



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63137

Entry Year 2025

Acreage: 1,355

County Wexford

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Matt Edison

Legal Description:

T24N, R9W Sections 7-9, 16, and 21

Identified Planning Goals:

This compartment is bound by the Manistee River on the north and has several tributary streams running through it, including Manton Creek. The primary emphasis along the Manistee River and its immediate vicinity will be to preserve the associated visual aesthetics and recreational values. Those areas beyond the view of the river will be managed for dispersed recreation, wildlife, and timber. Major management emphasis on these setback areas will be on intolerant timber types.

Soil and topography:

Soil series found in the compartment include Rubicon-Montcalm-Graycalm, Tawas-Croswell-Lupton, and Nester-Kawkawlin-Manistee. Terrain is generally flat to slightly rolling. Very steep primary and secondary river bluffs follow the corridor along the Manistee River. Tributary streams are typically in narrow steep ravines.

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

Surrounding land ownership is a mix of state and private land. Private land is dispersed throughout the area but concentrated to the south. The private lands are a mix of fallow agricultural fields and small woodlots. Development pressure on private lands in this area is high due to the proximity to the major travel corridor. The town of Manton is four miles south of the compartment boundary. There is a relatively undeveloped corridor along the Manistee River. The north end of the recent US-131 construction abuts the east side of this compartment. Twenty-six acres (along the east boundary of the compartment) that were previously inventoried as State Forest Land are actually Department of Transportation owned (as part of the US-131 right-of-way). The forty acre parcel in the SWNE of Sec. 7 has been acquired since the last inventory of this compartment. It was purchased in 1995.

Desirable land for acquisition: Sec. 7, SESE & ENESW; Sec. 8, SWSE.

Unique Natural Features:

The Manistee River winds along the northern boundary of this Compartment. Manton Creek, and several smaller unnamed tributaries of the Manistee flow through the northern portion of this compartment. Michigan Natural Features Inventory lists the potential for occurrences of wood turtles, great blue heron rookeries, red-shouldered hawks, goshawks and massasauga rattlesnakes.

Archeological, Historical, and Cultural Features:

There are known Archeological sites within the compartment. These concerns have been addressed and will not be affected by treatments.

Special Management Designations or Considerations:

Maintain the aesthetics integrity along the Manistee River and the major travel corridors through the Compartment. Preserve water quality through the implementation of Best Management Practices. The Manistee River is being reviewed for classification as a Natural River. Management proposals will follow the guidelines for this designation.

Watershed and Fisheries Considerations:

The Manistee River, Manton Creek, and several unnamed tributaries flow through Compartment 137. All are Designated Trout Streams. Manton Creek is a very high quality tributary to the Manistee River, with naturally reproducing populations of brook and brown trout. Manton Creek is also on the "Trout Streams Vulnerable to Beaver Damming" list. Therefore, future management of the riparian zone near Manton creek should be to manage for tree species other than aspen. (M. Tonello, 8/27/13)

Wildlife Habitat Considerations:

This compartment is in the Highplains Ecosystem, Grayling Outwash Plains Subsection, LTA 5211. Soils are characterized by deep, excessively drained, acidic sands. Historic vegetation included the entire spectrum of conifer dominated forests. Wildlife habitat objectives are to continue to maintain species and age-class diversity across the compartment, to promote within-stand structural diversity, and to encourage lowland conifers and mast-producing species. Featured species of special interest include bear, deer, woodcock, ruffed grouse, and snowshoe hare. (E. Victory,

8/21/13).

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till, glacial outwash sand and gravel and postglacial alluvium and end moraine of coarse-textured till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Mississippian Michigan and Marshall Formations. The Michigan is quarried for gypsum and the Marshall was previously used as a building stone elsewhere in the State. A gravel pit is located in section 16 and potential is considered to be good. This area lies seven miles southeast of the prolific Silurian Guelph (Niagaran) reef trend. There does not appear to be any potential for reefs in this area. Sections 16 and 21 are currently leased for oil and gas development. (T. Hoane, 3/6/2013).

Vehicle Access:

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

Survey Needs:

None.

Recreational Facilities and Opportunities:

The Michigan Cross country cycle trail & snowmobile trail #6 are located along the county road in this compartment. There is heavy use of state lands for hunting, fishing, berry and mushroom picking in this compartment. Dispersed camping is also common within this compartment. (T.M.N. 7/10/13).

Fire Protection:

With the county roads and highway system, access within the compartment is good. Limiting factor for response to a wildfire would be inaccurate directions from the reporting parties, due to the Manistee River and US131 freeway. There are some private parcels and the abundance of recreational opportunities that cause most wildfires. Fuel types lend themselves to large fire potential. The railroad crosses the compartment limiting the response of wildfire equipment. Fire response time would be short being that Manton Field Office is close to the compartment. (B. Tower, 2013).

Additional Compartment Information:

The following reports from the Inventory are attached:

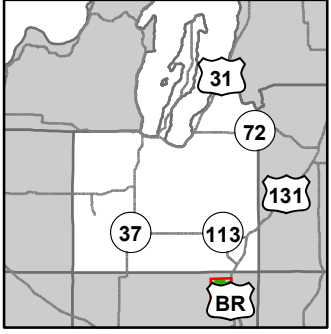
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

