



# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 63133

Entry Year 2022

Acreage: 2,649

County Wexford

Management Area: Manistee River Valley

**Revision Date:** 2020-04-23

**Stand Examiner:** Joe Ventimiglia

### Legal Description:

T24N, R11W, Sections 13,23,24,25,26 & 36

### Identified Planning Goals:

Vegetation management in the Manistee River Valley Management Area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern

### Soil and topography:

Rubicon, Montcalm-Graycalm, generally droughty, infertile soils with the exception of the southern portion of section 36 where relatively fertile soils support a good northern hardwood stand and some good aspen. Generally flat and excessively drained. Local sharp relief around the Manistee River and the Soper and Filer tributaries.

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

Consumers' Energy owns timber rights two of the largest red pine plantations in the compartment. South end of section 36 is private but the rest of the sections are solid state ownership.

### Unique Natural Features:

A large portion of acreage in this compartment is composed of natural jack, white and red pine stands. Natural Features Inventory lists Wood Turtles along the Manistee River.

### Archeological, Historical, and Cultural Features:

None listed, however, a section of the locally known as Old Indian Trail runs through the SW corner of section 26.

### Special Management Designations or Considerations:

Preserve water quality by using BMPs. The Manistee is being nominated for Natural River Status and management plans should follow the guidelines set for the River.

### Watershed and Fisheries Considerations:

The Manistee River, Soper Creek, and Filer Creek are located within this compartment. The Manistee River has been recommended for designation as a Natural River under Part 305 of Act 451. Therefore, according to the Natural Rivers Management Plan draft (page 70), no cutting should take place within 175 feet of the Manistee River. No cutting should take place within 75 feet of Soper Creek, and no cutting should occur within 50 feet of Filer Creek or any of the other small tributaries in this area. Shade, limiting sediment input, and woody debris recruitment are crucial to trout streams. Restricting cutting to outside the appropriate buffers will help to maintain the temperatures and habitat required to maintain the health of these streams, and the watershed in general. Also, active management for aspen regeneration in riparian zones adjacent to Soper and Filer Creeks and other tributaries should be avoided. Young aspen is a prime source of food for beavers, and beavers have the potential to negatively impact trout streams. Mark Tonello

### 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 massasuga rattlesnake, golden-winged warbler, mallard, pileated woodpecker, ruffed grouse, snowshoe hare, white-tailed deer, and wood duck. 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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse textured glacial till to the south. Glacial drift thickness varies between 200 and 600 feet. There is over 150 feet of relief within the compartment.

Beneath the Glacial Drift are the Mississippian Michigan Formation and the Marshall Sandstone. The Michigan Formation is quarried for gypsum in other areas of the State and the Marshall was previously used as a building stone. A gravel pit is located within one mile to the south and gravel potential is considered good on the south end of the compartment. This area lies four miles south of the prolific Silurian Niagaran reef trend. There does not appear to be any potential for Niagaran reefs in this area. This area is not currently leased for oil and gas and potential is limited. Half of the compartment is surface only.

**Vehicle Access:**

A forest road access plan is detailed on the compartment map as well as on the State of Michigan DNR website. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Hunting, fishing and canoeing. A county road, river access site is located at the end of 23 Mile Road on the Manistee River. The MCCCT Trail traverses the compartment. The trail is maintained under an ORV grant by an ORV club.

**Fire Protection:**

Fuel types within compartment could support larger fire growth. Access is from the south as the Manistee River is on the north side of compartment. Dispersed camping and other recreational use could be a cause for wildfire ignitions. Wheeled suppression vehicles could be utilized.

**Additional Compartment Information:**

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

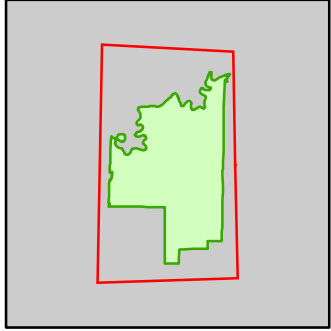
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

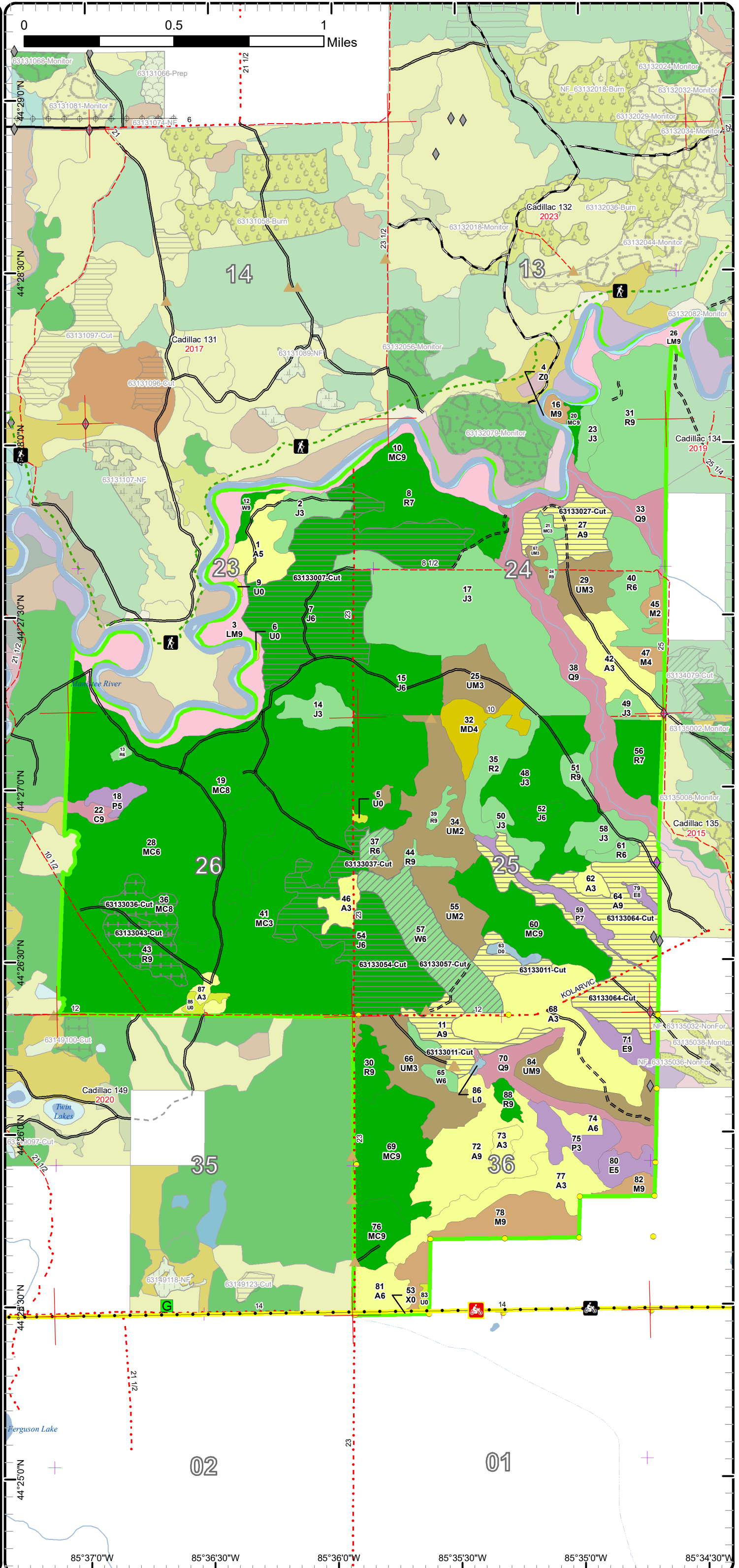
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 133  
 T24N R11W, Sec. 13, 23-26, 36  
 County: Wexford  
 Unit: Cadillac  
 Mgmt Area: Manistee River Valley  
 YOE: 2022  
 Acres: 2,649 GIS Calculated  
 Examiner: Joe Ventimiglia  
 Map Revised: 6/15/2020  
 Map Phase: Web-Post

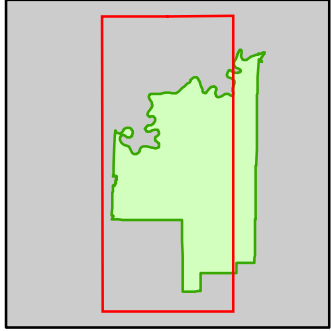


- Miris Corners
- ⊕ Remonumented Section Corners
- ⬠ Survey Grade Corners
- ◆ Field Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🏍 Motorcycle Trails (SOS License)
- 🚲 MCCCT Trails
- ⋯ Designated Hiking Trails
- ORV License
- 🚲 Michigan Cross Country Cycle Trail (MCCCT)
- ⋯ Intermittent Stream
- 🌊 Lake/Pond
- 🌊 Perennial River
- 🌊 Lakes and Rivers
- ▬ Berms
- Ⓜ Gate
- 🟩 Compartment Boundary
- ▨ Clearcut (w/Reserves)
- ⊕ Harvest, Overstory Removal
- ▨ Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

