



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63130

Entry Year 2024

Acreage: 3,030

County Wexford

Management Area: Manistee River Valley

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N R11W, Sections 19, 20, 21, 28, 29, 30, 32, 33

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 species; and provide for forest-based recreational uses. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

Terrain is generally flat except for slopes and banks above creeks and river. Soil series consist of Rubicon-Gray calm-Montcalm. Grayling-Gray calm and Kalkaska.

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

Mostly solid State ownership with exception of large private inholding in Sections 28 and 29. This block is mix of hunting camps and year around homes. Few consumers owned red pine stands left as well within compartment.

Unique Natural Features:

Manistee River, Wheeler Creek, and various unnamed creeks. Potential for wood turtle and massasauga along Manistee River and Wheeler Creek. Potential for goshawk and red shouldered hawk in hardwood and mature aspen stands.

Archeological, Historical, and Cultural Features:

Woodland and prehistoric camps listed. Abandoned Manistee and Northeastern RR grade. Segments of old Indian trail in east part of compartment. Wheeler saw mill and school house.

Special Management Designations or Considerations:

Protection of sites listed above. Special river influence zones of stands along river and creeks. Maintain visual and recreational resource as listed above.

Watershed and Fisheries Considerations:

The Manistee River, Wheeler Creek, and several other smaller tributaries to the Manistee River flow through Compartment 130. All are Designated Trout Streams. Wheeler Creek is a high quality trout stream with naturally reproducing populations of brook trout. Therefore, no active management (clear cutting) for aspen regeneration should take place within 100 yards of Wheeler Creek (Stands 11, 12). Young aspen is a prime source of food for beavers, and beavers have the potential to devastate small trout streams like Wheeler Creek. The Manistee River in this area supports popular sportfisheries for brown trout, walleye, and northern pike. Brown trout are stocked by MDNR. Due to Natural Rivers considerations, no cutting should take place within 175' of the Manistee River (Stand 75), within 75' of Wheeler Creek (Stands 11, 12), or within 50' of any of the smaller tributaries located within Compartment 130 (Stands 42, 99, 101, 102). All BMPs should be followed in wet areas near the streams. (M. Tonello, 10/15/02)

Wildlife Habitat Considerations:

To be completed by wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Sections 19-21 & 28-33, T24N-R11W, Wexford County

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is three miles to the southwest. There appears to be some good potential for sand & gravel in the

compartment. There has been no oil & gas production within the compartment and sparse well activity in the area. The nearest oil or gas production, past or present, is about three miles north and west. There are no active State mineral leases or nominations within one mile of the compartment, and oil & gas potential beneath the compartment is considered low at this time. The State does not own most of the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

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. Harvey Bridge in section 28 crosses the Manistee River. It is a 3 ton bridge. Highway 37 runs north/south along the west edge of compartment. Most roads are open to ORV and conventional vehicles.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The North Country Trail runs east/west through out the compartment. Harvey Bridge offers access to north and south side of the Manistee River. Canoe liveries use the access point at the bridge. Fishing, hunting and dispersed camping occur within the entire compartment.

Fire Protection:

Good road access to all areas of the compartment. Topographic feature create entry problems in places. Abandoned campfires at undesignated dispersed sites have been the cause of several fires in the past and that will likely continue. Mushrooming development on the private property will increase the risk of fire starts and expand the risk of property exposed to damaging fires.

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: 120

County: Missaukee

Unit: Cadillac

Mgmt Area: Manistee River Valley

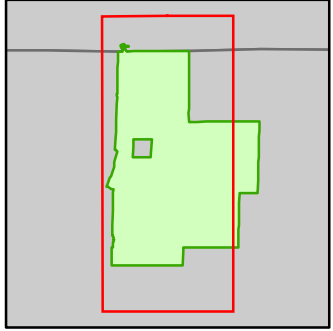
YOE: 2020

Acres: 2887.4 GIS Calculated

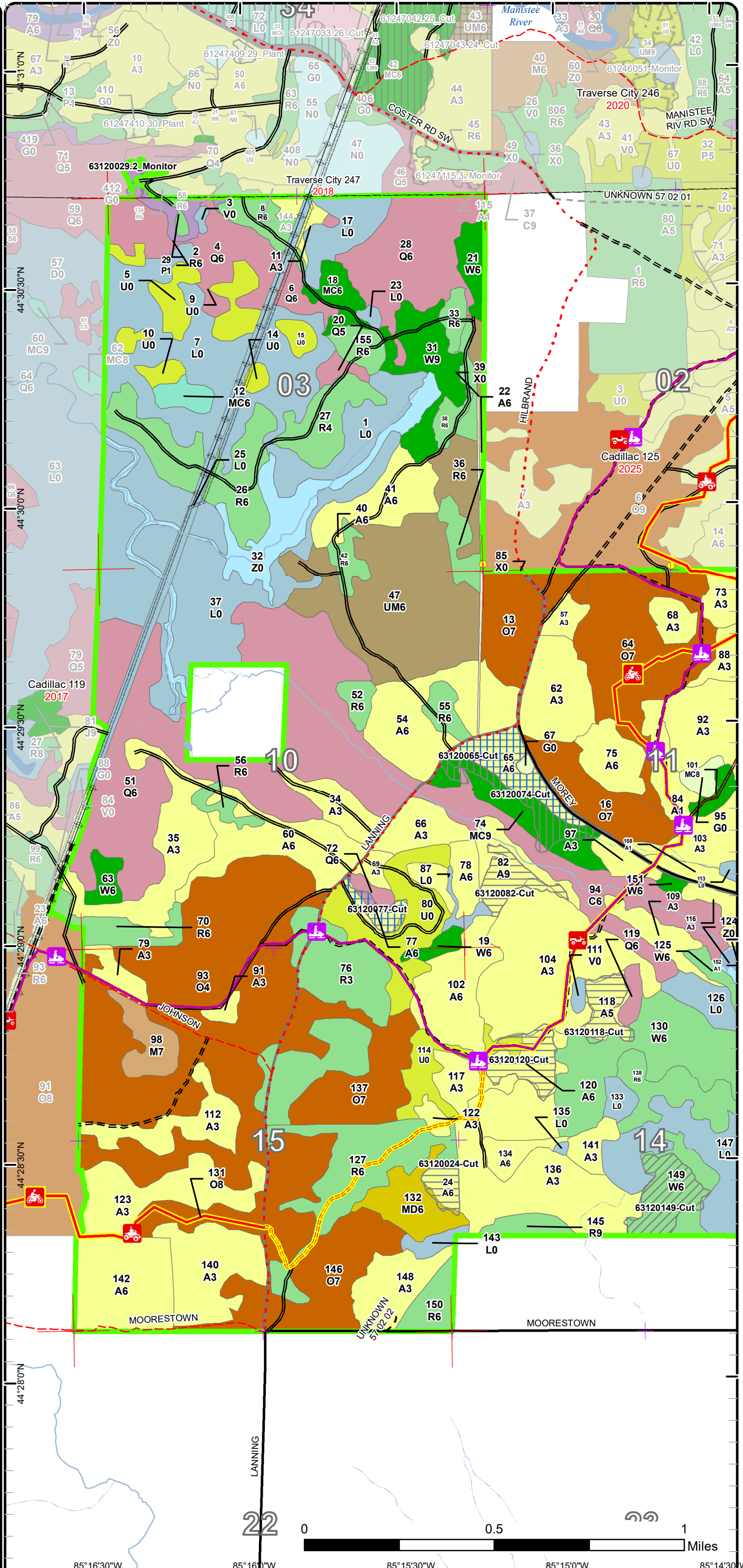
Examiner: Blair Tweedale

Map Revised: 10/5/2022

Map Phase: Post - Maps



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
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- ORV Trails
- ORV Routes
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- Powerline
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- Seed Tree (w/Reserves)
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- Shelter Wood (w/Reserves)
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- 412 - Oak Types
- 413 - Aspen
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- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated