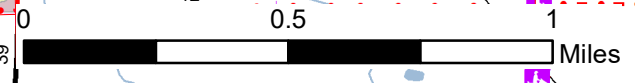
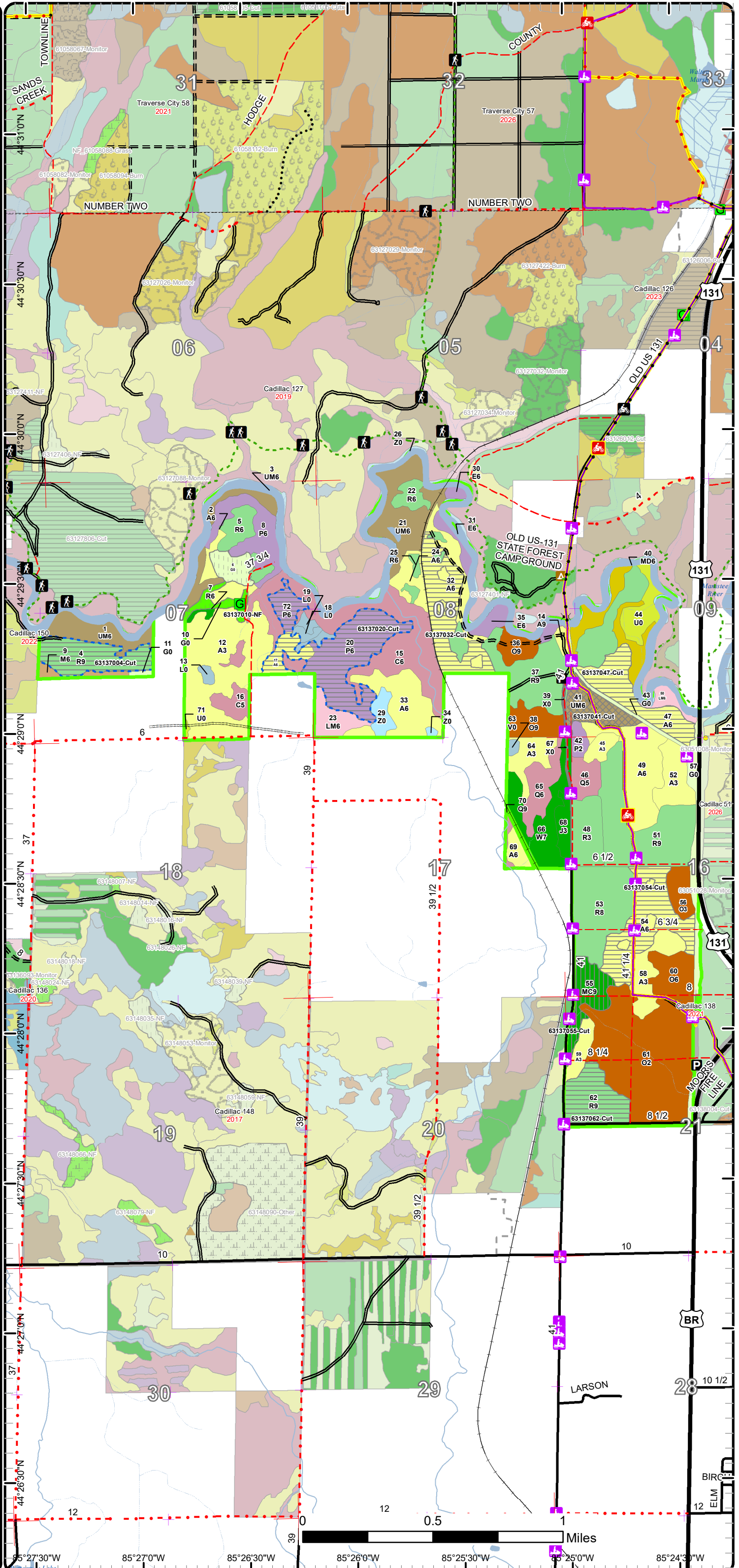
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 137
 T24N, R09W, Sec. 7-9, 16, 17, 21
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2025
 Acres: 1355.4 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 10/19/2023
 Map Phase: Post-Maps



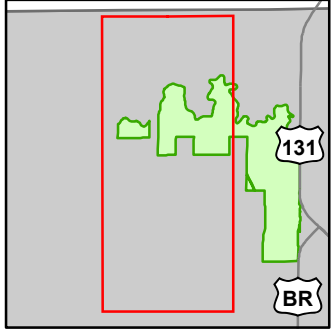
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Active Railroads
- Hiking Trails
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- ORV Routes
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- Lake/Pond
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- Gate
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- Campground
- Parking Lot
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