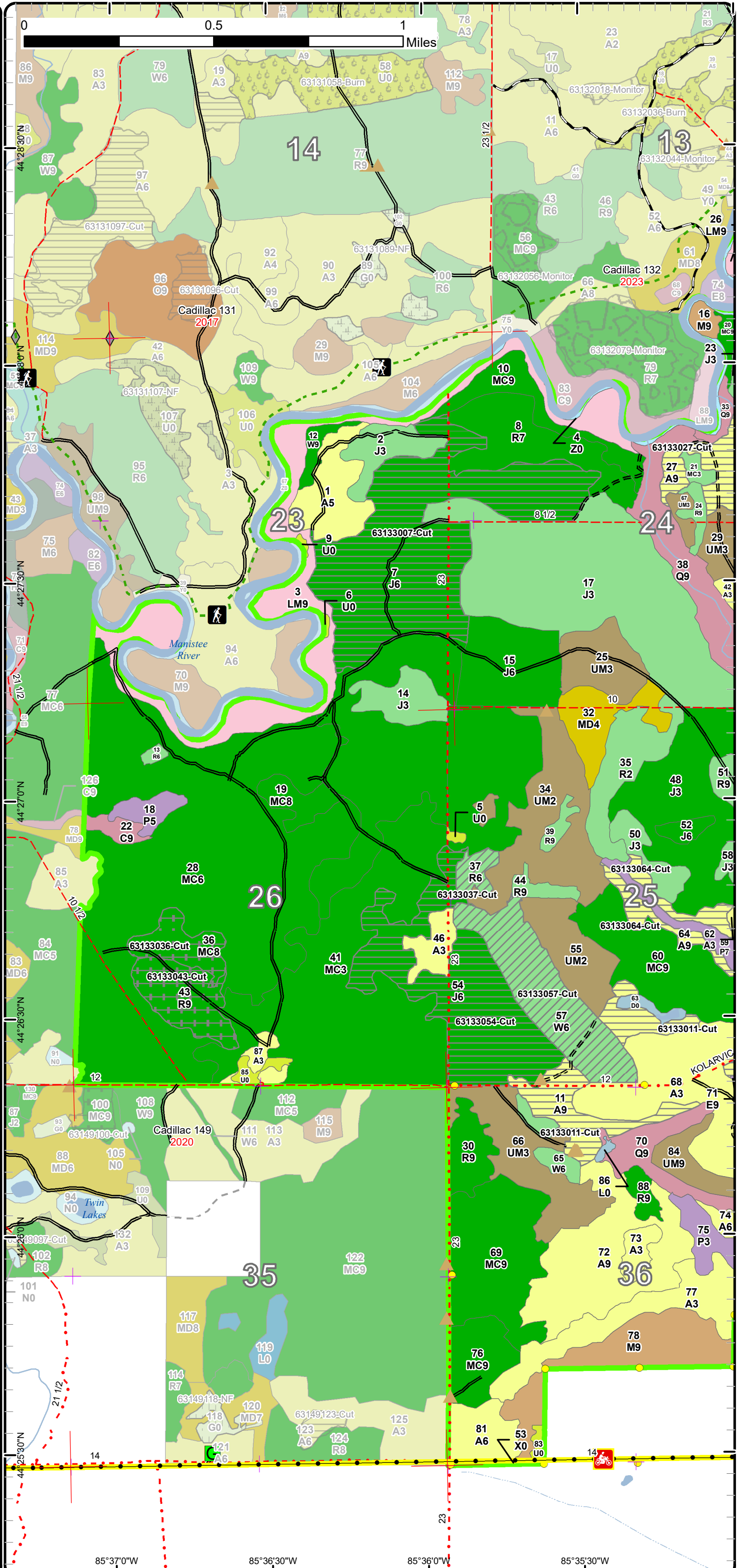


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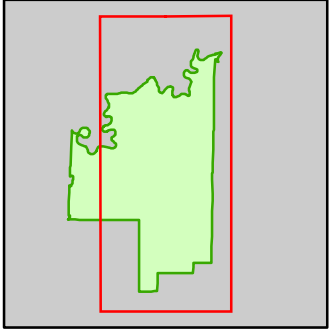


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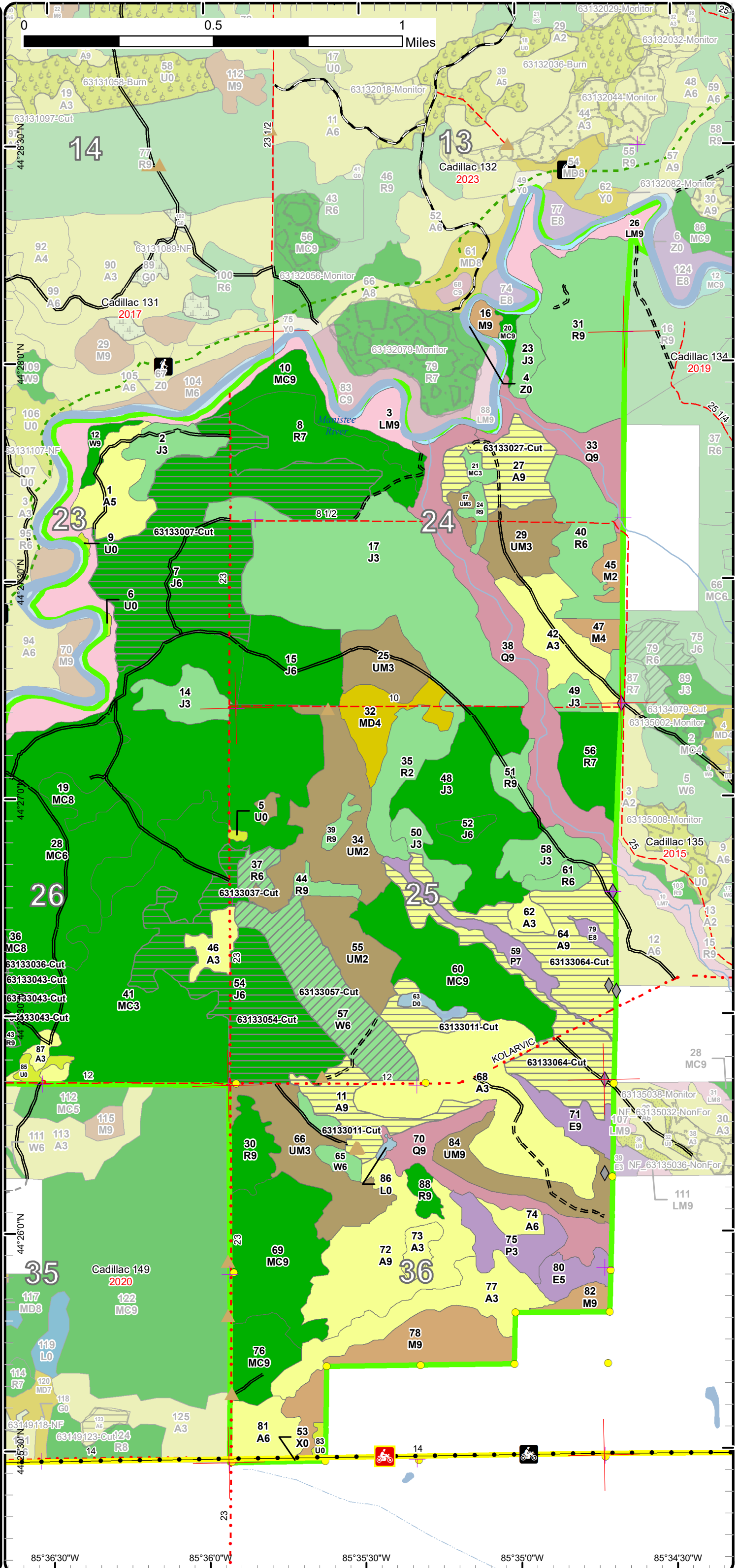


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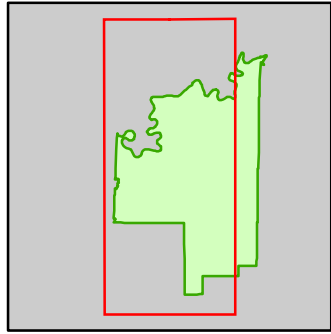