Stand Boundary Map

Compartment: 120

County: Missaukee

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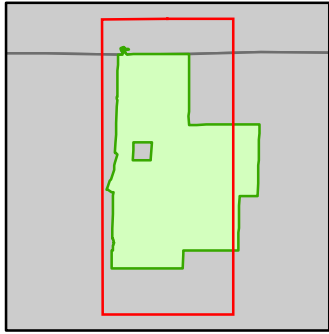
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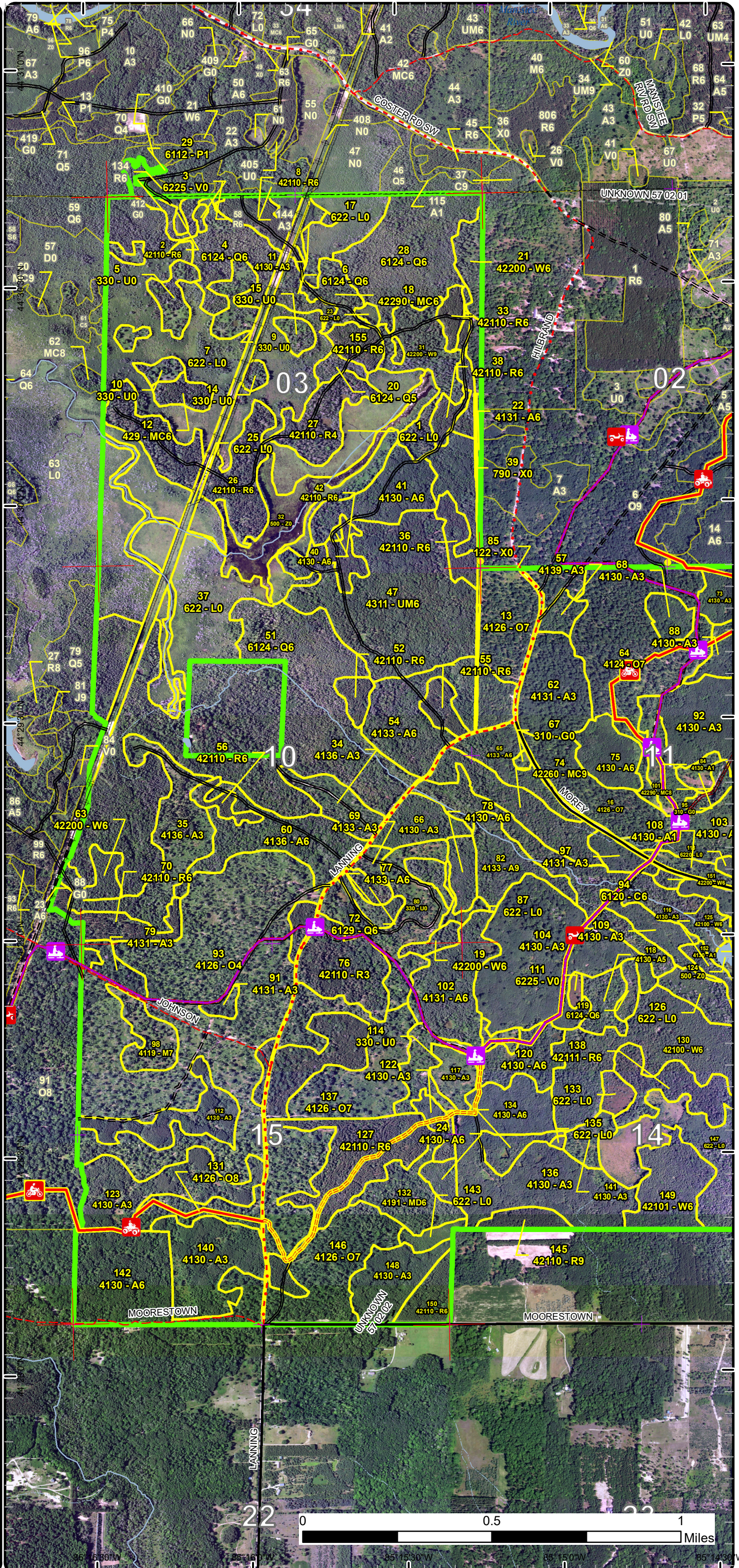
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Special Conservation Areas