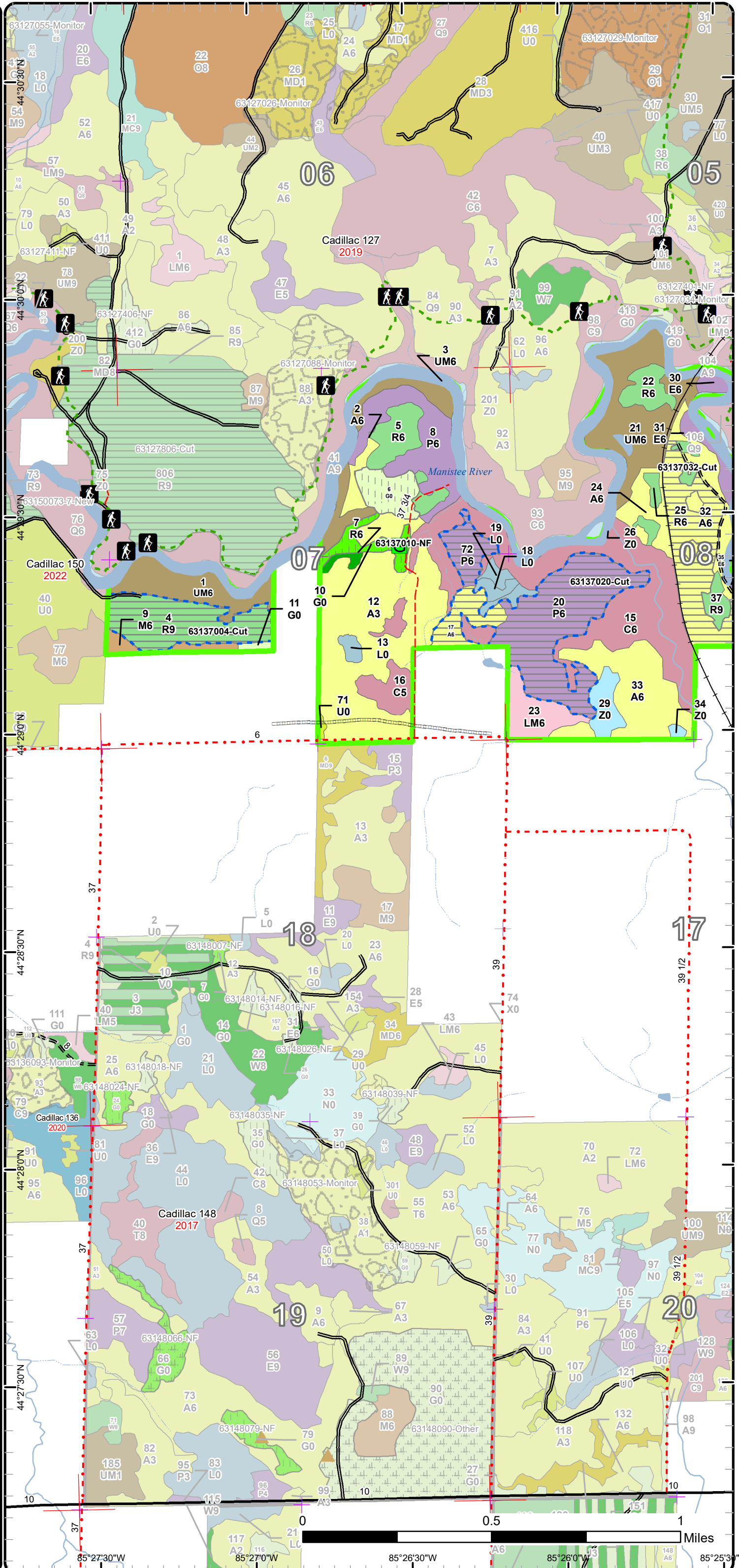
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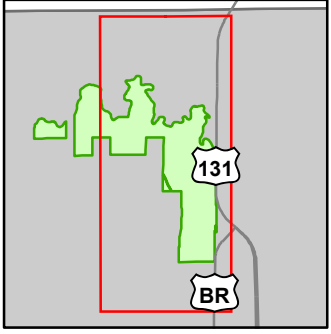
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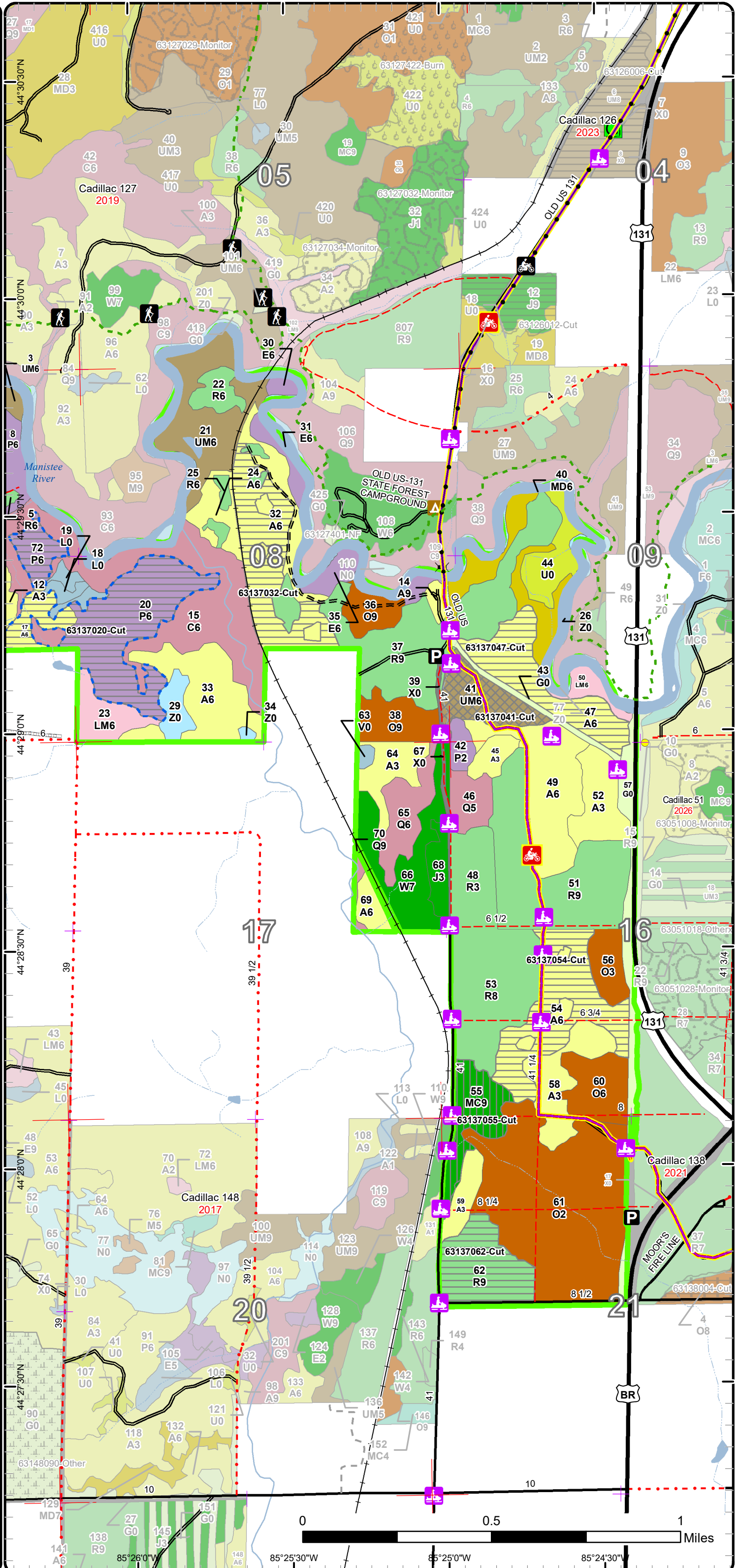
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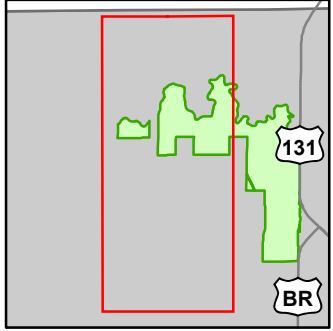


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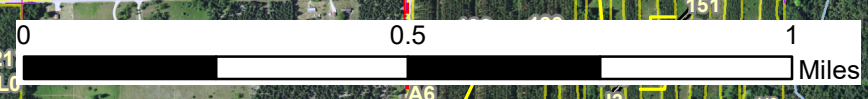
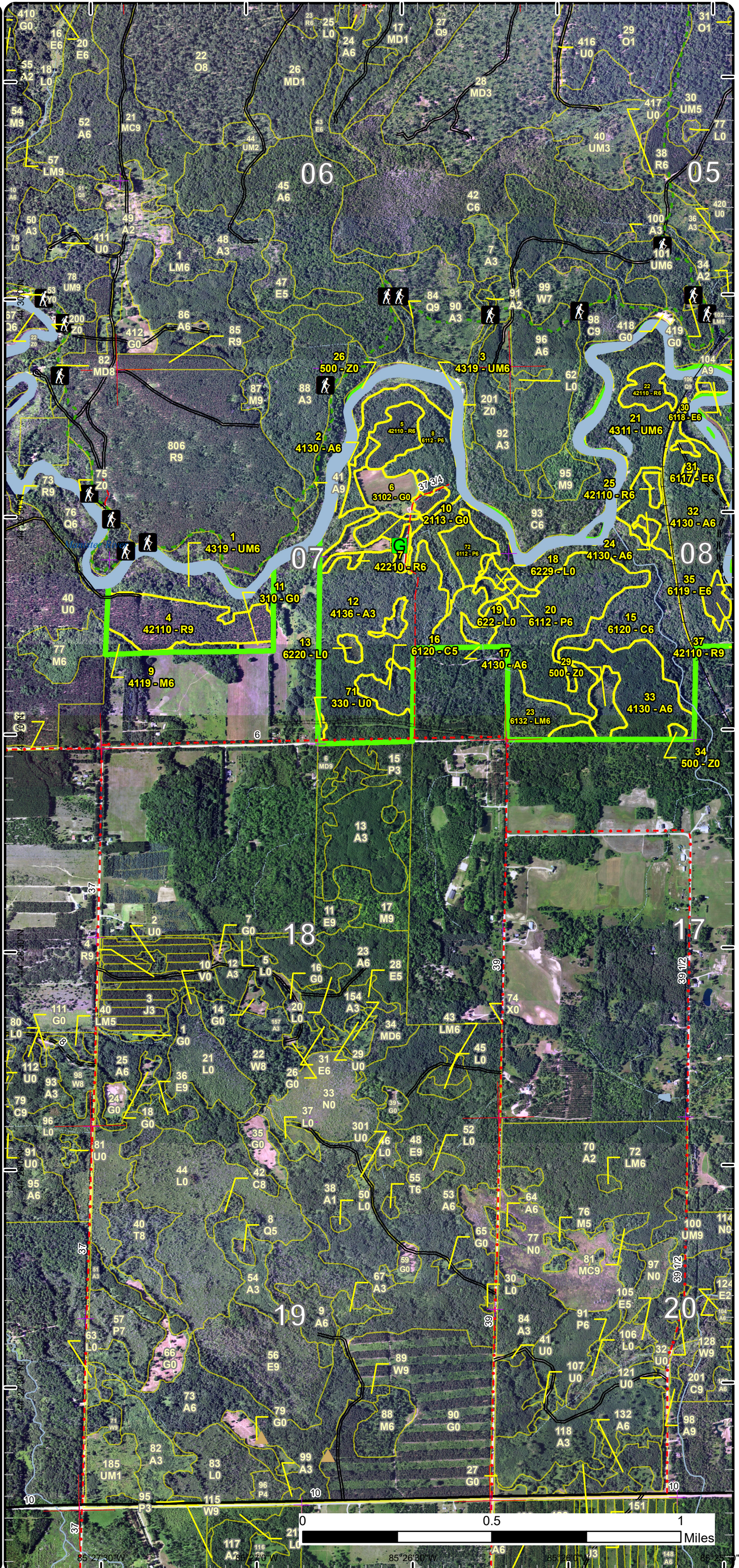


