



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61245

Entry Year 2026

Acreage: 1,897

County Kalkaska

Management Area: High Sand Plains

Stand Examiner: Steve Crigier

Legal Description:

T25N R7W Sections 27, 28, 33, and 34

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; protect threatened, endangered and special concern species; and provide for forest-based recreational uses. Most of this management area sits on glacial outwash plain. A history of intensive management has resulted in the varied forest cover types present today. Timber management will emphasize thinning harvests, in mixed pine cover types, to enhance stand quality, recreational opportunities; increasing regeneration of oak and mixed pine. 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; a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

Much of the upland area of the compartment sits on Rubicon, Au Gres, and Croswell sands with various muck soils filling the lowland areas. Much of the compartment is flat, lowland areas through the Manistee River valley. The terrain raises a bit in elevation in Section 34, near the county line with some moderate hills.

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

Most of the compartment is state-owned land except for a couple privately owned parcels along the Manistee River and a private forty in Section 27 SENE. Most of the compartment is surrounded by state-owned land with the exception of the north boundary of Section 28 which is privately owned yet mostly undeveloped. Much of this compartment was acquired as former Consumers Energy Company leases. Consumers retained the mineral rights on that land.

Unique Natural Features:

The Manistee River and Cannon Creek flow through this compartment. There is potential for some Threatened and Endangered species populations to exist within the compartment.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The Manistee River and its tributaries are protected by Natural Rivers designation. Visual management is especially important along the main stem of the Manistee River.

Watershed and Fisheries Considerations:

The main stem of the Manistee River runs along and through the northwest edge of the compartment. It also contains several perennial and intermittent tributaries including Little Cannon Creek. The latter is dammed at Goulant Dam. All of these are designated trout streams. The Manistee River is a nationally recognized trout stream with naturally reproducing populations of brook, brown and rainbow trout. There are two small oxbow lakes in Section 27.

Wildlife Habitat Considerations:

This compartment is located within southwest Kalkaska County. The Manistee River meanders along the northern limits of this compartment. M-66 transects a small portion of Sec. 33.

Most of this compartment lies within a broad, flat outwash plain with either loamy sand or poorly drained organic soils (LTA 5131). There are mixed lowland conifers, shrub lowlands, and aspen stands. GLO surveyors reported large windthrows within this LTA. Variable sized habitat cuts may be a viable management tool within these large stands. Habitat cuts would mimic these windthrows, which allow sunlight to penetrate to the ground level causing new growth. Windthrows benefit many wildlife species. Most of the openings within this compartment are too small to delineate from the larger forested stands where they occur. Opportunity to maintain some of these small breaks in the canopy would provide some added diversity to the compartment. Large mixed conifer stands provide winter cover for white-tailed deer. Other animals that may be found in this habitat community include red-shouldered hawk, olive-sided flycatcher, black bear, spotted salamander, and massasauga rattlesnake. The Manistee River provides habitat for a variety of animals including wood

turtle, otter, and nighthawks. The aspen stands should be managed for variable-age classes, with the inclusion of large coarse woody debris (CWD). Deer, woodcock, and ruffed grouse have benefited from previous aspen cuts within this compartment.

A strip of broad, flat outwash plain (LTA 5111) exists in the southeast portion of section 33 and the middle portion of section 34. Since this LTA type has historically been fire-dependant, timber management practices should include those that mimic fire of various intensities, when applicable. These practices include the creation of coarse woody debris (CWD) and leave trees, islands, or strips.

The south portion of section 34 is an ice contact ridge (LTA 3111). Management practices should include keeping of mast-producing trees and snags/CWD and the creation of large coarse woody debris within the aspen stands.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. The closest known active sand/gravel pit is three miles southeast. There is some potential for sand & gravel within the compartment on the uplands in the southeast end. Some minor production of hydrocarbons from the Collingwood Formation occurred in this area. The Collingwood, however, has not yet been proven to be a successful economic play in the state, and there has not been any significant interest in further development of the formation in recent years. Recent oil & gas leasing activity in this area by West Bay Exploration may signal renewed interest in the Collingwood or, more likely, Devonian carbonate formations, but no well permit applications have been submitted for the area to date. It is unlikely, however, that any significant portion of the compartment will be included in any future development. 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:

M-66 runs through Section 33 and there is sufficient vehicle access throughout the rest of the compartment. Some two-tracks that were closed after timber sales may need to be reclosed again.

Survey Needs:

There are no survey needs at this time.

Recreational Facilities and Opportunities:

The North Missaukee Motorcycle Trail winds through Section 34 in the Southeast portion of this compartment. Motorcycle trails are best kept narrow to reduce mis-use by larger ORV's. Appropriate trail protection specifications should be included in the timber sale contracts to reduce potential trail impacts where trail is adjacent to prescribed forest treatments. The Manistee River is popular for paddling but there are no recreational facilities within the compartment. Other recreational opportunities include hunting and fishing.

Fire Protection:

Given the large proportion of this compartment that is lowland, wildfire risk in this compartment is relatively low. Fire protection would be provided by the Kalkaska FRD office and the Garfield Fire Department.

Additional Compartment Information:

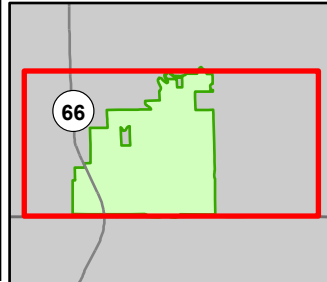
The following reports from the Inventory are attached:

- 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**

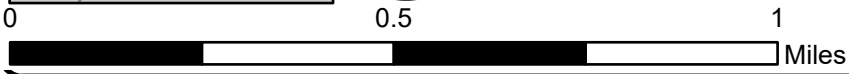
The following information is displayed, where pertinent, on the attached compartment maps:

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

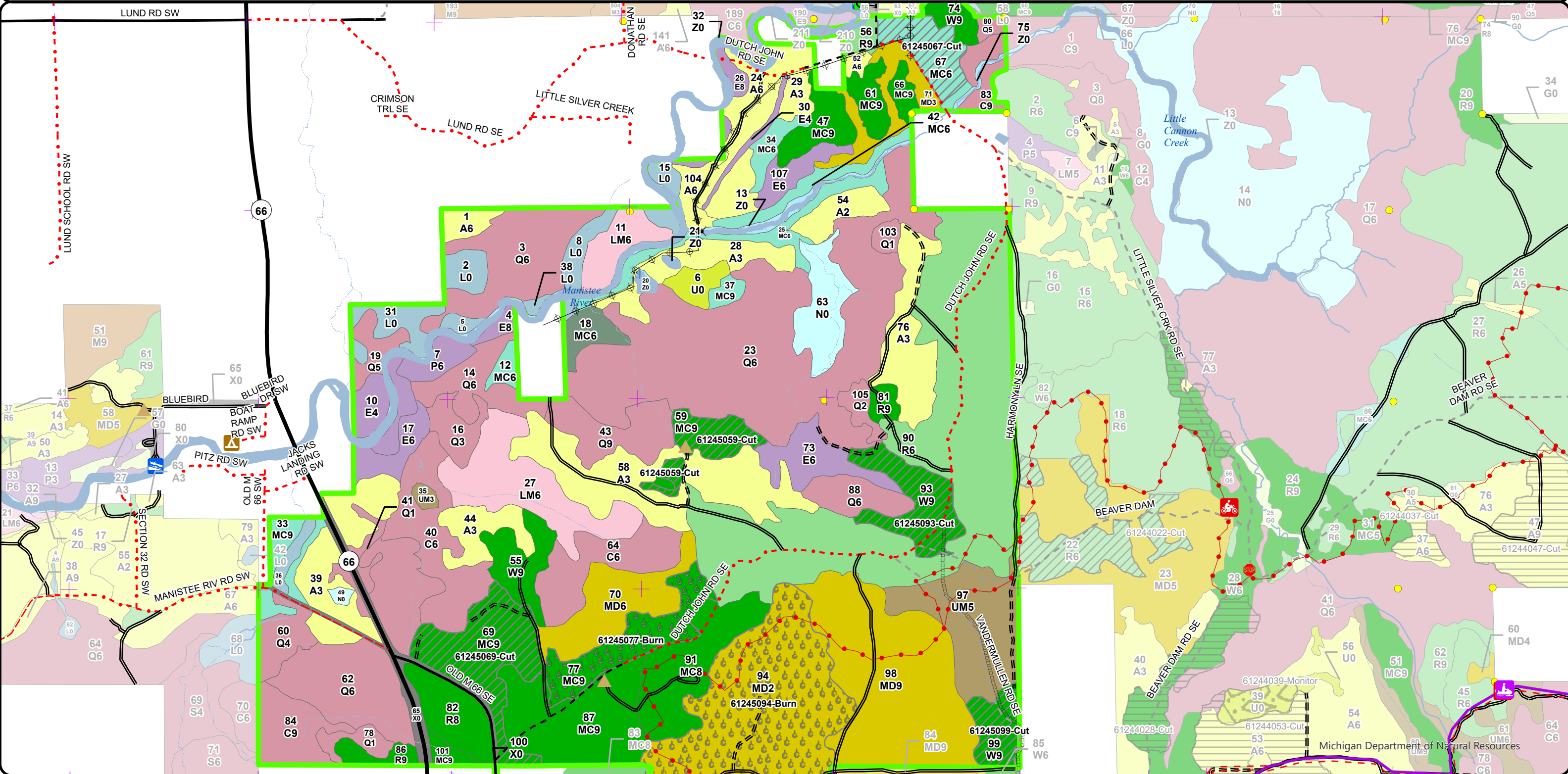
Cover Type & Treatments Map



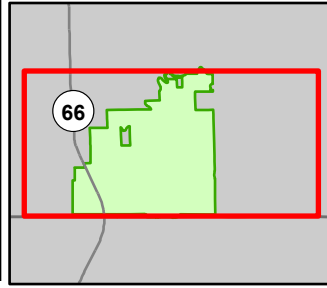
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 Unit: Traverse City
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1897.4 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 07/09/2024
 Map Phase: Web-Post



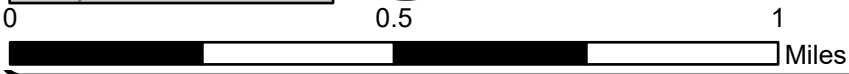
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|---------------------------------|---------------------------------------|-------------------------------|-----------------------------------|---------------------------------|
| Berms | ORV Routes | County - Gravel Road | Compartment Boundary | 611 - Lowland Deciduous Forest |
| Gate | Snowmobile Trails | County - Dirt Road (Seasonal) | Counties | 612 - Lowland Coniferous Forest |
| Boating Access Site | Designated Motorcycle Trails | Private - Paved Road | Prescribed Burn | 613 - Lowland Mixed Forest |
| Bridges | Designated ORV Routes | Private - Dirt / Gravel Road | Thinning (Crown, Low, Systematic) | 122 - Roads/Parking Lot |
| Culvert | Designated Snowmobile Trails | Intermittent Stream | 413 - Aspen Types | 330 - Low Density Trees |
| Campground | DNR - Secondary Forest Road | Island in Lake or River | 419 - Mixed Upland Deciduous | 500 - Water |
| Sign | DNR - Forest Access Route | Lake/Pond | 421 - Planted Pines | 622 - Lowland Shrub |
| Survey Grade Corners | Federal / State Highway | Perennial River | 422 - Natural Pines | 623 - Emergent Wetland |
| Remunemented Section Corners | Federal / State / County - Paved Road | Lakes and Rivers | 423 - Other Upland Conifers | |
| Motorcycle Trails (DNR License) | Federal / State - Dirt / Gravel Road | Pipeline | 429 - Mixed Upland Conifers | |
| | | Powerline | 430 - Upland Mixed Forest | |



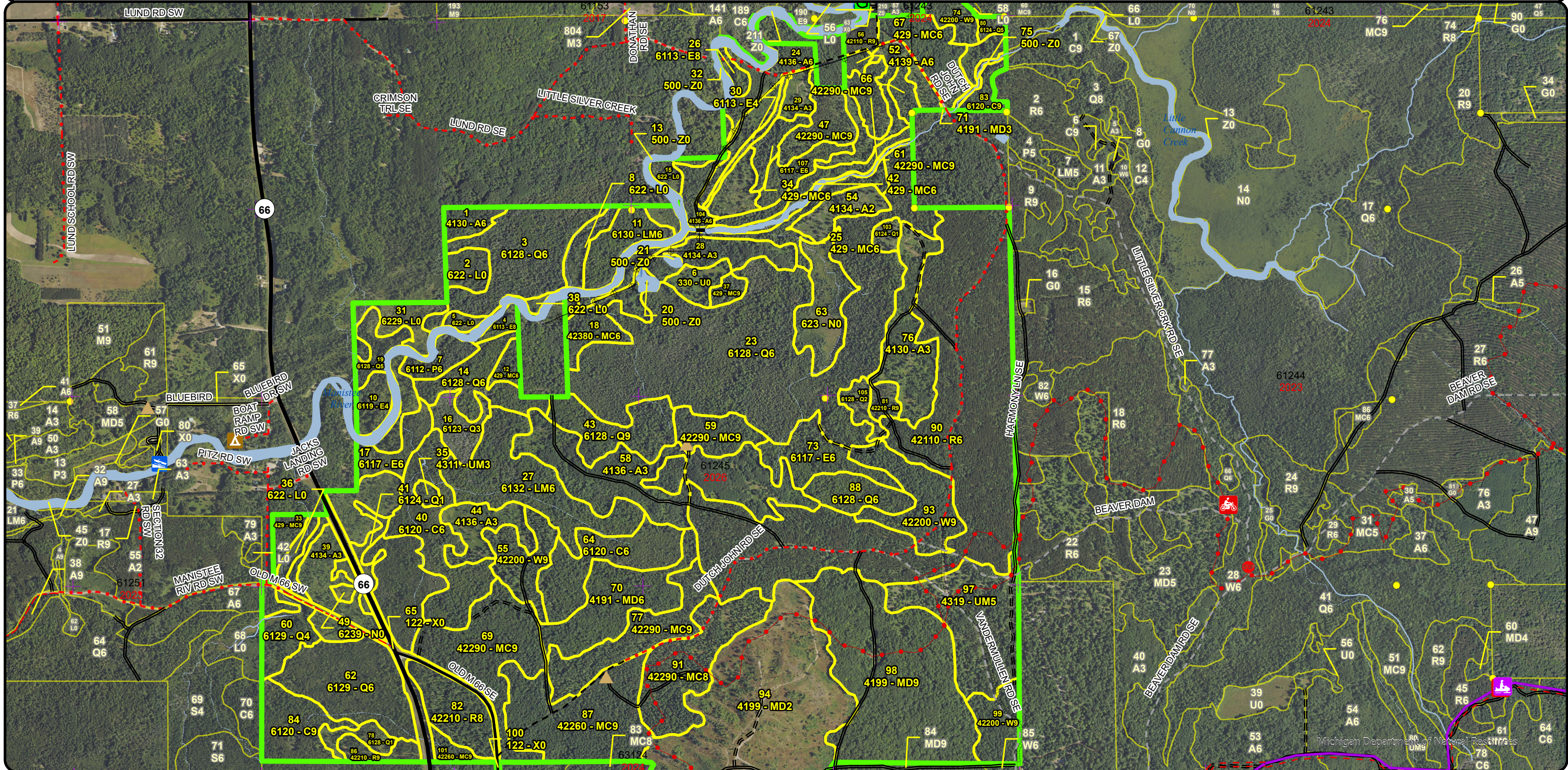
Stand Boundary Map



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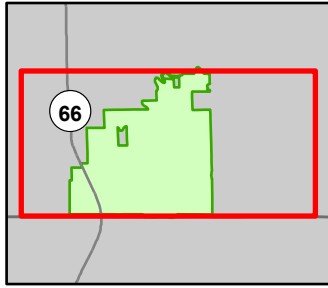


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**Special Conservation Areas
& Site Conditions Map**