Compartment: 120

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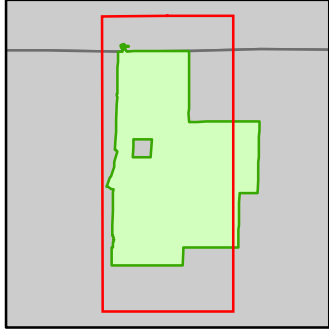
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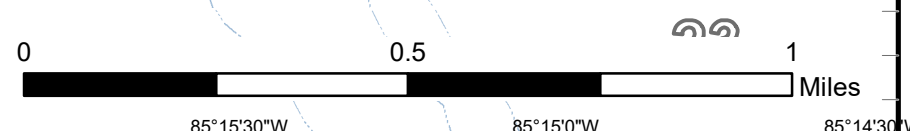
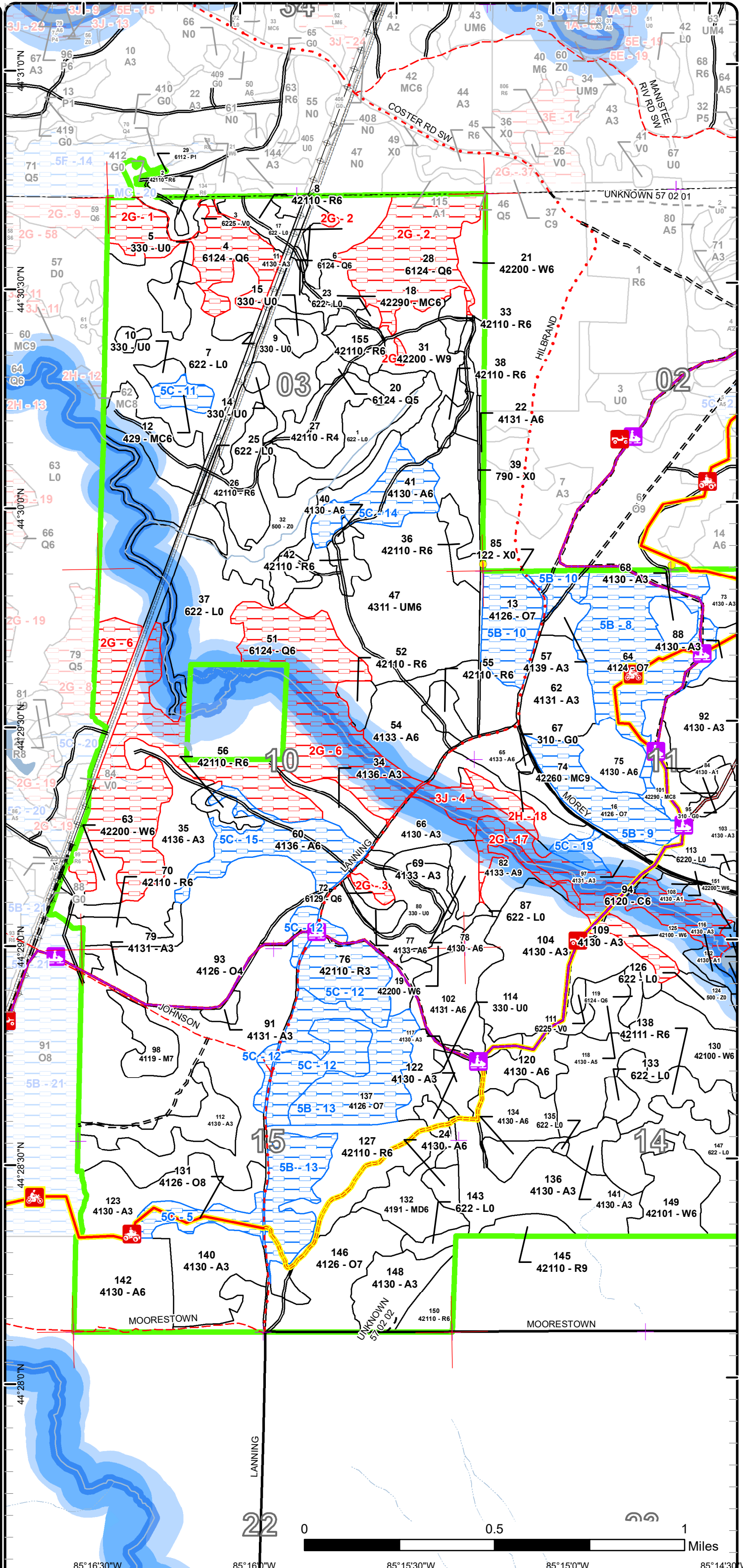
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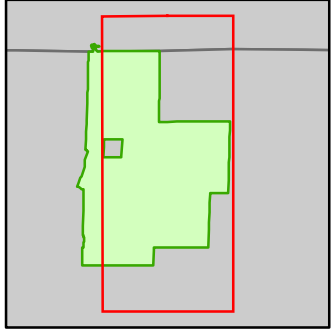
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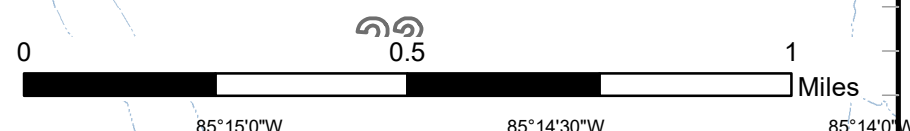
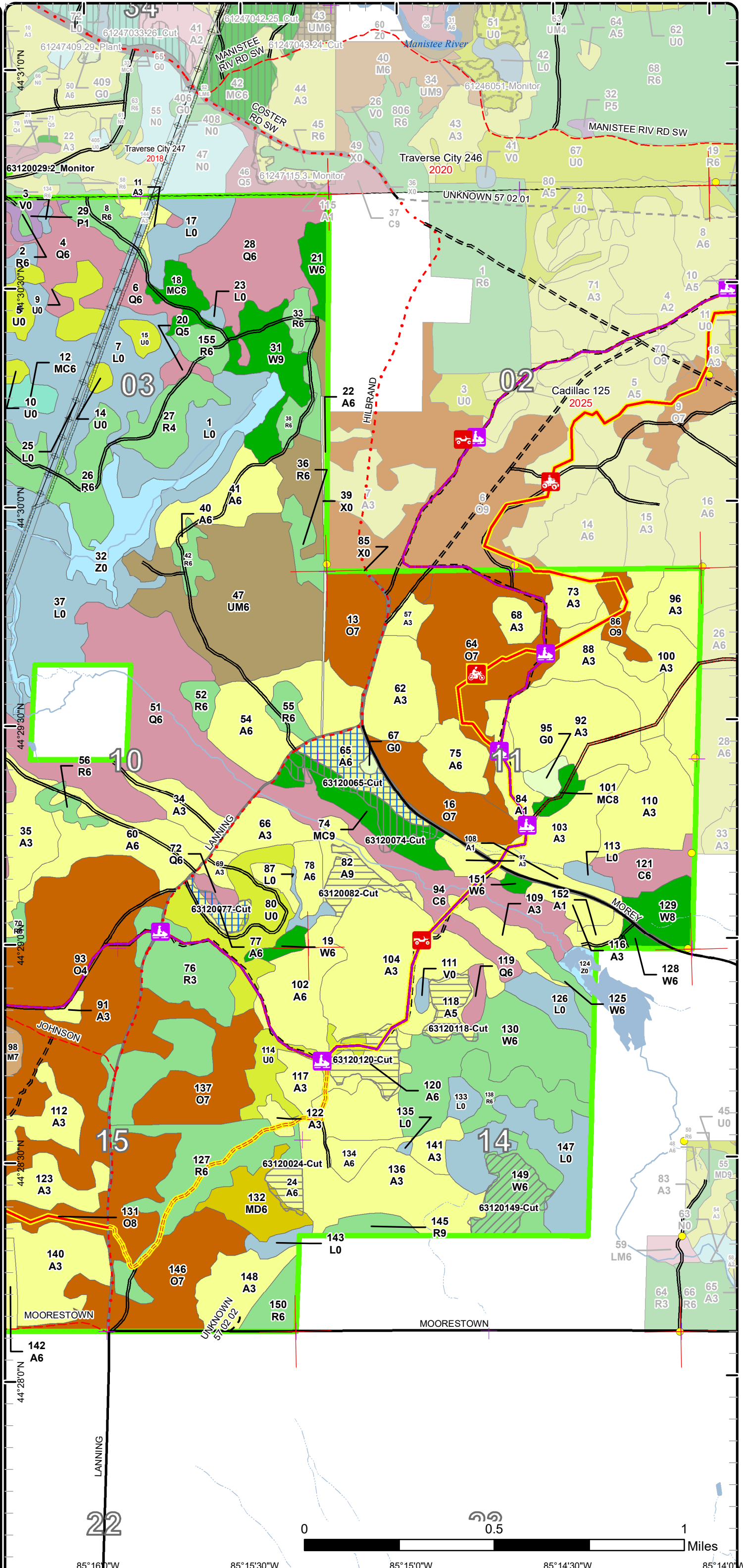
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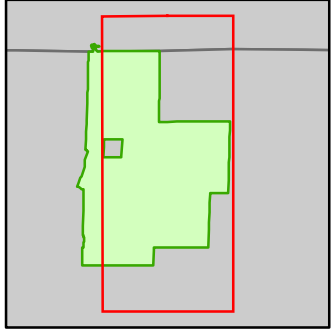
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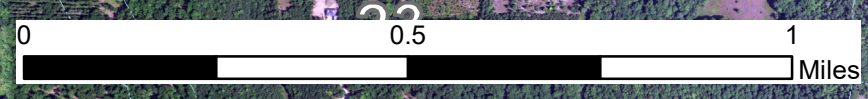
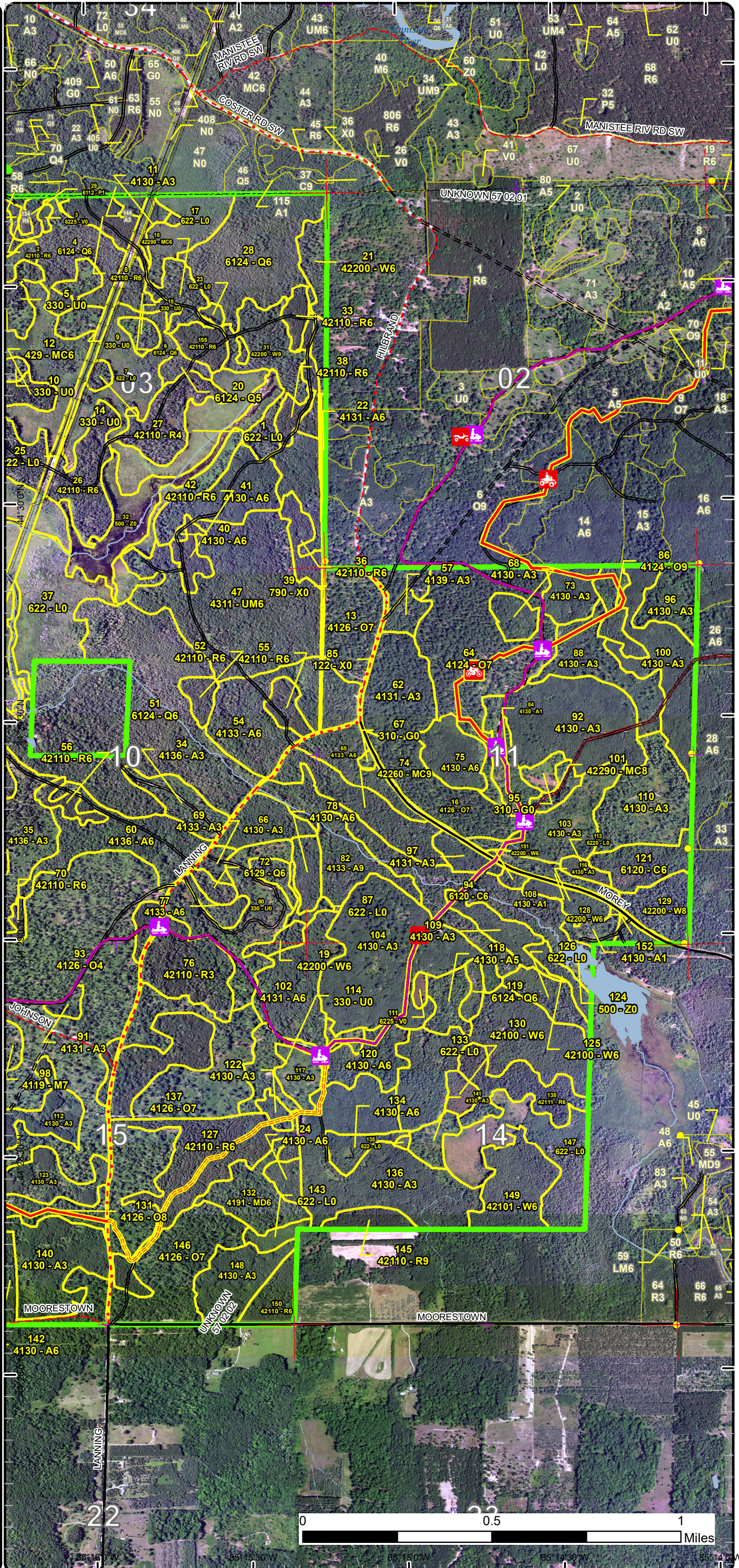
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85° 16' 0" W 85° 15' 30" W 85° 15' 0" W 85° 14' 30" W 85° 14' 0" W