Stand Boundary Map

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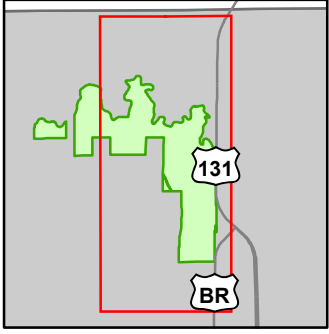
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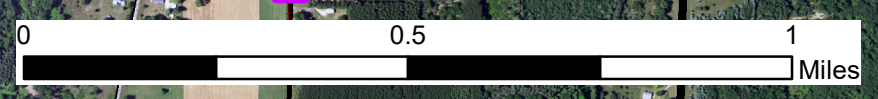
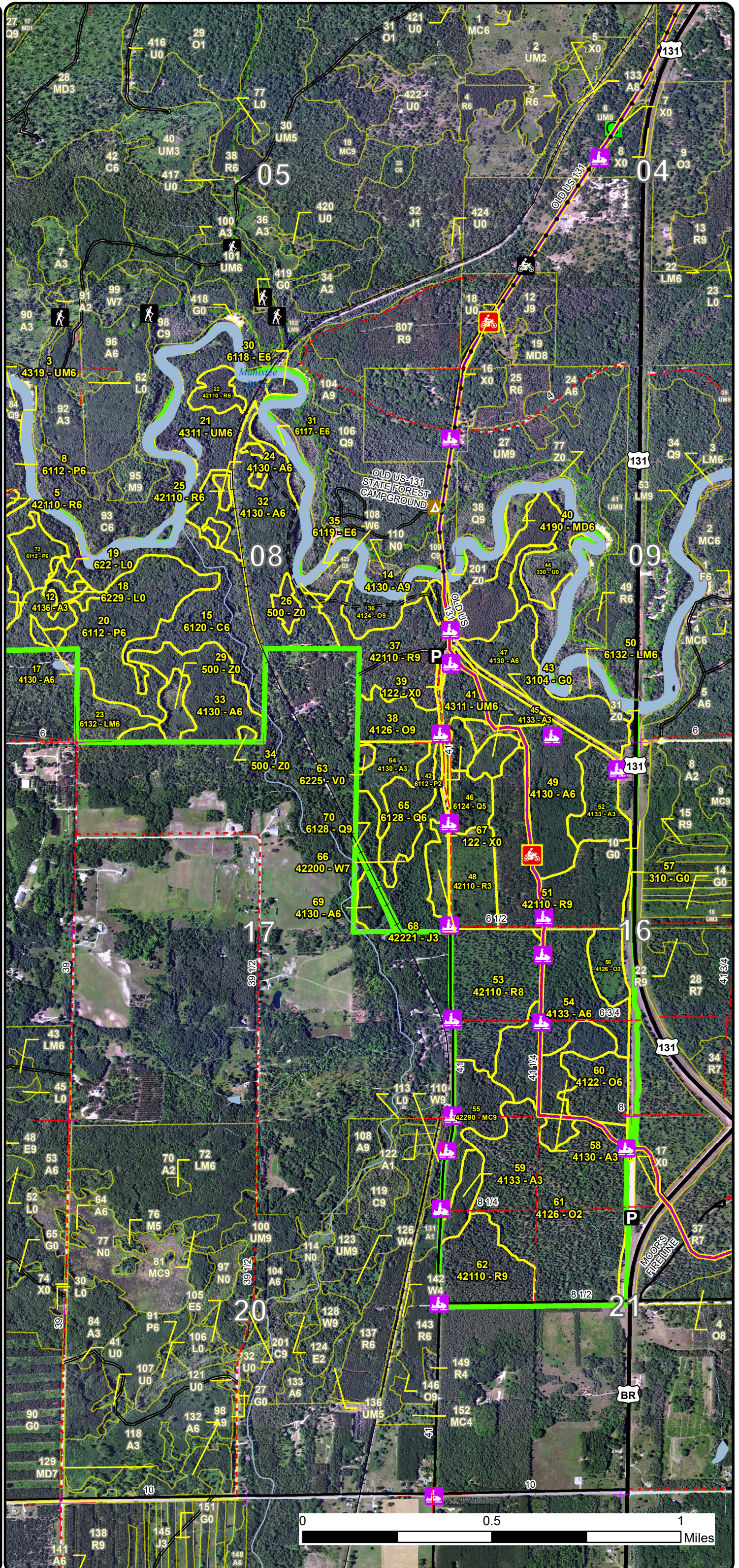
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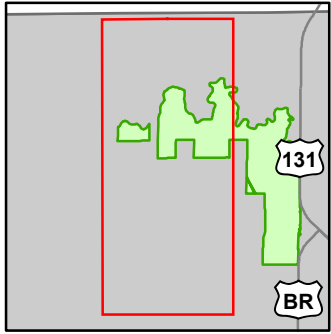