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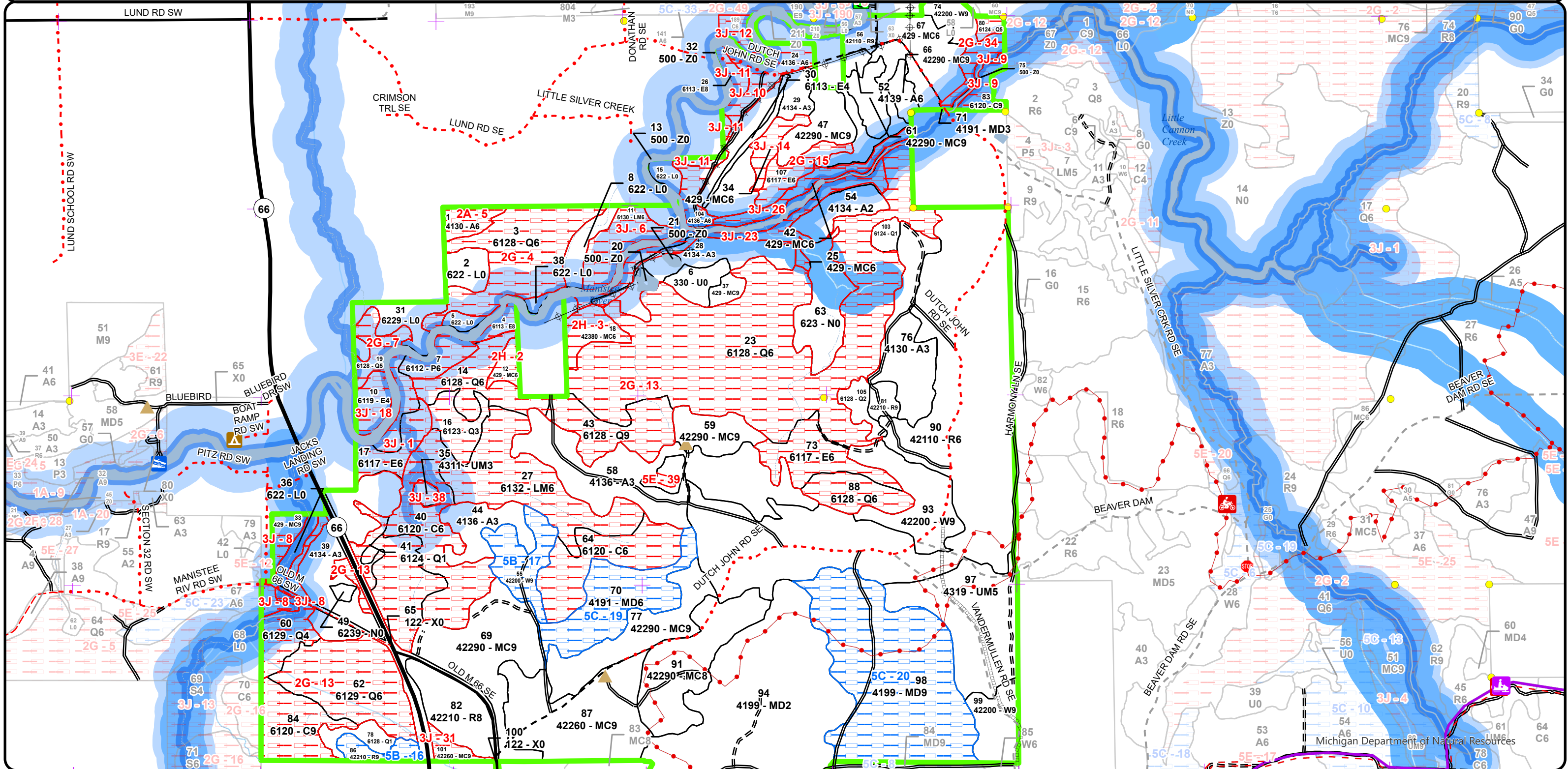


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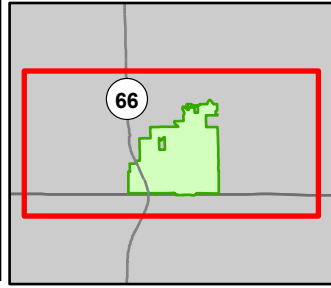
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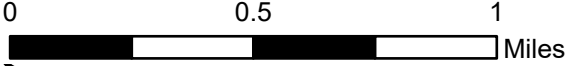
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
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- 3J: Water quality / BMPs (stream, river, or lake)
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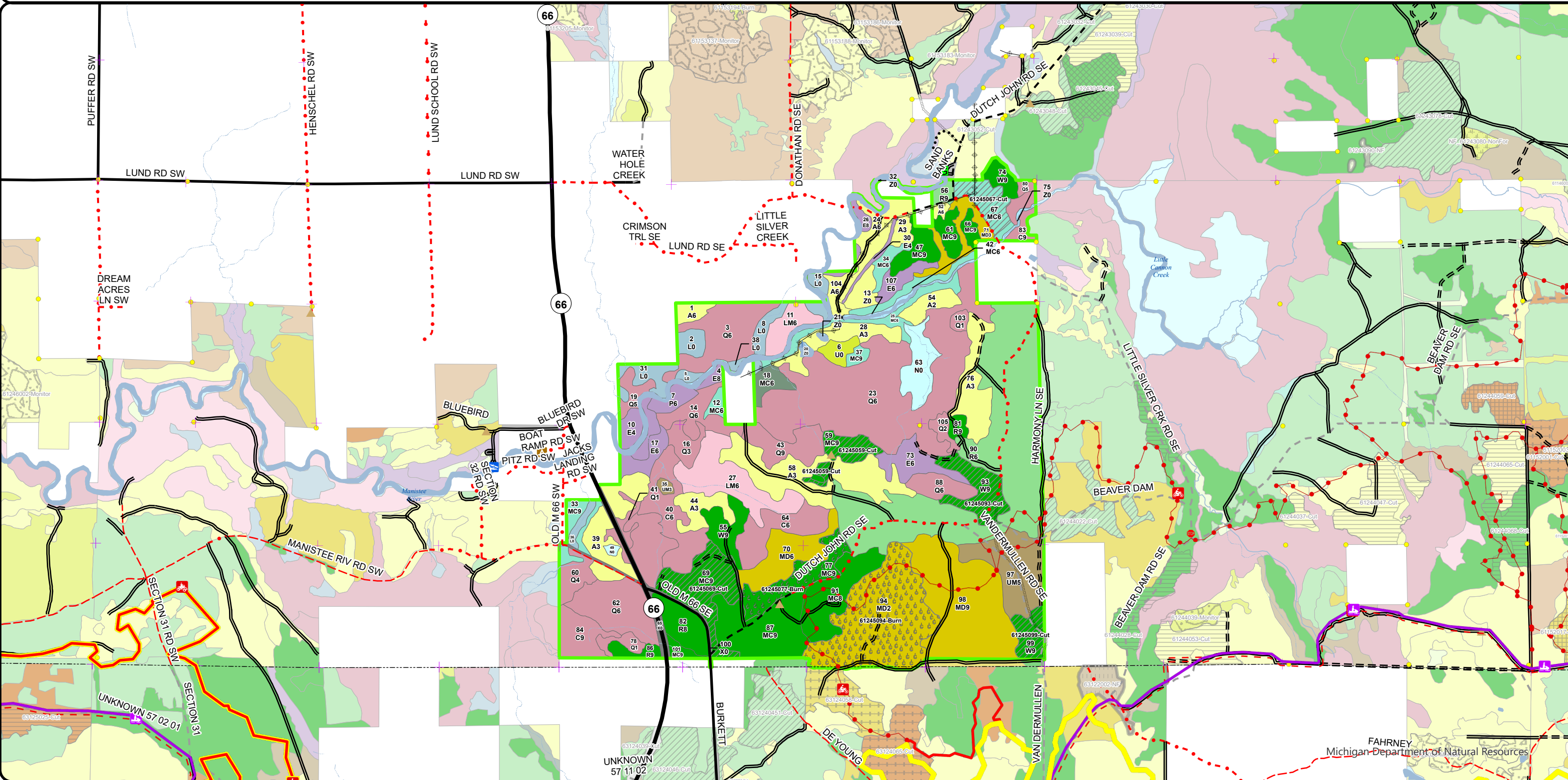
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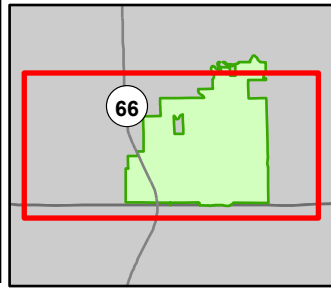
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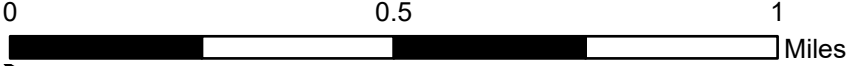
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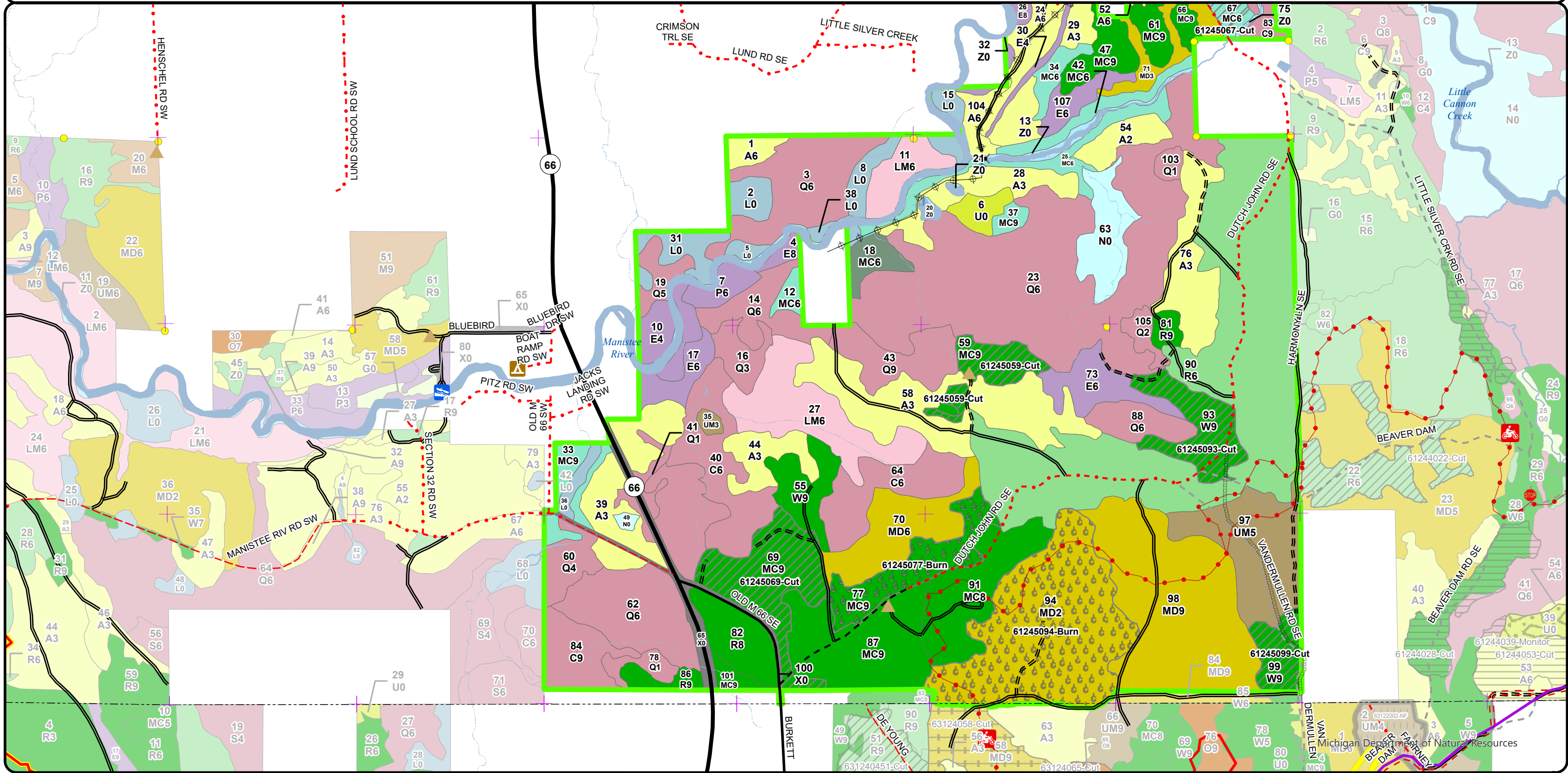


