



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63126

Entry Year 2023

Acreage: 3,206

County Wexford

Management Area: Manistee River Valley

Revision Date: 2021-06-09

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N, R9W, Sec 1-4, 9-12

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:

Croswell, Graycalm and Tawas Varies from excessively drained soils to quite fertile loams. Variable soils and topography are found within the compartment.

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

A patchwork of state and private land, with full time residences along with seasonal homes bordering north end of compartment and more remote solid State ownership bordering Manistee River in the south.

Unique Natural Features:

Two high-quality occurrences for pine barrens occur in the compartment: Walton Marsh site in section 4 and Walton site in sections 2 and 3. A high-quality northern wet meadow occurs in compartment in sections 11 (NE 1/4) 2 (SE 1/4). Pine Barrens and dry northern forest to N. Bog to W Red-shouldered hawk reported nesting in NE 1/4 section 9, east of Old US 131 and north of Manistee River. Wood turtle also reported throughout stretch of Manistee River running through compartment. Bald eagle and loon to N, eagle also to S. Great blue heron rookery to W. Hill's thistle* in sections 4 (NW 1/4) and section 2 (NE 1/4). An historical record for ginseng* "near the Manistee River" is mapped in sections 4, 9 and 10. The state's only known occurrence for pussy-toes (*Antennaria parviflora*) occurs to the N in "sandy soil". Potential for dusted skipper and Great Plains spittlebug in grassy openings and young jack pine. Potential for ebony boghaunter and secretive locust in bogs. Potential for wood turtle in Manistee River. Potential for massasauga, Blanding's turtle, and box turtle. Potential for eagle, osprey, and great blue heron rookery. Potential for red-shouldered hawk and goshawk. Potential for Hill's thistle, Alleghany plum, and pussy toes in grassy openings. Potential for ginseng, showy orchis, male fern, and goblin moonwort in mature hardwoods.

Archeological, Historical, and Cultural Features:

Two prehistoric camps and one prehistoric earthwork were noted in past inventories.

Special Management Designations or Considerations:

Walton Marsh Pine Barren ERA exists in the far western edge of the compartment. (Stands 1, 3, and 4) Natural rivers guidelines and best management practices will be taken into account along the Manistee River valley and associated creeks. Fife Lake Creek - Northern Wet Meadow ERA is also located within this compartment.

Watershed and Fisheries Considerations:

Fife Lake Creek, Walton Lake Outlet, and several smaller unnamed tributaries flow through Compartment 126. Fife Lake Creek is a Designated Trout Stream, most likely with naturally reproducing populations of brook and brown trout. Due to Natural Rivers considerations, no cutting should take place within 50' of any stream in this compartment. No cutting should take place within 175' of the Manistee River itself. All BMPs should be followed in wet areas near the streams.

Wildlife Habitat Considerations:

Featured wildlife species include deer, bear, and ruffed grouse. Management objectives are to keep a variety of cover

types and age class diversity as well as maintain and/or enhance habitat including work on openings and edges to preserve wildlife viewing and hunting opportunities.

Mineral Resource and Development Concerns and/or Restrictions

Sections 1-4 and 9-12

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is less than two miles to the east. There appears to be some potential for sand and gravel within the compartment on the uplands. Some historical hydrocarbon production wells are two miles to the east, but there has been minimal exploration in and around the compartment. There are active oil and gas leases just north of the compartment. These are old lease agreements held by producing wells located elsewhere. Potential for oil and gas beneath the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access into section 12 is uncertain. State land within this portion of the compartment has been reached in the past as a result of private landowner's permission. Efforts should be made to secure a permanent easement at the end of Seeley Road in Section 1. 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. As future timber sales take place, state woods roads and two tracks determined to be in excess of our access needs will be blocked as sales are completed in an effort to minimized vehicle and ORV damage.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Hunting, fishing, ORV and canoeing opportunities are abundant. The North Country Trail runs through this compartment along the Manistee River. The snowmobile trail runs along the Northwest edge of the compartment. A MDOT rest area is also located in the compartment along US 131 near the Manistee River Bridge.

Fire Protection:

There is potential for large fire growth within this compartment. Many areas of remote recreational activities could cause more ignition starts of wildfires. Much of this compartment is within the Zone 6 dispatch area, with Manton Field Office being some of the Initial Attack resources to this area. There are also some urban interface areas within the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

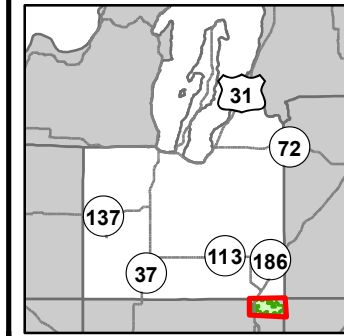
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

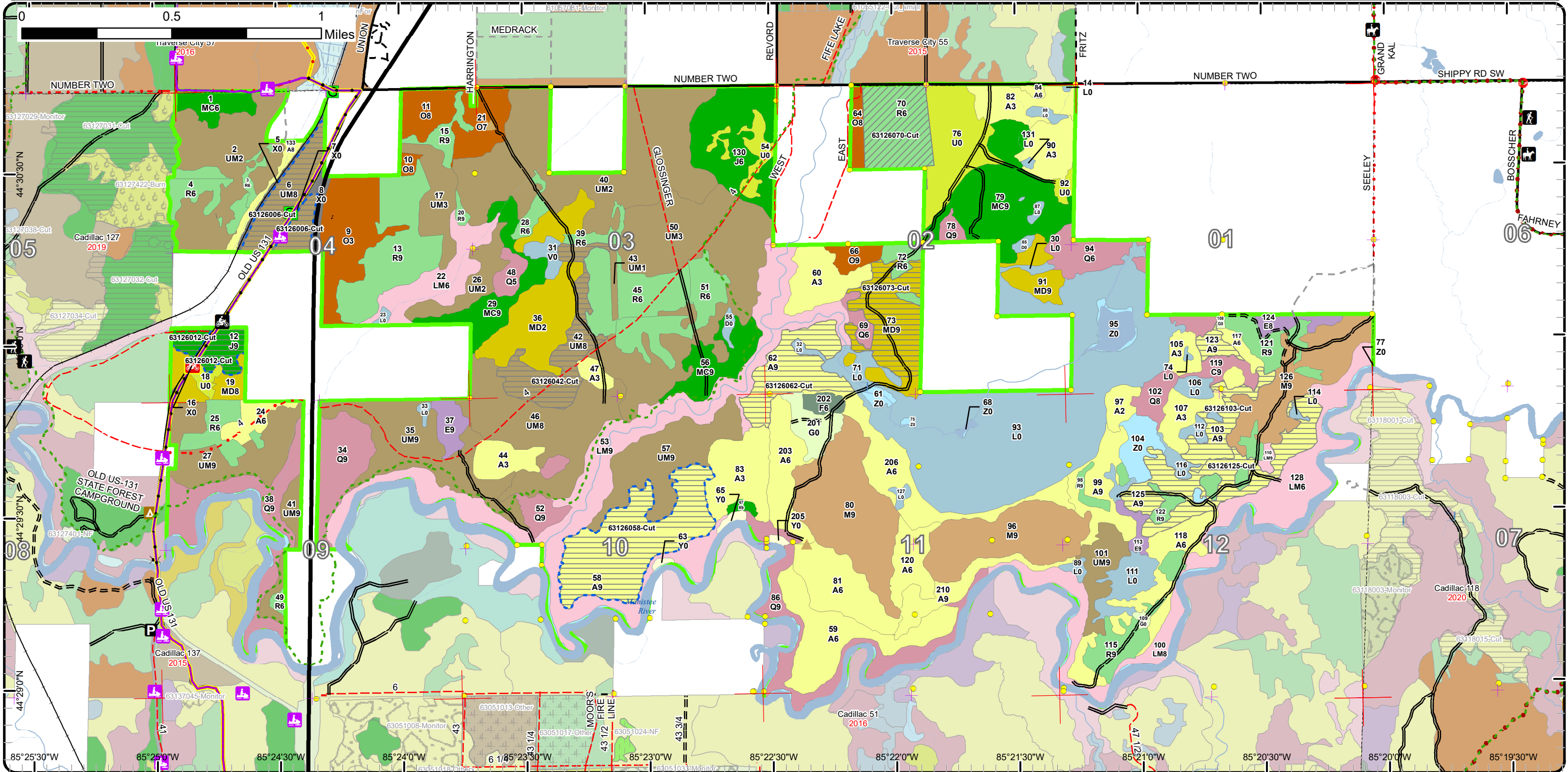
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 126
 T24N R09W Sec. 01-04,09-12
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Manistee River Valley
 YOE: 2023
 Acres: 3206.4 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 6/9/2021
 Map Phase: Web-Post

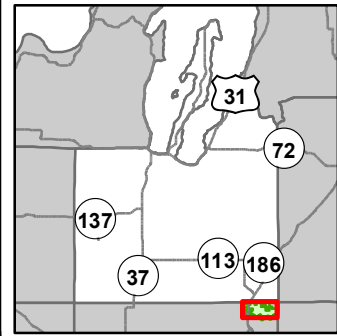


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
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- Gate
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- Culvert
- Campground
- Parking Lot
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil