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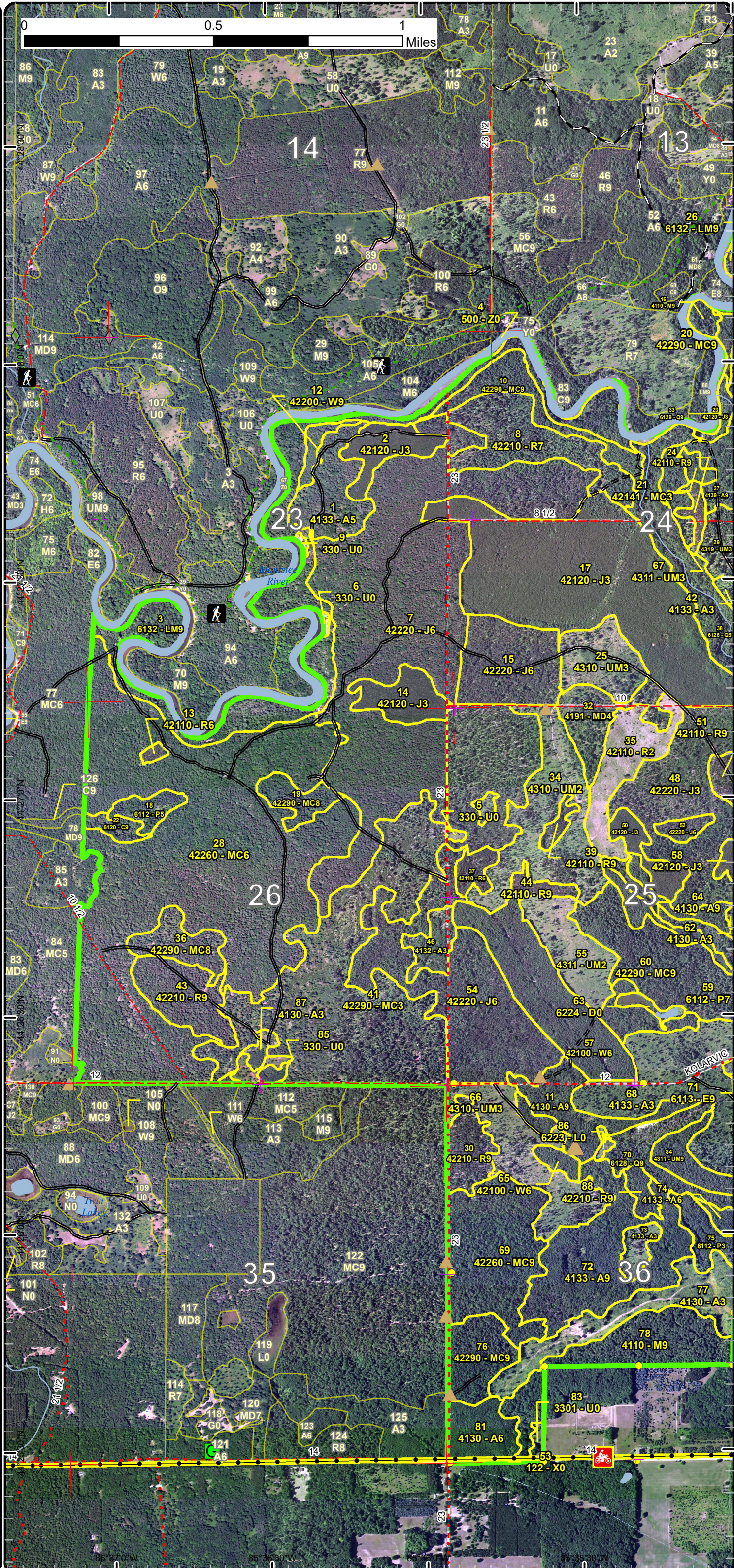


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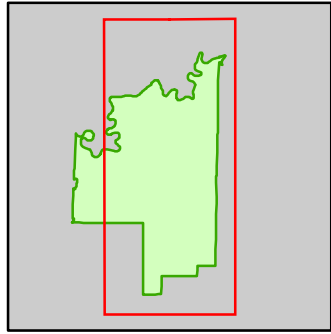


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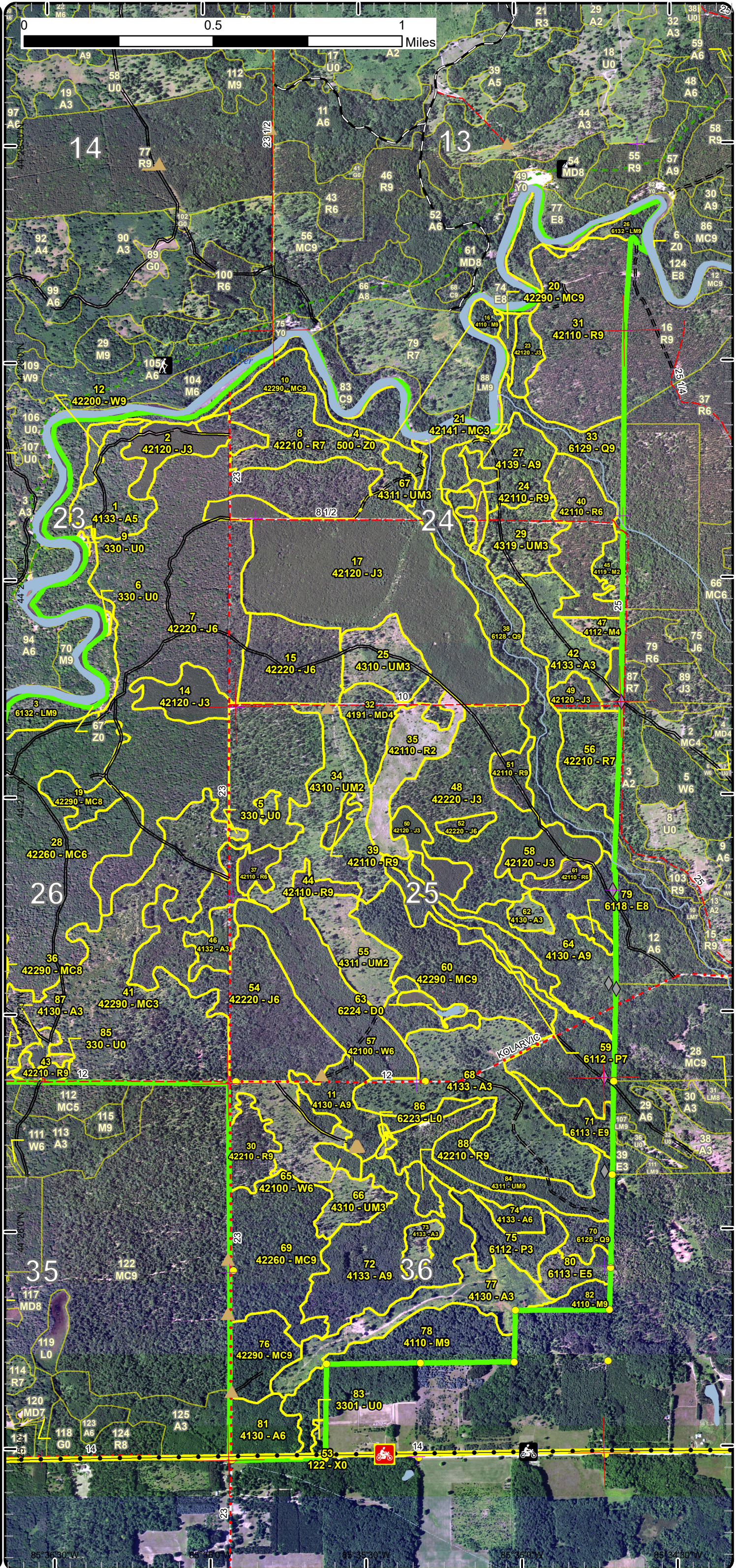


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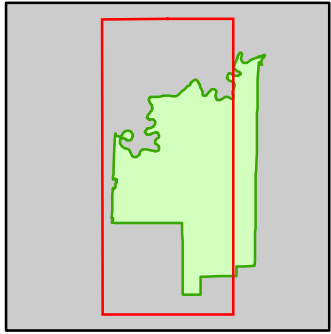