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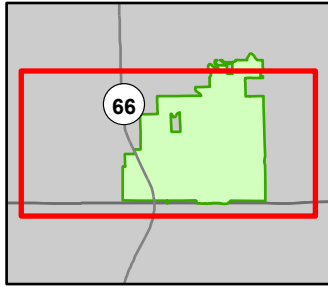
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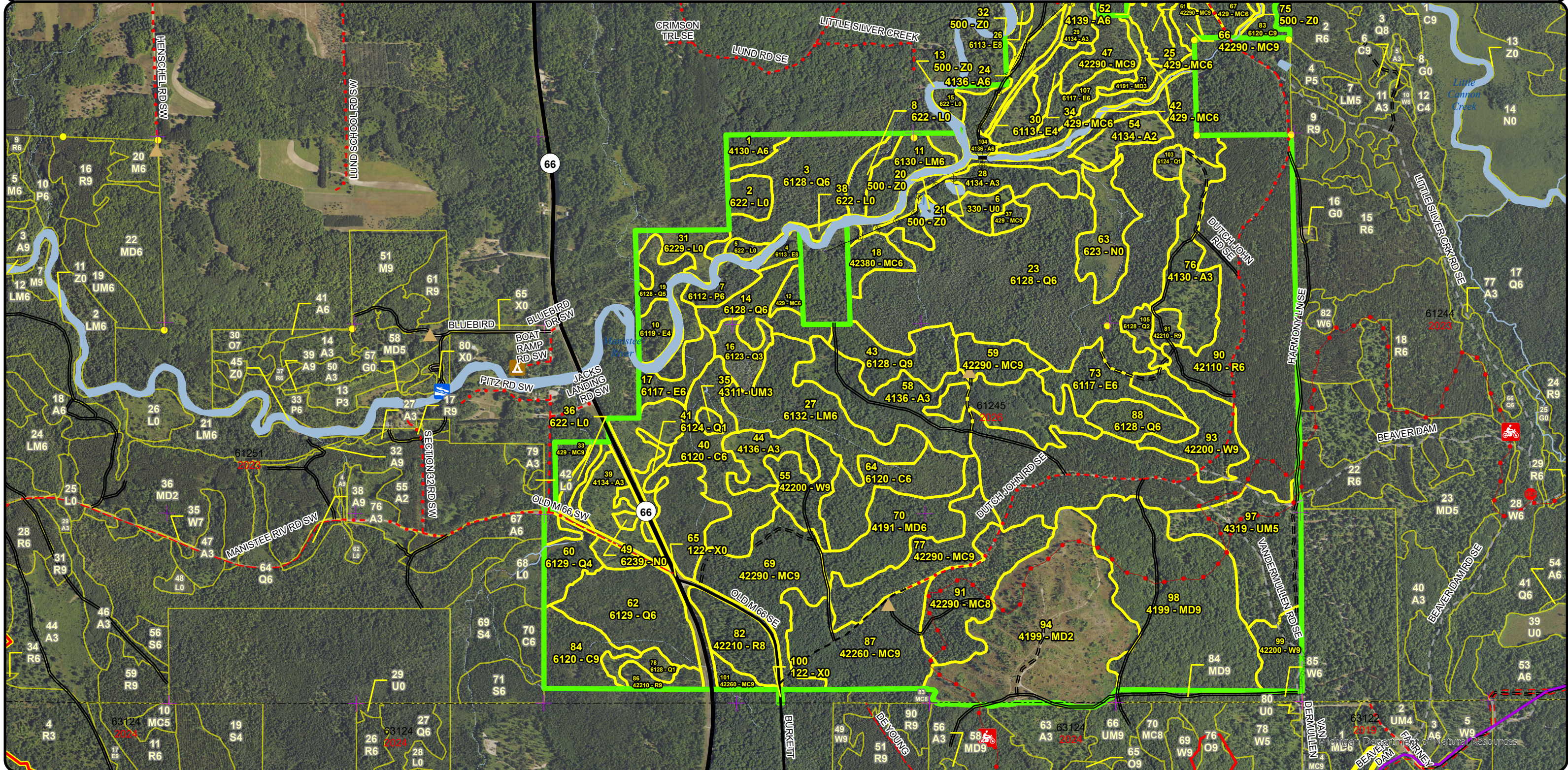
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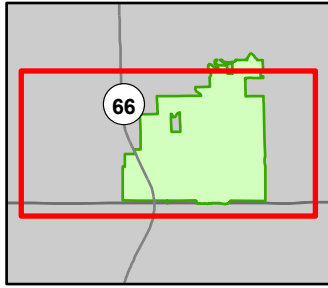
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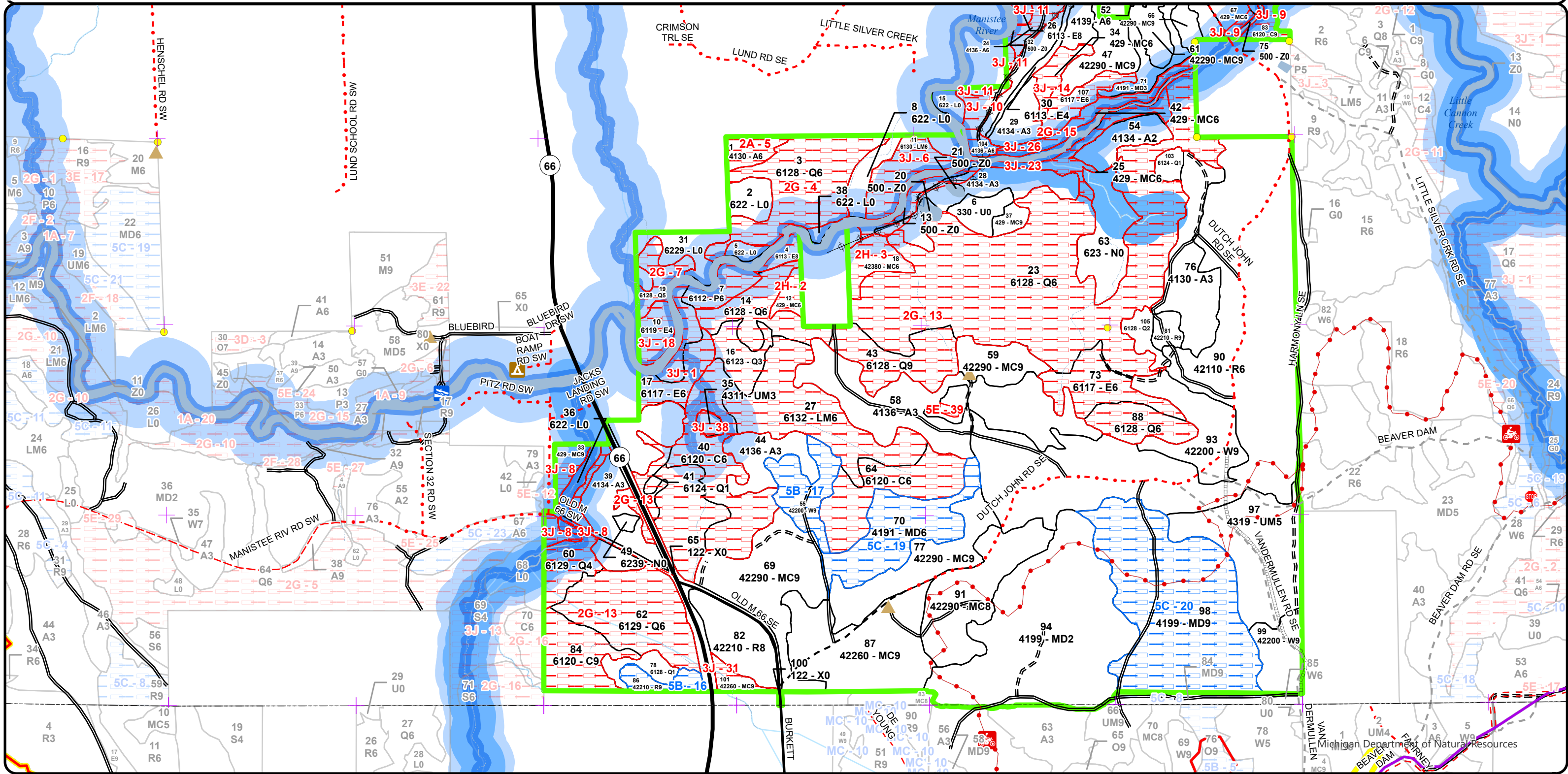


