10% patch retention and leave some white pine and oak. Identify desired leave trees outside patch retention with green mark. Treatment shape and size will reflect actual ground conditions and may vary from proposed treatment.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

26	63132026-Cut	38.5	42110 - Planted Red Pine	Sawtimber Well	75	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	------	-----------------------------	-------------------	----	-------------	---------	----------------	----------------------------	-----------	----

Prescription Thin red pine to approximately 120 basal area.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022





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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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

27	63132027-Cut	6.3	4139 - Aspen, Mixed Deciduous	Sawtimber Well	55	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Two-Aged	No
----	--------------	-----	-------------------------------	----------------	----	---------	---------	-------------------------	-------------------------------	----------	----

Prescription Clear cut with retention. Harvest all aspen. Leave pockets of maple as retention. Identify desired maple leave trees outside pockets with green mark. Treatment shape and size will reflect actual ground conditions and may vary from proposed treatment.

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

40	63132040-Cut	8.6	42200 - Natural White Pine	Sawtimber Well	62	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
----	--------------	-----	----------------------------	----------------	----	---------	---------	-------------------------	----------------------------	----------	----

Prescription Clear cut all species. Leave 3-10% patch retention. Leave some large White pine scattered outside retention pockets as well.

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

45	63132045-Cut	14.9	4199 - Other Mixed Upland Deciduous	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
----	--------------	------	-------------------------------------	-----------------	----	--------	---------	-------------------------	-------------------------------	-----------	----

Prescription Clear cut with retention. Harvest all aspen. Leave 3-10% patch retention and leave some larger maple and oak outside retention patches.  
Specs: Identify desired leave trees outside patch retention with green mark. Treatment shape and size will reflect actual ground conditions and may vary from proposed treatment.

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

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

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



S  
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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>50 63132050-Cut</b>	36.7	4130 - Aspen	Sawtimber Well	67	141-170	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention. Harvest all aspen. Leave 3-10% patch retention concentrating around areas with maple. Identify desired leave trees outside patch retention with green mark. Treatment shape and size will reflect actual ground conditions 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</u> Any mix of aspen, maple, cherry, oak, pine, birch, balsam fir, cedar or hemlock.</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 /2022</p>										

**Approved Treatments:**

<b>34 63132034-Plant</b>	8.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Planting	Interplant	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack Pine, red maple, white pine, aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /9 /2021</p>										
<b>97 NF_63132096-Burn</b>	28.1	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Rx burn to set back encroachment and plant warm season grasses.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</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> Other Influence Zones</p> <p><u>Proposed Start Date:</u> 1 /1 /2016</p>										

**Total Treatment Acreage Proposed: 661**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Matt Edison : Examiner

Compartment: 132  
Year of Entry: 2023

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

				4A	5C	2F	2G	3D	3E	3G	3J	5E
922	667	<b>112</b>	143	0	<b>112</b>	61			1	69	11	1
32	32	0	0									
26	0	0	26				3			10	14	
19	19	0	0		0	0			0	0		
274	48	0	227		0					227		
110	1	0	109			0	13			93	3	
21	13	0	8		0					8		
12	12	0	0	0	0					0		
218	39	0	179			81	7		0	72	20	
39	4	0	35								35	
502	313	0	189		0	1		113	0	67	8	
13	0	0	13			13		0		0		
46	46	0	0									
435	256	<b>2</b>	177	<b>2</b>	<b>0</b>	0			157	20	0	
19	19	0	0						0	0		
31	31	0	0									
1	1	0	0									
3	3	0	0			0						
29	29	0	0									
2,753	1,532	<b>114</b>	1,107	<b>2</b>	<b>112</b>	155	23	113	158	566	90	1
	56%	<b>4%</b>	40%									

*\*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	<b>3G: Other Influence zones - See comments</b>	227	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
This is the Hopkins Creek SCA which is being managed under a prescribed burn program for wildlife enhancement.							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Matt Edison : Examiner

Compartment: 132  
Year of Entry: 2023

2	<b>Unavailable</b>	<b>2F: Too steep</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Old POG							
3	<b>Unavailable</b>	<b>2F: Too steep</b>	13	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep slope going down to the Manistee river, NC trail overlooks this stand.							
4	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	113	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Highly used "high rollways" scenic outlook. Avoid with commercial management. Only hazard trees should be taken down near trail.							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	48	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Based on RSFMP targets, decision was made at pre-review 2021 to hold this treatment.							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	81	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep slope going down to the Manistee river the NC trail also overlooks this area.							
8	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep slope in some places also provides visual relief for the NC trail.							
9	<b>Unavailable</b>	<b>2F: Too steep</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Matt Edison : Examiner

Compartment: 132  
Year of Entry: 2023

10	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	307	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep slope that provides visual relief for the Highbanks rollways and the NC trail.							
11	<b>Unavailable</b>	<b>3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Consumers Pine Lease							
13	<b>Unavailable</b>	<b>3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Consumers pine lease							
14	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
 Matt Edison : Examiner