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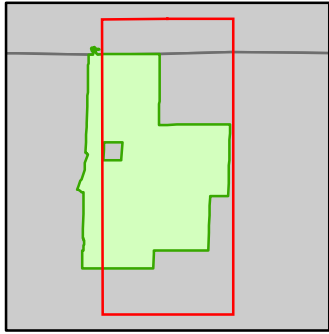
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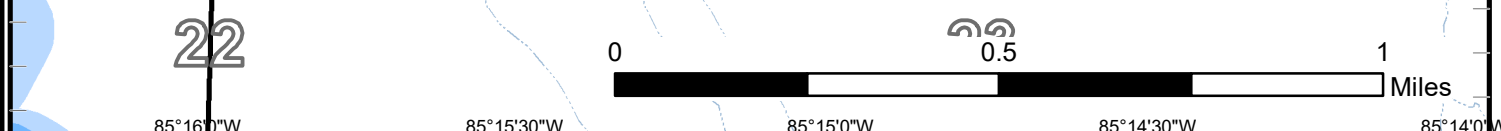
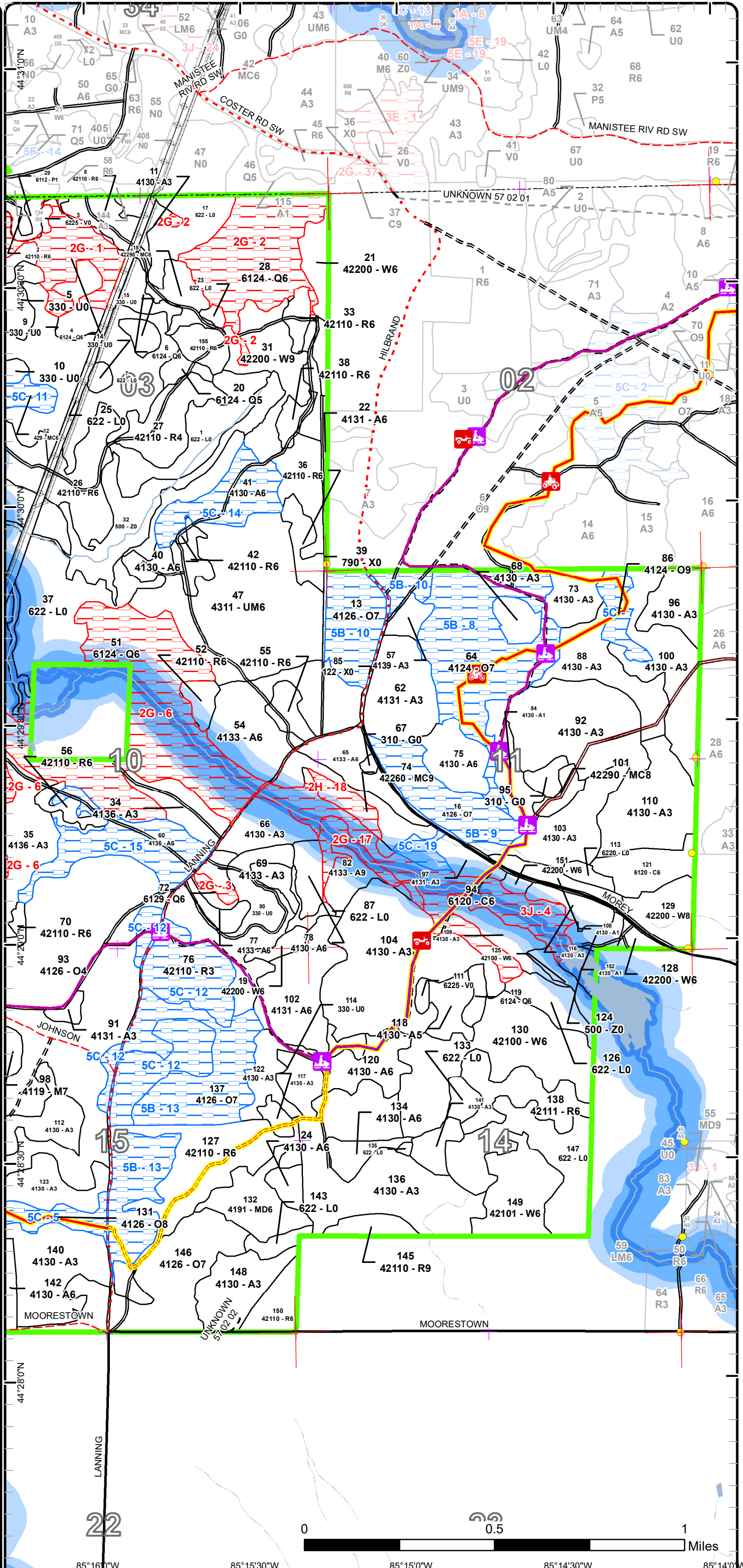
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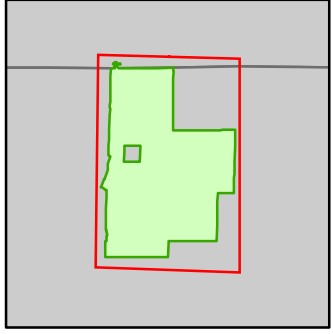
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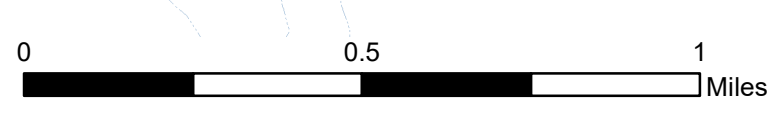
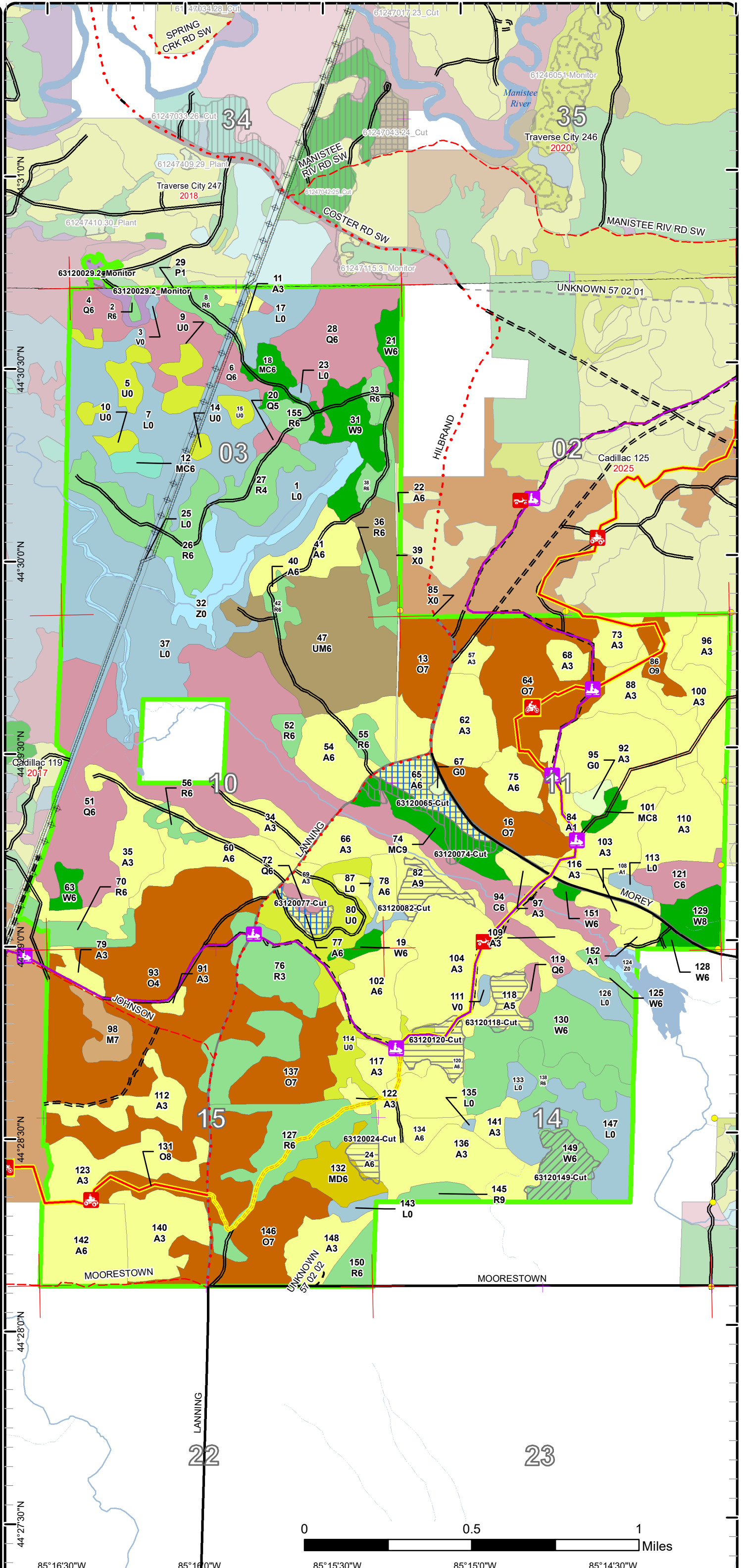
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Age Class

	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	349	150	82	0	0	90	24	102	0	0	0	0	0	0	0	0	0	796
Cedar	0	0	0	0	0	0	0	0	0	0	7	3	0	0	0	0	0	0	9
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Low-Density Trees	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Lowland Aspen/Balsam Poplar	0	0	16	0	3	0	0	0	160	0	0	0	0	0	0	0	0	0	179
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	66
Lowland Deciduous	0	0	0	0	0	0	0	0	334	0	0	0	0	0	0	0	0	0	334
Lowland Mixed Forest	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	53
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	70	0	0	0	0	45	0	49	7	66	0	0	0	0	0	0	237
Northern Hardwood	0	0	0	0	0	0	0	0	4	180	179	0	32	0	0	0	0	0	395
Oak	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	38
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	106
Red Pine	0	192	0	0	0	0	0	87	0	145	0	0	0	0	0	0	0	0	424
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	58	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	129	209
Water	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
White Pine	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Total	180	599	236	82	3	0	90	162	653	540	193	135	32	0	0	0	0	129	3031



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 130

Total Compartment Acres: 3,030

Commercial Harvest - 333
 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	90	0	0	0	0	0	0	0	0	90
Mixed Upland Deciduous	72	0	0	0	0	0	0	0	0	72
Northern Hardwood	35	0	0	0	0	0	0	0	0	35
Red Pine	104	0	0	0	0	26	0	0	0	130
White Pine	0	0	0	0	0	6	0	0	0	6
Total	301	0	0	0	0	32	0	0	0	333