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Report 1 – Total Acres by Cover Type and Age Class



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	85	30	83	0	2	13	8	0	0	7	0	0	0	0	0	0	0	228
Cedar	0	0	0	0	0	0	0	0	0	0	10	87	0	0	0	0	0	0	97
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	10	0	11	0	0	0	3	7	23	118	234	0	0	0	0	0	0	404
Lowland Deciduous	0	0	0	0	0	0	11	14	34	9	0	0	0	0	0	0	0	0	68
Lowland Mixed Forest	0	0	0	0	0	0	15	0	46	0	0	0	0	0	0	0	0	0	61
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Marsh	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Mixed Upland Deciduous	0	122	0	0	0	0	0	34	0	99	0	0	0	0	0	0	0	0	255
Natural Mixed Pines	0	0	0	0	0	0	38	94	46	29	0	4	0	0	0	0	0	0	211
Red Pine	0	0	0	0	0	0	206	24	11	0	0	0	0	0	0	0	0	0	241
Upland Conifers	0	0	0	0	0	0	0	29	36	18	0	0	0	0	0	0	0	0	83
Upland Mixed Forest	0	2	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	49
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
White Pine	0	0	0	0	0	0	0	15	27	0	9	18	0	0	0	0	0	0	68
Total	125	219	30	94	0	49	268	199	199	109	148	227	234	0	0	0	0	0	1898



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 245
Total Compartment Acres: 1,897

Commercial Harvest - 120
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Natural Mixed Pines	0	0	0	0	0	60	0	0	0	60
Upland Conifers	0	0	0	0	0	18	0	0	0	18
White Pine	0	0	0	0	0	42	0	0	0	42
Total	0	0	0	0	0	120	0	0	0	120

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	120	0	0	0	134	0	0	0	0	254
Next Step	0	0	0	0	60	0	134	0	0	194
Total	120	0	0	0	194	0	134	0	0	448



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

59	61245059-Cut	17.0	42290 - Natural Mixed Pine	Sawtimber Well	77	141- 170	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Uneven- Aged	No
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Prescription Thin stand and reduce BA down to 110-120sqft/ac. Exclude any drainages, leave most of the super canopy pine.
Specs: Look to follow up with a prescribed burn (north island) to set back any deciduous sprouting and to reduce duff layer to encourage mixed pine germination. Timing should be 3-5 years post harvest.
Next Step Burn, Understory
Treatments:
Acceptable
Regen:
Other Long term MO of Natural Mixed pine. North edge of the stand transitions to wetter ground conditions. Part of the southern island has some
Comment: plantation red pine.
Site Condition
Proposed Start Date: 10/1 /2025

67	61245067-Cut	18.1	429 - Mixed Upland Conifers	Poletimber Well	72	171- 200	Harvest	Crown Thinning	4220 - Natural White Pine	Uneven- Aged	No
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Prescription Thin stand to a BA of 110-120. Don't harvest any hemlock or cedar. All merchantable balsam fir should be harvested. Try to discourage
Specs: deciduous sprouting. Protect the advanced white pine regen during harvest. Buffer Little Cannon Cr by 175'. Review data from Conservation Viewer.
Next Step
Treatments:
Acceptable
Regen:
Other Longterm MO of white pine. Pockets of large mature, nice quality, white pine. Areas of wet ground and drainage on the east side of the
Comment: stand. Ground is hummocky. Stand is a real mix of species Aspen, Maple, Birch, white pine, with quite a bit of balsam fir in the understory.
Site Condition
Proposed Start Date: 10/1 /2025

69	61245069-Cut	43.1	42290 - Natural Mixed Pine	Sawtimber Well	69	111- 140	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Uneven- Aged	No
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Prescription Lightly thin stand to a basal area of 90-100. Try to discourage sprouting of aspen and red maple.
Specs:
Next Step Burn, Understory
Treatments:
Acceptable red pine, white pine, oak.
Regen:
Other Long term MO of Natural mixed pine. Look into the possibility of a post harvest burn to set back deciduous sprouting and reduce duff layer
Comment: to promote mixed pine seeding in.
Site Condition
Proposed Start Date: 10/1 /2025



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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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77	61245077-Burn	29.0	42290 - Natural Mixed Pine	Sawtimber Well	88	81-110	Burn	Understory	42290 - Natural Mixed Pine	Uneven-Aged	No
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Prescription Low- moderate intensity burn to set back red maple and aspen sprouts. Also, reduce duff layer to expose a mineral soil seed bed and to encourage red and white pine regeneration. Avoid fire conditions that could cause mortality in the overstory pine. Ideally 1-2ft flame lengths and a low Rate of Spread.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other North edge of the stand transitions slightly to wetter ground. Some residences a mile to the east.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

93	61245093-Cut	26.5	42200 - Natural White Pine	Sawtimber Well	74	141-170	Harvest	Crown Thinning	4220 - Natural White Pine	Uneven-Aged	No
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Prescription Thin stand to a basal area of 110-120sqft/ac. Consider letting the aspen fall out of the stand. Maintain some oak in the overstory.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Long term MO of white pine.