Compartment: 132  
 Year of Entry: 2023

18	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	105	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2F: Too steep	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit  
 Matt Edison : Examiner

Compartment: 132  
 Year of Entry: 2023

24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3G: Other Influence zones - See comments	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
 Matt Edison : Examiner

Compartment: 132  
 Year of Entry: 2023

32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	Unavailable	3G: Other Influence zones - See comments	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	Unavailable	5E: Long-Term Retention	0	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
<b>Comments</b> NCT/Highrollways	Visual Management Area	Recreational/Scenic Value Area	<b>SCA</b>	100
<b>Highbanks Rollaways</b> <b>Comments</b>	Habitat Area	Habitat Corridor	<b>SCA</b>	27
<b>Highbanks Rollaways</b> <b>Comments</b>	Habitat Area	Habitat Corridor	<b>SCA</b>	38
<b>Highbanks Rollaways</b> <b>Comments</b>	Habitat Area	Habitat Corridor	<b>SCA</b>	49
<b>Highbanks Rollaways</b> <b>Comments</b>	Habitat Area	Habitat Corridor	<b>SCA</b>	52
<b>Highbanks Rollaways</b> <b>Comments</b>	Habitat Area	Habitat Corridor	<b>SCA</b>	67



## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	4110 - Sugar Maple Association	Sawtimber Well	37.3	90	51-80	N/A	Stand was treated during the winter of 2013 and winter of 2014. Veneer logs were removed by hand cutters and pulp was removed by a short wood harvester the following winter. Good looking regeneration at this time. Stand looks very nice.																																					
<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>Sugar Maple</td> <td>90</td> <td>Log</td> <td>12</td> <td>90</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>XLog</td> <td>20</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Log</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	90	Log	12	90	White Pine	5	XLog	20		Black Cherry	5	Log	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>High</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	10 - 20 feet	Sapling	Black Cherry	Medium	5 - 10 feet	Sapling	Ironwood	Medium	5 - 10 feet	Sapling	Blackberry/Raspberry	High	< 5 feet	Tall Shrub
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2	4130 - Aspen	Sapling Well	11.8	5	Immature	N/A	Stand final harvested in 2016.																																					
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3	3205 - Mixed Upland Shrub	Nonstocked	6.3		Unspecified	No																																						
4	4130 - Aspen	Sapling Well	4.8	5	Immature	N/A	Stand final harvested in 2016. Aspen regen looks good. More white pine in this stand than adjacent.																																					
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5	3303 - Mixed Low Density Trees	Nonstocked	20.2		Unspecified	No																																						
6	4133 - Aspen, Mixed Pine	Sapling Well	1.8	5	Immature	N/A	Stand split by property line - half on private. Red pine plantation final harvested in 2015. Too small to replant. Regen spotty but coming. There is a fair amount of white pine regen starting.																																					
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7	42200 - Natural White Pine	Sawtimber Medium	9.8	74	1-50	N/A	Stand cut in 2015. all aspen and red maple cut along with marked trees.																																					
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8	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	63.4	8	Immature	N/A	Red Pine plantation was harvested for red pine project small pockets of mature red pine were left on site. 3 year regeneration check was performed in 2016. Comments mention re-planting(351 per acre) FINAL REGEN check in 2019, 85 percent survival and 90 percent free to grow. Site is good to go and should be checked again at re-inventory. Site was replanted at least once. Plantation was final harvested in 2011.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**9** 42141 - Planted Mixed Pine, Mixed Deciduous Sapling Well 46.0 31 Immature N/A Young pine strips. Variable to where jack pine and red pine are.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Sapling	3	
Bigtooth Aspen	5	Sapling	3	
Red Pine	55	Sapling	3	31
Jack Pine	25	Sapling	3	
Black Cherry	10	Sapling	3	

**10** 42110 - Planted Red Pine Sawtimber Medium 25.4 86 1-50 N/A This stand has a red pine overstory that was heavily thinned prior to a prescribed burn. The treatment resulted in a flush of bigtooth aspen and red maple which is mostly stump sprout in origin. A portion of the thinned area was excluded from the RXB this area has thicker and taller regen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	14	86	Red Maple	Medium	5 - 10 feet	Sapling
					Quaking Aspen	High	5 - 10 feet	Sapling

**11** 4130 - Aspen Poletimber Well 92.8 62 141-170 N/A Good looking aspen. Harvest this entry. Split up if desired.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log	12		Red Maple	Medium	Variable	Sapling
Basswood	10	Log	12		Beech	Low	Variable	Sapling
Quaking Aspen	15	Pole	8		Black Cherry	Medium	Variable	Sapling
Bigtooth Aspen	50	Pole	8	62	Ironwood	Medium	Variable	Sapling
Red Pine	10	Log	14					