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	333	0	0	0	0	186	79	0	0	598
Next Step	0	192	96	0	0	96	526	0	0	909
Total	333	192	96	0	0	281	605	0	0	1507



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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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Approved Treatments:

7	63130007-Cut	34.7	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Final Harvest leave all white pine and retention island.
Specs:

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

Acceptable Aspen with maple mix.
Regen:

Other Map retention in MIFI site condition layer.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

15	63130015-Cut	1.9	4130 - Aspen	Sawtimber Well	69	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest no retention as a result of small size.
Specs:

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

Acceptable Aspen
Regen:

Other Include with pine to south too small on its own.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

24	63130024-Spray	121.2	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	5	Immatu re	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
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Prescription Release site for second time in 2021.
Specs:

Next Step
Treatments:

Acceptable Red pine with little oak and other hardwood.
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	36 63130036-Spray	64.3	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	4	Immature	Pesticide	ERROR	42110 - Planted Red Pine	Even-Aged	No
<u>Prescription</u>											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Artificial Regen(1yr); ; Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Fully stocked stand of red pine that is free to grow.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2022											
	38 63130038-Cut	65.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	102	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<u>Prescription</u> Final Harvest leave retention area 3 to 5 percent of stand. (Map retention in MIFI site condition layer)											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, oak, and red maple.											
<u>Regen:</u>											
<u>Other</u> Red pine component will be lost, manage for mixed maple/oak and aspen.											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2023											
	52 63130052-Cut	6.6	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	95	1-50	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<u>Prescription</u> Final Harvest with retention. Leave retention as area left out of red line that is too steep along northeast line. (Map retention in MIFI)											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Mixed of aspen, oak and red maple. Pine accepted as well.											
<u>Regen:</u>											
<u>Other</u> Access from south end. Include with aspen cut to east.											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2023											
	59 63130059-Cut	8.3	42110 - Planted Red Pine	Sawtimber Well	60	111-140	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Final Harvest no retention due to small size. Leave all sugar maple in stand and protect maple understory as much as practical during											
<u>Specs:</u> harvest.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Convert to northern hardwood.											
<u>Regen:</u> Already establishing in understory. SM/RM/Cherry/Beech.											
<u>Other</u> Converting small stand to HW. Stand has already developed SM understory, promote this conversion with harvest.											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2023											



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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
63	63130063-Cut	88.1	4139 - Aspen, Mixed Deciduous	Sawtimber Well	75	111-140	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 stand. (Map in MIFI)</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> Aspen primary with minor mix of of maple, cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u> Buffer Wheeler Creek appropriately. For the most part two track on east edge will be good distance.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
70	63130070-Cut	95.9	42110 - Planted Red Pine	Sawtimber Well	83	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final Harvest no retention as a result of planted red pine objective.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Acceptable</u> Planted red pine. Minor component of mixed hardwood and oak allowed.</p> <p><u>Regen:</u></p> <p><u>Other</u> Low stumps and require all trees 1 inch and up to be cut. Require chipping to facilitate planting operations.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
73	63130073-Monitor	79.1	4130 - Aspen	Sapling Medium	1	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> monitor regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen primary.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 3 /27/2024</p>											
88	63130088-Cut	6.1	42100 - Planted White Pine	Sawtimber Well	60	111-140	Harvest	Systematic Thinning	4210 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Perform systematic row thinning. Take two leave two pattern.</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 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
92 63130092-Cut	26.0	42110 - Planted Red Pine	Sawtimber Well	60	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin stand.</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> Equipment width restriction spec should be used.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 597.8
Acres Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 130
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
796	677	14	105

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions											
					5B	5C	1C	2F	2G	2H	3B	3E	3I	3J	5E	
796	677	14	105	Aspen		14	59				24	5		4		13
10	0	0	10	Cedar					10							
40	40	0	0	Herbaceous Openland					0							
77	77	0	0	Low-Density Trees												
178	18	0	160	Lowland Aspen/Balsam Poplar											160	
66	0	0	65	Lowland Conifers					65							
334	0	0	334	Lowland Deciduous					60						274	
53	0	0	53	Lowland Mixed Forest					53							
1	0	0	1	Lowland Shrub											1	
1	1	0	0	Marsh												
236	187	49	0	Mixed Upland Deciduous		49										
395	380	0	15	Northern Hardwood				13								2
38	0	38	0	Oak	38											
106	0	106	0	Planted Mixed Pines		106										
424	343	49	32	Red Pine		49						32				
2	2	0	0	Sand, Soil												
5	5	0	0	Treed Bog												
210	187	22	0	Upland Mixed Forest		22										
53	53	0	0	Water												
6	6	0	0	White Pine												
3,030	1,976	279	775	Total Forested Acres	38	241	59	13	188	24	5	32	4	435	15	
	65%	9%	26%	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	3J: Water quality / BMPs (stream, river, or lake)	160	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified	
Comments: River valley to trout stream Wheeler Creek. Semi steep banks and seeps. BMP concerns with commercial management.								

Report 4 – Site Conditions

Cadillac Mgt. Unit
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2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Aspen retention island. (Marked with Green boundary)							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention island left. (Marked with green boundary) Mix of hardwood and aspen, what stand was like before cut.							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Aspen retention island. (Marked with green boundary)							
5	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand the south.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	212	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Large off the bluff complex not suitable for commercial management.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	33	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	Unspecified	Unspecified
Comments: Large complex along and off bluff of Manistee River. Not suitable for management. Most of area falls within river and associated stream buffers. Area is characterized by steep banks and seeps/drainages that all run into Manistee River.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Water feature/drainage.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	53	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Effort needed to get to this stand commercially cost prohibitive on its own. May make more sense to wait until stands 73 and or stand 34 are cut again to make crossings need to get into stand.							
13	Unavailable	3B: Threatened, endangered, and special concern species	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
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14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Area off the bluff not suitable for commercial management. Too steep, BMP concerns and seeps.							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consumers Lease Timber.							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Seeps throughout stand. Hard factor seems most appropriate with rutting concerns and seeps that flow even in winter in stand.							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 130
Year of Entry: 2024

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	106	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold this area to maintain some mature timber within this area. Large recent red pine final harvests in all directions.							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold till next entry. With all recent even aged management in area this will be one of few mature stands left.							
23	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
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Compartment: 130
Year of Entry: 2024

26	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	1C: Other dept or div proc/practices	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See locked 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																																																																																	
1	4130 - Aspen	Sapling Well	5.3	18	Immature	N/A	Small units of "M-37 Aspen" Sale. Final harvested in Dec 2004. Small cuts have regenerated well to a mix of aspen and cherry. Aspen dominated. A few mature cherry left from harvest.																																																																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>80</td> <td>Sapling</td> <td>3</td> <td>18</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	80	Sapling	3	18	Black Cherry	5	Sapling	2		Red Maple	15	Sapling	3																																																														
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Red Maple	15	Sapling	3																																																																																					
2	4130 - Aspen	Sapling Well	9.6	17	Immature	N/A	Unit 3 of "M-37 Aspen" Sale. Final harvested in Jan 2005. Call back well to aspen. Still in sapling size class. A few cherry and beech left.																																																																																	
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3	4112 - Maple, Beech, Cherry Association	Poletimber Well	145.5	86	81-110	N/A	Medium quality pole dominated northern hardwood, with minor beech and ash component. More significant cherry and aspen component in pockets to east. Semi open near road edge within middle of stand. A few small grassy openings scattered in the stand. Rolling terrain.																																																																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>65</td> <td>Pole/Log</td> <td>9</td> <td>86</td> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>12</td> <td>Log/Pole</td> <td>11</td> <td></td> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>8</td> <td>Log/Pole</td> <td>12</td> <td></td> <td>Beech</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Basswood</td> <td>10</td> <td>Log</td> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	65	Pole/Log	9	86	Black Cherry	Low	Variable	Sapling	Red Maple	12	Log/Pole	11		Ironwood	Medium	Variable	Sapling	Beech	8	Log/Pole	12		Beech	Low	< 5 feet	Sapling	Basswood	10	Log	13						Bigtooth Aspen	5	Pole/Log	9																																
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4	4130 - Aspen	Sapling Well	47.2	8	Immature	N/A	Stand was final harvested in winter 2014. Was chipping operation. Retention island left and is mapped. Was side slope of quality pole-log aspen few scattered hardwood mixed in. Heavy red maple and beech regen in pockets.																																																																																	
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Red Oak	5	Log	14																																																																																					
5	6112 - Lowland Aspen	Sawtimber Medium	159.7	72	Unspecified	N/A	Valley complex of Wheeler Creek. Mostly mixed log-pole quaking aspen, with cedar pockets directly shading the creek. Mostly lowland, although some of the side slopes are more upland. Old road bed on west bank of creek. Aspen falling out over time, stand should slowly covert to more long lived hardwood over time.																																																																																	
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6	310 - Herbaceous Openland	Nonstocked	3.5		Unspecified	No	Historically Managed wildlife opening. Recent years it appears wildlife division has stopped maintaining.																																																																																	