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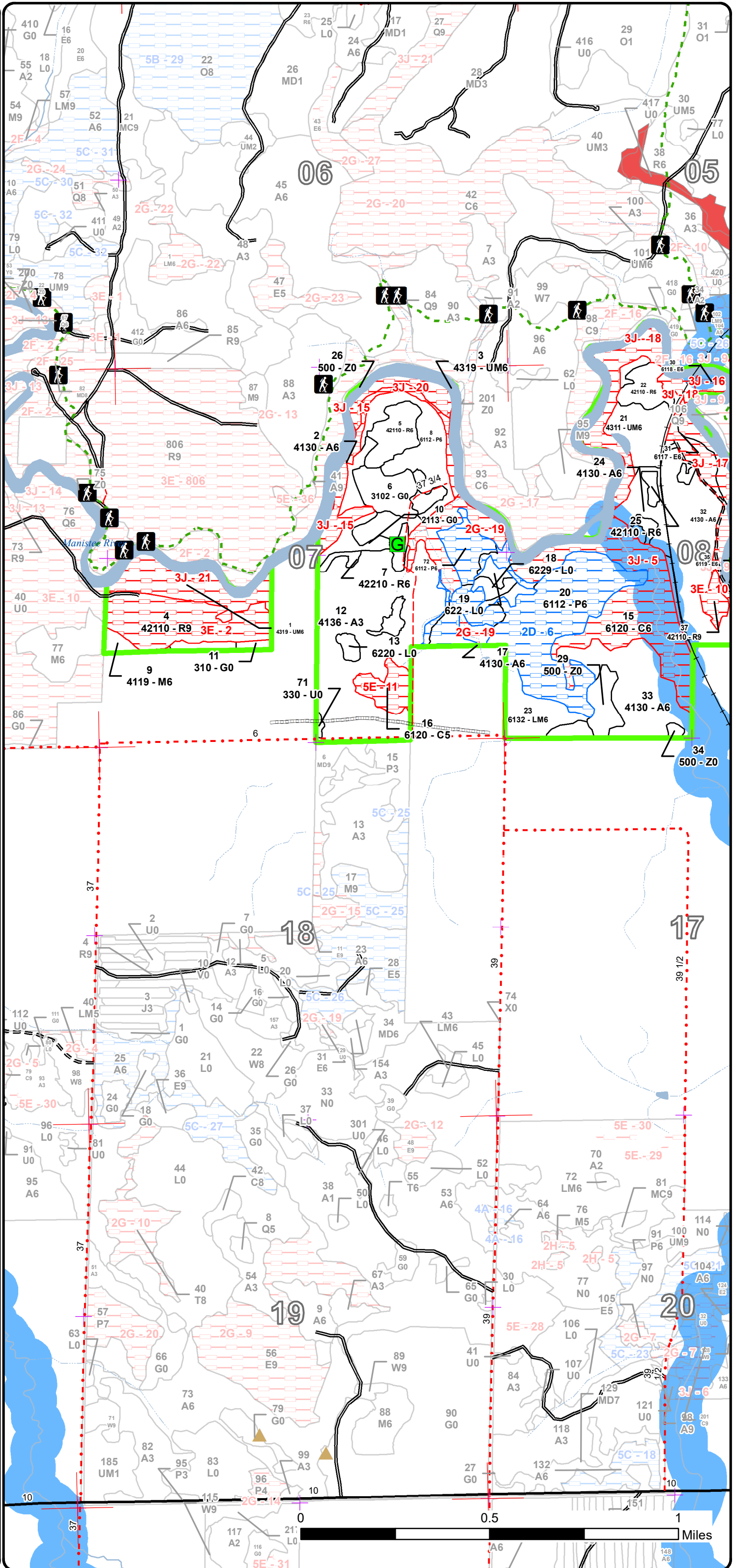


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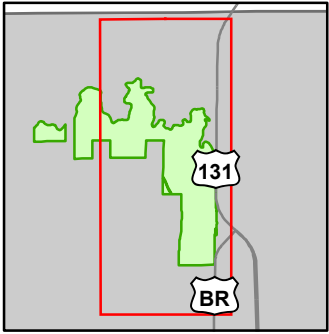


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- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

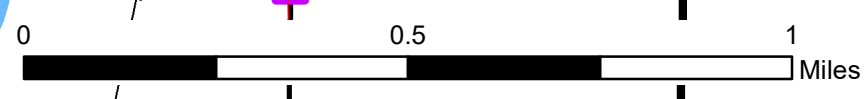
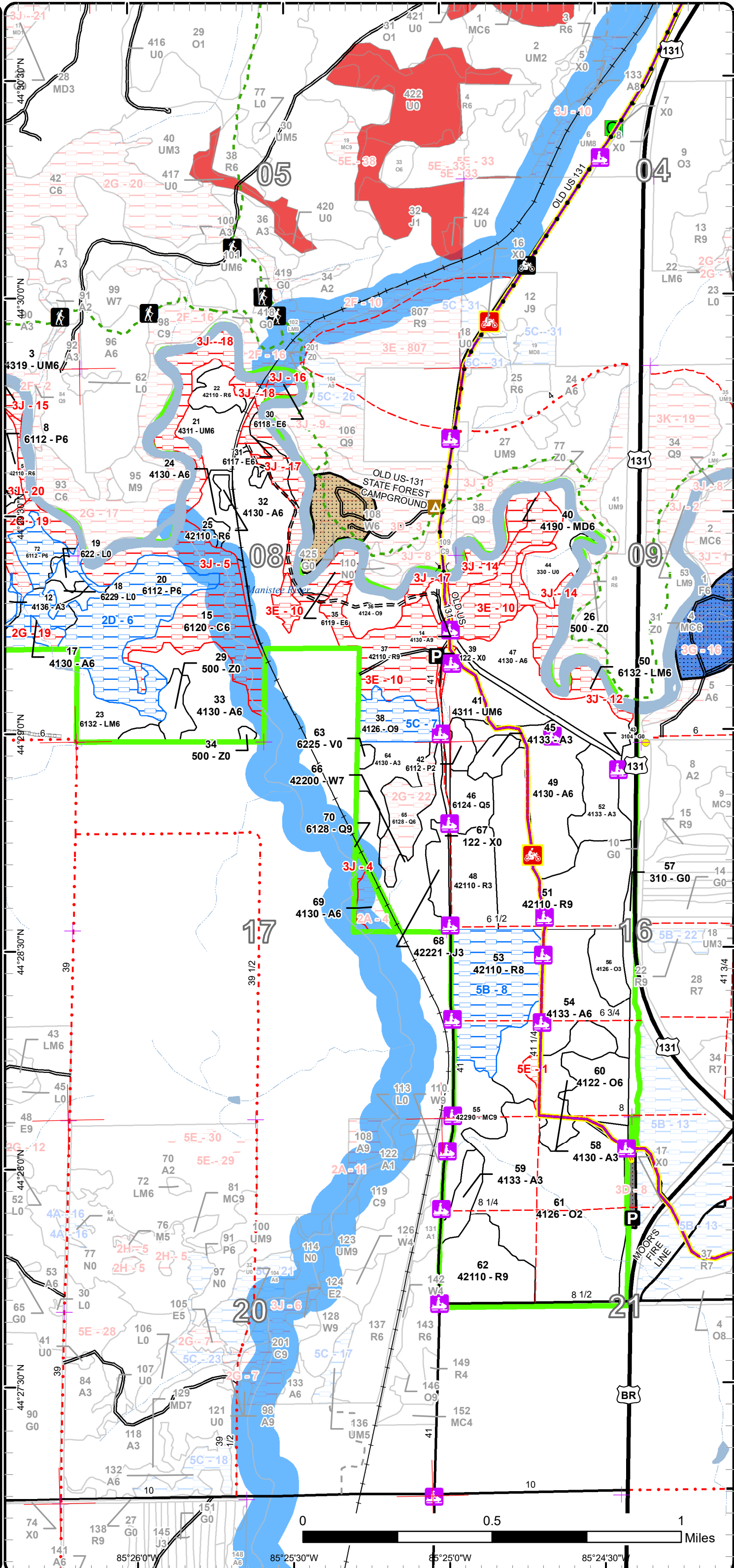