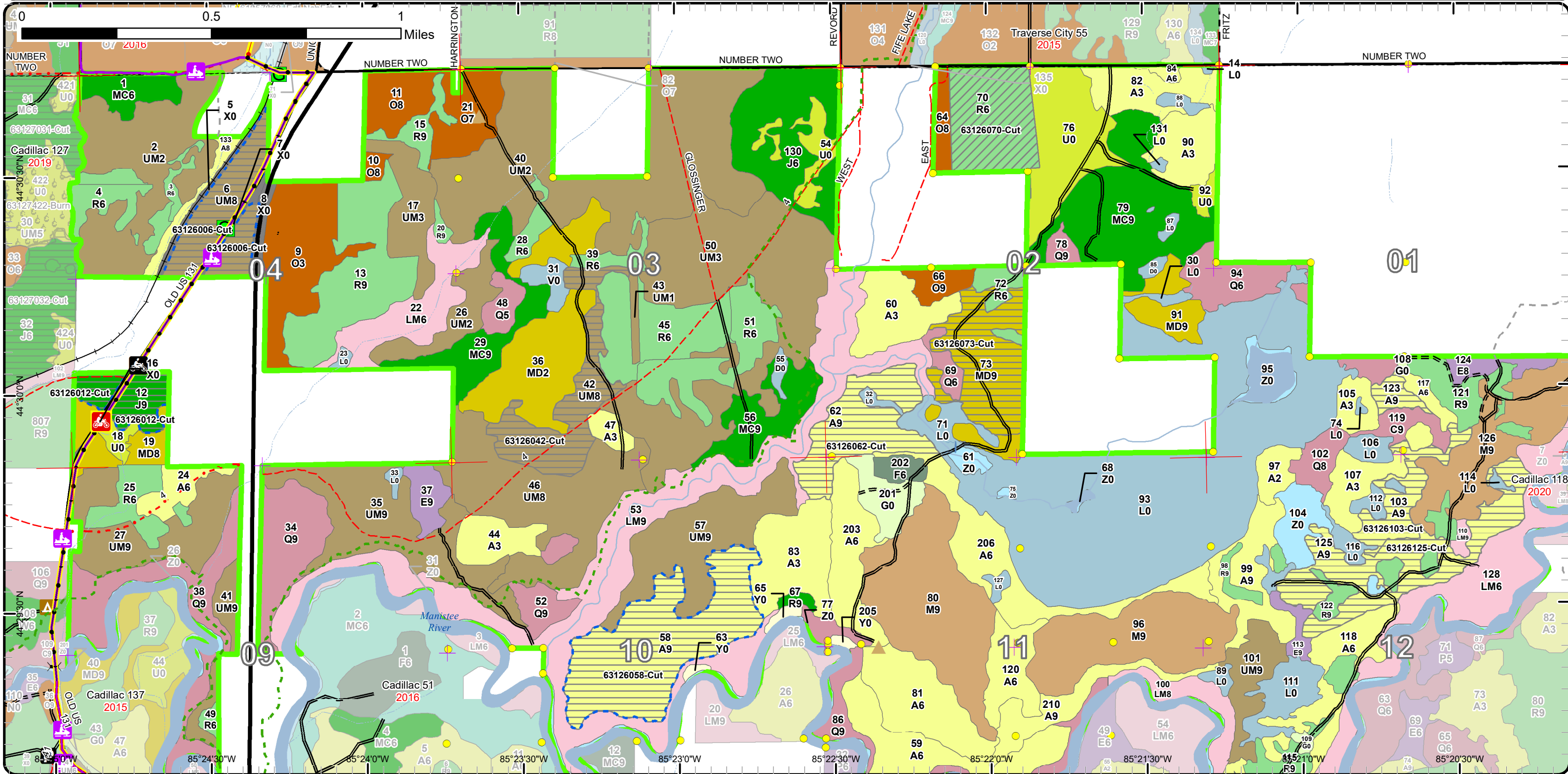
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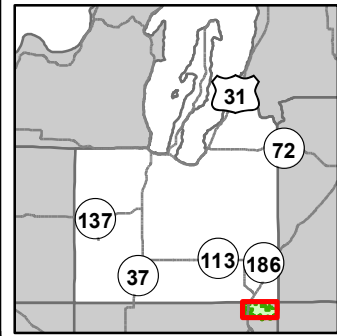
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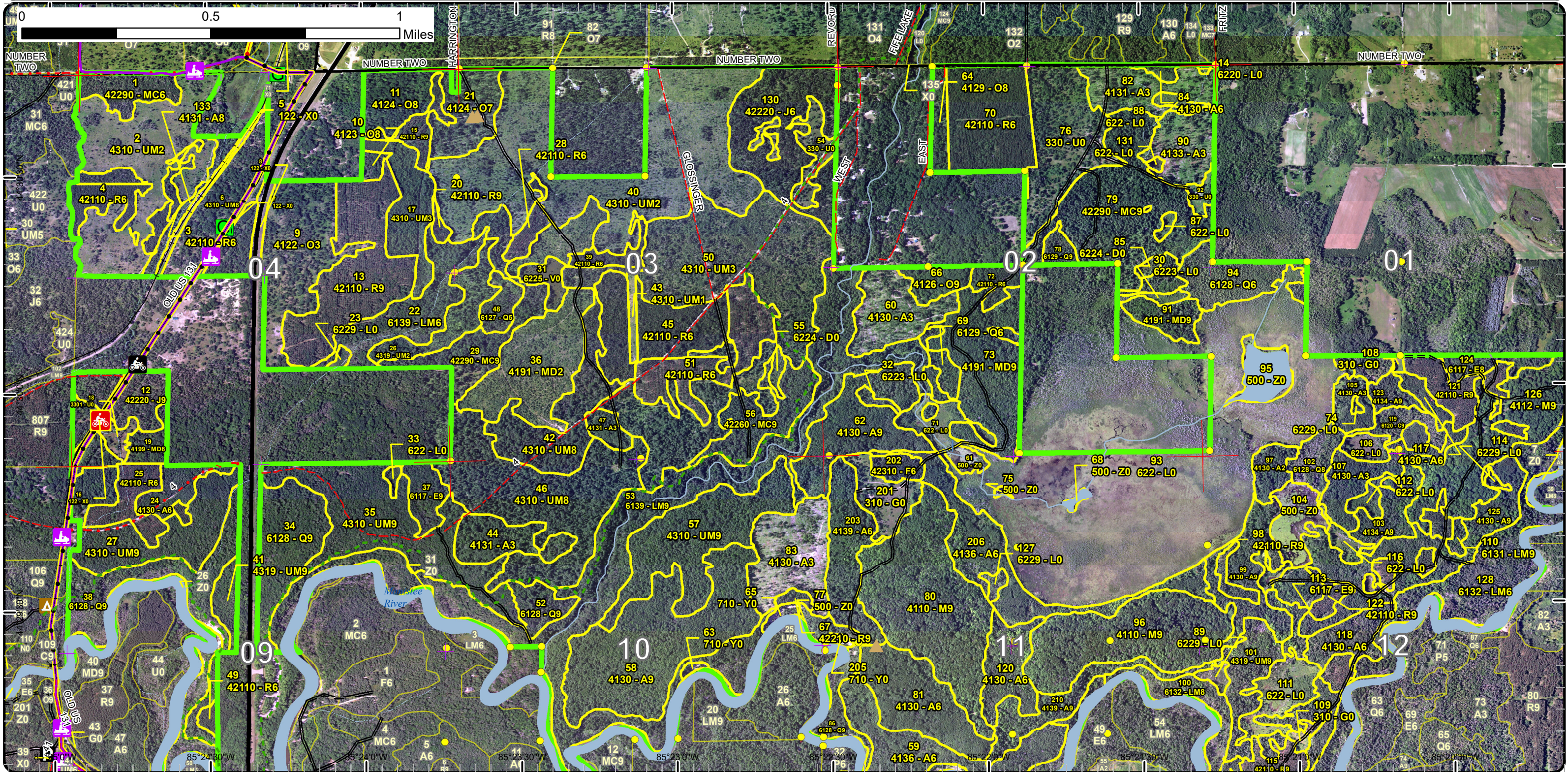
Stand Boundary Map

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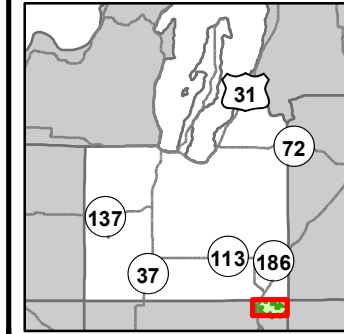
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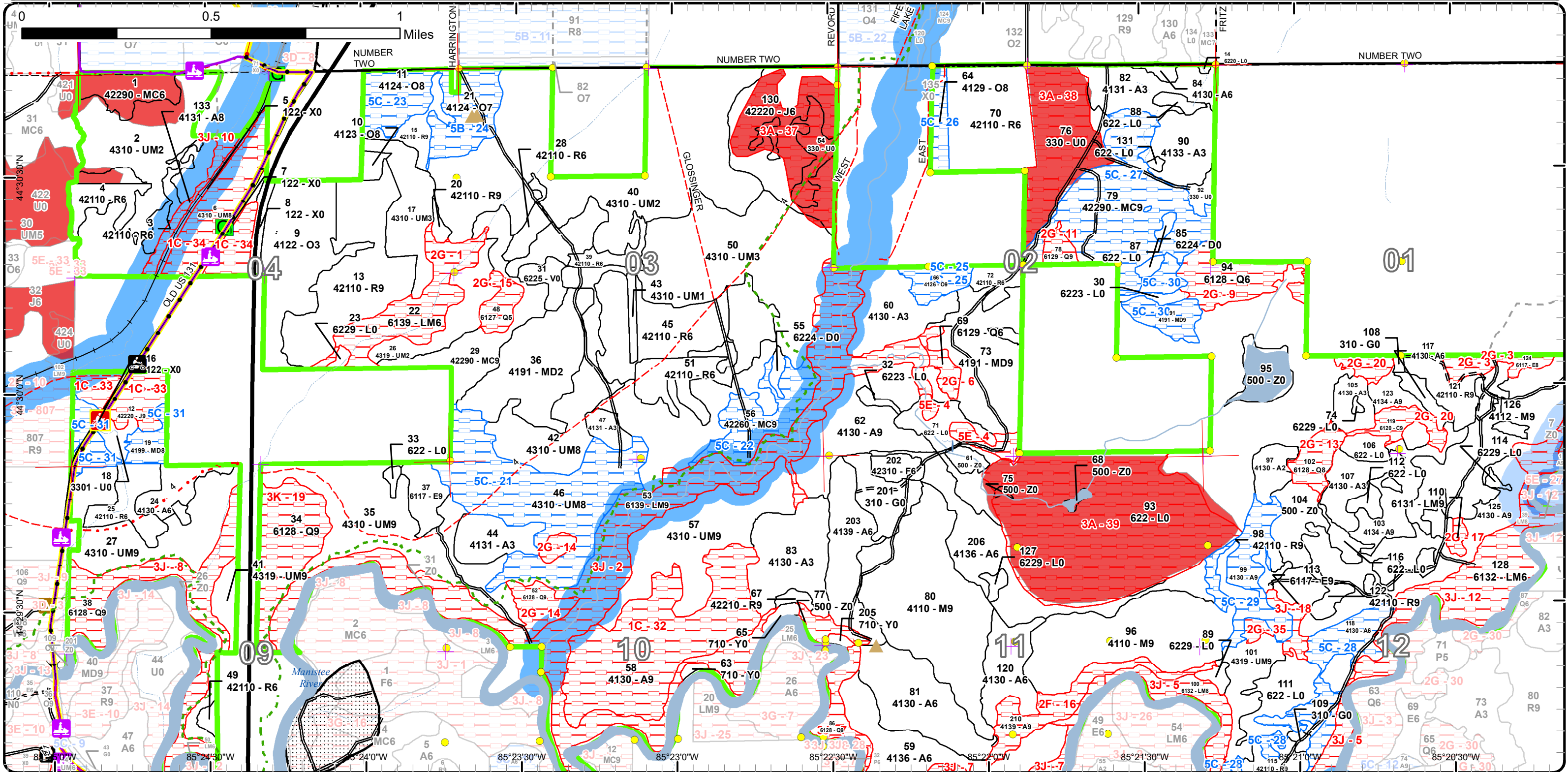


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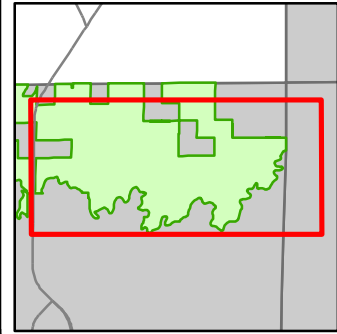