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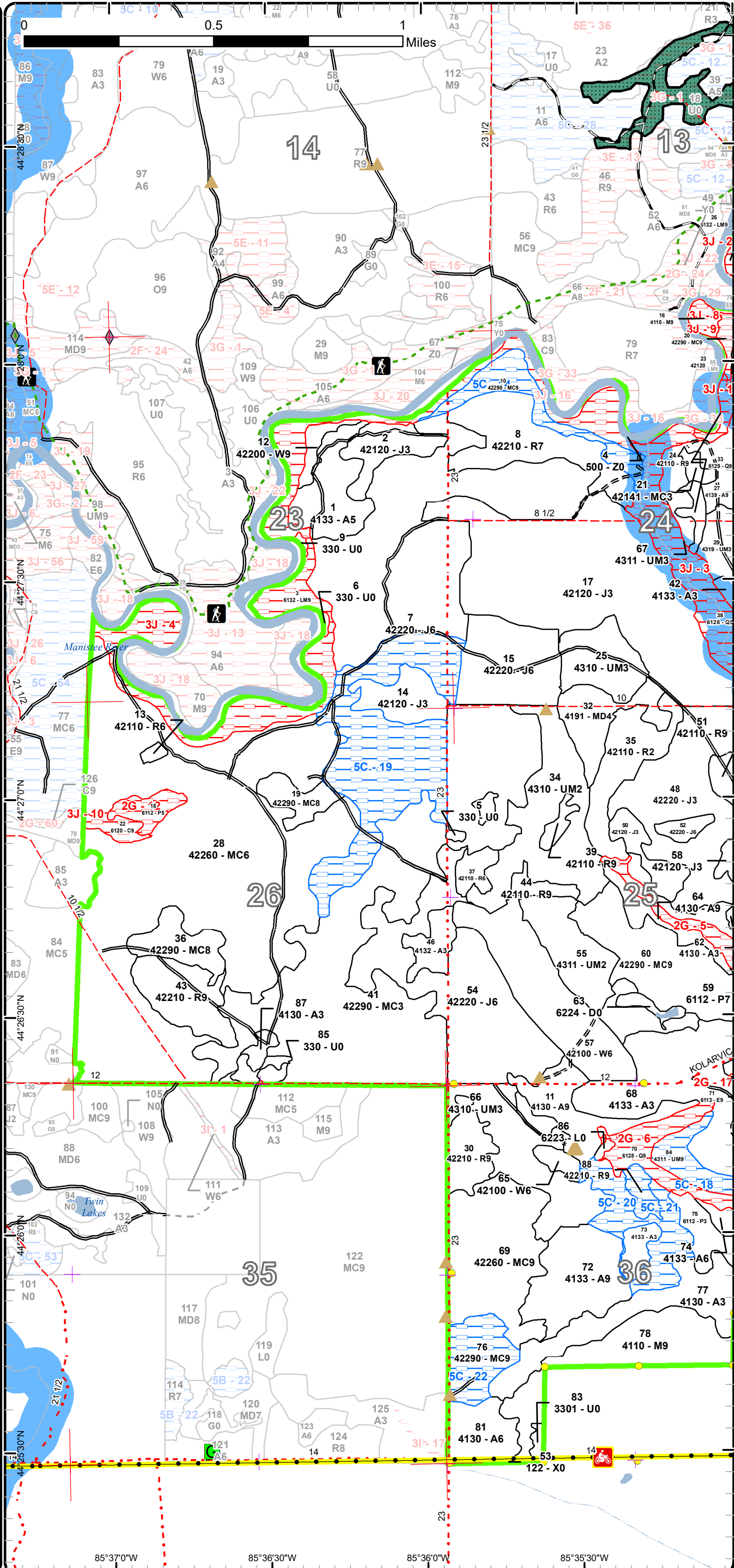


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- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor

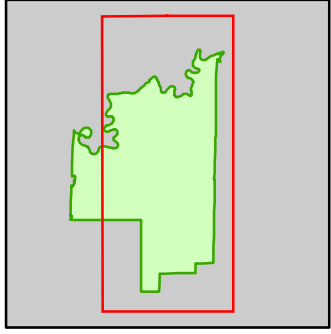


85°37'0"W      85°36'30"W      85°36'0"W      85°35'30"W

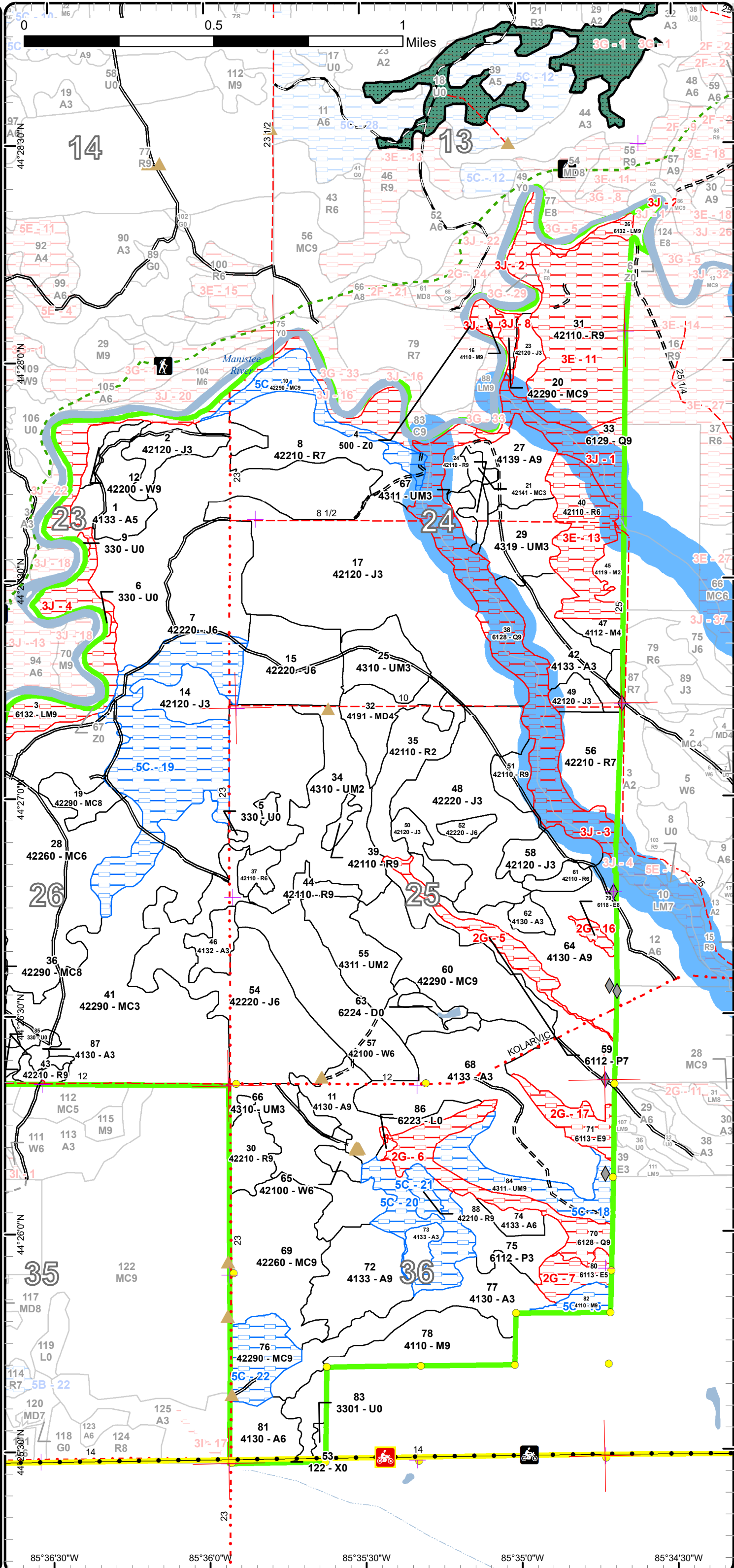


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Age Class

	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	161	0	16	43	61	123	34	0	0	0	0	0	0	0	0	0	0	438
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Jack Pine	0	0	65	212	36	0	4	301	0	0	0	0	0	0	0	0	0	0	618
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	19	8	0	0	0	14	0	0	0	0	0	0	0	0	0	40
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	89	29	0	0	0	0	118
Lowland Deciduous	0	0	0	0	0	0	0	14	13	0	0	0	0	0	0	0	0	0	27
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	15	81	0	0	0	0	0	0	96
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	21
Natural Mixed Pines	0	0	188	0	0	0	0	31	0	55	78	0	16	0	0	0	0	288	655
Northern Hardwood	0	0	0	6	0	0	0	0	6	0	6	46	0	0	0	0	0	0	64
Planted Mixed Pines	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Red Pine	0	27	0	0	0	0	0	20	201	5	0	0	24	0	0	0	0	0	277
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	140	27	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	193
Urban	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	57	5	0	0	0	0	0	0	0	0	0	0	62
<b>Total</b>	<b>31</b>	<b>328</b>	<b>280</b>	<b>256</b>	<b>87</b>	<b>61</b>	<b>205</b>	<b>431</b>	<b>234</b>	<b>60</b>	<b>99</b>	<b>127</b>	<b>129</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>288</b>	<b>2648</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 133

Total Compartment Acres: 2,649

Commercial Harvest - 462  
 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	151	0	0	0	0	0	0	0	0	151
Jack Pine	216	0	0	0	0	0	0	0	0	216
Natural Mixed Pines	0	0	0	0	0	16	0	0	0	16
Red Pine	0	0	0	0	6	24	0	0	0	31
White Pine	0	0	0	0	49	0	0	0	0	49
<b>Total</b>	<b>367</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>462</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	462	0	0	0	0	0	0	0	0	462
Next Step	0	133	133	0	0	133	524	0	0	924
<b>Total</b>	<b>462</b>	<b>133</b>	<b>133</b>	<b>0</b>	<b>0</b>	<b>133</b>	<b>524</b>	<b>0</b>	<b>0</b>	<b>1386</b>