**12** 500 - Water Nonstocked 2.3 Unspecified No

**13** 4130 - Aspen Sawtimber Well 9.0 57 111-140 N/A Good Quality aspen stand on a good site. There are no concerns at this time stand could hold for 10 years.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Log	12		Red Maple	Low	10 - 20 feet	Sapling
Basswood	2	Log	10		White Ash	Low	10 - 20 feet	Sapling
White Ash	3	Log	12		Black Cherry	Low	5 - 10 feet	Sapling
Red Oak	5	Pole/Sap/Log	6		Ironwood	Medium	10 - 20 feet	Sapling
Quaking Aspen	10	Log/Pole	10					
Bigtooth Aspen	78	Log/Pole	10	57				

**14** 42110 - Planted Red Pine Sawtimber Medium 61.0 87 111-140 N/A RXB was done to reduce maple in the understory and promote natural red pine volunteers. Stem quality is mostly sawlog and pulp some cabin logs and poles. Final harvest and regenerate.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Pole/Log	8		Red Maple	Medium	5 - 10 feet	Sapling
Red Pine	98	Log	13	87	Bigtooth Aspen	Low	5 - 10 feet	Sapling
					Black Cherry	Medium	5 - 10 feet	Sapling
					Witch Hazel	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
<b>15</b>	4130 - Aspen	Poletimber Well	30.5	54	111-140	N/A	North end is poor quality and sparse. Rest of stand is very nice and tall aspen. Good oak in stand lots of deer travel. Hold for 10 years.																																																																					
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<b>16</b>	3102 - Grass	Nonstocked	8.2		Unspecified	No																																																																						
<b>17</b>	3205 - Mixed Upland Shrub	Nonstocked	6.5		Unspecified	No																																																																						
<b>18</b>	3301 - Low Density Deciduous Trees	Nonstocked	66.8		Unspecified	Managed Opening																																																																						
<b>19</b>	3204 - Mast Producing Shrub	Nonstocked	2.2		Unspecified	No																																																																						
<b>20</b>	3205 - Mixed Upland Shrub	Nonstocked	5.9		Unspecified	No																																																																						
<b>21</b>	42110 - Planted Red Pine	Poletimber Well	46.7	49	111-140	N/A	Grass groundcover. Aspen is mainly located along edges. Pine is 2-3 sticks at this time, but 7-8" dbh... 3rd row thin.																																																																					
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<b>22</b>	4130 - Aspen	Poletimber Well	63.8	59	111-140	N/A	Stand is good condition at this time. aspen is 4-6 sticks in most places within the stand. Was left for age class considerations last entry. Should harvest this entry, but can hold 10 years if needed. CC w/reserves, retain red oak, white pine and several small pockets containing young sugar maple.																																																																					
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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** 4130 - Aspen Sapling Medium 110.2 8 Immature N/A Cut in 2013.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	1		Red Oak	Medium	10 - 20 feet	Sapling
Red Oak	5	Pole/Log	11		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	25	Pole	1		Serviceberry (Juneberry)	Medium	Variable	Sapling
Bigtooth Aspen	55	Sapling	1	8	Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
Red Pine	3	Log	14					
Jack Pine	2	Pole	1					
Black Cherry	5	Pole	1					

**24** 42200 - Natural White Pine Sawtimber Poor 10.3 74 1-50 N/A Weevil damaged pine. Thinned last entry. Aspen regen looks good.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log/Pole	10		Red Maple	Medium	10 - 20 feet	Sapling
White Pine	75	Log/Pole	12	74	White Ash	Low	10 - 20 feet	Sapling
Red Pine	15	Pole/Sap/Log	5		Black Cherry	Low	10 - 20 feet	Sapling
					Ironwood	Low	10 - 20 feet	Sapling

**25** 4110 - Sugar Maple Association Sawtimber Poor 27.4 78 51-80 N/A Open grown hardwood stand. Poor quality stems very little saw log potential.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Log	12	78	Sugar Maple	Low	< 5 feet	Sapling
Red Maple	5	Log	10		Black Cherry	Low	< 5 feet	Sapling
White Ash	4	Pole	8		Ironwood	Medium	10 - 20 feet	Sapling
Red Oak	2	Pole	8					
Bigtooth Aspen	5	Pole/Log	9					
Black Cherry	2	Log	10					
Ironwood	2	Pole/Sapling	6					

**26** 42110 - Planted Red Pine Sawtimber Well 38.5 75 111-140 N/A Previous Notes: Stand has heavy sugar maple regen AFO indicator species...Thin to previous prescription.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log	14		Sugar Maple	High	10 - 20 feet	Sapling
Red Pine	93	Log	12	75	Red Maple	Medium	5 - 10 feet	Sapling
Black Cherry	2	Log	10		White Ash	Low	5 - 10 feet	Sapling
					Beech	Low	5 - 10 feet	Sapling
					Black Cherry	Medium	5 - 10 feet	Tall Shrub