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- Available w/ Constraints
 - 2D: Portable Bridge Needed (Dept. bridge will be adequate)
 - 5B: Maintain for regeneration purposes
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
 - 3J: Water quality / BMPs (stream, river, or lake)
 - 5E: Long-Term Retention
- Stand Boundaries
- SCA
 - Ecological Reference Areas
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
 - Boat Access Site
 - State Forest Campground
 - Trail Head



85°26'0"W 85°25'30"W 85°25'0"W 85°24'30"W



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	113	31	0	79	46	98	9	0	0	0	0	0	0	0	0	0	0	376
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	11	72	0	0	0	0	0	83
Cropland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Herbaceous Openland	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Jack Pine	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	5	0	25	0	0	60	0	0	0	0	0	0	0	0	0	0	90
Lowland Conifers	0	0	0	0	0	0	0	17	11	0	2	0	0	0	0	0	0	0	29
Lowland Deciduous	0	0	0	0	0	0	12	6	0	0	0	0	0	0	0	0	0	0	18
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	13	0	0	7	0	0	0	0	0	20
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	22
Natural Mixed Pines	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	21
Northern Hardwood	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Oak	0	0	0	103	11	18	0	0	26	0	0	0	0	0	0	0	0	0	157
Red Pine	0	0	20	0	0	0	0	166	13	0	75	0	0	0	0	0	0	0	274
Upland Mixed Forest	0	0	0	0	36	0	0	0	20	0	0	22	16	0	0	0	0	0	94
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
White Pine	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	29
Total	129	113	64	103	151	64	110	279	99	41	77	33	95	0	0	0	0	0	1355



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 137

Total Compartment Acres: 1,355

Commercial Harvest - 177
 Harvests with Site Condition - 100
 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	109	0	0	0	0	0	0	0	0	109
Lowland Aspen/Balsam Poplar	70	0	0	0	0	0	0	0	0	70
Natural Mixed Pines	0	0	0	0	19	0	0	0	0	19
Red Pine	60	0	0	0	0	0	0	0	0	60
Upland Mixed Forest	0	20	0	0	0	0	0	0	0	20
Total	239	20	0	0	19	0	0	0	0	277

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	277	0	0	0	0	0	0	18	0	295
Next Step	0	59	29	0	0	29	307	0	0	424
Total	277	59	29	0	0	29	307	0	18	720



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:

4	63137004-Cut	30.2	42110 - Planted Red Pine	Sawtimber Well	69	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Consumers red pine <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Non-Military Lease/Easement <u>Proposed Start Date:</u> 10/1 /2023</p>											
6	63137006-NF	10.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> Managed Wildlife Opening <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
10	63137010-NF	7.4	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> Managed Wildlife Opening <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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20	63137020-Cut	70.0	6112 - Lowland Aspen	Poletimber Well	69	141-170	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. Harvest in frozen winter conditions and locate appropriate skidding and decking areas for Archaeological considerations.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any Mix

Other Comment:

Site Condition Portable Bridge Needed

Proposed Start Date: 10/1 /2024

32	63137032-Cut	37.4	4130 - Aspen	Poletimber Well	58	141-170	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. Leave some large White or red Pine. Follow Natural River buffer guidelines. Harvest in frozen winter conditions and locate appropriate skidding and decking areas for Archaeological considerations.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

41	63137041-Cut	19.7	4311 - Pine, Aspen Mix	Poletimber Well	77	141-170	Harvest	Group Selection	4319 - Mixed Upland Forest	Uneven-Aged	No
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Prescription Cut all trees except White Pine Greater than 10".
Specs: Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. Remove aspen and maple. Select wp 10" and under. Harvest in frozen winter conditions and locate appropriate skidding and decking areas for Archaeological considerations.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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47	63137047-Cut	31.0	4130 - Aspen	Poletimber Well	53	141-170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. Do not cut White Pine.
Specs: Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. Harvest in frozen winter conditions and locate appropriate skidding and decking areas. Apply BMP and Natural River guidelines near River bluff.

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

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

54	63137054-Cut	40.7	4133 - Aspen, Mixed Pine	Poletimber Well	41	111-140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.
Specs: Cut all trees except for any white oak or select white and red pine.

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

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

55	63137055-Cut	19.0	42290 - Natural Mixed Pine	Sawtimber Well	61	141-170	Harvest	Shelterwood with Retention	4133 - Aspen, Mixed Pine	Uneven-Aged	No
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Prescription Select Cut White and Red Pine to leave approximately 50-60 basal area. Cut all other trees greater than 6 inches, except leave any white oak. Protect understory regeneration as best as possible. Provide for normal recreation trail protections. Leave uncut buffer along 41 rd. for aesthetic considerations.
Specs: Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.

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

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
62 63137062-Cut	29.4	42110 - Planted Red Pine	Sawtimber Well	97	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with no retention for regeneration considerations. Follow up with cultivation treatments as needed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Planted Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment Acreage Proposed: 295.3

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 137
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions							
		With Condition	Not Available		2D	5B	5C	2A	2G	3E	3J	5E
364	344	11	9	Aspen	11			6			0	2
2	2	0	0	Bog								
83	4	4	75	Cedar	4				17		50	8
7	7	0	0	Cropland								
40	40	0	0	Herbaceous Openland								
8	8	0	0	Jack Pine								
16	16	0	0	Low-Density Trees						0		
90	24	60	6	Lowland Aspen/Balsam Poplar	60						6	
30	10	0	19	Lowland Conifers				0	17		2	
18	0	0	18	Lowland Deciduous						0	18	
20	13	0	7	Lowland Mixed Forest							7	
9	9	0	0	Lowland Shrub								
22	0	0	22	Mixed Upland Deciduous						0	22	
21	21	0	0	Natural Mixed Pines								
5	5	0	0	Northern Hardwood								
157	141	15	0	Oak			15		0	0		0
274	136	46	93	Red Pine		46				93		
94	35	0	58	Upland Mixed Forest							58	
4	4	0	0	Urban						0		
52	52	0	0	Water						0		
29	29	0	0	White Pine					0			
1,344	901	135	307	Total Forested Acres	75	46	15	6	34	93	164	11
	67%	10%	23%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Matt Edison : Examiner

Compartment: 137
 Year of Entry: 2025

2	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consumers Red Pine Expires 2030							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	75	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 137
Year of Entry: 2025