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

<b>7</b>	<b>63133007-Cut</b>	133.2	42220 - Natural Jack Pine	Poletimber Well	60	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final Harvest 2 inches and up. No retention as a result of planting red pine following harvest.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Artificial Regen(1yr); SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial  <u>Treatments:</u> Regen(3yr)  <u>Acceptable</u> Planted red pine.  <u>Regen:</u>  <u>Other</u> Breaking up large natural jack pine stand. Require chipping or alternative method of dealing with slash, as well as low stumps. Trench and  <u>Comment:</u> plant site to red pine. Use all methods in tool box to properly site prep site for plantation red pine. Site was chosen as a result of management plan need for restarting of red pine.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>11</b>	<b>63133011-Cut</b>	33.7	4130 - Aspen	Sawtimber Well	65	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Final Harvest leave retention area 3 to 5 percent of total acreage. As well leave all white pine 3 inches in diameter and under.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Intermediate)  <u>Treatments:</u>  <u>Acceptable</u> Aspen with mixed white pine.  <u>Regen:</u>  <u>Other</u> Map retention in MIFL.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>27</b>	<b>63133027-Cut</b>	26.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final Harvest leave retention island 3 to 5 percent of total acreage.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen with mix of red maple and white pine accepted as well.  <u>Regen:</u>  <u>Other</u> Buffer Manistee river and creek appropriately. Note legacy red oak in middle of stand, protect or include in retention island.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</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
<b>36 63133036-Cut</b>	15.5	42290 - Natural Mixed Pine	Sawtimber Medium	115	81-110	Harvest	Overstory Removal	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Overstory removal. Cut all trees 5 inches and greater. No retention as a result of small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed pine and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect as much of understory as possible this will be future stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>37 63133037-Cut</b>	6.3	42110 - Planted Red Pine	Poletimber Well	61	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Perform second thinning on planted red pine. As well cut all jack pine by spec. Few scattered white pine should be left.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>43 63133043-Cut</b>	24.4	42210 - Natural Red Pine	Sawtimber Well	115	141-170	Harvest	Overstory Removal	42201 - Natural White Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Overstory removal. Cut all trees 5 inches in diameter and greater. Leave one island 3 to 4 percent of total acreage as retention.</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> Protect as much white pine understory in stand.</p> <p><u>Regen:</u></p> <p><u>Other</u> Advanced understory protected as much as possible during harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
54	63133054-Cut	82.4	42220 - Natural Jack Pine	Poletimber Well	61	81-110	Harvest	Clearcut with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final Harvest leave retention island or islands at 3 to 5 percent of total acreage. As well leave all white pine under 6 inches in diameter.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed pine with oak, aspen and red maple mixed in as well.</p> <p><u>Regen:</u></p> <p><u>Other</u> map retention in MIFI.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
57	63133057-Cut	49.4	42100 - Planted White Pine	Poletimber Well	58	141-170	Harvest	Systematic Thinning	42141 - Planted Mixed Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Systematic take two- leave two rows of planted white pine. Cut all aspen, red maple and jack pine found within planation by spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> White pine rows are fairly well defined producer will have to make rows in some areas where rows are less defined.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
64	63133064-Cut	90.3	4130 - Aspen	Sawtimber Well	51	Unspecified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final Harvest leave retention 3 to 5 percent of total acreage. As well thin natural red pine pocket in stand leaving all other scattered red.</p> <p><u>Specs:</u> Leave all white pine under 6 inches in diameter.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen primary with some mixed pine and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> Map retention in MIFI. Be aware of drainages in stand when setting up sale. High water at inventory imagine in dry summer no issue.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

**Total Treatment** 462.1  
**Acreage Proposed:**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment: 133  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				5C	2G	3E	3G	3J
438	411	<b>26</b>		0	Aspen	<b>26</b>				
5	0	<b>0</b>		5	Cedar					5
618	533	<b>85</b>		0	Jack Pine	<b>85</b>				0
8	8	<b>0</b>		0	Low-Density Trees					
40	19	<b>0</b>		22	Lowland Aspen/Balsam Poplar		22			
118	0	<b>0</b>		118	Lowland Conifers		29	0		89
27	0	<b>0</b>		27	Lowland Deciduous		27			
96	0	<b>0</b>		96	Lowland Mixed Forest					96
1	1	<b>0</b>		0	Lowland Shrub					
21	21	<b>0</b>		0	Mixed Upland Deciduous					
656	612	<b>41</b>		3	Natural Mixed Pines	<b>41</b>				3
65	55	<b>6</b>		4	Northern Hardwood	<b>6</b>				4
3	3	<b>0</b>		0	Planted Mixed Pines					
278	165	<b>5</b>		108	Red Pine	<b>5</b>		108		0
4	4	<b>0</b>		0	Treed Bog					
192	166	<b>26</b>		0	Upland Mixed Forest	<b>26</b>				
0	0	<b>0</b>		0	Urban					
18	18	<b>0</b>		0	Water				0	0
62	62	<b>0</b>		0	White Pine					
2,649	2,077	<b>189</b>		383	Total Forested Acres	<b>189</b>	78	108	0	197
	78%	<b>7%</b>		14%	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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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2	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	66	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for creek.							
4	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	81	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Combination of buffer for Manistee river and too wet area off the bluff that are not suitable to commercial management.							
5	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	29	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream through most of stand. About 3 feet wide stream, plus mostly too wet.							
7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Report 4 – Site Conditions

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Consumers red pine.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Habitat cut historically.							
13	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment: 133  
Year of Entry: 2022

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delay for future YOE, pine will hold and spacing good to leave.							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Less than 6 acre isolated hardwood block very difficult access. Is possible but hold until adjacent stand is treated.							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold for Next YOE							

Report 4 – Site Conditions

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19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	85	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Breaking up age class of large stand.</p>							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Breaking up large stand, cut this half next YOE.</p>							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Hold for next YOE when rest of stand 72 is cut.</p>							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  See draft treatment comments.</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
<b>1</b>	4133 - Aspen, Mixed Pine	Poletimber Medium	24.7	37	51-80	N/A	Mixed stand that appears was cut in the 1980s with some oak and pine left from that harvest. White pine mixed in the north with log oak mixed into north.																																																																	
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<b>2</b>	42120 - Planted Jack Pine	Sapling Well	15.3	25	Immature	N/A	Stand was final harvested in 1995. Jack plantation densely planted/seeded, growing well.																																																																	
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<b>3</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	80.6	106	81-110	N/A	Large buffer complex to Manistee. Most of this area is off the bluff of the river, with a portion being on top of the bluff but within natural river buffer. Stand is primary lowland along the river flats, but upland as you grade up the bluff. Within this corridor timber varies from nice hardwood pockets, to lowland cedar and hardwoods. Many unofficial camping spots that have been created over the decades in this area along the top of the bluff.																																																																	
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<b>4</b>	500 - Water	Nonstocked	18.2	0	Unspecified	No	Manistee River																																																																	
<b>5</b>	330 - Low-Density Trees	Nonstocked	0.9	0	Unspecified	No	Open appears to be old landing site.																																																																	
<b>6</b>	330 - Low-Density Trees	Nonstocked	0.7	0	Unspecified	No	Open camping along river.																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
<b>7</b>	42220 - Natural Jack Pine	Poletimber Well	218.2	60	81-110	N/A	Large jack pine dominant stand with minor mix of red pine, scattered oak, aspen, red maple and white pine. Oak and aspen concentrated on west edge. Red Pine scattered with few pockets on where its almost pure red, but not large enough to warrant splitting out. Variability in jack, some pockets are in the pole class while others are heavier to log. Ridge steps down through stand but not steep enough for operability concerns.																																																				
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<b>8</b>	42210 - Natural Red Pine	Sawtimber Poor	38.3	72	1-50	N/A	Stand was thinned in 2004, all jack pine/ aspen and maple was spec cut leaving all pine and any oak. Some jack pine were left scattered as well. Left with two aged stand. Pine and oak scattered over aspen and jack pine regen.																																																				
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<b>9</b>	330 - Low-Density Trees	Nonstocked	0.7	0	Unspecified	No	Open camping spot along river.																																																				
<b>10</b>	42290 - Natural Mixed Pine	Sawtimber Well	19.9	69	111-140	N/A	Mixed pine and oak stand along the river, most on top of the bluff with no lowland character. Some variability in diameter pockets of mostly red with other pockets of more white pine.																																																				
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<b>11</b>	4130 - Aspen	Sawtimber Well	33.7	65	51-80	N/A	Portion of aspen not cut during "Duplex Aspen" sale cut in 2013 in effort to break up age class of aspen in area. Not best quality aspen, showing signs of age.																																																				
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12	42200 - Natural White Pine	Sawtimber Well	4.8	66	141-170	N/A	Sliver of mature white pine, appears to be natural this was consumers land prior to State ownership. Stand has not been managed in the past. Some variability in diameter.																																																		
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13	42110 - Planted Red Pine	Poletimber Well	1.5	75	141-170	N/A	Stand was third row thinned in December 2013.																																																		
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14	42120 - Planted Jack Pine	Sapling Well	16.1	25	Immature	N/A	Stand was final harvested in 1995. Jack plantation densely planted/seeded, growing well. Thick stand provides good cover for deer.																																																		
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15	42220 - Natural Jack Pine	Poletimber Well	36.2	33	Immature	N/A	Jack pine with a few oak and red pine mixed in. Younger and smaller diameter than larger jack pine stand in west.																																																		
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16	4110 - Sugar Maple Association	Sawtimber Well	3.7	106	111-140	N/A	Peninsula of large hardwood along river flat. Seasonally wet in pockets mostly upland.																																																		
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17	42120 - Planted Jack Pine	Sapling Well	136.5	25	Immature	N/A	Stand was final harvested in 1995. Jack plantation densely planted/seeded, growing well.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>18</b>	6112 - Lowland Aspen	Poletimber Medium	7.8	33	Immature	N/A	Stand appears to be habitat cut performed sometime prior to 1998 based on imagery. Old cedar stumps still found. Lowland although looks like it may dry up seasonally.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		30	Pole	8	33	White Pine	
Quaking Aspen		60	Pole	7	33	Alder	
Northern White Cedar		4	Pole	8			
White Pine		2	Log	12			
Black Ash		4	Pole/Sapling	6			