BA in this stand remains high enough to allow a second thinning. Reduce BA to an average of 80-120. Leaving the BA lower around heavy patches of sugar maple. Thin from below removing low quality and inferior trees first and working up from there. Reducing the BA will allow the sugar maple regen present to flourish and grow into the canopy. Once poles have developed do an overstory removal of red pine converting stand to hardwoods.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
27	4139 - Aspen, Mixed Deciduous	Sawtimber Well	6.3	55	111-140	N/A	Some quality hardwood logs in the sand. Large aspen clones ready to be harvested. Cut aspen and leave areas where hardwood pockets are.																																																								
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28	31022 - Warm Season Grass	Nonstocked	3.8		Unspecified	Managed Opening																																																									
29	4130 - Aspen	Sapling Medium	20.6	7	Immature	N/A	Trace amount of red oak present Cut in 2014																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**33** 4139 - Aspen, Mixed Deciduous Sawtimber Medium 24.4 50 81-110 N/A

Previous Notes: Hardwood Stand follows a ridge that drops in a cedar stand, the bottom of the ridge is wet in some places there is a higher contingent of quaking aspen in these areas. An older contingent of sugar maple has produced a good flush of saplings in various pockets. The indicator species are present for an AFO and an AFOCa in small pockets. Hold for 10 years for age class.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Log	12	90	Sugar Maple	Medium	5 - 10 feet	Sapling
Red Maple	3	Log/Pole	10		Black Cherry	Medium	< 5 feet	Sapling
Beech	2	Pole	6		Ironwood	Low	Variable	Sapling
Quaking Aspen	13	Pole	8		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Bigtooth Aspen	45	Pole	8	50				
Ironwood	2	Sapling/Pole	4					

**34** 330 - Low-Density Trees Nonstocked 7.8 0 Unspecified 42221 - Natural Jack Pine, Mixed Deciduous Treatment was a hanging Next Step... Discuss

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub

**35** 4110 - Sugar Maple Association Sawtimber Well 22.1 73 81-110 N/A Fairly sparse and open grown. Hold.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log	12	73	Sugar Maple	Medium	5 - 10 feet	Sapling
Basswood	10	Log	10		White Ash	Low	< 5 feet	Sapling
White Ash	10	Pole	8		Black Cherry	Medium	5 - 10 feet	Sapling
Beech	2	Log	10		Ironwood	Medium	10 - 20 feet	Sapling
Red Oak	5	Pole	6					
Bigtooth Aspen	3	Pole	8					
White Pine	2	Pole	8					
Ironwood	8	Sapling/Pole	4					

**36** 4111 - S.Maple, Hard Mast Association Sawtimber Well 114.6 105 141-170 N/A Held for Scenic values. High Rollway viewing Area and hiking.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Log/Pole	12	105	Sugar Maple	Low	Variable	Sapling
American Elm	2	Pole	6		White Ash	Low	Variable	Sapling
Red Maple	3	Pole/Log	10		Beech	Low	Variable	Sapling
Basswood	13	Log/Pole	12		Ironwood	Medium	Variable	Sapling
White Ash	10	Pole/Log	10					
Beech	2	Log	12					
Red Oak	10	Log	16					
Bigtooth Aspen	5	Log	14					
Red Pine	3	Log	14					
Hemlock	2	Pole/Sapling	4					

**37** 6229 - Mixed lowland shrub Nonstocked 1.4 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**38** 3205 - Mixed Upland Shrub Nonstocked 5.5 Unspecified Managed Opening

**39** 4130 - Aspen Poletimber Well 48.0 50 141-170 N/A Stand of variable density aspen. Some oak and white pine scattered. Could hold 10 years if needed.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Pole	9	
Bigtooth Aspen	85	Pole	9	50
White Pine	10	Log	13	

**40** 42200 - Natural White Pine Sawtimber Well 8.6 62 111-140 N/A Small drainage on north end of stand flowing from the west. Thin pine?

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		Sugar Maple	Low	5 - 10 feet	Sapling
Red Oak	5	Pole/Log	10		Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	5	Pole/Log	8		White Ash	Medium	10 - 20 feet	Sapling
White Pine	60	Log	12	62	Beech	Low	5 - 10 feet	Sapling
Red Pine	20	Log	12	94	White Pine	Low	< 5 feet	Sapling
Black Cherry	3	Pole	8		Black Cherry	Low	10 - 20 feet	Sapling
Ironwood	2	Pole	4					

**41** 3102 - Grass Nonstocked 1.0 Unspecified No

**42** 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 13.0 89 141-170 N/A Stand could be harvested in a dry summer or winter cut. The majority of wet soils are on the east edge of the stand these areas may need to be buffered to minimize rutting. Check in future entries for harvest possibilities.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Quaking Aspen	Low	< 5 feet	Sapling
Yellow Birch	2	Log	14		Northern White Cedar	Low	Variable	Sapling
Paper Birch	3	Log	12		Green Ash	Low	< 5 feet	Sapling
Quaking Aspen	38	Log	16	88				
Northern White Cedar	42	Log/Pole	10	89				
Green Ash	5	Log	12					