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7	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	34.7	88	81-110	N/A	Low quality northern hardwood with significant aspen clones in pockets. Small openings in stand and on border of stand. Few single stem hardwood. Slight rolling hills.																																																				
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8	4139 - Aspen, Mixed Deciduous	Sapling Well	10.4	17	Unspecified	N/A	Unit 2 of "M37 Aspen" Sale. Cut in Jan 2005. Stand has regenerated to a well stocked mix of aspen, cherry and red maple. A few scattered cherry remain from last harvest.																																																				
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9	4130 - Aspen	Poletimber Well	27.0	24	Immature	N/A	Sale was cut in 1997 as part of "Wheeler Creek Aspen" Has come back well to aspen and red maple. Just into pole class still sapling size stems.																																																				
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10	4130 - Aspen	Sapling Medium	10.5	15	Immature	N/A	Part of "15 Rd. Aspen" sale final harvest in Fall of 2006. Stand has regenerated in patches of aspen. Will be fairly open as stand matures. Few maples left along northeast edge.																																																				
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11	330 - Low-Density Trees	Nonstocked	6.3		Unspecified	No	Small opening with scattered cherry and stunted maple.																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	4130 - Aspen	Sapling Poor	49.7	7	Immature	N/A	Low quality mixed hardwood with significant aspen component. Mostly maple and cherry with very few single stem trees. Stand is semi open in spots with limited regen under the canopy. A few red pine mixed in to the north. STAND was final harvested in winter 2015 was a whole tree chipping operation. Came back very patchy. Deer browse likely issue in limiting HW regeneration.
Canopy Species		% Cover	Size Class		DBH	Age	
Sugar Maple		2	Sapling/Pole		1	8	
Red Maple		10	Sapling		1	7	
Red Oak		4	Log/Pole		11		
Bigtooth Aspen		64	Sapling		1	7	
Black Cherry		15	Sapling		1	7	
13	4130 - Aspen	Sapling Well	22.3	7	Immature	N/A	Stand was final harvested in winter 2015. Short wood operation. Island retention. Came back well to aspen. Was a Pole-Log Aspen stand with minor mix of red maple, cherry and oak. Rolling topo.
Canopy Species		% Cover	Size Class		DBH	Age	
Bigtooth Aspen		75	Sapling		1	7	
Red Oak		5	Pole		8		
Black Cherry		7	Sapling		1		
14	4130 - Aspen	Sapling Well	37.0	15	Unspecified	N/A	Part of "15 Rd. Aspen" sale cut in Fall of 2006. Stand has come back well to a aspen-red maple mix, dominated by aspen.
Canopy Species		% Cover	Size Class		DBH	Age	
Red Maple		15	Sapling		2		
Beech		10	Sapling		2		
Bigtooth Aspen		70	Sapling		3	15	
15	4130 - Aspen	Sawtimber Well	1.9	69	Unspecified	N/A	Small pocket of over mature aspen. Some already dead and falling apart. Full honeysuckle in understory.
Canopy Species		% Cover	Size Class		DBH	Age	
Quaking Aspen		100	Log		16	69	
Sub-Canopy Species		Density	Avg. Height		Size		
Honeysuckle (spp.)		Full	5 - 10 feet		Tall Shrub		
Red Maple		Low	Variable		Sapling		
16	4130 - Aspen	Sapling Well	13.5	15	Immature	N/A	Part of "15 Rd. Aspen" sale cut in Fall of 2006. Stand came back well to mixed aspen and red maple. Bigtooth on the ringsides and quaking in the bowls.
Canopy Species		% Cover	Size Class		DBH	Age	
Bigtooth Aspen		50	Sapling		3	15	
Quaking Aspen		40	Sapling		3	15	
17	330 - Low-Density Trees	Nonstocked	23.4		Unspecified	No	Small opening, with scattered cherry, maple and jack pine.



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18	4130 - Aspen	Poletimber Well	11.6	24	Unspecified	N/A	Cut in 1997 as part of "Wheeler Creek Aspen". Stand came back well to aspen. Hemlock and cedar were left.																																																																								
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19	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.7	75	51-80	N/A	Small ridge of log/ pole size /low quality northern hardwood. All timber adjoining has been treated. Many multiple stem maple.																																																																								
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20	4110 - Sugar Maple Association	Sawtimber Well	6.6	91	51-80	N/A	Unit four of "M37 Aspen" sale cut in Winter of 2005. Medium quality northern hardwood which was thinned fairly heavy back in 2005. Some aspen along edge missed lumped in with current stand.																																																																								
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21	4310 - Pine, Oak Mix	Sapling Medium	129.2	9	Immature	N/A	Part of the 130 Red Pine Project Sale. Cut in Jan/Feb of 2012. All pine and oak under 8 dbh was left. Cut during mild unfrozen winter conditions so natural scarification possible . Mix of maple, pine, aspen and oak advanced regen make up current stand. STAND was RX BURNED on August 13th 2013, and was trenched where possible and planted to red pine in October of 2013. Stand will be left as is as a nice mix of planted red pine and all other various advanced regeneration that was left along with what sprouted from cut. Structurally diverse stand of planted pine, jack pine volunteers as well as all other mixed deciduous left and sprouted from 2012 harvest.																																																																								
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22	4110 - Sugar Maple Association	Sawtimber Well	102.0	95	81-110	N/A	Stand was thinned in 1997(small park of State land). Majority of stand was acquired in 2014 from private. Medium quality hardwood with mostly ironwood/cherry and beech in understory. All ash has fallen out of overstory and or standing dead. Some nice single stem SM but also many stump sprouts.																																																																								
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23	42110 - Planted Red Pine	Sawtimber Medium	48.7	83	1-50	N/A	Stand was planted in 1939 to red pine/jack pine mix.																																																								
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24	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	126.7	5	Immature	N/A	Stand was final harvested and chipped no retention to facilitate planted operations. Stand was final harvested in fall of 2015. Objective of planted red pine, will need significant site prep to accomplish this goal. Stand was trenched in 2016 summer. Stand was planted in 2017. TMS did not scheduled a regen survey for the summer of 2018. Survey in fall of 2018 with stand 36. STAND was release sprayed in summer 2019 with helicopter. ONE YEAR REGEN CHECK- 85 percent red pine stocked but site is not free to grow. Heavy maple, aspen and oak competition, needs release spray. RELEASE SPRAYED 2019 summer Helicopter, good conditions.																																																								
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25	4112 - Maple, Beech, Cherry Association	Sawtimber Well	60.0	92	81-110	N/A	Mixed medium quality Log/ pole northern hardwood. Still pole in spots but overall log size. Rolling terrain. Some aspen and oak mixed in. Ash has all fallen out of stand beech still hanging on although BBD in stand.																																																								
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26	4130 - Aspen	Sapling Well	1.3	7	Immature	N/A	Very small patch clones of mature aspen. Stand was final harvested in 2016 winter. Short wood operation.																																																								
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27	330 - Low-Density Trees	Nonstocked	1.5		Unspecified	No																																																									
28	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	106.2	83	81-110	N/A	Stand was planted in 1939 to mix of red pine/jack pine and white pine.																																																								
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29	4130 - Aspen	Poletimber Well	42.9	25	Immature	N/A	Final harvested in Fall of 1996 as part of "Hidden Creek" sale. Stand has regenerated well to aspen. Scattered oak left. Just into pole size, still sapling size stems in pockets. Honeysuckle moved into edges of stand.																																																																								
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30	6118 - Lowland Deciduous with Cedar	Poletimber Well	22.6	72	Unspecified	N/A	Small lowland valley of cedar and hemlock overtopped by aspen. Sensitive soils. Significant flowing drainage runs through majority of stand. Timber on both sides cut up to where appropriate.																																																																								
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31	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No	Opening in the middle of aspen cut, appears to be old landing.																																																																								
32	4310 - Pine, Oak Mix	Sawtimber Poor	22.4	83	1-50	N/A	Mixed stand that was cut in 2016. All oak and red pine was left. Created two aged stand of overstory oak and red pine with mixed aspen, red maple and oak understory. Rolling terrain. Note red pine was planted but no longer worth calling plantation in current form.																																																																								
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33	6229 - Mixed lowland shrub	Nonstocked	1.1	0	Unspecified	No																																																																									
34	4130 - Aspen	Sapling Well	60.7	7	Immature	N/A	Stand was final harvested in winter of 2016. Was a short wood operation all sugar maple, oak and a few green marked aspen were left. As well as any conifer. Small creek borders to west with private to south. Rolling terrain. Small grassy opening in center of stand. Cut in 2016 created two aged stand.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
35	4133 - Aspen, Mixed Pine	Sawtimber Well	2.2	57	81-110	N/A	Small strip of timber left along new property line created with land swap that occurred to gain legal access to stand 73. Seasonally wet.																																																			
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36	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	65.6	4	Immature	N/A	6/14/2022-Stand has been re-planted as of 6/6/22. Approximately 375 TPA were added. 11/19/20-3 year regeneration survey was completed. Stand has failed regeneration survey with only 511 TPA. Stand is also not free to grow at this time. Release remaining red pine at this time and then replant to get stocking up to acceptable level. Stand was final harvested and chipped in 2016. Plans to red plant to red pine. Large oak stumps will present some difficulties in planting and trenching. Minor mix of other species could be accepted on this site, as long as red pine is free to grow. FTP C63-803. Site planted on 5/31/2018 to 911 trees per acre. STAND was release sprayed in summer 2019 with helicopter.																																																			
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37	6120 - Lowland Cedar	Sawtimber Well	2.5	107	Unspecified	N/A	Lowland pole cedar and mixed deciduos. Wet with underground seeps.																																																			
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38	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	65.8	102	81-110	N/A	Planted to red pine and jack pine in 1939. Jack pine has all fallen out, left with heavy mix of red pine that was planted with mature oak/aspens/red maple filling in between. Southern border transition into low quality hardwood with few sugar maple/basswood. Heavy rolling hills. Steep spots in east end but nothing too steep to slow forest management.																																																			
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39	6224 - Treed Bog	Nonstocked	4.5		Unspecified	No	Flooded bog. Heavy cattails, with scattered cedar in rough shape. Too wet to sustain forested covertype.																																																			