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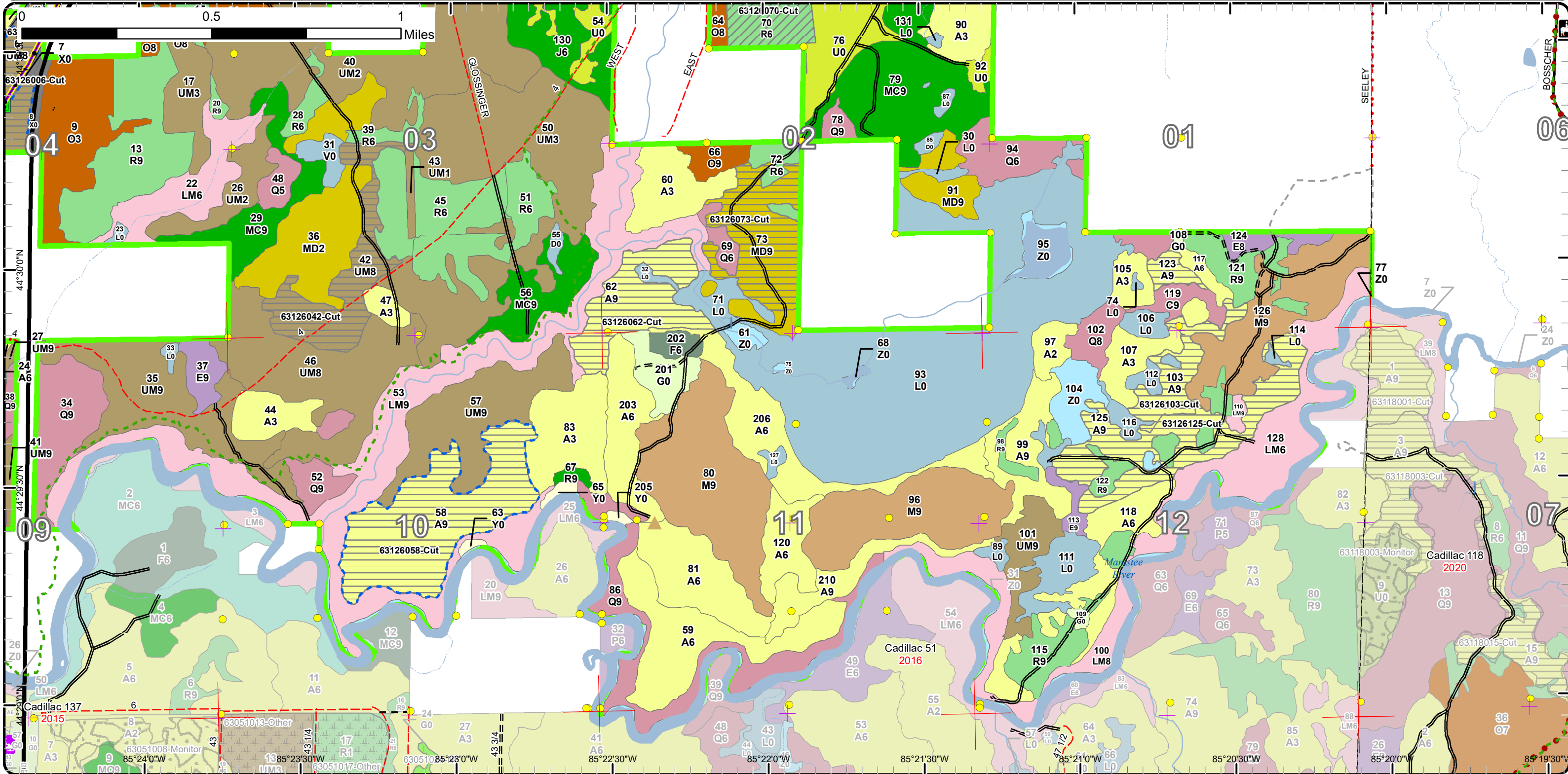


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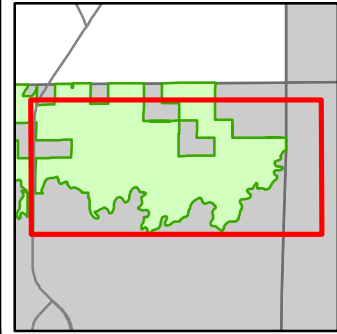


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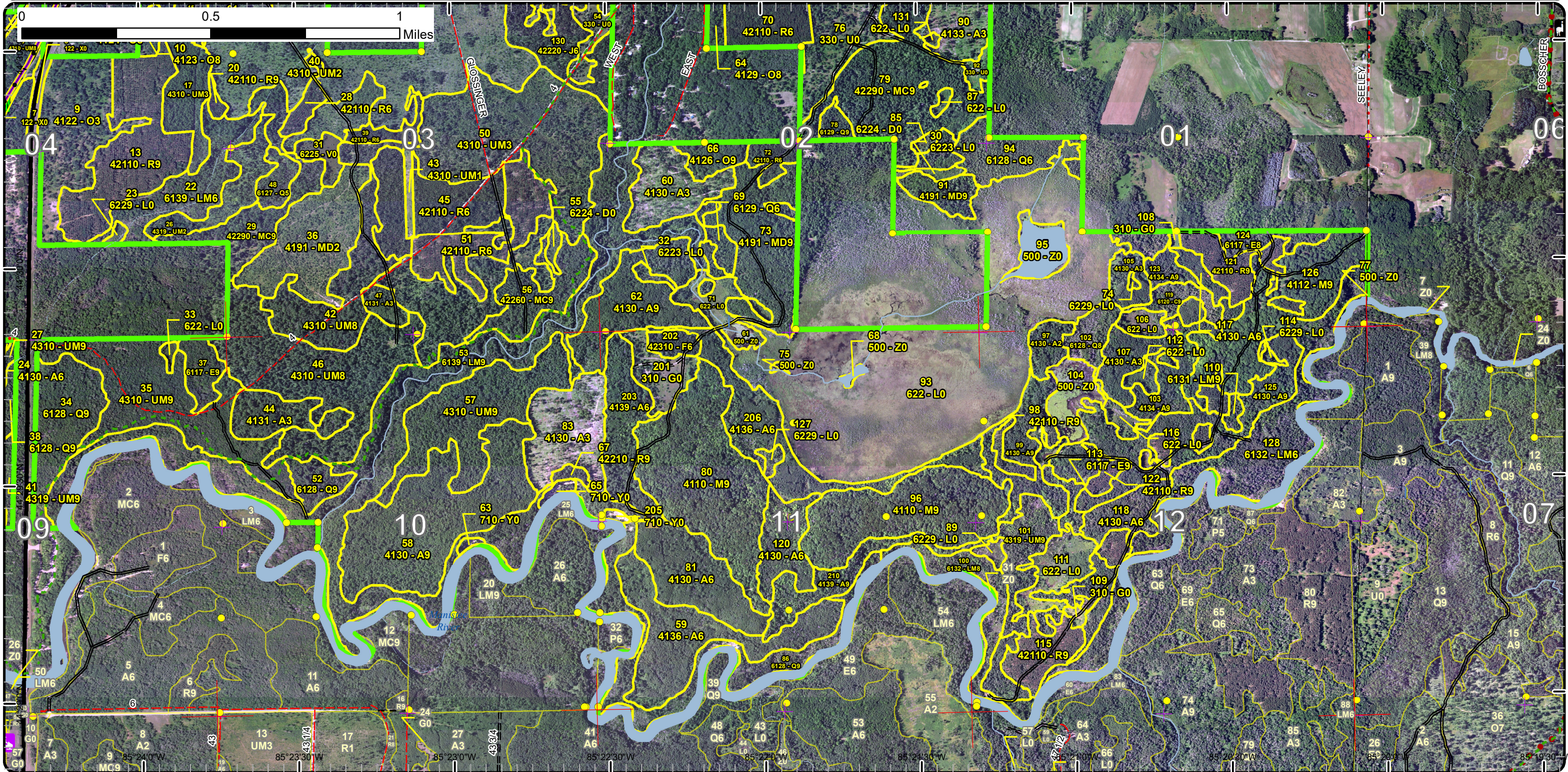


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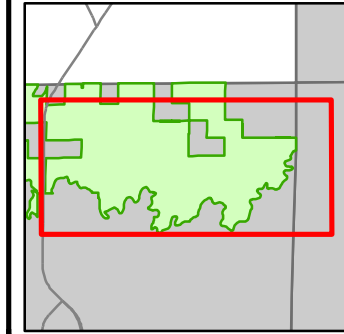


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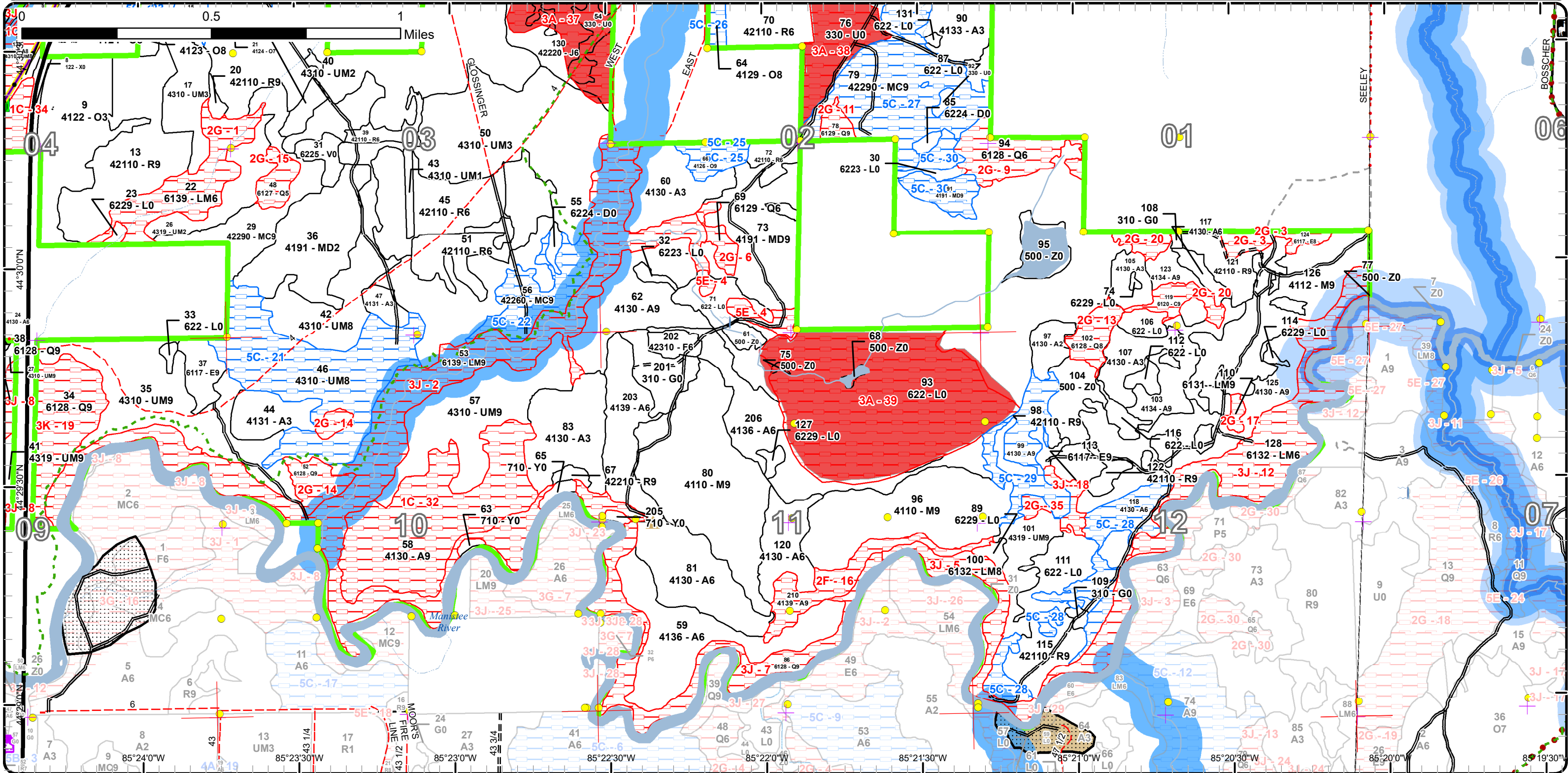
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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 5E: Long-Term Retention

- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground





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	129	0	86	111	11	223	31	19	0	0	0	0	0	0	0	0	0	610
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	13
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	0	0	0	0	0	49	18	0	0	0	0	0	0	0	0	0	0	66
Low-Density Trees	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Lowland Conifers	0	0	0	0	0	7	0	0	0	0	21	10	13	0	32	0	0	95	177
Lowland Deciduous	0	0	0	0	0	0	0	5	10	0	0	0	0	0	0	0	0	8	23
Lowland Mixed Forest	0	0	0	0	0	0	0	52	0	0	30	2	0	0	0	0	0	178	262
Lowland Shrub	293	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	293
Mixed Upland Deciduous	0	0	55	0	0	0	49	0	0	15	15	0	0	0	0	0	0	0	134
Natural Mixed Pines	0	0	0	0	0	0	14	28	0	66	0	0	0	0	0	0	0	24	132
Northern Hardwood	0	0	0	0	0	0	0	0	0	129	0	0	0	0	0	0	0	58	187
Oak	0	0	0	0	0	0	0	0	0	17	17	25	0	0	0	0	0	45	103
Red Pine	0	0	0	0	52	14	2	216	0	0	2	0	0	0	0	0	0	0	286
Sand, Soil	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	212	143	23	0	0	0	19	113	0	115	0	35	12	0	0	0	42	713
Upland Spruce/Fir	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
Total	494	341	198	109	163	38	337	369	142	227	200	50	48	12	32	0	0	450	3205



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 126

Total Compartment Acres: 3,206

Commercial Harvest - 234
 Harvests with Site Condition - 131
 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	190	0	0	0	0	0	0	0	0	190
Jack Pine	18	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	43	0	0	0	0	0	0	0	0	43
Red Pine	0	0	0	0	40	0	0	0	0	40
Upland Mixed Forest	74	0	0	0	0	0	0	0	0	74
Total	324	0	0	0	40	0	0	0	0	364

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	364	0	0	0	0	0	0	0	0	364
Next Step	0	0	0	0	0	324	0	0	0	324
Total	364	0	0	0	0	324	0	0	0	688



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

6	63126006-Cut	35.4	4310 - Pine, Oak Mix	Sawtimber Medium	113	51-80	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
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Prescription Final harvest leave island 3 percent of total acreage. As well leave all red pine 10 inches in diameter and up.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of oak, jack, white, red pine, along with cherry/red maple.

Regen:

Other Red pine left as combination of visual, structure and seed source. No oak left as a result of rough condition/ forest health concerns. MDOT willing to cut trees on other side of fence. Contact Jeremy Wiest from MDOT regarding simple permit needed for cutting in ROW. Add snowmobile protection spec as well.

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2022

12	63126012-Cut	17.6	42220 - Natural Jack Pine	Sawtimber Well	60	51-80	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription Final harvest leave retention island 3 percent of total acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Jack Pine with mix of oak/red maple and white pine.

Regen:

Other Map retention in MIFI. Add snowmobile protection spec.

Comment:

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2022

42	63126042-Cut	38.5	4310 - Pine, Oak Mix	Sawtimber Medium	95	51-80	Harvest	Clearcut with Retention	4310 - Pine, Oak Mix	Even-Aged	No
-----------	---------------------	------	----------------------	------------------	----	-------	---------	-------------------------	----------------------	-----------	----

Prescription Final harvest all trees 4 inches in diameter and up. Except leave all white and red pine. Leave retention island 3 percent of total acreage to meet retention guidelines.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of oak, white pine, jack, red pine.

Regen:

Other Protect advanced regen as much as possible during harvest.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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58	63126058-Cut	77.6	4130 - Aspen	Sawtimber Well	51	111-140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
----	--------------	------	--------------	----------------	----	---------	---------	-------------------------	--------------------------	-----------	----

Prescription Final Harvest leave retention island or islands 3 to 5 percent of total acreage. As well leave all red and white pine over 20 inches in diameter.
Specs:

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

Acceptable Aspen with mixed white and red pine along with some oak, fir and red maple.
Regen:

Other Map retention in MIFI. Buffer River at appropriate distance. Access is over Beaver Dam Road which needs to be monitored as road has
Comment: washed out in the past. Large legacy pine left to add some structure and seed source to maintain some conifer component.

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2022

62	63126062-Cut	38.0	4130 - Aspen	Sawtimber Well	51	111-140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
----	--------------	------	--------------	----------------	----	---------	---------	-------------------------	--------------------------	-----------	----

Prescription Final harvest leave retention 3 to 5 percent of total acreage. As well leave all red and white pine over 25 inches in diameter.
Specs:

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

Acceptable Aspen with mix of red pine, white pine and scattered oak.
Regen:

Other Map retention in MIFI. Buffer Fife Lake Creek at appropriate distance. Access comes across beaver dam road which had washed out at
Comment: times in last decade this should be monitored. Lump in with stand 58 harvest.

Site Condition

Proposed Start Date: 10/1 /2022

70	63126070-Cut	40.1	42110 - Planted Red Pine	Poletimber Well	66	171-200	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	No
----	--------------	------	--------------------------	-----------------	----	---------	---------	--------------	--------------------------	-----------	----

Prescription Perform low thinning. Take out suppressed and poor form to promote growth on best quality stems. Residual BA should be between 90 to
Specs: 110. BA will be lower in pockets of suppressed pine around scattered oaks in plantation.

Next Step
Treatments:

Acceptable Not regeneration harvest.
Regen:

Other This will be second thinning.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

73	63126073-Cut	42.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	55	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Final Harvest. Leave retention where already shown with site condition layer. As well leave all red and white pine over 25 inches in diameter.
Specs:

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

Acceptable Mixed pine, aspen, oak and red maple.
Regen:

Other Retention left by design to protect high water table along important two track used for access. Legacy line left to create structure and seed
Comment: source. As well left for social benefits of leaving some legacy pine on landscape.

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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103 63126103-Cut	18.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	62	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Final harvest leave retention island 3 to 5 percent of total acreage. (Map retention) As well leave any scattered white pine/ hemlock or cedar.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with mix of fir and other species.

Regen:

Other Access needs to come through private at end of Seeley road. This has been gained historically without issue. Include all timber in this area
Comment: in one sale as a result of access issues. As well notorious clay in state two tracks make this area best cut in winter or dry summer.

Site Condition

Proposed Start Date: 10/1 /2022

123 63126123-Cut	5.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	65	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest no retention as a result of small size. Leave any cedar on edges.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with mixed fir.

Regen:

Other Access needs to come through private at end of Seeley road. This has been gained historically without issue. Include all timber in this area
Comment: in one sale as a result of access issues.

Site Condition

Proposed Start Date: 10/1 /2022

125 63126125-Cut	50.3	4130 - Aspen	Sawtimber Well	53	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Final harvest leave retention island 3 to 5 percent of total acreage. (Map retention) As well leave any scattered white pine/ hemlock or cedar.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with minor mix of fir, pine, maple and cherry.

Regen:

Other Access needs to come through private at end of Seeley road. This has been gained historically without issue. Include all timber in this area
Comment: in one sale as a result of access issues. As well notorious clay in state two tracks make this area best cut in winter or dry summer.

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed: 364.2

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 126
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				5B	5C	1C	2F	2G	3A	3J	3K	5E	
609	448	57		104	Aspen		57	78	19	0		7			
6	6	0		0	Bog										
13	0	0		13	Cedar					13					
16	16	0		0	Herbaceous Openland										
66	17	0		49	Jack Pine			18			31				
63	11	0		52	Low-Density Trees						52				
178	0	0		178	Lowland Conifers					60		85	32		
23	10	0		13	Lowland Deciduous					8		5			
261	0	0		261	Lowland Mixed Forest					33		227			
293	293	0		0	Lowland Shrub					0					
135	98	31		6	Mixed Upland Deciduous		31								6
132	42	90		0	Natural Mixed Pines		90								
187	187	0		0	Northern Hardwood										
103	48	55		0	Oak	22	34								
286	286	0		0	Red Pine										
4	4	0		0	Sand, Soil										
4	4	0		0	Treed Bog										
714	601	75		38	Upland Mixed Forest	0	75	35		2	0				
6	6	0		0	Upland Spruce/Fir										
16	16	0		0	Urban										
91	89	0		1	Water					0	1				
3,205	2,183	308		714	Total Forested Acres	22	287	131	19	117	85	324	32		6
	68%	10%		22%	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		2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
Overall too wet, few edges may be able to be cut but not anything significant.								

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	147	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 73, logical spot as harvest in this area may cause issues with high water table and jeopardize two track needed for access.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	43	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Area off bluff of Manistee River.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Within stream buffer. Not suitable for management.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	52	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Between proximity to river and steep banks down area not suitable for management.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treed bog, leatherleaf slowly filling in with trees.							
16	Unavailable	2F: Too steep	19	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3K: Rare or unique landforms	32	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: Unique solid block of hemlock. Hemlock stand of this size and quality very rare, recommend this area be removed from active management and allowed to continue naturally.							

Report 4 – Site Conditions

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20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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 Joe Ventimiglia : Examiner

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 Year of Entry: 2023

26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold for next YOE.							

Report 4 – Site Conditions

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Compartment: 126
Year of Entry: 2023

31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	1C: Other dept or div proc/practices	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See locked comments.							
33	Unavailable	1C: Other dept or div proc/practices	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See Locked comments.							
34	Unavailable	1C: Other dept or div proc/practices	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See locked comments.							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	3A: Conservation Values incompatible with harvest at this time	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walton Pine Barrens							

Report 4 – Site Conditions

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Joe Ventimiglia : Examiner

Compartment: 126
Year of Entry: 2023

38	Unavailable	3A: Conservation Values incompatible with harvest at this time	40	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:
Walton Pine Barrens

39	Unavailable	3A: Conservation Values incompatible with harvest at this time	127	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:
Fife lake Creek - Northern Wet Meadow