**43** 42110 - Planted Red Pine Sawtimber Well 21.0 68 111-140 N/A Check in 10 years for thinning.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	10	68	Beech	Low	5 - 10 feet	Sapling
					Maple (spp.)	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
<b>44</b>	4133 - Aspen, Mixed Pine	Sapling Well	38.4	5	Immature	N/A	Stand was final harvested in 2015, all oak and green marked pine were left. Aspen regen. looks good																																																										
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<b>45</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	14.9	66	81-110	N/A	Scattered Log size trees with a smaller diameter pole stand growing into the canopy. Poles are primarily bigtooth and red maple. Hold for 10 and check.																																																										
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<b>46</b>	42110 - Planted Red Pine	Sawtimber Well	34.7	77	111-140	N/A	Thinned winter of 2010. Consumers Pine Lease.																																																										
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<b>47</b>	6118 - Lowland Deciduous with Cedar	Poletimber Medium	13.3	105	51-80	N/A	Stand is forested although it is lowland forest and very wet.																																																										
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<b>49</b>	710 - Sand, Soil	Nonstocked	4.0		Unspecified	Managed Opening	Large Fire pit on edge on sand bank. Evidence of trash fires. Party spot.																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>50</b>	4130 - Aspen	Sawtimber Well	36.7	67	141-170	N/A	Stand is aspen with pockets of mixed maple. Harvest leaving some pockets of maple as retention.																																										
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<b>51</b>	3301 - Low Density Deciduous Trees	Nonstocked	2.5		Unspecified	No	
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<b>52</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	26.2	26	Immature	N/A	Stand is on hill leading to Manistee River gorge. There is a drainage running north to south along east edge of stand. Smaller diameters at this time.																																																													
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<b>53</b>	3105 - Mixed Upland Herbaceous	Nonstocked	2.2		Unspecified	No	
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<b>54</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	17.3	93	111-140	N/A	Steep river bank. NCT views																																															
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<b>55</b>	42110 - Planted Red Pine	Sawtimber Well	18.4	77	171-200	N/A	Consumers Plantation																			
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Red Pine	Low	< 5 feet	Sapling																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**56** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 20.8 64 51-80 N/A Harvested in 2015. The main body of this stand is fairly level and treatable. Trail follows the ridgeline that stand runs along.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	25	Log/Pole/Sap	10		Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	25	Log/Pole/Sap	10	64	White Ash	Low	< 5 feet	Sapling
Red Maple	25	Log	11		Black Cherry	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	25	Log/Pole	10					

**57** 4130 - Aspen Sawtimber Well 7.3 78 Unspecified N/A Steep slope leading to river bottom.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	18	Log	10		Red Maple	Low	5 - 10 feet	Sapling
White Ash	2	Pole	6		Black Cherry	Low	< 5 feet	Sapling
Red Oak	5	Log	12	110	Ironwood	Low	5 - 10 feet	Sapling
Bigtooth Aspen	60	Log	12	78				
White Pine	15	Pole/Log	8					

**58** 42110 - Planted Red Pine Sawtimber Well 104.0 77 171-200 N/A Consumers Energy Pine Lease.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Log	12	
Red Pine	95	Log	12	77

**59** 4131 - Aspen, Oak Poletimber Well 31.7 51 111-140 N/A Some large aspen and Oak ,mixed on with younger pole Aspen. Holed this entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	8		Quaking Aspen	Medium	5 - 10 feet	Sapling
Red Oak	23	Log/Pole	13	100	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Quaking Aspen	25	Pole	8					
Bigtooth Aspen	45	Pole	8	51				
White Pine	2	Pole	9					

**60** 4123 - Red Oak Sawtimber Well 12.7 107 81-110 N/A Located on a steep slope leading down to the river. The NCT follows the top of the ridge and borders stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole	4		Sugar Maple	Low	Variable	Sapling
Red Maple	6	Pole	6		Red Maple	Low	Variable	Sapling
White Ash	2	Pole	4		Beech	Low	Variable	Sapling
Beech	2	Pole	6					
Red Oak	88	Log	12	107				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**61** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 19.7 73 141-170 N/A Fairly open grown stand with several grass patches that are used as campsites.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	8	73	White Pine	Low	10 - 20 feet	Sapling
Red Oak	13	Log	16		Ironwood	Low	10 - 20 feet	Sapling
Quaking Aspen	10	Pole	8		Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling
Bigtooth Aspen	15	Log	12					
White Pine	22	Pole/Log	10					
Red Pine	10	Log	10					
Jack Pine	5	Pole/Log	8					

**62** 710 - Sand, Soil Nonstocked 3.0 Unspecified No

**63** 3205 - Mixed Upland Shrub Nonstocked 1.5 Unspecified No

**64** 3205 - Mixed Upland Shrub Nonstocked 2.1 Unspecified No

**65** 4130 - Aspen Sapling Well 65.3 5 Immature N/A There are several vernal ponds located within this stand that will need to be buffered during harvest. Stand was final harvested in 2016 scattered oak were left.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Red Oak	8	Log	14	98
Quaking Aspen	29	Sapling	1	5
Bigtooth Aspen	50	Sapling	1	5
Hemlock	3	Pole	10	