Comment: Stand is on transition ground. Southern portion of the stand is below a small bluff. Northwest part of the stand has lower stocking and more open grown, lower quality, pine. More deciduous mixed into the canopy in the NW.

Site Condition

Proposed Start Date: 10/1 /2025

94	61245094-Burn	105.2	4199 - Other Mixed Upland Deciduous	Sapling Medium	6	Immature	Burn	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Moderate intensity burn to stimulate stunted oak regeneration. The goal is to increase the amount of oak stems above the deer browse line by 30%.

Next Step Monitoring, Prescribed Burn

Treatments:

Acceptable oak, aspen, red maple, white pine, red pine.

Regen:

Other Moderate to steep topography. ORV trail runs through the stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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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99 61245099-Cut	15.0	42200 - Natural White Pine	Sawtimber Well	63	141-170	Harvest	Crown Thinning	42200 - Natural White Pine	Uneven-Aged	No
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Prescription Thin stand, reduce BA to 110-120sqft/ac. Try to discourage maple and aspen sprouting. Protect as much of the advanced white pine regeneration as possible. Maintain an oak over story component.

Next Step
Treatments:

Acceptable
Regen:

Other Long-term MO of white pine/oak. Pipeline on east side of Vandermullen Rd
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Total Treatment 253.9
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 245
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions							
		With Condition				5B	5C	2A	2G	2H	3J	5E	
227	198	0		30	Aspen			7	0			23	
98	0	0		98	Cedar				87			11	
7	7	0		0	Low-Density Trees								
8	0	0		8	Lowland Aspen/Balsam Poplar							8	
397	9	0		388	Lowland Conifers				388			0	
67	3	0		63	Lowland Deciduous				29			35	
61	0	0		61	Lowland Mixed Forest				46			15	
42	42	0		0	Lowland Shrub								
23	23	0		0	Marsh								
255	122	133		0	Mixed Upland Deciduous		133					0	
212	206	0		5	Natural Mixed Pines				0			4	1
241	235	6		0	Red Pine	6							
83	23	0		60	Upland Conifers				0	14		46	
49	47	0		2	Upland Mixed Forest							2	
18	18	0		0	Urban								
34	34	0		0	Water							0	
69	51	18		0	White Pine	18							
1,891	1,019	157		715	Total Forested Acres	24	133	7	549	14		144	1
	54%	8%		38%	Relative Percent								

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 245
Year of Entry: 2026

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2A: Adjacent landowner denied access	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 245
Year of Entry: 2026

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Filer Creek RMZ							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	486	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Some perennial and seasonal drainages within this lowland complex.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 245
Year of Entry: 2026

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 245
Year of Entry: 2026

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	99	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 245
Year of Entry: 2026

39	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Wooded drainage.							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4130 - Aspen	Poletimber Well	6.7	97	Unspecified	N/A	
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2	622 - Lowland Shrub	Nonstocked	7.6			No	
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3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	42.8	115	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	20	Pole	8					
Red Maple	15	Pole/Log	9					
Paper Birch	5	Pole	8					
Quaking Aspen	15	Pole/Log	9					
Balsam Fir	35	Pole	7	115				

4	6113 - Lowland Maple	Sawtimber Medium	3.5	87	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Pole/Log	9	107
Red Maple	75	Log/Pole	12	87
Balsam Fir	5	Pole	8	
Paper Birch	10	Pole/Log	9	
White Pine	5	XLog/Log	18	

5	622 - Lowland Shrub	Nonstocked	2.5	0		No	
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6	330 - Low-Density Trees	Nonstocked	7.5	0	Unspecified	No	2024 - Old fire scar that is slow to fill back in. White pine and fir starting to fill in. Some large scattered pine and hardwoods.
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7	6112 - Lowland Aspen	Poletimber Well	8.2	75	51-80	N/A	2014 - Some pockets are heavy to aspen others are more of a red maple balsam fir mix. There are also some cedar along the river and some interior pockets. Thornapple underneath as well as balsam fir.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	7		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	10	Pole	7					
Balsam Fir	20	Pole	7					
Basswood	5	Pole	9					
Quaking Aspen	50	Pole/Log	9	75				

8	622 - Lowland Shrub	Nonstocked	8.6	0		No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	14.8	70	1-50	N/A	flood plain of river. Used to have black ash canopy but it is all on the ground now.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		15	Pole	8		Tag Alder		Full	5 - 10 feet	Tall Shrub
Quaking Aspen		30	Pole/Log	9						
Paper Birch		5	Pole	8						
Red Maple		50	Pole/Log	9	70					

11	6130 - Fir, Aspen, Maple	Poletimber Well	15.3	67	81-110	N/A	2024 - Looks to be a red maple, aspen and fir mix			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Pole/Log	9		Balsam Fir		Low	Variable	Sapling
White Pine		10	Log	14						
Northern White Cedar		10	Pole	7						
Balsam Fir		30	Pole	7	67					
Quaking Aspen		25	Pole	8	67					
Paper Birch		10	Pole	8						

12	429 - Mixed Upland Conifers	Poletimber Well	4.3	80	51-80	N/A	2014- Stand is an upland ridge with lots of species diversity. Old red paint is on the boundary of this stand. Some upland cedar is on this knoll. A few super canopy white pine are in the overstory. Heavy balsam fir understory most of the which is well established.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		25	Pole/Log	9	80	Balsam Fir		High	Variable	Sapling
Paper Birch		10	Pole/Log	8						
Quaking Aspen		5	Pole	8						
Northern White Cedar		5	Pole	6						
White Pine		15	Log/XLog	14						
Hemlock		5	Pole	7						
Balsam Fir		30	Pole	8	80					
Red Pine		5	Log/Pole	10						

13	500 - Water	Nonstocked	23.4		Unspecified	No	Manistee River and Big Cannon Cr.
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14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	20.7	107	141-170	N/A	2024- Parts of the stand is a little more upland. Some seeps and wooded drainages .2014 - Decent quality of cedar and hemlock which is overtopped by some red maple and birch (western portion). There are some pockets of dense cedar and hemlock but the majority of the stand is pretty well mixed. The western portion of the stand is more moderately stocked.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Log/Pole	12		Balsam Fir		Low	Variable	Sapling
Hemlock		20	Pole/Log	9						
Paper Birch		10	Pole/Log	9						
White Pine		5	XLog/Log	18						
Northern White Cedar		40	Pole/Log	9	107					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
15	622 - Lowland Shrub	Nonstocked	6.3		Immature	No	2024- All ash is dead. Tag alder dominates the stand. 2014 - Stand is in the flood plain of the Manistee River. Mostly black ash with tag alder underneath. Stand is a part of a consumers lease that expired in 2011 (M-117).																																																	
16	6123 - Lowland Fir	Sapling Well	10.8	27	Immature	N/A	2024- Look to be an area with heavy blow down that is slowly regenerating. Mostly balsam fir and cattails. 2014- small diameter trees. poorly stocked. looks like it might be flooded boarder line non-forested.																																																	
<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>Black Spruce</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>30</td> <td>Pole</td> <td>7</td> <td>98</td> </tr> <tr> <td>Balsam Fir</td> <td>60</td> <td>Sapling</td> <td>2</td> <td>27</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	10	Sapling	2		Northern White Cedar	30	Pole	7	98	Balsam Fir	60	Sapling	2	27	<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>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	Tag Alder	Medium	Variable	Tall Shrub																					
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Tag Alder	Medium	Variable	Tall Shrub																																																					
17	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.0	54	51-80	N/A	2024 - Mostly lowland ground but some upland areas . Mostly an aspen / fir mix . 2014 - North end of the stand is a mostly small diameter ash and balsam fir with some scattered aspen.																																																	
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Tag Alder	Trace	Variable	Tall Shrub																																																					
18	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	9.6	84	81-110	N/A	2024-Stand is a highly variable stands with lots of different species. It is also hard to tell if it is upland or lowland. There is a creek along the east boundary of the stand. It also looks like there is are some perriennial drains that feed into the creek. There are Groves of large diameter white pine (24").																																																	
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19	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	8.6	115		N/A																																																		
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20	500 - Water	Nonstocked	1.6			No	2024- Pond looks to have been formed by the road at the north end impending a natural flow. Culvert at north end draining to the Manistee.																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 500 - Water Nonstocked 0.6 No 2024- Appears man made. Well like hardware at the northend.