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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
1	42290 - Natural Mixed Pine	Poletimber Well	13.8	51	81-110	N/A	Mixed natural jack in north primarily with planted pole red pine plantation planted in 1985 around southern border of stand. Too small and mixed to create separate stands. A few scattered rough oak. Pines barren ERA so stand will not be managed for planted red pine in future. Planted red pine 34 years old too small of area to be considered primary species in stand.																																									
<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>Red Pine</td> <td>40</td> <td>Pole</td> <td>6</td> <td>37</td> </tr> <tr> <td>Jack Pine</td> <td>53</td> <td>Pole/Log</td> <td>8</td> <td>51</td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	40	Pole	6	37	Jack Pine	53	Pole/Log	8	51	Red Oak	5	Log	12		Black Cherry	2	Pole	7		<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>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Jack Pine	Low	< 5 feet	Sapling	Red Oak	Low	5 - 10 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																												
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Red Oak	Low	5 - 10 feet	Sapling																																													
2	4310 - Pine, Oak Mix	Sapling Medium	68.8	7	Immature	N/A	Jack Pine dominated stand with mix of Oak on the eastern edge of stand. More open in the southern section. Limited regeneration. Private to south and northwest.... Stand was final harvested in summer 2014, with the exception of green marked retention islands and any red pine, scattered. Shortwood operation.																																									
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White Pine	2	Pole/Sapling	5																																													
Jack Pine	8	Log	10																																													
3	42110 - Planted Red Pine	Poletimber Well	7.1	37	81-110	N/A	Stand was planted to red pine in 1985. Planted red pine growing relative slowly on rough soils. Oak and jack pine is mixed in stand and has also stunted growth in spots. Just reached pole size. Providing good cover with all the recent final harvests in area.																																									
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Jack Pine	20	Pole	8																																													
Black Cherry	2	Pole	8																																													
4	42110 - Planted Red Pine	Poletimber Well	13.5	49	141-170	N/A	Small block of planted red pine planted in 1972. Poor soils resulted in limited growth for age. Currently providing good cover for wildlife with surrounding larger final harvests.																																									
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5	122 - Road/Parking Lot	Nonstocked	4.8	0	Unspecified	No	Railroad Tracks. In use.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
6	4310 - Pine, Oak Mix	Sawtimber Medium	35.4	113	51-80	N/A	Mixed relatively open stand with scattered large diameter oak and jack pine/red pine filling in between the oaks. (Oak low quality) More open to the southwest portion. Red Pine log sized, jack pine all pole. Private to south and 131 to east. Snowmobile trail traverses stand, railroad borders west edge. Advanced oak regen in understory spotty. Mortality in oak, appears to be age decline and not related to oak wilt.																																																													
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7	122 - Road/Parking Lot	Nonstocked	3.3		Unspecified	No																																																														
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9	4122 - Oak, Pine	Sapling Well	45.3	6	Immature	N/A	Stand was final harvested in 2015, with scattered red pine plantations thinned that were in stand. Scattered oak was left at various sizes and ages. Some scotch was present in stand. Was a chipping operation. Stand age taken from regeneration that came following harvest. Scattered red pine blocks in stand was planted by inmate crew in 1972.																																																													
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10	4123 - Red Oak	Sawtimber Medium	2.8	109	51-80	N/A	Small pocket of large crowned open grown oak and mature jack pine. Stand is open and deteriorating. Oak filling in understory.																																																													
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11	4124 - Red with White Oak	Sawtimber Medium	17.2	91	1-50	N/A	Stand was shelter wood/seed tree cut in 2006. Quality log oak overstory, with mix of white pine left. Aspen, red maple, oak, and cherry in the understory.																																																													
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12	42220 - Natural Jack Pine	Sawtimber Well	17.6	60	51-80	N/A	Solid small stand of jack pine, some mortality but not too bad at this time. Private to north and east. Power Line also runs through stand.																																																				
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13	42110 - Planted Red Pine	Sawtimber Well	53.1	63	111-140	N/A	Red pine plantation 3rd row thinned in 1996. Quality red pine in eastern portion, with rows of scotch pine mixed in to the north. Scotch mostly dead with few still standing. Stand was second thinned in winter of 2015, all jack and scotch scattered in was cut. Good quality stand. From 2021 inventory red pine holding up well, stand has developed a full mixed oak understory from 2015 thinning.																																																				
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14	6220 - Alder/willow	Nonstocked	0.5	0	Unspecified	No																																																					
15	42110 - Planted Red Pine	Sawtimber Well	8.7	63	81-110	N/A	Log/pole sized red pine plantation, some pole sized stems. Stand was third row thinned and all jack pine was cut in 2014. Planation rough in spots and little open around few oaks.																																																				
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16	122 - Road/Parking Lot	Nonstocked	2.9		Unspecified	No	Road and ditch.																																																				
17	4310 - Pine, Oak Mix	Sapling Well	23.0	26	Immature	N/A	Jack Pine stand Final Harvested in 1994, stand was trenched and has regenerated to a mix of jack pine, aspen, and oak. Thick regen 10-20 feet tall. Stand should grow to be a nice pine/oak mix. Jack pine dominate.																																																				
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18	3301 - Low Density Deciduous Trees	Nonstocked	4.4		Unspecified	No	Small opening with scattered cherry, red maple and a few oak.																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
19	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	15.3	93	51-80	N/A	Mix of log oak and scattered red maple stump sprout origin Log/poles. Stand is relatively open and flat. Stand is less open near private to the east. Power lines and road split stand. Few aspen mixed in on western edge.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		35	Log	13	93	Red Maple		Medium	Variable	Sapling
Red Oak		15	Log	15		White Oak		Medium	Variable	Sapling
White Oak		35	Log	16	93	White Pine		Low	< 5 feet	Sapling
Quaking Aspen		11	Pole/Log	8		Witch Hazel		Medium	Variable	Tall Shrub
Jack Pine		2	Log/Pole	10						
Black Cherry		2	Pole	8						
20	42110 - Planted Red Pine	Sawtimber Well	1.9	63	111-140	N/A	Small stand of planted red pine. Stand was third row thinned in 2014, any jack pine was cut at that time as well.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		98	Pole/Log	9	63	White Oak		Medium	< 5 feet	Sapling
Red Maple		2	Pole	9		White Pine		Low	< 5 feet	Sapling
21	4124 - Red with White Oak	Sawtimber Poor	21.7	103	1-50	N/A	Stand was cut in 2014. All jack pine was cut as well as high risk and low quality oak being thinned from stand. 10 to 30 BA of over story left. Mixed oak regen throughout stand from 2014 harvest. Mixed oak in overstory and understory. Good mast stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		45	XLog/Log	19		Red Oak		High	Variable	Sapling
White Oak		50	XLog/Log/Pole	18	103	White Oak		High	Variable	Sapling
Red Pine		5	Pole/Log	9		White Pine		Low	5 - 10 feet	Sapling
						Jack Pine		Low	< 5 feet	Sapling
22	6139 - Mixed Lowland Forest	Poletimber Well	31.0	85	81-110	N/A	Lowland mixed stand with hummocky ground and seasonally wet depressions. Upland mixed white/red pine along edges too small to map on there own. Legacy white pine scattered along edges in stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		35	Pole/Log	9	85	Red Maple		Medium	Variable	Sapling
Balsam Fir		15	Pole	7		Balsam Fir		High	Variable	Sapling
Black Spruce		1	Pole	8		White Pine		Medium	< 5 feet	Sapling
Northern White Cedar		18	Pole/Log	9		Tag Alder		Medium	Variable	Tall Shrub
Tamarack		10	Pole	7						
White Pine		10	XLog/Log	18						
Red Pine		5	Log	12						
Paper Birch		5	Pole/Log	8						
Red Oak		1	Pole	8						
23	6229 - Mixed lowland shrub	Nonstocked	1.4	0	Unspecified	No				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
24	4130 - Aspen	Poletimber Well	10.6	45	1-50	N/A	Variable aspen stand just approving log size overall. Some log size clones but overall still pole size.																																																												
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25	42110 - Planted Red Pine	Poletimber Well	15.4	60	111-140	N/A	Medium variable quality red pine plantation. Rolling topography. Stand was third row thinned in summer of 2015. Stand just approaching log size overall, one mortality pocket found and forest health was notified. Forest health determined mortality was not HRD.																																																												
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26	4319 - Mixed Upland Forest	Sapling Medium	17.8	16	Immature	N/A	Final Harvested in 2004 leaving scattered large white pine along with few cedar/hemlock. Large diameter white pine still standing, with a mix of red maple, aspen, white pine and jack pine filling in. Super canopy pine at roughly 10 BA. Will ne nice mix, some lowland character in spots.																																																												
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27	4310 - Pine, Oak Mix	Sawtimber Well	42.1	83	51-80	N/A	Variable mixed white pine/aspen/oak dominated stand along Manistee river bluff. Pockets of failed red pine plantations scattered in northwest portion of stand. Aspen of variable age with young aspen to north and mature aspen closer to the river. North Country Trail traverses stand near river. Scattered legacy pine in stand.																																																												
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28	42110 - Planted Red Pine	Poletimber Well	6.0	61	111-140	N/A	Small good quality red pine stand for poor soils planted in 1961. Better quality than plantation to the east. Rows easily followed, except in small northern tip where jack is more mixed in. Third row thinned in 2014 with all jack pine cut as well.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 42290 - Natural Mixed Pine Sawtimber Well 27.8 65 81-110 N/A

Mixed upland stand now a long finger created by recent management of adjacent stands. Oldest stand in area with all the recent activity in this section of compartment. Southern tip is more open although rest of stand is well stocked. Scattered legacy white and red stand. From records appears majority of stand was disked to expose soil in 1956.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
White Pine	41	Log/Pole/XLog	11	65	White Pine	Medium	< 5 feet	Sapling
Red Pine	6	Log/XLog	13		Jack Pine	Low	< 5 feet	Sapling
Jack Pine	25	Log/Pole	11		Red Oak	Low	< 5 feet	Sapling
Black Cherry	4	Pole/Log	9		Balsam Fir	Low	< 5 feet	Sapling
White Oak	8	Log/Pole	13					
Quaking Aspen	10	Log/Pole	13					
Red Oak	1	Log/XLog	17					

30 6223 - Inundated Shrub Swamp Nonstocked 2.3 0 Unspecified No No forested lowland primarily, more of scattered Q type on west edge.

31 6225 - Bog Nonstocked 6.2 Unspecified No Leather leaf bog.

32 6223 - Inundated Shrub Swamp Nonstocked 1.9 0 Unspecified No

33 622 - Lowland Shrub Nonstocked 1.4 Unspecified No

34 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 32.3 136 201+ N/A

Variable Hemlock stand with other conifer and lowland hardwood mixed in. Some super canopy pine. Tough call between lowland/upland, portions of stand appear wet while some area appear to drain well during summer months.. Very unique stand for this area with amount of hemlock.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log	15	
Red Oak	5	Log	12	
Yellow Birch	5	Log/Pole	11	
Northern White Cedar	8	Log/Pole	12	
White Pine	10	Log/XLog/Pole	20	
Red Pine	5	Log/XLog	15	
Hemlock	50	Log/XLog/Pole	17	136



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 4310 - Pine, Oak Mix Sawtimber Well 62.5 71 81-110 N/A Heavy mixed stand with white pine/aspens/ oak being major species, variability in pine overstory from legacy pine to pole timber. Few legacy white and red pine scattered. Borders private to north and Manistee river bluff to south. NCT runs through stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	7	Pole/Log	9		Red Maple	Medium	Variable	Sapling
White Oak	10	Log/Pole	13		White Pine	Medium	Variable	Sapling
Quaking Aspen	20	Log/Pole	10		White Oak	Low	< 5 feet	Sapling
White Pine	50	Log/Pole/XLog	12	71	Balsam Fir	Medium	< 5 feet	Sapling
Red Oak	5	XLog/Log	18					
Northern White Cedar	1	Log/Pole	10					
Hemlock	1	Pole	9					
Red Pine	5	Log	13					
Paper Birch	1	Pole/Log	8					

36 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 55.3 16 Immature N/A Stand was final harvested in 2004.. Filled in nicely with mix of oak and jack pine... Oak appears to be low quality with some pin/black oak variety.. Sandy outwash site, open in spots but filling in compared to when stand was inventoried last entry.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Red Oak	30	Sapling	2	
White Oak	20	Sapling	2	
Jack Pine	30	Sapling	3	16

37 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 9.9 75 51-80 N/A Lowland mixed hardwood stand with pockets of white pine, hemlock and cedar mixed in. Small pocket of mature aspen to west. Wet hummocky ground. Appears to have small seasonal flow and standing water at times. Upland on edges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Log/Pole	11	75	Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	8	Pole	9		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	15	Log/XLog	13		Red Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole	6		White Pine	Low	Variable	Sapling
White Pine	15	Log/Pole/XLog	13					
Hemlock	5	Log/Pole	10					
Red Oak	1	Log	13					
Northern White Cedar	5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 43.2 102 111-140 N/A

Scenic steep bluff along Manistee river and large creek drainage. Wet ground near river, with potential to be seasonally flooded. Variable stand with lowland characteristics near river flats(Cedar, Spruce, Balsam, lowland hardwood). Large diameter natural red-white pine and aspen-oak as one goes up the bluff on higher ground. Hemlock and cedar near creek edge. Small pockets of lowland hardwood on river flooded flats, most of which was ash and has died off, leaving open flooded pockets.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Log/Pole	13		Red Maple	Medium	Variable	Sapling
Red Oak	13	XLog/Log	19		Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	10	Log/XLog	16		White Pine	Low	Variable	Sapling
Balsam Fir	12	Log/Pole	10		Black Ash	Low	Variable	Sapling
Northern White Cedar	17	Log/Pole	13	102	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	17	Log/Pole/XLog	16					
Red Pine	10	Log/XLog	15					
Hemlock	12	Pole/Log	9					