**66** 4131 - Aspen, Oak Sawtimber Medium 8.5 41 Unspecified N/A North country trail overlooks stand. Two age stand with containing oak and pine over younger aspen. On steep slope.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Red Oak	35	Log	14	110	Red Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Sapling	5		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	40	Pole/Sapling	5	41	Serviceberry (Juneberry)	Low	< 5 feet	Tall Shrub
White Pine	3	Log/Pole	12					
Red Pine	2	Pole	8					

**67** 6225 - Bog Nonstocked 32.1 Unspecified No





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
<b>68</b>	6120 - Lowland Cedar	Sawtimber Well	2.8	103	201+	N/A	Several seeps bubbling out of the ground.																																																										
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<b>69</b>	710 - Sand, Soil	Nonstocked	1.1		Unspecified	No																																																											
<b>70</b>	710 - Sand, Soil	Nonstocked	5.2		Unspecified	No	Sand bank leading down to river. Below high rollways observation deck.																																																										
<b>71</b>	4131 - Aspen, Oak	Sawtimber Well	9.9	103	Unspecified	N/A	Stand is located on a steep ridge dropping into the manistee river valley.																																																										
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<b>73</b>	629 - Mixed non-forested wetland	Nonstocked	3.0		Unspecified	No	Small vernal pond buffer when surrounding stand is harvested.																																																										
<b>74</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	6.3	51	81-110	N/A	This stand is 20'-30' lower in elevation than the adjacent stand and extends into the river bottom. there are pockets of standing water and evidence of flooding.																																																										
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<b>75</b>	710 - Sand, Soil	Nonstocked	4.0		Unspecified	No	Scattered trees on steep river bank																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>76</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	28.2	106	81-110	N/A	Stand was thinned in 2016. Regeneration looks ok, but raspberry in places.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		65	Log	10	106	White Ash		Low	Variable	Sapling
Basswood		8	Log	12		Beech		Low	Variable	Sapling
Red Oak		25	XLog/Log	20		Bigtooth Aspen		Low	Variable	Sapling
Black Cherry		2	Log/Pole	10		Ironwood		Low	Variable	Sapling

<b>77</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	27.1	134	51-80	N/A	Pockets along Manistee River Banks			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		25	Log	16		Black Ash		Low	10 - 20 feet	Sapling
Northern White Cedar		30	Log	12	134	Hawthorn (spp.)		Low	10 - 20 feet	Tall Shrub
Black Ash		25	Pole	8	101					
Green Ash		20	Pole	8						

<b>78</b>	3205 - Mixed Upland Shrub	Nonstocked	1.0		Unspecified	Managed Opening	
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<b>79</b>	4130 - Aspen	Sapling Poor	50.2	6	81-110	N/A	Cut in 2015.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		5	Log	14		White Pine		Low	10 - 20 feet	Sapling
Red Pine		10	Log	14						
Bigtooth Aspen		85	Sapling	1	6					

<b>80</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.5	120	171-200	N/A	Along lower level of flood plain but above the "E" type. Trace of yellow birch.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		35	Pole/Log	10	120	Sugar Maple		Low	Variable	Sapling
Red Maple		10	Pole/Log	8		Beech		Low	Variable	Sapling
Basswood		10	Log/Pole	10		Ironwood		Low	Variable	Sapling
White Ash		2	Pole	8		Serviceberry (Juneberry)		Low	< 5 feet	Tall Shrub
Beech		12	Log	14						
Red Oak		20	Log	14	90					
Quaking Aspen		3	Pole	8						
Bigtooth Aspen		6	Pole	8						
Hemlock		2	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>81</b>	4133 - Aspen, Mixed Pine	Sawtimber Poor	3.6	83	51-80	N/A	Sparse aspen mix on banks of river.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	6		Red Oak	Low	< 5 feet	Sapling
Red Oak	15	Log	14		White Pine	Low	Variable	Sapling
Bigtooth Aspen	40	Log/Pole	12	83	Witch Hazel	Low	< 5 feet	Tall Shrub
White Pine	25	Log/Pole	14	103	Juniper	Medium	< 5 feet	Tall Shrub
					Serviceberry (Juneberry)	Low	Variable	Tall Shrub

<b>82</b>	4130 - Aspen	Sapling Medium	32.3	5	Immature	N/A	Stand cut in 2016. Regeneration looks good.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	5
Red Oak	5	Log	14	
Quaking Aspen	10	Sapling	1	
Bigtooth Aspen	50	Sapling	1	5
White Pine	10	Pole	7	
Red Pine	5	Log	12	

<b>83</b>	6120 - Lowland Cedar	Sawtimber Well	20.3	94	201+	N/A	River corridor buffer stand along steep banks.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Log/Pole	10		Green Ash	Low	10 - 20 feet	Sapling
Basswood	5	Log	11		Musclewood/Hornbeam	Low	10 - 20 feet	Sapling
Northern White Cedar	85	Log	14	94				
White Pine	2	Log	16					
Black Ash	2	Pole	6					
Green Ash	3	Pole/Log	8					