10	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consumers Pine							
11	Unavailable	5E: Long-Term Retention	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Portion of stand was utilized as retention for stand 12 cut in 2017.							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	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: 137
 Year of Entry: 2025

17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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



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
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1	4319 - Mixed Upland Forest	Poletimber Well	21.5	104	141-170	N/A	Stand occurs on the bluff face of the Manistee River. Very scenic and diverse.																																																																			
<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>15</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Hemlock</td><td>20</td><td>Log/Pole</td><td>10</td><td>104</td></tr> <tr><td>Red Maple</td><td>10</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Black Ash</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>Basswood</td><td>10</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Paper Birch</td><td>10</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>Northern White Cedar</td><td>10</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>White Pine</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	15	Log/Pole	12		Hemlock	20	Log/Pole	10	104	Red Maple	10	Pole	8		Black Ash	5	Pole/Sapling	5		Basswood	10	Log/Pole	10		Paper Birch	10	Pole	8		Balsam Fir	5	Pole/Sapling	5		Northern White Cedar	10	Pole/Sapling	6		White Pine	10	Log/Pole	12		Bigtooth Aspen	5	Pole/Sapling	6		<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>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	Sapling	White Pine	Low	5 - 10 feet	Sapling	Balsam Fir	Low	5 - 10 feet	Sapling
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2	4130 - Aspen	Poletimber Well	4.1	55	141-170	N/A	Aspen stand on top of bluff overlooking Manistee River. Good shape, hold until adjacent red pine is treated.																
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Red Maple	20	Pole	7																				
Quaking Aspen	75	Pole/Sap/Log	6	55																			
White Pine	5	Pole	9																				

3	4319 - Mixed Upland Forest	Poletimber Well	16.0	112	51-80	N/A	Along steep shore of Manistee River. Scenic.																																																															
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4	42110 - Planted Red Pine	Sawtimber Well	30.2	69	141-170	N/A	Consumers Stand						
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Canopy Species	% Cover	Size Class	DBH	Age									
Red Pine	100	Log/Pole	11	69									

5	42110 - Planted Red Pine	Poletimber Well	13.3	69	111-140	N/A	Still open, let it add some size. Check for thin next entry.-Previous Entry:Stands are growing slowly. Thinned last entry						
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Red Pine	100	Pole/Log	8	69									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
6	3102 - Grass	Nonstocked	10.5		Unspecified	Managed Opening																																																																									
7	42210 - Natural Red Pine	Poletimber Well	1.6	69	81-110	N/A	Small stand of natural/planted pine along edge of managed wildlife opening. Leave for diversity, will not be replanted.																																																																								
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8	6112 - Lowland Aspen	Poletimber Well	25.4	37	81-110	N/A	Wet stand with hummoky areas. Not much to see here.																																																																								
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9	4119 - Mixed Northern Hardwoods	Poletimber Well	5.1	88	51-80	N/A	Good looking hardwoods. Basal area is within regulation still. Look at next entry for another thinning.																																																																								
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10	2113 - Forage Crops	Nonstocked	7.4		Unspecified	Managed Opening																																																																									
11	310 - Herbaceous Openland	Nonstocked	1.9			Managed Opening																																																																									
12	4136 - Aspen, Mixed Conifer	Sapling Well	80.1	7	Immature	N/A	Stand was final harvested in fall/winter of 2017. Islands were left in middle of stand as retention as well as to keep equipment out of the low spots. Was a whole tree skid operation.																																																																								
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13	6220 - Alder/willow	Nonstocked	2.1			No																																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
14	4130 - Aspen	Sawtimber Well	2.7	60	141-170	N/A	Small stand occurs along the top of the river bluff. Large mature aspen. Consider harvesting portion of the stand that is outside river buffer.																																	
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15	6120 - Lowland Cedar	Poletimber Well	71.7	114	111-140	N/A	Stand is mix of cedar and aspen along the edges of the creek and bluff face of the Manistee River, along with balsam fir. Leave as a buffer along creek.																																	
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16	6120 - Lowland Cedar	Poletimber Medium	11.0	106	81-110	N/A	Stand is a mix of cedar and some hemlock with a scattering of aspen. Wet area within larger aspen stand. Was utilized as LTR for surrounding cut.																																	
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17	4130 - Aspen	Poletimber Well	10.4	57	141-170	N/A	Stand borders private land along the southern edge and contains some drainages. Access seems possible just north of private. Bridge will be needed.																																	
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18	6229 - Mixed lowland shrub	Nonstocked	2.5			No																																		
19	622 - Lowland Shrub	Nonstocked	4.4			No																																		
20	6112 - Lowland Aspen	Poletimber Well	50.3	69	141-170	N/A	Stand is located in the middle of a confluence of small streams and wetlands. Portable bridge would be needed to harvest.																																	
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21	4311 - Pine, Aspen Mix	Poletimber Well	36.4	37	111-140	N/A	Stand is a mix of aspen clones and scattered pockets of red pine and white pine.																																																				
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22	42110 - Planted Red Pine	Poletimber Well	7.5	71	111-140	N/A	Small stand of planted red pine thinned last entry. RR needs to be crossed to access. Treat if possible next entry when other small patches on east side of tracks are ready.																																																				
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23	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	13.2	80	51-80	N/A	Small ash component is dead/dying due to EAB, wet stand with some areas of high ground. Very wet, access across a corner.																																																				
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24	4130 - Aspen	Poletimber Well	9.6	38	81-110	N/A	Just converting to pole class																																																				
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25	42110 - Planted Red Pine	Poletimber Well	5.4	71	111-140	N/A	Various small areas of planted red pine. Treated with a thinning last entry. Still open. Check in 10 years.																																																				
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26	500 - Water	Nonstocked	44.2			No	Manistee River																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 6118 - Lowland Deciduous with Cedar Poletimber Well 3.0 58 51-80 N/A Stand occurs on floodplain of the river. small acreage and limited access.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Log	14	
Quaking Aspen	23	Pole	6	
Northern White Cedar	20	Pole	8	
Red Maple	25	Pole	7	58
Paper Birch	10	Pole/Sapling	5	
Black Ash	17	Pole/Sapling	6	

31 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 6.0 67 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Pole/Sapling	5	67
Quaking Aspen	20	Pole/Sapling	5	
Black Ash	10	Pole/Sapling	5	
Balsam Fir	35	Pole/Sapling	5	

32 4130 - Aspen Poletimber Well 52.4 58 141-170 N/A Final harvest according to river buffer requirements. Mature aspen. Treat entire stand or break up.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole	9		Balsam Fir	Low	< 5 feet	Sapling
Red Maple	15	Pole/Log	8					
Bigtooth Aspen	50	Pole/Log/Sap	9	58				
White Pine	10	Log	10					
Balsam Fir	5	Pole/Sapling	6					