39 42110 - Planted Red Pine Poletimber Well 6.3 61 111-140 N/A

Small L shaped pole red pine plantation. Variable and not very uniform with pockets of jack mixed in. Some oak in understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	90	Pole/Log	9	61	White Oak	Medium	< 5 feet	Sapling
Jack Pine	10	Pole/Log	9					

40 4310 - Pine, Oak Mix Sapling Medium 140.3 7 Immature N/A

Large natural Jack Pine stand with significant oak component on dry sandy site. Stand more open in spots particularly to the east. STAND was final harvested in 2014, with all red pine and advanced oak regeneration left. As well scattered Green ringed islands were left throughout as a seed source and for retention purposes. Natural regeneration of oak and jack pine is objective.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Sapling	1	7
Red Oak	45	Sapling	1	
Jack Pine	52	Sapling	1	7

41 4319 - Mixed Upland Forest Sawtimber Well 12.1 120 111-140 N/A

Mixed upland stand with significant concentrated hemlock component. Scattered super canopy pine throughout, with maple/oak/aspens filling in around hemlock. Small drainage to river in middle of stand. Heavy deer activity with limited regeneration overall.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	10		Red Maple	Low	Variable	Sapling
Red Oak	15	Log/Pole	14		Balsam Fir	Low	Variable	Sapling
Paper Birch	15	Pole	8		White Pine	Low	Variable	Sapling
Balsam Fir	4	Pole/Log	8					
White Pine	8	Log	18					
Red Pine	8	Log	16					
Hemlock	30	Log/Pole	12	120				

42 4310 - Pine, Oak Mix Sawtimber Medium 38.5 95 51-80 N/A

Low to Medium stocked mature jack pine, with scattered open grown oak mixed in. More oak in southern portion. White pine and oak regenerating in understory. Semi open in spots, jack pine showing signs of age and has fallen out in spots. Couple legacy pine in stand. A few strips of red pine planation on northwest edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	6	Log/XLog/Pole	12		White Oak	High	Variable	Sapling
White Oak	50	Log/XLog/Pole	14	95	White Pine	Medium	Variable	Sapling
Quaking Aspen	2	Log/Pole	10		Witch Hazel	Low	Variable	Tall Shrub
White Pine	5	Pole	6		Red Maple	Low	Variable	Sapling
Jack Pine	35	Log/Pole	11	66				
Red Pine	2	Pole/Log/Sap	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
43	4310 - Pine, Oak Mix	Sapling Poor	3.2	6	Immature	N/A	Narrow strip of planted scotch pine. Stand was chip final harvested in January 2015. Too small to consider planting. Forested objective of mixed oak and pine which should seed in naturally.																																																									
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44	4131 - Aspen, Oak	Sapling Well	14.5	27	Unspecified	N/A	Stand was harvested in 1993. Scattered log red oak was left in overstory.(20 BA) Very close between pole vs sap regen.																																																									
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45	42110 - Planted Red Pine	Poletimber Well	36.6	37	1-50	N/A	Red Pine planted in 1985... Younger red pine plantation, appears to be growing relatively slow in early years due to Jack Pine volunteer competition.. Stand is over topped in spots by mature jack pine. Reds now look to be getting full sunlight and may now begin to take off. Close to pole sized.Rows will be lost in spots due to heavy to jack pine regen in stops.																																																									
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46	4310 - Pine, Oak Mix	Sawtimber Medium	75.5	95	1-50	N/A	Shelter wood treatment in 2006. Variable quality log oak/ white pine mix make up canopy; filling in with red maple, oak, aspen and white pine. Large stand with higher quality regen in spots. Private and Fife Lake creek bluff borders stand.																																																									
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47	4131 - Aspen, Oak	Sapling Well	5.5	27	Unspecified	N/A	Stand was final harvested in 1993. Aspen came in southern half while north came back to mostly oak. Overall appears to be poor quality oak and aspen regen.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
48	6127 - Lowland Pine	Poletimber Medium	7.4	45	51-80	N/A	Old bog similar to stand 31 at one point looking at old imagery from 1960s. Since then bog has slowly seeded in to white pine and black spruce.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Pole	8		Red Maple		Medium
Black Spruce		30	Pole	5		White Pine		Low
White Pine		45	Pole	7	45			Variable
Red Pine		5	Pole/Log	8			Variable	
Jack Pine		5	Pole	8			Sapling	
49	42110 - Planted Red Pine	Poletimber Well	2.2	50	171-200	N/A	Very small planted red pine, which has never been managed as a result of small size and access issues.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		100	Pole/Log	9	50			
50	4310 - Pine, Oak Mix	Sapling Well	125.0	17	1-50	N/A	Final Harvested in 2004. Bee Nimble Jack Sale # 63-035-03-01. Scattered pockets of mature jack pine were left as retention. Along with all white pine/oak. Good natural jack pine and oak regeneration representing the future of this stand. Southern unit of sale has a higher residual, with more oak and white pine.[more aspen regen] Regeneration seems good for the outwash sandy site, although openings will be present in this stand as it matures. Will be a mixed jack/oak/aspens stand of medium density.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		5	Log	13				
Red Oak		20	Sapling	3				
White Oak		15	Sapling	3				
Quaking Aspen		5	Sapling	3				
Jack Pine		5	Log	10				
Jack Pine		35	Sapling	3	17			
Pin Cherry		10	Sapling	2				
White Pine		5	Pole/Sap/Log	6				
51	42110 - Planted Red Pine	Poletimber Well	29.4	60	111-140	N/A	Medium quality pole sized red pine plantation. Stand was third row thinned in the summer of 2015. Still responding to row thin, will be ready for thinning next YOY. Limited to no understory with exception of edges.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		100	Pole	8	60			
52	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	12.5	115	141-170	N/A	Lowland mixed stand bordering Manistee and Fife Lake Creek Bluffs. Nice pockets of hemlock and legacy pine, wet hummocky ground. Lowland aspen concentrated to west edge. Broken up in two pockets, southern pockets has larger diameter overall.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Log/Pole	11		Red Maple		Low
Quaking Aspen		10	Log/XLog	13		Balsam Fir		Low
Balsam Fir		10	Pole/Sap/Log	7		White Pine		Low
Northern White Cedar		20	Log/Pole	10				Variable
White Pine		15	XLog/Log	21				Variable
Hemlock		30	Log/Pole	12	115			Sapling
Paper Birch		4	Pole/Log	9				Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
53	6139 - Mixed Lowland Forest	Sawtimber Well	146.5	108	111-140	N/A	Vast bluff feature sloping down to the Manistee River and Fife Lake Creek.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	8		Red Maple	Low	Variable	Sapling
Red Oak		8	Log/XLog/Pole	18		Red Oak	Low	Variable	Sapling
White Oak		8	Log/XLog/Pole	18		White Oak	Low	Variable	Sapling
Bigtooth Aspen		20	Log/XLog	15		Balsam Fir	Low	Variable	Sapling
Balsam Fir		5	Pole	7		White Pine	Low	Variable	Sapling
Northern White Cedar		10	Pole	6		Hemlock	Low	Variable	Sapling
White Pine		20	Log/XLog	18	108	Tag Alder	Low	Variable	Tall Shrub
Red Pine		15	Log/XLog	16					
Hemlock		9	Pole/Sapling	7					
54	330 - Low-Density Trees	Nonstocked	11.7	0	Unspecified	No	Open savanna, low density Jack Pine and Cherry slowly filling in. Part of Pine Barrens in MNFI.		
55	6224 - Treed Bog	Nonstocked	2.1		Unspecified	No			
56	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	23.9	72	111-140	N/A	Well stocked mixed log /pole conifer. Mostly white and jack, scattered log sized oak and red pine. Dense stand. Borders Fife Lake Creek Bluff and has NCT trail running along southern end of stand. Overall log size as this point although has pockets of mostly pole size white pine still.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		3	Log/XLog	17		White Pine	Medium	Variable	Sapling
Quaking Aspen		15	Log/Pole/XLog	12		Balsam Fir	Low	< 5 feet	Sapling
White Pine		50	Log/Pole/XLog	11	72	Red Maple	Medium	Variable	Sapling
Red Pine		5	Log/XLog	14		White Oak	Medium	< 5 feet	Sapling
Jack Pine		13	Log/Pole	11					
Red Maple		5	Log/Pole	10					
White Oak		7	Log	15					
Black Cherry		2	Pole/Log	9					
57	4310 - Pine, Oak Mix	Sawtimber Well	50.9	75	111-140	N/A	Mixed white pine, aspen, oak, red maple and red pine. White pine dominate species with variable diameter from poles to legacy white pine. Topography steeps down in north end, but still upland. Appears from record aspen may have been cut from stand in 1970 leaving pine and oak at that time.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Log/Pole	11		White Pine	High	Variable	Sapling
Red Oak		13	Log/XLog	17		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen		18	Log/Pole/XLog	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Balsam Fir		1	Pole	8		Black Cherry	Low	< 5 feet	Sapling
White Pine		48	Log/Pole/XLog	13	75				
Red Pine		9	Log	15					
White Oak		5	Log/XLog	15					
Paper Birch		1	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
58	4130 - Aspen	Sawtimber Well	77.6	51	111-140	N/A	Large block of aspen/mixed pine which was Consumers land prior to mid 1990s. Some variability in diameters in aspen, but overall mature log size stand. Some pockets of overmatured aspen. Scattered log red pine concentrated in groves but also scattered. Stand is all upland but does step down to rivers edge. Records from Consumers indicate stand was harvested last in 1970. (appears they left pine and oak at that time)																																																														
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59	4136 - Aspen, Mixed Conifer	Poletimber Well	47.8	32	Immature	N/A	Stand was final harvested by Consumers sometime between 1987 and 1990. At that time cedar and some balsam fir was left. Pocket of white pine left in area that was too steep as well. Stand is off bluff of river, is mostly upland but does have pockets of lowland with some seeps. Fir that was left concentrated in east end of stand. Stand was cut at same time as stand 81 but split out for balsam component and for being off the bluff with more lowland character.																																																														
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60	4130 - Aspen	Sapling Well	24.6	5	Immature	N/A	Stand was final harvested in 2016. All oak, red and white pine was left. Short wood operation. Scattered pine and oak variable in overstory not enough to consider canopy species.																																																														
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61	500 - Water	Nonstocked	3.5		Unspecified	No	Water level and size fluctuates seasonally and based on beaver activity.																																																														



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62	4130 - Aspen	Sawtimber Well	38.0	51	111-140	N/A	Solid block of quality aspen with mixed pine and oak scattered in stand. From records appears stand was cut last by consumers in 1970.																																																									
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63	710 - Sand, Soil	Nonstocked	1.0		Unspecified	No	Old sand bank of river filling in with trees slowly.																																																									
64	4129 - Mixed Oak	Sawtimber Medium	7.9	85	51-80	N/A	Dry low to medium quality oak site with open pockets throughout. Relative low volume and basal area. Borders Private and East Dr. Stand slowly regenerating in spots to mixed oak/red maple and pine.																																																									
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65	710 - Sand, Soil	Nonstocked	2.1		Unspecified	No	Stand bluff of river filling in slowly with trees.																																																									
66	4126 - White, Black, N. Pin Oak	Sawtimber Well	8.5	89	51-80	N/A	Large Crown Log/pole oak stand, which was underplanted with red pine in rows in 1984 by Consumers. Oaks have completely stunted red pine with exception of far northwest corner where red pine were free to grow.																																																									
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67	42210 - Natural Red Pine	Sawtimber Well	2.1	95	171-200	N/A	Small grove of natural red pine with scattered super canopy white pine.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68 500 - Water Nonstocked 1.0 Unspecified No