<b>84</b>	3303 - Mixed Low Density Trees	Nonstocked	3.1		Unspecified	No	
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<b>85</b>	42210 - Natural Red Pine	Sawtimber Well	10.1	146	141-170	N/A	Very scenic stand of large red pine and oak. NCT overlooks. STEEP bank to river. Evidence of previous fire activity. Most of red pine are fire scarred and well as some of the oak. Hillside is scattered with burned over pine stumps.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	25	Log	14		Red Maple	Low	Variable	Sapling
Quaking Aspen	5	Pole/Log	10		Red Oak	Low	Variable	Sapling
Bigtooth Aspen	5	Pole/Log	10		White Pine	Low	Variable	Sapling
White Pine	5	Log	12		Red Pine	Low	Variable	Sapling
Red Pine	60	Log	14	146	Black Cherry	Low	Variable	Sapling
					Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
<b>86</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	38.9	78	171-200	N/A	Most of this stand is within natural river corridor. Adjacent portion was harvested last entry.																																																					
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<b>87</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	169.8	105	51-80	N/A	STAND was thinned in 2017 winter. Operations went well. All ash and aspen was cut by spec. Very nice hardwood stand that has a diverse stand dynamic depending on location within the stand. lots of use by public. High rollways viewing area. West end of stand has some steep hills that may require some creative harvest techniques. Regeneration is ok, but lots of raspberry bushes in places.																																																					
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<b>88</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	7.9	103	201+	N/A	Unique stand of river edge cedar. stand would appear to provide good thermal cover but very little deer activity present. 11" cedar cored much larger trees present.																																																					
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<b>89</b>	3301 - Low Density Deciduous Trees	Nonstocked	46.2		Unspecified	Managed Opening	Under Maintenance plan. Filling in with A3.																																																					
<b>91</b>	4130 - Aspen	Sapling Well	16.8	17	Immature	N/A	Wildlife habitat cut done in winter of 2002/2003 FTP# W63-521																																																					
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<b>92</b>	3301 - Low Density Deciduous Trees	Nonstocked	48.8		Unspecified	Managed Opening																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
<b>93</b>	4131 - Aspen, Oak	Sapling Well	16.1	6	51-80	N/A	Harvested in 2015. The main body of this stand is fairly level and treatable. Trail follows the ridgeline that creates the southern boundary of the stand.																																																																								
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<b>94</b>	4131 - Aspen, Oak	Poletimber Medium	16.4	17	1-50	N/A	Stand is mostly aspen regen with a red oak overstory. All cut aspen was left on site. Prior inventory noted an FTP that puts the cut in the winter of 2002/2003 FTP# W 63-521. Residual oak carries a BA of 10-50																																																																								
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<b>95</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Well	12.1	136	81-110	N/A	Along river edge. Standing water pockets scattered throughout stand.																																																																								
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<b>98</b>	6120 - Lowland Cedar	Sawtimber Well	3.4	123	111-140	N/A	Step with some seep drains.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**99** 6118 - Lowland Deciduous with Cedar Sawtimber Well 3.3 83 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole	6		Black Ash	Low	10 - 20 feet	Sapling
Red Maple	5	Pole	6					
Basswood	10	Pole	8					
Northern White Cedar	25	Log	12					
Black Ash	48	Pole	8	83				
Green Ash	10	Log	12					

**101** 4111 - S.Maple, Hard Mast Association Poletimber Well 45.8 87 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Pole/Log	10	87	Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	15	Pole/Log	10		Ironwood	Medium	Variable	Sapling
Basswood	15	Log	10					
White Ash	10	Pole/Log	10					
Beech	5	Log	12					
Red Oak	5	Log	16					
Bigtooth Aspen	5	Log	12					

**102** 4199 - Other Mixed Upland Deciduous Sawtimber Well 91.7 114 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Pole/Log	11	67	Beech	Low	5 - 10 feet	Sapling
Red Maple	10	Pole/Log	8		Ironwood	Low	5 - 10 feet	Sapling
Basswood	6	Log/Pole	12					
Basswood	10	Pole/Log	11					
White Ash	5	Pole/Log	8					
Red Oak	40	Log	16	114				
Hemlock	2	Sapling/Pole	4					
Ironwood	2	Sapling/Pole	4					

Sugar maple component decreases toward the west side of the stand. opengrown stand with very little regen underneath canopy. NCT passes through stand.

**103** 4111 - S.Maple, Hard Mast Association Sawtimber Well 25.4 86 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	76	Log	14	86	Quaking Aspen	Low	< 5 feet	Sapling
Red Maple	2	Log	10		White Ash	Low	< 5 feet	Sapling
Basswood	2	Log	12		Beech	Low	5 - 10 feet	Sapling
Red Oak	10	Log	14		Ironwood	Medium	5 - 10 feet	Sapling
White Pine	8	XLog/Log	26					
Hemlock	2	Log/Pole	10					

Stand thinned in 2017 along with large stand to south. Super canopy of White Pine and some Hemlock.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**104** 42210 - Natural Red Pine Poletimber Well 9.9 63 201+ N/A Small red pine stand on a penninsula in the manistee river.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	8		Ironwood	Low	10 - 20 feet	Sapling
White Ash	2	Log	12					
Bigtooth Aspen	2	Log	10					
Red Pine	92	Pole	8	63				
Ironwood	2	Pole	6					