23 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 181.8 113 51-80 N/A 2024 - Stand has a creek running through it. Gaps from blowdown have filled in with fir and spruce. Stocking is variable. Well stocked cedar along the edge of the creek. A few islands of higher ground. Some solid pockets of cedar and of spruce.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Fir	High	Variable	Sapling
Black Spruce	20	Pole	7					
Balsam Fir	25	Pole/Sapling	7					
Northern White Cedar	30	Pole	8	113				
Quaking Aspen	5	Pole	7					
Red Maple	10	Pole/Log	8					

24 4136 - Aspen, Mixed Conifer Poletimber Well 12.9 53 81-110 N/A 2014- Nice bigtooth aspen, Healthy stand of timber, some pockets of balsam fir. Stand has more of a conifer component along the river. This stand was a part of a consumers lease parcel (M-114) that expired in 2011.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log	14		White Pine	Low	Variable	Sapling
Quaking Aspen	15	Pole	8		Balsam Fir	Medium	Variable	Sapling
Red Maple	10	Pole	7					
Balsam Fir	10	Pole	7					
Bigtooth Aspen	55	Pole	8	53				

25 429 - Mixed Upland Conifers Poletimber Well 16.8 72 81-110 N/A Stand is on the bank of the Little Cannon Cr and the Manistee. Serves as a riparian buffer. Lots of species diversity.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	30	Pole	7	72	Balsam Fir	Medium	Variable	Sapling
White Pine	25	Log/Pole	10	72				
Red Oak	5	Log	12					
Quaking Aspen	5	Pole	8					
Northern White Cedar	5	Pole	8					
Red Maple	30	Pole	7					

26 6113 - Lowland Maple Sawtimber Medium 5.4 85 51-80 N/A 2014 - Stand is in the flood plain of the Manistee River. Stand is a part of a consumers lease that expired in 2011 (M-117).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5	Log	14		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	65	Log/Pole	10	85				
Quaking Aspen	10	Log/Pole	10					
Northern White Cedar	15	Pole	8					
Balsam Fir	5	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
27	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	45.6	84	81-110	N/A	2024- stand has a stream at the south end. Also several seeps and wooded drainages. Part of the stand was prepped for harvest in 2016 but was never cut. 2014 -Stand is very diverse. Lot of pocket and vains of cedar but it is prodominately maple, aspen and balsam fir.																																										
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28	4134 - Aspen, Spruce/Fir	Sapling Well	21.2	27	Immature	N/A	2024- Scattered log size oak and pine. A good mix of fir and pine mixed in with the aspen. 2014- Regen is about 20' tall and is a couple of inches in diameter. Regen is in pockets/clones.																																										
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29	4134 - Aspen, Spruce/Fir	Sapling Well	23.5	5	Immature	N/A	2024- stand is filling in well. Nice mix of conifers. 2020 - Stand was final harvested in 2019. Cedar and hemlock were left. Also left balsam fir less than 4". 2014 - The stand stocking is variable. Thick balsam fir understory. Ground appears to be upland although is very hummocky. Some of the birch and aspen are starting to die out. Stand include an old camp site in the southwest corner that was a part of a consumers lease (m-117) that expired in 2011. The stand has more of a white pine component in the northern part, along the Manistee R.																																										
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30	6113 - Lowland Maple	Poletimber Poor	3.5	63	1-50	N/A	Stand is a narrow perennial drain that stretches from Lund Rd down to the Little Cannon.																																										
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31	6229 - Mixed lowland shrub	Nonstocked	11.9		Immature	No	2024 - Ash has died off. Tag Alder taking over the flood plain.																																										
32	500 - Water	Nonstocked	6.8		Unspecified	No	Manistee River																																										



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33	429 - Mixed Upland Conifers	Sawtimber Well	11.4	62	81-110	N/A	2024 - Nice mixed pine stand along Filer creek. Lots of size classes.																																											
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34	429 - Mixed Upland Conifers	Poletimber Well	6.8	62	81-110	N/A	2024- Stand is a mix of upland and lowland, hummocky ground. A wooded drainges present along the east boundary. Stocking decreases in the southern portion of the stand.																																											
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35	4311 - Pine, Aspen Mix	Sapling Well	2.3	7	1-50	N/A	2024 - Stand is regenerating well. Log size white pine scattered in overstory. 2017 - Stand had all the aspen, red maple spruce and fir harvested in 2017 with 'Old 66 mix 61-154-16-01. Stand is an island of upland surrounded by a cedar swamp.																																											
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36	622 - Lowland Shrub	Nonstocked	4.3			No	2024- Tag Alder and wetland grass with creek running through it.																																											
37	429 - Mixed Upland Conifers	Sawtimber Well	3.6	81	111-140	N/A	2024 - The stand has a thick pocket of mature pine. Fringes are fir and red maple.2014- Stand is on the transition ground. Is a red maple/white pine mix.																																											
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38	622 - Lowland Shrub	Nonstocked	1.2	0		No																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39	4134 - Aspen, Spruce/Fir	Sapling Well	34.3	8	Immature	N/A	2024 - Stand has regenerated well. White pine is seeding in as well as oak. Some areas of moderate stocking. 2017 - Stand was harvested in 2017. Old 66 Mix 61-154-16-01. Left all fir and spruce less than 4", oak and marked to leave some white pine. 2014- Several small drains run through the stand. Far northeast part as well as the very southern tip of stand become more open/less stocked with some scattered red pine. Parts of the stand is on on wet ground.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		2	Log/Pole	10				
Quaking Aspen		48	Sapling	1	8			
White Pine		20	Pole/Sap/Log	6				
Red Maple		10	Sapling	1	8			
Balsam Fir		20	Sapling/Pole	3				

40	6120 - Lowland Cedar	Poletimber Well	36.6	108	81-110	N/A	2024 - Dense canopy, Used heavily by various wildlife. 2014 -northern tip is a knoll of balsam and maple. The rest of the stand is decent quality cedar. Stand has a perennial stream running through it.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		5	Pole	8				
Quaking Aspen		5	Pole	9				
Black Spruce		5	Pole	8				
Northern White Cedar		65	Pole/Log	9	108			
White Pine		5	Log	14				
Hemlock		5	Pole/Log	8				
Balsam Fir		10	Pole	7				
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Medium	Variable	Sapling				

41	6124 - Lowland Spruce-Fir	Sapling Poor	6.8	89	1-50	N/A	2024- Very wet ground and sparse timber.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar		20	Pole/Sapling	6			
Tamarack		25	Pole/Sapling	6			
Black Spruce		30	Sapling/Pole	4	89		
Balsam Fir		25	Sapling/Pole	4			
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		High	Variable	Tall Shrub			