69 6129 - Mixed Coniferous Lowland Forest Poletimber Well 5.5 95 51-80 N/A Small lowland conifer stand. Scattered white pine, tag alder more open on west edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	8		Balsam Fir	High	Variable	Sapling
Paper Birch	10	Pole/Sapling	7		Red Maple	Low	Variable	Sapling
Quaking Aspen	1	Log	12		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	30	Pole/Sapling	7					
Black Spruce	5	Pole/Sapling	6					
White Pine	9	XLog/Log	18					
Northern White Cedar	40	Pole/Log	9	95				

70 42110 - Planted Red Pine Poletimber Well 40.1 66 171-200 N/A Red Pine plantation planted in 1956 according to records from Consumers.. 3rd row thinned in 2005, dry site with a small strip of scotch pine along the southern private boundary. Stand appears stunted for age, likely as a result of poor soils. Off site for quality red pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	6		Red Oak	Low	< 5 feet	Sapling
Red Oak	2	Log	15		Black Cherry	Low	5 - 10 feet	Sapling
White Oak	2	Pole	6		White Oak	Low	< 5 feet	Sapling
Red Pine	92	Pole	8	66				
Scotch Pine	2	Pole	7					

71 622 - Lowland Shrub Nonstocked 10.4 Unspecified No Lowland shrub area behind beaver dam road, some trees along edges along with one small upland island too small to map.

72 42110 - Planted Red Pine Poletimber Well 8.3 38 111-140 N/A Small rough failed in spots red pine plantation planted in 1984 from records by consumers. Stand has not been thinned to date. Rows defined in spots not in others. Portions of plantation scattered into stand 73, not solid enough to be mapped.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	7		Red Oak	Low	Variable	Sapling
Red Oak	2	Log/Pole	11		Black Cherry	Low	Variable	Sapling
White Pine	10	Pole/Log	9					
Red Pine	86	Pole	8	38				

73 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 48.8 55 111-140 N/A Variable mix of mature pine, aspen and oak. There is a pocket in the north of legacy pine as well as larger diameter pine scattered within the stand. Scattered open grown Oak mixed in over White pine. Scattered portions of failed plantation red pine mixed in along edge of stand 72.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log	13		Balsam Fir	Medium	Variable	Sapling
Red Oak	15	Log/XLog	15		White Pine	High	Variable	Sapling
Quaking Aspen	30	Log/Pole	11	55	Red Maple	Low	Variable	Sapling
Balsam Fir	5	Log/Pole	10					
White Pine	30	Log/Pole/XLog	13					
Red Pine	5	Log/Pole/XLog	17					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
74	6229 - Mixed lowland shrub	Nonstocked	0.6	0	Unspecified	No	Vernal Pond
75	500 - Water	Nonstocked	0.5		Unspecified	No	
76	330 - Low-Density Trees	Nonstocked	43.0		Unspecified	No	Part of Pine Barrens MNFI. Slowly filling in still calling low density trees although north end is approaching forested stand. Low quality cherry, white oak, jack pine, red oak, red maple and scattered white pine. Soils poor and degraded in this stand. (Burned too hot)?
77	500 - Water	Nonstocked	59.3		Unspecified	No	River
78	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	4.3	113	51-80	N/A	Lowland conifer with cedar mixed in. Wet dense stand with hummocky ground. Small stand with majority of rest of swamp on private.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole/Log	9	
Balsam Fir	28	Pole	7	
Black Spruce	10	Pole	6	
Northern White Cedar	35	Log/Pole	11	113
Hemlock	5	Pole	8	
Tamarack	5	Log/Pole	11	
White Pine	2	Log/XLog	16	
Red Maple	5	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Black Spruce	Low	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	Low	< 5 feet	Sapling
Tamarack	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
79	42290 - Natural Mixed Pine	Sawtimber Well	66.3	89	111-140	N/A	Nice Natural Pine Stand with a few legacy pine scattered in the stand. Majority of stand was thinned in 1986. Prior to that stand was pruned by inmate crew from camp Pugsley in 1967 to control blister rust. Was a marked pine thinning again in 2005, with all aspen, jack pine and maple cut. Pine overstory stands at an average of 70 to 140 basal area. Strong Aspen and Red Maple regeneration in pockets others limited. Stand borders private in the south and east in spots. Along stand 94 limited pine overstory left just regeneration form 2005 harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	4	Log/XLog	16	
White Pine	50	Log/XLog	14	89
Red Pine	40	Log/XLog	17	
Red Maple	1	Log/Pole	12	
White Oak	5	Log/Pole/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	10 - 20 feet	Sapling
Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
White Pine	Medium	Variable	Sapling
Black Cherry	Low	Variable	Sapling
White Oak	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
80	4110 - Sugar Maple Association	Sawtimber Well	76.2	89	81-110	N/A	Log large crown hardwood stand. Some beech regen but overall limited regeneration. Fair to good quality hardwood for area, majority of stand was private and was acquired by State in 2011. Stand was thinned in 2017, most of the ash and beech was salvaged. Good quality crop tree sugar maple was left behind. Short wood operation.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75	Log/Pole	12	89
Basswood	15	Log	15	
Beech	5	Log	16	
Red Oak	5	Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling
Serviceberry (Juneberry)	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
81	4130 - Aspen	Poletimber Well	34.9	31	Immature	N/A	Stand was final harvested by Consumers sometime between 1987 and 1990. At that time all oak was left along with some white pine. Came back well to aspen, all on top of bluff and upland.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		2	Log	15		Red Maple		
Basswood		1	Log	15		White Pine		
Red Oak		10	XLog/Log	20		Red Oak		
Bigtooth Aspen		83	Pole	7	31			
White Pine		2	Log/Pole	12				
Red Pine		2	Log	15				
82	4131 - Aspen, Oak	Sapling Well	21.9	5	Immature	N/A	STAND was final harvested in winter 2016, all oak and red/white pine was left. Left two aged stand with scattered oak/pine if variable size class in overstory and aspen regenerating throughout stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		10	Log/Pole/XLog	14				
White Oak		10	Log/Pole	12	68			
Quaking Aspen		68	Sapling	1	5			
White Pine		5	Log/Pole	12				
Red Pine		2	Pole	5				
Jack Pine		5	Sapling	1				
83	4130 - Aspen	Sapling Well	32.8	5	Immature	N/A	Stand was final harvested in 2016, short wood operation. All cedar, hemlock, oak and red pine was left.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		63	Sapling	1	5			
Red Pine		7	Log	12				
Red Oak		8	Log/Pole	12				
Northern White Cedar		4	Pole	8				
Hemlock		3	Pole/Log	8				
Red Maple		10	Sapling	1				
White Pine		5	Sapling	1				
84	4130 - Aspen	Poletimber Well	2.3	35	Unspecified	N/A	Small aspen stand with some oak, mixed pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		88	Pole	7	35	Red Pine		
White Pine		5	Pole	8		Witch Hazel		
Red Oak		2	Log	15		Red Maple		
Red Pine		2	Pole/Sapling	5		Balsam Fir		
White Oak		3	Pole	8				
85	6224 - Treed Bog	Nonstocked	1.7		Unspecified	No		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
86	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	42.0	105	81-110	N/A	Lowland complex of cedar/fir and lowland hardwoods near river edge. Steep bluffs down to river in the western portion of the stand, with the majority of the stand being a flat floodplain along the river. Varies from pockets of dead ash to, small pockets of cedar to sand bluffs along river edge.																																																																		
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90	4133 - Aspen, Mixed Pine	Sapling Well	18.9	5	1-50	N/A	Mixed White Pine/Jack Pine/Aspen stand, with limited white pine and oak regeneration. Variable density with hummocky uneven ground. STAND was final harvested in winter 2016, with 10 to20 BA left as seed source and retention .																																																																		
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White Pine	15	Sapling	1																																																																						
91	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.3	85	81-110	N/A	Island of upland surrounded by lower ground. Red maple/fir stand with heavy fir understory in most of southern end of stand. Wet on edges otherwise upland stand. Variable quality and size of fir/maple overstory.																																																																		
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92	330 - Low-Density Trees	Nonstocked	3.6		Unspecified	No	Open, filling in with aspen around the edges.																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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93	622 - Lowland Shrub	Nonstocked	231.3		Unspecified	No	Large lowland shrub complex, with various beaver dams. Limited trees with exception of some flooded out tamarack. Majority of stand is covered in Northern Wet Meadow SCA.
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94	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	21.2	95	51-80	N/A	Dense lowland conifer stand, bordered by private to the north. Stagnate thick stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	6		Balsam Fir	High	Variable	Sapling
Balsam Fir	28	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	10	Pole	6					
Northern White Cedar	30	Pole	8	95				
Black Ash	10	Pole	6					
White Pine	1	Log	11					
Tamarack	10	Pole	7					
Red Maple	1	Pole	7					

95	500 - Water	Nonstocked	11.8		Unspecified	No	
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96	4110 - Sugar Maple Association	Sawtimber Well	58.3	95	81-110	N/A	Good quality ridge of northern hardwood. Most of stand was privately owned and purchased State by in 2012. Stand was marked thinned in 2017, ash and beech were heavily targeted due to forest health concerns. Short wood operation. Access came from west. Nice quality overstory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log	15	95	Beech	Medium	< 5 feet	Sapling
Basswood	20	Log	14		Ironwood	Medium	< 5 feet	Sapling
Beech	5	Log/XLog	16					
Bigtooth Aspen	1	Log/XLog	15					
Red Maple	4	Log	13					

97	4130 - Aspen	Sapling Medium	8.0	5	Immature	N/A	Stand was final harvested in summer 2016, cedar and oak was left. Access from private landowner was used to get to stand. Mature aspen stand with some balsam mixed in. High ground surrounded by wet. Stand access came through stand 100 crossing wet crossing by pilling wood for a temporary crossing. Crossing was used by forwarder only. (No log trucks)
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Sapling	1	5
Balsam Fir	5	Sapling	1	
Northern White Cedar	5	Pole/Log	8	
Red Oak	5	Pole/Log	8	

98	42110 - Planted Red Pine	Sawtimber Well	5.1	68	81-110	N/A	Planted in 1956. First thinned in 1988. Small isolated pine plantation which was second thinned in 2004.(Green Ringed) Quality logs remain with limited regen in the understory. Good crown spacing. Access is fairly difficult, road work/temp bridge involved last entry. Was added on to timber sale and thinned more aggressively as access was very difficult.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	14	68	Beech	Low	< 5 feet	Sapling
					Ironwood	Low	< 5 feet	Sapling
					Red Pine	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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99 4130 - Aspen Sawtimber Well 23.4 51 51-80 N/A Isolated block of variable aspen, semi open with few oaks in north more wet to south with scattered sugar maple in stand. Remote stand for this region. From records stand was final harvested by consumers sometime between 1967 to 1972. Beaver activity all around this area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	8	Log	14		Musclewood/Hornbeam	Medium	Variable	Sapling
Quaking Aspen	78	Log	11	51	Serviceberry (Juneberry)	Medium	Variable	Sapling
Balsam Fir	5	Pole/Log	8		Balsam Fir	Low	< 5 feet	Sapling
Hemlock	1	Pole	6					
Red Oak	5	Pole/Log	9					
White Pine	2	Log/Pole	10					
Red Pine	1	Log	15					