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40	6112 - Lowland Aspen	Poletimber Well	2.8	30	Immature	N/A	Appears stand was cut a number of years ago. (Old stumps, may have been an old wildlife cut) Stand has regenerated to a mix of aspen and red maple. Low overall density.																																																		
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41	310 - Herbaceous Openland	Nonstocked	3.3	0	Unspecified	No	M37 road and shoulder.																																																		
42	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	65.5	104	Unspecified	N/A	Variable lowland mix of cedar, aspen, fir, tamarack, hemlock and lowland hardwood. Scattered log white pine also present. Very wet and flooded site. Evidence of larger blowdown events in pockets. Likely deer yard. Consumers records indicate some effort to perform cedar harvests occurred in 60s-80s but hard to distinguish what took place without maps or further documentation.																																																		
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43	330 - Low-Density Trees	Nonstocked	5.0	0	Unspecified	No	.																																																		
45	6112 - Lowland Aspen	Sapling Well	15.5	15	Immature	N/A	Cut in 2007 as part of "Wuotila Aspen" sale. Aspen has regenerated well in pockets, with cedar scattered from pervious sale. Wetter pockets have regenerated a little sparse.																																																		
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46	4130 - Aspen	Sapling Well	46.8	15	Unspecified	N/A	Cut in 2007 as part of "Wuotila Aspen" sale. Stand has regenerated well in pockets. Some wet areas remain fairly open. Aspen came back well. Scattered cedar, oak and white pine were left.																																																		
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47	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	7.7	92	81-110	N/A	Mixed medium quality northern hardwood with some aspen scattered. Regen limited mostly to ironwood. Few beech still look oak all ash has fallen out. Small stand.																																															
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49	4130 - Aspen	Sapling Well	2.5	15	Immature	N/A	Stand was final harvested 2004/2005. Aspen-Maple and a few scattered oaks regenerated well. A few scattered oak in left.																																															
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50	330 - Low-Density Trees	Nonstocked	24.2		Unspecified	No	Grassy opening with widely scattered maple and cherry																																															
51	330 - Low-Density Trees	Nonstocked	9.8	0	Unspecified	No																																																
52	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	6.6	95	1-50	N/A	Small ridge of low quality log oak and mostly pole aspen. All the timber surrounding has been treated. Northeast portion of sale is on steep side slope.																																															
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53	42210 - Natural Red Pine	Sawtimber Medium	2.6	67	1-50	N/A	Planted red pine in 1955. Very small isolated red pine plantation. Variable size and quality, stand has been 3rd row thinned in past. Stand was thinned heavy one last time in 2016 and allowed to convert to mixed pine and hardwood. Too small to re plant. About 30 to 50 BA left scattered.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
54	4123 - Red Oak	Sawtimber Poor	38.4	85	1-50	N/A	Stand was cut in 2004 "Harvey's Aspen". All oak was left. Aspen and Red maple regen in understory created two aged stand. Moderate to low quality oak makes up the overstory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		100	Log/XLog	14	85	Bigtooth Aspen		High	>20 feet	Sapling
						Red Oak		Low	Variable	Sapling
						Red Maple	Medium	>20 feet	Sapling	
55	3302 - Low Density Conifer Trees	Nonstocked	5.0		Unspecified	No	Small opening with young red pine planted in a handful of rows on both sides of the road. Appears to be past RDR project. Close to forested.			
56	4130 - Aspen	Sawtimber Well	24.2	55	81-110	N/A	Appears consumer's may have harvested stand from records in 1967. Two remote pieces of mature quaking aspen, fairly wet and lowland in nature, but upland compared to surroundings. Deep drainages and large swamp to north and east make this a land locked island of sorts.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		75	Log/Pole	12	55	Red Maple		High	Variable	Sapling
Sugar Maple		10	Log/Pole	12		Beech		Low	< 5 feet	Sapling
Black Cherry		5	Log	10		White Pine		Low	< 5 feet	Sapling
Red Maple		10	Log	13		Prickly Ash	Medium	5 - 10 feet	Tall Shrub	
57	500 - Water	Nonstocked	8.3	0	Unspecified	No				
58	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No				
59	42110 - Planted Red Pine	Sawtimber Well	8.3	60	111-140	N/A	Planted red pine and white pine, along with few rows of scotch pine and white spruce. Land acquired in 2014. From old imagery can see this was field planted in late 1960s.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		70	Pole/Log	9	60	White Ash	Low	5 - 10 feet	Sapling	
Scotch Pine		5	Log/Pole	10		Black Cherry	Medium	Variable	Sapling	
White Pine		20	Pole/Log	9		White Spruce	Low	< 5 feet	Sapling	
White Spruce		2	Pole/Log	8		Sugar Maple	Medium	Variable	Sapling	
Sugar Maple		2	Log/Pole	12		Beech	Low	< 5 feet	Sapling	
Black Cherry		1	Log/Pole	10						
60	6120 - Lowland Cedar	Poletimber Well	7.3	95	81-110	N/A	Lowland aspen/cedar mix. Small flowing drainage in middle of stand. Cedar concentrated in thick pockets. Wet saturated soils. Aspen will slowly fall out of stand over time.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		5	Log/Pole	11						
Quaking Aspen		35	Pole/Log	9	51					
White Pine		5	Pole/Log	9						
Northern White Cedar		55	Pole/Log	9	95					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
61	4310 - Pine, Oak Mix	Sapling Well	57.9	9	Immature	N/A	Part of the 130 Red Pine Project Sale. Final harvested in 2011. FTP completed to plant red pine. Log mixed pine and oak islands left as retention. Stand was trenched in 2012 and will be planted in fall 2013. Came back to a heavy mix of planted pine and mixed oak, aspen and hardwood. In some portions planted pine completely overtopped in others red pine will be part of canopy.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Cherry		5	Sapling	2	11			
Red Pine		50	Sapling	1	9			
White Oak		5	Sapling	2				
Red Oak		1	Log	13				
Red Oak		12	Sapling	2	11			
Bigtooth Aspen		3	Sapling	2				
Red Pine		5	Log	14				
White Pine		6	Sapling	2	11			
Red Maple		12	Sapling	2	11			
White Pine		1	Log	15				
62	4130 - Aspen	Sapling Well	24.2	6	Immature	N/A	Log/pole aspen dominated stand with some Hardwood mixed in. A few small cedar and hemlock scattered. Stand final harvested in 2016, all pine and hemlock and cedar left. Along with some green marked aspen for retention.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		5	Log	12				
Hemlock		2	Pole	7				
Black Cherry		8	Sapling	1				
Sugar Maple		6	Log	14				
Bigtooth Aspen		70	Sapling	1	6			
Red Maple		7	Sapling	1				
Northern White Cedar		2	Pole	5				
Sub-Canopy Species		Density	Avg. Height	Size				
Beech		Medium	< 5 feet	Sapling				
Red Maple		Low	Variable	Sapling				
Ironwood		Low	Variable	Sapling				
63	4139 - Aspen, Mixed Deciduous	Sawtimber Well	88.1	75	111-140	N/A	Portion of larger hardwood stand that was broken off this inventory based on concentration of mature aspen clones throughout. Aspen is particularly concentrated on east edge. Maple for most part poor form and stump sprout origin. Rolling terrain that slopes down on east edge.	
Canopy Species		% Cover	Size Class	DBH	Age			
Basswood		5	Log	15				
Bigtooth Aspen		41	Log/XLog	14	75			
Black Cherry		2	Log/Pole	10				
Sugar Maple		24	Pole/Log	9				
Beech		8	Log	13				
Red Maple		20	Log	12				
Sub-Canopy Species		Density	Avg. Height	Size				
Black Cherry		Low	Variable	Sapling				
Ironwood		Medium	Variable	Sapling				
Beech		Low	< 5 feet	Sapling				
64	42110 - Planted Red Pine	Sawtimber Well	32.2	69	111-140	N/A	Consumers Power red pine. State does not have rights to timber. Good quality pine which has and will continue to be managed by foresters who work for Consumers Power until lease expires around 2030.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		100	Log/Pole	11	69			
Sub-Canopy Species		Density	Avg. Height	Size				
Beech		Low	Variable	Sapling				
White Oak		Low	Variable	Sapling				