33 4130 - Aspen Poletimber Well 32.1 38 111-140 N/A Aspen stand with scattered white pine towards the northern portion of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log/Pole	11	
Bigtooth Aspen	75	Pole	6	38
Red Maple	15	Pole/Sapling	6	

34 500 - Water Nonstocked 0.9 No

35 6119 - Mixed Lowland Deciduous Forest Poletimber Well 9.2 51 51-80 N/A Pockets of lowland hardwood that occur just above the level of the river. flood seasonaly. Ash is dying/dead due to EAB

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	15	Pole	6	
Basswood	15	Log/Pole	11	
Paper Birch	10	Pole/Sapling	6	
Black Ash	25	Pole	7	51
White Ash	15	Pole/Sapling	7	
Red Maple	20	Pole	6	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
36	4124 - Red with White Oak	Sawtimber Well	10.1	74	1-50	N/A	Stand occurs along the top of the river bluff. Do not treat due to Natural River Buffer.																																																											
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37	42110 - Planted Red Pine	Sawtimber Well	62.6	69	111-140	N/A	Consumers Pine																																																											
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38	4126 - White, Black, N. Pin Oak	Sawtimber Well	15.4	78	111-140	N/A	Healthy stand of smaller size yet. Hold for age class considerations.																																																											
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39	122 - Road/Parking Lot	Nonstocked	1.8			No	41 Rd																																																											
40	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	22.5	82	51-80	N/A	Mostly occurs on floodplains jsut a few feet above the river. Floods seasonly. Natural Rivers																																																											
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41	4311 - Pine, Aspen Mix	Poletimber Well	19.7	77	141-170	N/A	Wet area along west side near rd																																																											
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42	6112 - Lowland Aspen	Sapling Medium	4.8	17	Immature	N/A																																																																
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43	3104 - Degraded	Nonstocked	6.6		Unspecified	No	Old ORV trail and portion of current ORV trail to the Manistee River.																																																															
44	330 - Low-Density Trees	Nonstocked	14.9			No																																																																
45	4133 - Aspen, Mixed Pine	Sapling Well	6.1	6	Immature	N/A	Stand is a mix of white pine and aspen. Harvested in 2018 Brian's Pine 630351501																																																															
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46	6124 - Lowland Spruce-Fir	Poletimber Medium	10.5	72	51-80	N/A	Wet stand with a wet hole along 41 rd. Stand was left following previous cuts in the area. Allow to progress naturally. Mix of Balsam, spruce white pine and paper birch. A few scattered aspen.																																																															
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47	4130 - Aspen	Poletimber Well	31.0	53	141-170	N/A	Stand is along the northern edge of the old ORV trail.																																																															
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49	4130 - Aspen	Poletimber Well	37.0	37	81-110	N/A	Aspen stand just transitioning into pole class. a few scattered log red pine.																																																																								
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50	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.7	115	111-140	N/A	Stand occurs along the floodplain of the manistee river. Adjacent to US131 to the east.																																																																								
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51	42110 - Planted Red Pine	Sawtimber Well	58.6	67	111-140	N/A	Stand marked thinned in 2016. Looks good for now.																																																																								
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52	4133 - Aspen, Mixed Pine	Sapling Well	17.5	16	1-50	N/A	Stand was thinned 16 years ago 40-50 ba of red pine was left to seed in and understory of oak and aspen. Understory is now fully stocked with sapling/ borderline pole aspen and some oak.																																																																								
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53	42110 - Planted Red Pine	Sawtimber Medium	45.5	97	1-50	N/A	Very nice mixed pine stand. Large overstory RP with very nice 6-10' white pine uniform underneath. Oak scattered throughout. -Previous Entry:Old red pine plantation with a new 4yo planting of white pine.																																																																								
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54	4133 - Aspen, Mixed Pine	Poletimber Well	46.1	41	111-140	N/A	A mix of aspen age classes with scattered overstory jack and red pine.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
55	42290 - Natural Mixed Pine	Sawtimber Well	20.7	61	141-170	N/A	White pine and Red Pine mixed with aspen and some JP. Some balsam in understory. Remove aspe and poorer WP as well as some of largest rp.-Previous Entry;pole sized aspen with scattered pine and heavier to pine along 41 Rd.																																
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56	4126 - White, Black, N. Pin Oak	Sapling Well	10.5	32	81-110	N/A	Stand is the result of a red pine final harvest to release the residual oak understory. Oak is doing well, a few islands of pine were left following harvest.																																
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57	310 - Herbaceous Openland	Nonstocked	20.5			No	ROW along US 131 including the current and past ORV/Snowmobile Trailheads.																																
58	4130 - Aspen	Sapling Well	18.3	6	Immature	N/A	Stand harvested in spring 2018, ORV Aspen.																																
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59	4133 - Aspen, Mixed Pine	Sapling Well	8.6	6	Immature	N/A	Stand was harvested in winter/spring 2018. ORV aspen 630351501																																
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60	4122 - Oak, Pine	Poletimber Well	18.0	40	111-140	N/A	Hold for next entry and assess then.Stand is a mix of regenerating oak and a small overstory of oak and pine.																																
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61	4126 - White, Black, N. Pin Oak	Sapling Medium	102.9	21	Immature	N/A	Stand Rx was changed to protect regeneration, let convert. Stand was cut in winter/spring 2018. Brian's Pine 630011501. Estimated stand age reflects present and advanced regeneration during harvest.																																													
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62	42110 - Planted Red Pine	Sawtimber Well	29.4	97	111-140	N/A	Final Harvest-Previous NotesStand was thinned in winter/spring 2018. Brian's Pine 630011501																																													
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63	6225 - Bog	Nonstocked	1.6			No																																														
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64	4130 - Aspen	Sapling Well	13.3	15	Immature	N/A	Stand was final harvested in 2008. Any oak was left. Stand was transferred in C137 in 2014.																																													
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65	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.8	69	141-170	N/A	Trace of balsam poplar																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
66	42200 - Natural White Pine	Sawtimber Poor	29.1	72	1-50	N/A	Nice natural WP stand with lots of A3 stems filling in under.																																														
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67	122 - Road/Parking Lot	Nonstocked	2.1			No																																															
68	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	7.9	17	Immature	N/A	Good mix of JP, aspen, and oak.																																														
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69	4130 - Aspen	Poletimber Well	6.2	66	111-140	N/A	White ash is near opening. Trace of SM present. Major access issues.																																														
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70	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	2.3	90	111-140	N/A	Manton Crk corridor. 50 ft bluff on east edge. Trace of RM, SM, and birch. Scattered Supercanopy WP.																																														
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71	330 - Low-Density Trees	Nonstocked	0.7	2022		No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72 6112 - Lowland Aspen Poletimber Well 9.3 69 141-170 N/A

Stand is located in the middle of a confluence of small streams and wetlands. Portable bridge would be needed to harvest. Harvest when frozen or dry.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	60	Pole/Log	8	69
Red Maple	18	Pole/Log	9	
White Pine	2	Log/Pole	11	
Quaking Aspen	20	Pole/Log	8	