<b>19</b>	42290 - Natural Mixed Pine	Sawtimber Medium	10.5	65	1-50	N/A	Stand cut in 2002, all aspen/red maple and jack cut by spec, pine was marked to thin. Thick aspen/ white pine advanced regen from cut.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Pine		58	Log/Pole	11	65	Red Maple	
Red Pine		40	Log/Pole	10		Quaking Aspen	
Red Oak		2	Log	13		White Pine	

<b>20</b>	42290 - Natural Mixed Pine	Sawtimber Well	3.4	86	111-140	N/A	Mixed red and white pine within natural rivers buffer. Natural stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Log/Pole	10		White Pine	
Quaking Aspen		10	Log/Pole	11		Witch Hazel	
White Pine		30	Log/Pole	10			
Red Pine		35	Log/XLog	15	86		
Red Oak		5	Log	15			
Jack Pine		10	Log	10			

<b>21</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	3.2	25	Immature	N/A	Stand was final harvested in 1995. Appears it was attempted to be planted to jack but came back to a mix of aspen, white pine and aspen as well.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		5	Sapling	3			
Quaking Aspen		20	Sapling/Pole	3			
White Pine		15	Sapling/Pole	4			
Jack Pine		55	Sapling/Pole	4	25		

<b>22</b>	6120 - Lowland Cedar	Sawtimber Well	5.1	126	111-140	N/A	Lowland conifer with cedar. Steep slope on southern edge. Creek/ underground seep pops up in this stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Log	13		White Pine	
Quaking Aspen		5	Log/XLog	15		Alder	
Northern White Cedar		60	Log	13	126		
White Pine		10	Log/XLog	15			
Hemlock		10	Pole/Log	9			
Red Pine		5	Log	13			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
<b>23</b>	42120 - Planted Jack Pine	Sapling Well	7.7	25	Immature	N/A	Stand was final harvested in 1995. Jack plantation densely planted/seeded, growing well.																																																								
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<b>24</b>	42110 - Planted Red Pine	Sawtimber Well	4.4	76	111-140	N/A	Stand was row thinned in 2002. Stand was second marked thinned in spring 2013. Part of JJ red pine sale. Short wood operation.																																																								
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<b>25</b>	4310 - Pine, Oak Mix	Sapling Well	22.4	6	Immature	N/A	Stand was final harvested in 2014 all red pine and oak was left. Came back to mixed stand oak and pine overstory left not enough to be considered primary canopy.																																																								
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<b>26</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	15.0	90	81-110	N/A	Mixed lowland stand along river flat, cedar concentrated along river edge. Ash is mostly dead and falling out.																																																								
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<b>27</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	26.9	56	81-110	N/A	Mixed aspen and red maple stand. Scattered white pine and oak. White pine mostly along west peninsula. Variable quality with aspen starting to decline and fall out.																																																								
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<b>28</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	288.0	61	81-110	N/A	Large mixed natural pine stand with oak component. Considerable variability but not enough to effectively break this large stand out any further. Portions of stand are log size class, primarily in a few pockets heavier to red pine, although overall stand is pole in size. Future management will work to break up this large stand.																																																								
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<b>29</b>	4319 - Mixed Upland Forest	Sapling Well	23.0	16	Immature	N/A	Stand was cut in 2004, removing jack pine, aspen and red maple. All oak, red pine and white pine was left.																																																								
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<b>30</b>	42210 - Natural Red Pine	Sawtimber Well	15.0	76	51-80	N/A	Stand was cut in 2014 all red pine and oak was left. Natural red and white pine with some oak mixed in.																																																								
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<b>31</b>	42110 - Planted Red Pine	Sawtimber Well	73.2	76	141-170	N/A	Consumers Power managed plantation. Minimal inventory done throughout stand. Stand appears to have been thinned at least twice.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		90	Log/Pole	10	76				
White Pine		5	Log	11					
Red Oak		5	Log/XLog	13					
<b>32</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	20.8	50	1-50	N/A	Stand was cut in 2004 all oak and Red pine was left along with a few islands of jack pine. Enough advanced oak and oak in general was left to be considered overstory although stand will need some time to fill in and mature before entered again.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Oak		48	Pole/Log/Sap	8	50	White Pine	Low	< 5 feet	Seeding
Red Pine		22	Log/Pole	10		Jack Pine	Medium	10 - 20 feet	Seeding
Jack Pine		10	Sapling/Pole	4		White Oak	Medium	5 - 10 feet	Sapling
<b>33</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	23.4	110	111-140	N/A	Mixed lowland stand with major topo influence from creek. Cedar, hemlock and white pine in lowland with white pine, aspen and some oak on slopes. creek flowing through center of stand into Manistee river. Natural rivers restrictions apply to these water courses.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Pole/Log	8		Red Maple	Medium	5 - 10 feet	Sapling
Red Oak		4	Log/XLog	16		White Pine	Medium	10 - 20 feet	Sapling
Quaking Aspen		10	Log/Pole	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		40	Log/Pole	12	110				
White Pine		10	Log/XLog/Pole	15					
<b>34</b>	4310 - Pine, Oak Mix	Sapling Medium	53.9	6	Immature	N/A	Stand was final harvested in 2014 all red pine and oak was left. Red pine in the overstory just a few with the exception of the south end. Came back to mixed stand, with some semi open pockets, overall stand regenerating and slowly filling in.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		5	Sapling	1					
Quaking Aspen		10	Sapling	1	11				
Red Pine		6	Log	15					
Jack Pine		35	Sapling	1	6				
Black Cherry		5	Sapling	1					
White Oak		20	Sapling	2					
Red Oak		5	Pole/Log	8					
White Pine		14	Sapling	1					
<b>35</b>	42110 - Planted Red Pine	Sapling Medium	26.8	6	Immature	N/A	Red pine plantation final harvested in 2013. Sale 630121201. Few oak left in over story. JV Site was roller chopped and trenched 2014 and planted spring 2015. Looked at site in summer 2015 and seedlings look pretty good. Site was replanted in 2017 in open spots. Was at 556 TPA on 2016. 3 year regen check was done in 2018 site looks great. Site ready to call good.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		90	Sapling	1	6				
Black Cherry		8	Sapling	1	8				
White Oak		2	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
<b>36</b>	42290 - Natural Mixed Pine	Sawtimber Medium	15.5	115	81-110	N/A	Stand cut in 2002, all aspen/red maple and jack cut by spec, pine was marked to thin. Mixed pine with mixed understory developing.																																																													
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<b>37</b>	42110 - Planted Red Pine	Poletimber Well	6.3	61	111-140	N/A	Red Pine plantation third row thinned in 2003. Southern center of stand is mature jack pine that was missed with cut to south. A few white pine as well.																																																													
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<b>38</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	65.7	110	111-140	N/A	Soper Creek corridor maintained over decades as river corridor. Variable stand with upland mixed pine, oak and aspen along top and sides of drainage while lowland wet conifer influence along creek edge.																																																													
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<b>39</b>	42110 - Planted Red Pine	Sawtimber Well	3.6	65	141-170	N/A	Red Pine plantation third row thinned in 2003.																																																													
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<b>40</b>	42110 - Planted Red Pine	Poletimber Well	34.9	75	111-140	N/A	Consumers red pine planation that was last thinned by consumers around 2014. Did not spend much time on this stand as it is managed by consumers.																																																													
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41	42290 - Natural Mixed Pine	Sapling Well	188.2	15	1-50	N/A	Stand was cut in 2004 all jack pine, aspen and maple was cut with scattered islands of jack pine left as retention. This has created a two aged stand, with some pockets of strictly jack pine/mixed hardwood from 2004 cut and others of mixed red and white pine mature timber left from this cut. Overall the stand was typed from the regen created by the 2004 harvest although a considerable overstory of pine was left in pockets, primarily the southeastern and north western portion of the stand. Very difficult to type stand as a result of mosaic variable overstory created from past management.																																																		
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42	4133 - Aspen, Mixed Pine	Sapling Well	30.5	7	Immature	N/A	Stand was final harvested in Winter 2012, with all oak and pine left. Shortwood operation. Came back to a mix of aspen, pine and oak.																																																		
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43	42210 - Natural Red Pine	Sawtimber Well	24.4	115	141-170	N/A	Stand was row thinned in 1995. Otherwise it appears no management has occurred on this very nice natural red pine stand. Thick white pine understorey.																																																		
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44	42110 - Planted Red Pine	Sawtimber Well	4.9	65	81-110	N/A	Red Pine plantation third row thinned in 2003. . Stand was second thinned in December of 2013. Marked thinning.																																																		
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45	4119 - Mixed Northern Hardwoods	Sapling Medium	6.3	20	1-50	N/A	Stand cut in 2002, all aspen/red maple and jack cut by spec. Left with stump sprout sparse red maple with scattered oak left in overstorey. Small 1 acre portion of north end of stand was not cut with 2002 harvest too small to map.																																																		
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<b>46</b>	4132 - Aspen, Jack Pine	Sapling Well	10.0	25	Immature	N/A	Stand was final harvested in 1996. Came back well to mix of aspen and jack pine.																																																						
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<b>47</b>	4112 - Maple, Beech, Cherry Association	Poletimber Poor	5.9	70	1-50	N/A	Mixed red maple stand, sparse. poor quality. Red and white pine mixed throughout in low numbers, varied sizes.																																																						
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Red Oak	2	Log/Pole	13																																																										
<b>48</b>	42220 - Natural Jack Pine	Sapling Well	65.4	16	Unspecified	N/A	Stand was cut in 2003, removing jack pine and aspen and leaving red pine and some overstory oak. Stand responded with a great deal of jack pine regen. Minimal aspen, red maple and some oak are also present in regen as well. Regen from harvest and overstory are each considered as components of overstory within this stand.																																																						
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Red Maple	6	Sapling	2																																																										
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Red Pine	10	Log/Pole	12	73																																																									
Jack Pine	75	Sapling/Pole	2	16																																																									
<b>49</b>	42120 - Planted Jack Pine	Sapling Well	8.8	25	Immature	N/A	Stand was final harvested in 1995. Jack plantation densely planted/seeded, growing well.																																																						
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Black Cherry	2	Pole/Sapling	5																																																										
<b>50</b>	42120 - Planted Jack Pine	Sapling Well	11.0	25	Immature	N/A	Stand was final harvested in 1995. Jack plantation densely planted/seeded, growing well.																																																						
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<b>51</b>	42110 - Planted Red Pine	Sawtimber Well	9.0	75	81-110	N/A	Red Pine plantation third row thinned in 2003. Stand was second marked thinned in spring 2013. Part of JJ red pine sale. Short wood operation.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**52** 42220 - Natural Jack Pine Poletimber Well 4.3 58 Unspecified N/A Small stand appear to have been left as retention in middle of stand 48.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	6		Red Pine	Low	5 - 10 feet	Sapling
White Oak	4	Log/Pole	10		Jack Pine	Low	< 5 feet	Seeding
Red Pine	6	Pole/Log	9					
Jack Pine	88	Pole	8	58				