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65	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	52.8	75	51-80	N/A	Lowland cedar and quaking aspen mix. Pockets of the interior of stand are completely flooded with cattails and blowover trees. Small creek flows into stand.																																																								
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66	6118 - Lowland Deciduous with Cedar	Sawtimber Well	32.8	74	81-110	N/A	Mixed stand on the south facing bluff of the Manistee. Small drainages flow into the stand. Lowland flooded hardwoods flats right near the rivers edge. Area off the bluff of river, and drainages that flow from swamp to north.																																																								
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71	4130 - Aspen	Sapling Well	2.8	16	Unspecified	N/A	Cut in 2005. Regen comprised mostly of aspen and red maple. Small buffer left along road as well as log oak scattered within stand.																																																																																										
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72	4131 - Aspen, Oak	Poletimber Well	59.0	55	Unspecified	N/A	Rolling terrain , was consumers property decades ago. Appears to be final harvested in mid to 1960s with scattered oak left at that time. Lower quality site. NCT trail along south border. Scenic overlook along this high point of trail. Includes strip of jack pine too small to map.																																																																																										
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73	4130 - Aspen	Sapling Medium	79.4	1	Immature	N/A	Stand was final harvested in winter frozen conditions in 2022. All conifer was left. Seasonally wet stand, winter conditions were ideal for stand to be cut in 2022.																																																																																										
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74	710 - Sand, Soil	Nonstocked	2.2		Unspecified	No	Small wash out along steep bend in Manistee. Seeps on bank, some vegetation working way into this spot.																																																																																										
76	42110 - Planted Red Pine	Sawtimber Well	17.5	61	81-110	N/A	Row thinned back in 1996 as part of "Harveys Pine" sale. Relative low quality small pole plantation. Oak and maple scattered, overtopping pine in spots. Stand was second thinned in summer 2015. Short wood operation. Access roads were bermed.																																																																																										
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77	4199 - Other Mixed Upland Deciduous	Poletimber Well	44.9	63	1-50	N/A	Variable diameter complex of oak and aspen, with some beech- red maple clumps mixed in. Small pole dominated stand which is relatively open in spots. Aspen in small clones within stand, not evenly mixed. Poor quality almost stunted timber for most part, variable age classes.																																																				
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78	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	69.6	11	Immature	N/A	Part of the 130 Red Pine Project Sale. Stand was planted to mix of red pine/jack pine and white pine in 1939. STAND was then seed treed in 2011. Roughly 10BA of log red pine and oak left.[green ringed]Mix of red maple, beech, oak, pine regenerating in understory. Nice mix, red pine will be small component to future stand.																																				
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80	6118 - Lowland Deciduous with Cedar	Sawtimber Well	30.5	79	81-110	N/A	Mixed side slope complex on the edge of Manistee river. Very steep slopes characterized by mature aspen and hardwood on the bluff with more lowland cedar and lowland hardwood flooded flats on the river edge. Some of the side slopes are more upland although lowland features dominate near river flats. Underground seeps in stand was well that drain into river.																																																													
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81	4199 - Other Mixed Upland Deciduous	Sawtimber Well	49.2	85	81-110	N/A	Mixed upland stand, slight rolling hills. Variable size classes. With oak XL along with pole and logs size. Peninsula on south end is more oak and red pine.																																																
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82	4111 - S.Maple, Hard Mast Association	Sawtimber Well	32.4	118	51-80	N/A	STAND was thinned in 2016. Short wood operation. (Steep portion on west/north end was not thinned) Good quality unique mature log hardwood stand on upland flat. Stand is down the bluff. No other records of management before 2016. West edge of stand is side slope of steep bluff. Included very steep portion of stand along side slope of bluff, too steep for management.																																																																										
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83	6118 - Lowland Deciduous with Cedar	Sawtimber Well	211.1	75	81-110	N/A	Heavy mixed lowland and side slopes complex on the Manistee river. Lowland hardwood and cedar on the flats. With aspen, maple, oak, and white pine on the slopes. NCT goes throughout stand. All of this area, off the bluff edge of the Manistee River and has significant variability based on position on the slope, but mixed enough not to warrant any further splitting of stands.																																																																										
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84	623 - Emergent Wetland	Nonstocked	0.9		Unspecified	No																																																																											
85	4130 - Aspen	Sawtimber Well	1.6	66	81-110	N/A	Long term retention island for "wheeler creek aspen" sale cut in 2015. Was marked with green paint.																																																																										
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86	4130 - Aspen	Sapling Well	64.4	7	Immature	N/A	Stand was final harvested in 2016 with all sugar maple left., northern portion was cut in the winter and southern in the summer. Sugar maple portion is concentrated on ridge. Was a chipping operation. Stand 96 was included in original sale, but a red shouldered hawk nest was discovered during the sale and was then excluded according to policy. NCT borders stand. Vernal pond in southern end of stand was excluded with red line.																																																																										
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87	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	No	Land acquired in 2014. Cabin still on site. In plans to be removed as funding allows.																																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
88	42100 - Planted White Pine	Sawtimber Well	6.1	60	111-140	N/A	Land acquired in 2014. From old imagery can see this was field planted in late 1960s. White pine stand in decent shape. Stand has never been thinned.																																																				
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89	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	37.3	73	51-80	N/A	Land acquired in 2014. Semi unique stand with above and below ground seeps coming from hillside to north. Could be typed as lowland in spots others semi upland. Small what may be man made pond behind cabin in stand. Ash has all fallen out of stand, which has created lots of CWD in spots and well as low stocking. Some very large cedar scattered in stand.																																																				
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90	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	2.3	92	51-80	N/A	Long term retention from surrounding harvest. Represents what stand looked like before cut, was marked with green paint. Mix of hardwood and aspen.																																																				
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91	310 - Herbaceous Openland	Nonstocked	23.4		Unspecified	No	Land acquired in 2014. Opening with scattered trees, honeysuckle moved on edges.																																																				
92	42110 - Planted Red Pine	Sawtimber Well	26.0	60	141-170	N/A	Planted red pine with some planted white pine as well. Norway spruce planted along field in few rows. Land acquired in 2014. From old imagery can see this was field planted in late 1960s. Rows mostly in good shape, change directions in a few spots. Appears no commercial management has taken place in stand.																																																				
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93	4130 - Aspen	Sawtimber Well	0.8	62	51-80	N/A	Retention island left for surrounding cut. Was marked with green paint. Mix of aspen and hardwood. Represents what stand looked like before.																																																				
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94	310 - Herbaceous Openland	Nonstocked	1.5	0	Unspecified	No	Small opening filling in with trees along west edge.																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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95 500 - Water Nonstocked 39.6 0 Unspecified No Manistee River.

96 4139 - Aspen, Mixed Deciduous Poletimber Well 4.5 57 51-80 N/A Stand was initially part of Harvey Aspen 2016 final harvest, but with discovery of red shouldered hawk nest was excluded from sale with buffer. Nest location is in OFS layer. Stand origin from 1965 aspen harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole/Log	9	
Sugar Maple	10	Pole/Log	9	
White Ash	10	Log/Pole	12	
Bigtooth Aspen	55	Log/Pole	11	57

97 4130 - Aspen Sawtimber Well 7.8 67 81-110 N/A Aspen left for retention of stand to south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	10		Red Maple	Medium	Variable	Sapling
White Pine	5	Log/Pole	10					
Bigtooth Aspen	80	Log	12	67				

98 4133 - Aspen, Mixed Pine Sawtimber Well 14.2 70 Unspecified N/A Small chunk of mixed timber that was left from recent large cuts. Borders lowland stand on south side, in small ravine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	7	Log/XLog	16		Red Maple	Medium	Variable	Sapling
Red Maple	5	Log	13		Red Oak	Low	< 5 feet	Sapling
Red Pine	29	XLog/Log	18	83	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	40	Log/XLog	15	70	Beech	Medium	Variable	Sapling
Beech	2	Pole/Log	12					
Black Cherry	7	Log	12					
Red Oak	10	Log/Pole	15					

99 4130 - Aspen Sawtimber Well 2.5 63 51-80 N/A Retention that was left from cut to east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	70	Log/Pole	10	63	Red Maple	Medium	Variable	Sapling
Black Cherry	7	Log/Pole	12		Beech	Medium	Variable	Sapling
Red Maple	5	Log/Pole	11		Red Oak	Low	< 5 feet	Sapling
Northern White Cedar	5	Log/XLog	16					
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White Ash	4	Pole/Log	7					
Sugar Maple	7	Log/XLog	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
100	4130 - Aspen	Sawtimber Well	2.9	65	Unspecified	N/A	Portion of stand 62 that was left. Unable to run private line as a result of corners being on either side of Manistee river. If private to east ever cut consider negotiations with private landowner to have portion of state cut.																																								
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Ironwood	Low	Variable	Sapling																																												
102	500 - Water	Nonstocked	5.6	0	Unspecified	No	Manistee River.																																								
104	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified	No	Open area including county road.																																								