**105** 6118 - Lowland Deciduous with Cedar Poletimber Medium 8.9 113 51-80 N/A River edge stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Log	9		Black Ash	Low	5 - 10 feet	Sapling
Basswood	18	Log	12		Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub
Northern White Cedar	30	Log	14	113				
White Pine	2	Pole	9					
Black Ash	25	Pole	6					
Green Ash	23	Pole/Log	8					

**106** 3301 - Low Density Deciduous Trees Nonstocked 10.4 Unspecified No

**107** 3102 - Grass Nonstocked 2.0 Unspecified No

**108** 4130 - Aspen Poletimber Well 14.9 38 Unspecified N/A Good aspen. Check in 10 years.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	12		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Red Oak	3	Log	16					
Bigtooth Aspen	90	Pole	6	38				
White Pine	2	Pole	6					

**109** 4139 - Aspen, Mixed Deciduous Sawtimber Well 10.3 97 171-200 N/A NCT bisects stand. Previous inventory notes to allow natural progression to northern hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log	10		White Ash	Low	Variable	Sapling
Basswood	5	Log	10		Beech	Low	Variable	Sapling
White Ash	13	Log	10		Red Oak	Low	Variable	Sapling
Beech	5	Pole/Sapling	4		Ironwood	Low	Variable	Sapling
Red Oak	5	Pole	6					
Quaking Aspen	22	Log	12					
Bigtooth Aspen	30	Log	12	97				
Ironwood	5	Pole/Sapling	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**110** 4131 - Aspen, Oak Sawtimber Medium 36.0 73 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	10	Pole	9		Red Oak	Low	10 - 20 feet	Sapling
Basswood	5	Pole	6		White Pine	Low	< 5 feet	Sapling
Red Oak	25	Log	14		Black Cherry	Low	Variable	Sapling
Bigtooth Aspen	40	Log/Pole	12	73				
White Pine	10	Pole	8					

**111** 4199 - Other Mixed Upland Deciduous Sawtimber Well 54.0 102 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Pole	8		White Ash	Low	< 5 feet	Sapling
Red Maple	2	Pole/Log	10		Ironwood	Medium	Variable	Sapling
Basswood	5	Pole/Log	10					
White Ash	8	Pole/Log	10					
Red Oak	50	Log	16	102				
Bigtooth Aspen	5	Log/Pole	10					
White Pine	5	Pole	8					
Black Cherry	2	Pole	6					
Ironwood	3	Pole	6					

**113** 6118 - Lowland Deciduous with Cedar Sawtimber Well 8.4 77 51-80 N/A No access. River flood plain.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log	10		Red Maple	Low	< 5 feet	Sapling
Basswood	10	Log/Pole	10	102	Black Ash	Low	5 - 10 feet	Sapling
Northern White Cedar	25	Pole	9		Green Ash	Low	5 - 10 feet	Sapling
Black Ash	35	Pole/Log	10	77	Prickly Ash	Low	Variable	Tall Shrub
Green Ash	25	Log	10		Currant	Low	< 5 feet	Tall Shrub
					Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub

**114** 6118 - Lowland Deciduous with Cedar Poletimber Well 16.8 75 51-80 N/A Wet mucky ground on inside of river bend at base of very steep slope no chance of equipment access.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Quaking Aspen	45	Pole/Sapling	10	75	Black Ash	Low	Variable	Sapling
Northern White Cedar	25	Pole/Log	10					
Hemlock	5	Pole/Log	10					
Black Ash	10	Pole/Sapling	6					
Green Ash	10	Sapling/Pole	6					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
<b>115</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	22.1	101	Unspecified	N/A	Converting from mature aspen to northern hardwoods. Allow natural conversion due to heavy travel influences-North Country Trail. Extends around bend of river.																																																																
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<b>116</b>	4110 - Sugar Maple Association	Sawtimber Well	24.6	73	111-140	N/A	Flood plain very rich soil																																																																
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<b>117</b>	3102 - Grass	Nonstocked	1.2		Unspecified	No																																																																	
<b>118</b>	710 - Sand, Soil	Nonstocked	1.5		Unspecified	No	Sand bank about 100 feet tall along Manistee R.																																																																
<b>120</b>	6229 - Mixed lowland shrub	Nonstocked	3.1		Unspecified	No																																																																	
<b>121</b>	42110 - Planted Red Pine	Poletimber Well	1.8	70	201+	N/A	Very small planation thinning may not be logistically viable. Thin if somehow conducive to add to nearby sale.																																																																
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<b>122</b>	110 - Low Intensity Urban	Nonstocked	1.1		Unspecified	Managed Opening	Boat launch and toilet																																																																
<b>124</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	13.8	134	111-140	N/A																																																																	
<b>125</b>	3301 - Low Density Deciduous Trees	Nonstocked	3.6			Managed Opening																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
128	500 - Water	Nonstocked	0.6		Unspecified	No	