100 6132 - Mixed Lowland Forest with Cedar Sawtimber Medium 29.7 95 111-140 N/A Low flat along Manistee River. Varies from pockets of cedar to flooded lowland hardwood/ dead ash flooded flats along rivers edge. Standing water at times throughout wet times in season.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	10	Log/Pole	11		Prickly Ash	High	5 - 10 feet	Tall Shrub
Balsam Fir	25	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	25	Log/Pole	11	95	White Ash	Low	Variable	Sapling
White Pine	2	Log/Pole/XLog	10					
Red Maple	8	Log/Pole	11					
Honeylocust	5	Pole/Log	8					
Basswood	10	Log	13					

101 4319 - Mixed Upland Forest Sawtimber Well 19.1 65 81-110 N/A Mixed aspen/fir stand overall calling upland, although area has lowland character all around and in stand with seeps and beaver activity all around. Small cedar pocket in north end of stand. Very difficult access

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	40	Log	12	65	Musclewood/Hornbeam	Medium	10 - 20 feet	Sapling
Balsam Fir	30	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Northern White Cedar	8	Log/Pole	12		Serviceberry (Juneberry)	Low	< 5 feet	Sapling
White Pine	4	Log	14					
Red Maple	2	Log	14					
Sugar Maple	6	Log	14					

102 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 10.0 103 1-50 N/A Very wet lowland with cedar/dead ash complex. Standing water in spring. Windthrow and hummocky ground. Beaver activity. West edge almost completely flooded with cedar along east line.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	30	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	45	Log/Pole	12	103				
Red Maple	5	Log/Pole	13					
White Pine	5	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
103	4134 - Aspen, Spruce/Fir	Sawtimber Well	18.5	62	81-110	N/A	Mixed aspen/fir stand. Mostly upland but low pocket in south end with some cedar. Transition stand with some hardwood mixed in on east edge.																																																		
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104	500 - Water	Nonstocked	14.6		Unspecified	No	Standing water at times. Beaver pond.																																																		
105	4130 - Aspen	Sapling Well	8.3	5	Immature	N/A	Mature Aspen stand which is relatively open. Some balsam mixed in. Stand was final harvested in summer 2016. Access from private landowner was used to get to stand. Vernal pond in middle of stand was worked around. Oak was left.																																																		
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106	622 - Lowland Shrub	Nonstocked	5.1		Unspecified	No																																																			
107	4130 - Aspen	Sapling Well	13.8	5	Immature	N/A	Stand was final harvested in summer 2016. Access from private landowner was used to get to stand. Scattered oak was left.																																																		
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108	310 - Herbaceous Openland	Nonstocked	0.8		Unspecified	No	Trespass, camp site with small trailer. Recent survey performed noting boundary.																																																		
109	310 - Herbaceous Openland	Nonstocked	1.5	0	Unspecified	No	Opening created by die back in red pine. Few pine seeding in.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
110	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	2.3	101	51-80	N/A	Small lowland stand with hemlock component, standing water at times.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	13	Log/Pole	11		Balsam Fir	Medium	Variable	Sapling
Paper Birch	12	Log/Pole	10		Red Maple	Medium	Variable	Sapling
Balsam Fir	15	Log/Pole	12		Ironwood	Low	Variable	Sapling
Hemlock	40	Log/Pole	11	101				
Yellow Birch	10	Log/Pole	10					
Red Maple	10	Log/Pole	11					

111	622 - Lowland Shrub	Nonstocked	16.1		Unspecified	No	Semi upland along edges.
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112	622 - Lowland Shrub	Nonstocked	4.0		Unspecified	No	
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113	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	4.8	65	81-110	N/A	Small ravine with small creek that flows from beaver pond to north. Beaver activity throughout area along with other small dams. Lowland along creek and upland on side slopes. Stand drawn out to show ravine/creek as well as a result of hemlock component.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Log/Pole	13		Balsam Fir	Low	Variable	Sapling
Red Maple	5	Pole/Log/Sap	11		Musclewood/Hornbeam	High	10 - 20 feet	Sapling
Basswood	20	Log	15		Ironwood	Medium	Variable	Sapling
Paper Birch	10	Pole/Log	8					
Quaking Aspen	23	Log/Pole	12	65				
Balsam Fir	2	Log/Pole	10	65				

114	6229 - Mixed lowland shrub	Nonstocked	1.0	0	Unspecified	No	
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115	42110 - Planted Red Pine	Sawtimber Well	21.0	68	111-140	N/A	Planted in 1956. First thinned in 1988 by consumers. Quality red pine plantation second thinned by DNR in 2004. Thinned again in winter of 2015. Stand has been thinned three times, access came from private. A few mortality pockets cut out in southern block. Current mortality pockets continuing to creep slowly.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	13	68	Beech	Low	< 5 feet	Sapling
					Ironwood	Low	< 5 feet	Sapling
					Balsam Fir	Low	< 5 feet	Sapling

116	622 - Lowland Shrub	Nonstocked	7.0		Unspecified	No	Standing water at times.
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117	4130 - Aspen	Poletimber Well	7.3	39	Unspecified	N/A	Small pole size aspen dominated stand with cedar, balsam component. Upland although low character in spots with few cedar scattered.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Pole	7	39	Balsam Fir	Medium	< 5 feet	Sapling
Balsam Fir	10	Pole	7					
Northern White Cedar	5	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
118	4130 - Aspen	Poletimber Well	33.5	51	81-110	N/A	Likely cut along at some time stand to north was, separated as a result of fir component and more lowland character on lower topo than stand to north. Variability in aspen clones, some log size pockets and some still pole. Pole size overall.																																																					
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119	6120 - Lowland Cedar	Sawtimber Well	13.0	102	81-110	N/A	Two lowland conifer blocks, very wet with lots of downed trees in north end. More cedar in north end.																																																					
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120	4130 - Aspen	Poletimber Well	18.9	35	Unspecified	N/A	Formally private land up until State bought property in 2012. Pole aspen with scattered hardwood left in north end from previous harvest. Upland although low pockets in stand and evidence of old rutting from last harvest.																																																					
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121	42110 - Planted Red Pine	Sawtimber Well	17.0	68	111-140	N/A	Quality red pine plantation. Planted in 1956. First thinned in 1988 by consumers. Second thinned in 2004 by DNR. Thinned again in winter of 2015. Stand has been thinned three times, access came from private.																																																					
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122	42110 - Planted Red Pine	Sawtimber Well	12.4	68	81-110	N/A	Planted in 1956. Row thinned by consumers in 1988. Quality red pine plantation second thinned in 2004. Thinned again in winter of 2015. Stand has been thinned three times, access came from private. Was cut by Lutke Forest products.																																																					
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123	4134 - Aspen, Spruce/Fir	Sawtimber Well	5.7	65	81-110	N/A	Small block of mature to over mature aspen/fir. Lots of blowdown, upland although in spring imagine may have higher water table.																																																																					
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124	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	8.3	106	51-80	N/A	Wet mixed lowland site, with private bordering to the north. Intermittent stream present in stand. Windthrow and hummocky ground evident. Road from private in middle of stand that was used for timber access in recent decades. Pockets of cedar hemlock and pockets where flooded ash has dyed off.																																																																					
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125	4130 - Aspen	Sawtimber Well	50.3	53	81-110	N/A	Stand was final harvested by Consumers sometime between 1967 and 1972. Hardwood in spots but aspen dominated. Borders Manistee river bluff. Wet on few edges but overall decent ridge of aspen.																																																																					
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126	4112 - Maple, Beech, Cherry Association	Sawtimber Well	52.4	85	81-110	N/A	Medium quality log/pole hardwood stand. Pockets of higher quality timber to north, average BA of 70-110. Ironwood/ beech regen 10-20 foot. Limited sugar maple regeneration. North 16 acre negotiated ash and beech salvage was performed in 2012(Dec). "Bridson Ash Salvage" 63-011-02-13																																																																					
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127	6229 - Mixed lowland shrub	Nonstocked	2.1	0	Unspecified	No	Flooded dead ash stand. Flooded out with limited to no trees.																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
128	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	52.0	66	141-170	N/A	Lowland flat along river, dominated by mixed pole aspen and balsam. More lowland character near river edge. Dense stand. A few lowland hardwood pockets are located along the flooded river flats. Stand includes some side slope area too steep for management from hardwood stand.																																																							
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130	42220 - Natural Jack Pine	Poletimber Well	48.5	55	81-110	N/A	Last remaining mature jack pine stand left in compartment, part of Pine barrens in MNFI. Aspen clone in northwest corner.																																																							
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131	622 - Lowland Shrub	Nonstocked	0.8		Unspecified	No																																																								
133	4131 - Aspen, Oak	Sawtimber Medium	6.9	64	51-80	N/A	Small strip of aging open aspen along west ditch of railroad tracks. Year around Walton creek flows through stand and into Manistee River. Not clear whether creek is in its natural location or if influenced by railroad track and old cranberry bog to north. Upland for most part with exception of area right along creek.																																																							
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201	310 - Herbaceous Openland	Nonstocked	14.2		Unspecified	No	Opening was private up to the point State purchased land in 2012. Filling in along edges.																																																							
202	42310 - Planted Spruce	Poletimber Well	5.6	45	81-110	N/A	Planted spruce plantation which was private up until State bought property in 2012. No records on planting.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
203	4139 - Aspen, Mixed Deciduous	Poletimber Well	27.5	28	Immature	N/A	Formally private land up until State bought property in 2012. Stand was cut by previous owners in the early to mid 1990s. At that time all was cut with exception of oak and some red and white pine. Came back well to aspen/red maple and some oak. Log oak overstory concentrated in south end.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Oak	19	XLog/Log/Pole	18	90	White Pine	Low	Variable	Sapling
	Bigtooth Aspen	58	Pole/Sapling	5	28				
	Balsam Fir	1	Pole	7					
	White Pine	10	Log/Pole	13					
	Red Pine	2	Log/Pole	10					
	Jack Pine	2	Sapling/Pole	4					
	Red Maple	8	Pole/Sapling	5					
205	710 - Sand, Soil	Nonstocked	1.1		Unspecified	No			
206	4136 - Aspen, Mixed Conifer	Poletimber Well	38.4	29	Immature	N/A	Stand was privately held until 2011, stand was final harvested sometime in early/mid 1990s, with cedar and some fir left and worked around at that time. Upland harvestable but low pockets and character more so than other aspen stand in area.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Quaking Aspen	65	Pole/Sapling	5	29	Balsam Fir	Medium	Variable	Sapling
	Balsam Fir	18	Pole/Sap/Log	8		White Pine	Low	Variable	Sapling
	Paper Birch	5	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
	White Pine	2	Log/Pole	13					
	Northern White Cedar	5	Pole/Log	8					
	Red Maple	5	Pole/Sapling	5					
210	4139 - Aspen, Mixed Deciduous	Sawtimber Well	19.3	72	81-110	N/A	Area of steep terrain avoided from recent harvest for being too steep. Mix of overmatured aspen with some hardwood mixed in as well. Aspen should continue to fall out over time. Old skid trail ruts still present from adjacent stands harvests, with seeps in stand as well.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Oak	5	Log	15		Balsam Fir	Low	Variable	Sapling
	Bigtooth Aspen	40	Log	14	72	White Pine	Medium	Variable	Sapling
	Sugar Maple	35	Log/XLog	16					
	Red Maple	5	Log	13					
	Basswood	15	Log	13					