**53** 122 - Road/Parking Lot Nonstocked 0.4 0 Unspecified No Road

**54** 42220 - Natural Jack Pine Poletimber Well 82.4 61 81-110 N/A Variable size/density jack pine stand with aspen, some red pine and occasional white pine present as well. Some small pockets just red and white pine although jack pine dominate and carries throughout stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Pole/Log	9		White Pine	Medium	5 - 10 feet	Sapling
White Pine	15	Log/Pole	11					
Red Pine	5	Log/Pole	11					
Jack Pine	61	Pole/Log	8	61				
White Oak	2	Log/Pole	10					
Red Maple	2	Pole/Log	8					

**55** 4311 - Pine, Aspen Mix Sapling Medium 25.0 6 Immature N/A Stand was final harvested in 2014 all red pine and oak was left. Southern half came back to aspen, north half more open slowly filling in with jack pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Bigtooth Aspen	40	Sapling	1	6
White Pine	10	Sapling	1	
Red Pine	8	Log	12	
Jack Pine	25	Sapling	1	6
White Oak	7	Sapling	1	

**56** 42210 - Natural Red Pine Sawtimber Poor 25.1 73 1-50 N/A Stand last cut in 2002, was a seed tree type of cut with mostly red and a few white pine left. After harvest in 2002 a prescribed burn occurred in 2004 in a attempt of promote natural red pine regeneration. The cut and subsequent burn spurred a mix of aspen, jack pine, white pine, and even scattered red pine regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log	12		Jack Pine	Medium	Variable	Sapling
Red Pine	88	Log	13	73	Quaking Aspen	High	10 - 20 feet	Sapling
Red Oak	2	Log/Pole	10		Red Pine	Low	< 5 feet	Sapling
					White Pine	Medium	Variable	Sapling
					Red Maple	Low	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>57</b>	42100 - Planted White Pine	Poletimber Well	49.4	58	141-170	N/A	White Pine Plantation planted in 1962. White pine plantation with aspen, rm and oak. jack pine mixed into plantation in northern portions. Limited to no understory.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		2	Pole	6			
Red Oak		2	Pole/Log	8			
Quaking Aspen		5	Pole/Sapling	5			
White Pine		72	Pole/Log	8	58		
Jack Pine		17	Pole	7			
Red Pine		2	Pole/Log	8			
<b>58</b>	42120 - Planted Jack Pine	Sapling Well	16.3	25	Immature	N/A	Stand was final harvested in 1995. Jack plantation densely planted/seeded, growing well.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		100	Sapling	3	25		
<b>59</b>	6112 - Lowland Aspen	Sawtimber Poor	13.8	70	Unspecified	N/A	Creek through portions of drainage type. Aspen falling apart in overstory, rough stand with limited stocking. Alder taken up much of understory in stand. Standing water in much of stand at time of wet fall inventory.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		30	Pole	7			
Quaking Aspen		40	Log/Pole	12	70		
Northern White Cedar		15	Pole	8			
White Pine		3	Log/Pole	10			
Basswood		12	Log	12			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Tag Alder		High	5 - 10 feet	Tall Shrub			
Red Osier Dogwood		High	5 - 10 feet	Tall Shrub			
<b>60</b>	42290 - Natural Mixed Pine	Sawtimber Well	52.4	80	51-80	N/A	Stand was cut in 2003, all aspen, maple and jack pine was cut by spec, rest of the red and white pine was thinned. Left with nice red and white pine overstory with aspen, maple, jack pine, and white pine all advanced in the understory.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		2	Pole	6			
Quaking Aspen		2	Sapling/Pole	5			
White Pine		50	Log/Pole	13	80		
Red Pine		45	Log	12	80		
White Oak		1	Log	12			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Maple		Medium	5 - 10 feet	Sapling			
Quaking Aspen		High	10 - 20 feet	Sapling			
White Pine		Medium	5 - 10 feet	Sapling			
Jack Pine		Medium	< 5 feet	Sapling			
<b>61</b>	42110 - Planted Red Pine	Poletimber Well	5.5	65	81-110	N/A	Red Pine plantation third row thinned in 2003. Stand was second marked thinned in spring 2013. Part of JJ red pine sale. Shortwood operation.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		95	Pole/Log	9	65		
Red Oak		5	Log	14			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Maple		Low	5 - 10 feet	Sapling			
White Pine		Low	< 5 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>62</b>	4130 - Aspen	Sapling Well	5.3	6	Immature	N/A	Stand was final harvested in 2014 all red pine and oak was left. Came back to mostly aspen some jack and white pine coming in as well. Scattered red pine and red oak left in overstory.																																								
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Jack Pine	5	Sapling	1	6																																											
Red Oak	8	Log/Pole	12																																												
White Pine	10	Sapling	1																																												
<b>63</b>	6224 - Treed Bog	Nonstocked	3.5		Unspecified	No	water in eastern portion of stand. treed bog in western part.																																								
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<b>64</b>	4130 - Aspen	Sawtimber Well	90.3	51	Unspecified	N/A	Lower to moderate quality aspen stand. All upland with exception of two seasonal drainage low area, one is mapped and other is in the north near stand 79. One two acre natural red pine pocket in the south end of stand too small to map.																																								
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<b>65</b>	42100 - Planted White Pine	Poletimber Well	7.6	58	111-140	N/A	Planted white pine in 1962. Low quality plantation particularly in north. Rows are very tough to follow if even possible in much of stand. Limited understorey .																																								
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Quaking Aspen	3	Pole/Log	9																																												
<b>66</b>	4310 - Pine, Oak Mix	Sapling Well	38.3	6	Immature	N/A	Stand was final harvested in 2014 all red pine and oak was left. Two track was bermed going in, in excessive of our needs.																																								
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Canopy Species	% Cover	Size Class	DBH	Age																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**67** 4311 - Pine, Aspen Mix Sapling Well 3.8 16 Immature N/A Stand was cut in 2004, removing jack pine, aspen and red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	22	Sapling/Pole	3		Jack Pine	Medium	Variable	Seeding
Red Oak	6	Log	14					
Quaking Aspen	15	Sapling	2					
White Pine	4	Log/Pole	10					
Red Pine	23	Log/Pole	10	66				
Jack Pine	30	Sapling/Pole	3	16				

**68** 4133 - Aspen, Mixed Pine Sapling Well 79.2 7 Immature N/A Stand was final harvested in spring of 2013 with all oak and pine left. Resulted in nice mix of aspen and residual white pine with occasional oak. Pockets of stand are mostly aspen while others have a structural mix of pine in all classes from logs to saps.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Sapling	1	
Red Oak	5	Log	12	
Quaking Aspen	65	Sapling	2	7
White Pine	27	Pole/Log/Sap	7	

**69** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 57.3 90 81-110 N/A Variable mixed pine/ oak stand. North border of stand is where pine over story is most put together, heart of stand is more scattered pine with mature oak and aspen pole clones filling in the area between the pine. Most of jack pine is dead or falling out of stand. Heavy white pine understory in much of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Log/Pole	11		Red Maple	Low	5 - 10 feet	Sapling
Red Oak	18	Log/Pole/XLog	15		Quaking Aspen	Low	10 - 20 feet	Sapling
Quaking Aspen	10	Pole	7		White Pine	High	Variable	Sapling
White Pine	28	Log/Pole	12		Red Pine	Low	10 - 20 feet	Sapling
Red Pine	29	Log/Pole	10	90				
Jack Pine	8	Pole/Log	8					
White Oak	3	Log/Pole	11					

**70** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 29.1 126 141-170 N/A Mixed conifer stand w/ white pine, cedar, hemlock and mixed deciduous present. Stand is corridor for small creek flowing through center. Stand transitions to slightly higher topo along edges however it still retains high water/lowland influence. Blow down in pockets typical in lowland conifer.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	6	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	3	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen	15	Log	12		White Pine	Low	10 - 20 feet	Sapling
Northern White Cedar	20	Pole/Log	9					
White Pine	40	Log/XLog/Pole	14	126				
Hemlock	11	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
<b>71</b>	6113 - Lowland Maple	Sawtimber Well	12.9	75	111-140	N/A	Lowland seasonally flooded lowland hardwood stand w/ cedar, birch, hemlock and trace ash present. Lots of natural blowdown from wet site conditions.																																																							
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<b>72</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	61.4	48	Unspecified	N/A	Maturing aspen stand with mix of oak, white pine and red pine. Thick white pine understory throughout much of stand. Mature pine mixed primarily in east end with jack pine pocket found in southwest corner. Some variability in aspen clones, with quality and size of aspen less in east side.																																																							
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<b>73</b>	4133 - Aspen, Mixed Pine	Sapling Well	6.4	6	1-50	N/A	Stand was final harvested in 2014 all red pine and oak was left. Two track was bermed on east end.																																																							
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<b>74</b>	4133 - Aspen, Mixed Pine	Poletimber Well	6.1	56	111-140	N/A	Mixed white pine and aspen stand. Aspen just approaching log size, with pine dominate in west side of stand and aspen more so on east. Small difficult to access stand.																																																							
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<b>75</b>	6112 - Lowland Aspen	Sapling Well	18.5	26	Immature	N/A	Stand final harvested in 1994. Upland along edges but lowland swale throughout much of heart of stand. Seasonal standing water.																																																							
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<b>76</b>	42290 - Natural Mixed Pine	Sawtimber Well	20.9	90	111-140	N/A	Stand was thinned in 2004. Good quality red and white pine nice natural mature stand.																																																																	
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<b>77</b>	4130 - Aspen	Sapling Well	39.6	7	Immature	N/A	Stand was final harvested in summer 2013. All oak and white pine over 25 dbh were left. Was a chipping operation. Road was bermed following harvest. Stand came back well, main skid trail is slowly fill in.																																																																	
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<b>78</b>	4110 - Sugar Maple Association	Sawtimber Well	42.2	100	51-80	N/A	Very nice hardwood stand one of better quality stand in Manton Unit. Carpet of sugar maple in understory which responded from 2013 thinning, would be good to follow to see if regen can make it passed browse height.  STAND WAS THINNED IN SUMMER OF 2013. Logs were hand cut while the rest was chipped. Most of ash and beech was salvaged. STAND was thinned prior to that in 1997.																																																																	
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<b>79</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	3.1	64	51-80	N/A	Lowland hardwood/ aspen with some cedar. Low wet stand too wet for commercial management.																																																																	
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<b>80</b>	6113 - Lowland Maple	Poletimber Medium	10.9	60	1-50	N/A	Lowland E type with some cedar mixed in. Lots of standing dead from lowland nature of stand. Northeast corner is upland aspen too small to map.		
	<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
	Red Maple	60	Pole	7	60	Red Maple	Low	10 - 20 feet	Sapling
	Paper Birch	8	Pole	7		Northern White Cedar	Low	10 - 20 feet	Sapling
	Quaking Aspen	15	Pole/Log	8		White Pine	Medium	5 - 10 feet	Sapling
	Northern White Cedar	6	Pole	8					
	Hemlock	2	Pole/Log	8					
	Black Ash	4	Pole/Sapling	6					
	White Pine	5	Pole	6					
<b>81</b>	4130 - Aspen	Poletimber Well	17.6	35	Unspecified	N/A	Stand final harvested in 1984. Came back to mostly aspen , some hardwood and pine mixed in.		
	<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
	Sugar Maple	3	Pole	7		White Pine	Low	5 - 10 feet	Sapling
	Bigtooth Aspen	88	Pole	7	35				
	White Pine	7	Pole	8					
	Red Pine	2	Pole	8					
<b>82</b>	4110 - Sugar Maple Association	Sawtimber Well	6.4	90	111-140	N/A	Small hdwd stand, fair quality. slopes to the north, at base of slope wet soils dominate and transition stand to more of a swamp hdwd stand. Recent timber trespass from producer on private land to the south removed several trees apparently on accident. Issue is being resolved with involvement from C.O. as of 4/14/10.		
	<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
	Sugar Maple	82	Log/Pole	10	90	Sugar Maple	Low	5 - 10 feet	Sapling
	Red Maple	8	Log/Pole	10					
	White Pine	2	Log/Pole	12					
	Basswood	8	Log	13					
<b>83</b>	3301 - Low Density Deciduous Trees	Nonstocked	2.0		Unspecified	No	Semi open hardwood next to private.		
<b>84</b>	4311 - Pine, Aspen Mix	Sawtimber Well	25.7	65	111-140	N/A	Mixed pine and aspen stand. Overall white pine seems to be dominate although are pockets heavy to aspen. Some variability in white pine diameter.		
	<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
	Red Maple	2	Log/Pole	10		White Pine	Medium	Variable	Sapling
	Red Oak	5	Log	12					
	Quaking Aspen	40	Log/Pole	10	65				
	White Pine	48	Log/Pole/XLog	14	65				
	Red Pine	5	Log	12					
<b>85</b>	330 - Low-Density Trees	Nonstocked	3.4	0	Unspecified	No			
<b>86</b>	6223 - Inundated Shrub Swamp	Nonstocked	1.0	0	Unspecified	No	Flooded, standing water at time of inventory in fall 2019. Tag along edges		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>87</b>	4130 - Aspen	Sapling Well	6.0	24	Immature	N/A	Stand was final harvested in 1996.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling	3	24

<b>88</b>	42210 - Natural Red Pine	Sawtimber Well	5.2	84	81-110	N/A	New stand delineated, this is pockets of natural red and white pine, mostly red.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	6	Log	15		White Pine	Low	< 5 feet	Sapling
Quaking Aspen	5	Pole/Log	8					
White Pine	20	Log	13					
Red Pine	67	Log	14	84				
White Oak	2	Log	13					