42	429 - Mixed Upland Conifers	Poletimber Well	10.6	68	51-80	N/A	Stand has lots of species diveristy but is mostly balsam fir, white pine and red maple in a narrow strip along Cannon. Thick balsam understory. lower ground on the east side of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		2	Log	14				
Balsam Fir		40	Pole	6	68			
Paper Birch		8	Pole	8				
Red Maple		25	Pole	7				
Quaking Aspen		5	Pole	7				
White Pine		20	Log/Pole	12	68			
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		High	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
43	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	23.4	98	111-140	N/A	2014- Stand is made up of large white pine (24"+) and red maple that is over top of cedar and hemlock. Also some balsam fir and black spruce. Stand is on transition ground from the upland to the swamp. Stand has intermittent creek in the eastern part. Eastern part of stand is more balsam fir and red maple. W8 overtop of a Q6 with soft maple.																																						
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44	4136 - Aspen, Mixed Conifer	Sapling Well	15.3	8	Immature	N/A	2024- Stand is filling in well. Mostly an aspen and red maple mix but also some sizeable pockets of white pine and fir. 2017-Stand was harvested in 2017, Old 66 Mix 61-154-16-01. Pretty much a final harvest except left the cedar, hemlock, and the small fir and spruce. Also marked some super canopy white pine to leave. 2014-Transition ground heading down to the creek. Stand has a drainage at the south end of the stand. A real mix of species (fir, maple, aspen, white pine and birch).																																						
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47	42290 - Natural Mixed Pine	Sawtimber Well	14.2	74	81-110	N/A	2024- Some white pine, spruce and fir seeding in. BA'S - 100, 110, 902020 - Pine was thinned through in 2019. Also the aspen and jack pine were removed and the black spruce above 4". 2014 - Nice quality white pine fairly straight and clean. 5-6+ stick trees. Stand has a healthy component of black spruce in the southern portion of the stand. Northern portion of the stand is heavier to red pine.																																						
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49	6239 - Mixed Emergent Wetland	Nonstocked	1.4			No																																							
52	4139 - Aspen, Mixed Deciduous	Poletimber Well	2.4	48	81-110	N/A	2024- white pine established in the understory. Appears to have two age classes with the aspen being the youngest. 2014-Decent quality aspen. White pine is older.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
54	4134 - Aspen, Spruce/Fir	Sapling Medium	11.5	4	Immature	N/A	2024- Stand is slowly filling in mostly to an aspen and fir mix. 2020 - Stand was harvested in 2020. Some cedar, white pine and the smaller fir and spruce were left as well as the oak. 2014 - Stand is mostly red maple, birch and balsam fir. Birch is starting to die out. There are some pockets of red maple logs although they are poor quality trees. Stand has some pockets of low ground with cedar and b. spruce. Stocking is variable. There is a perennial drain near the west boundary of the stand. Some scattered red oak.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		5	Log	14				
Red Maple		15	Sapling	1	4			
Northern White Cedar		3	Pole	8				
Quaking Aspen		35	Sapling	1	4			
Balsam Fir		20	Sapling	1	4			
Red Oak		2	Log	12				
Bigtooth Aspen		10	Sapling	1	4			
Black Spruce		5	Sapling	1	4			
Black Cherry		5	Sapling	1	4			
55	42200 - Natural White Pine	Sawtimber Well	17.9	100	51-80	N/A	2024- white pine regeneration is establishing in pockets. Red maple stumps sprouts scattered throughout the stand. 2017- Stand was thinned in 2017, Old 66 Mix 61-154-16-01. Residual BA is variable. 2014 - Lots of large white pine. Low amounts of white pine in the understory. Stocking is variable. Lots of white pine over 24" in diameter. Lots of 8 + stick trees. Decent quality white and red pine. There is also a narrow vain of hemlock and cedar (lowland) that runs through the northern portion of the sale. Seeing some mortality in red pine.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		5	Log/XLog	16				
White Pine		60	Log/XLog	16	100			
Red Pine		30	Log	14				
Hemlock		5	Log/Pole	10				
Sub-Canopy Species		Density	Avg. Height	Size				
White Pine		Low	Variable	Sapling				
Red Maple		Medium	5 - 10 feet	Sapling				
56	42110 - Planted Red Pine	Sawtimber Well	4.4	60	111-140	N/A	2024- stand is responding well to the last thinning. White pine is establishing in the understory. 2020 - Stand was thinned for a 3rd time in 2020. 2014- Thinned in 2008 for the 2nd time. Nice quality red pine, 6 stick trees. Canopies are grown in tight.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		100	Log/Pole	10	60			
Sub-Canopy Species		Density	Avg. Height	Size				
White Pine		Medium	5 - 10 feet	Sapling				
58	4136 - Aspen, Mixed Conifer	Sapling Well	62.0	26	Immature	N/A	2024 - open areas are filling with cherry, red maple and white pine. 2014- Trees are 20-30' tall and are a couple of inches in diameter. Stocking kinda sparse on the far western edge.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		50	Sapling	3	26			
Bigtooth Aspen		20	Sapling	4	26			
Balsam Fir		10	Sapling	2	26			
White Pine		10	Sapling	2				
Black Cherry		5	Sapling	2				
Red Maple		5	Sapling	2				
59	42290 - Natural Mixed Pine	Sawtimber Well	17.8	77	141-170	N/A	2024- stand has a couple of wooded drainages lined with some cedar and hemlock. Evidence of past fire activity. Some large Super canopy white pine. South island has a few rows of planted red pine. BAs: 170, 160, 170. 2014 - Natural pine stand that is slightly heavier to white pine. Small amount of aspen and maple present also. Stand appears to have been thinned in the past 20-30 years ago.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		10	Pole	8				
Red Pine		30	Log	12				
Red Oak		5	Log	14				
White Pine		50	Log/Pole	12	77			
Sub-Canopy Species		Density	Avg. Height	Size				
White Pine		Low	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
60	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	12.7	105	1-50	N/A	2024 - Partially flooded area.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		30	Pole	7		Tag Alder	
Tamarack		30	Pole	7	105	High	
Balsam Fir		10	Pole/Sapling	7		Variable	
Black Spruce		30	Pole	7		Tall Shrub	
61	42290 - Natural Mixed Pine	Sawtimber Well	9.4	74	81-110	N/A	2024- white pine and fir are getting established in the understory. Some black spruce regen in the south. BAs-80, 90, 2020 - Pine was thinned through in 2019. Also the jack pine, aspen, spruce and fir greater than 4" were harvested. 2014 - Large diameter pine in the north end. Red pine tops in the north are rounded and starting to thin out. Quite a bit of advanced white pine regen. South end of the stand is a dense pole timber stand canopies are tight and the BA is a lot higher. Also there is some black spruce in the south part of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	8		Quaking Aspen	
White Pine		50	Log/Pole	12	74	Low	
Red Pine		45	Log	12	74	< 5 feet	
						Sapling	
						Sapling	
						Sapling	
62	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	63.7	105	81-110	N/A	2024 - stocking is variable, seems to be more sparse at the north end. Stream in the southern part of the stand. Pockets of large diameter cedar . Fir and spruce falling out of the stand. Spruce and fir regen where there has been Pockets of mortality
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole/Log	8		Tag Alder	
Northern White Cedar		45	Pole/Log	8	105	Low	
Balsam Fir		15	Pole	8		Variable	
Black Spruce		15	Pole	8		Tall Shrub	
Tamarack		5	Pole	8		Sapling	
Quaking Aspen		5	Pole/Log	9			
White Pine		10	Log/Pole	12			
63	623 - Emergent Wetland	Nonstocked	21.8		Unspecified	No	
64	6120 - Lowland Cedar	Poletimber Well	29.7	106	111-140	N/A	Very dense, well stocked cedar stand. Lots of deer use.
Canopy Species		% Cover	Size Class	DBH	Age		
Paper Birch		5	Pole/Log	8			
White Pine		5	Log/XLog	14			
Hemlock		5	Pole/Log	9			
Northern White Cedar		85	Pole/Log	9	106		
65	122 - Road/Parking Lot	Nonstocked	17.6		Unspecified	No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
66	42290 - Natural Mixed Pine	Sawtimber Well	4.9	72	81-110	N/A	2024- Stand is responding well. white pine and fir establishing in the understory. 2022 - Stand was thinned in 2019. Also all aspen, fir and spruce greater than 4" were removed. 2014 - Heavier to white pine in the south end and more of a red pine component in the north. Decent quality pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	55	Log	12	72	Balsam Fir	Low		Variable	Sapling
Paper Birch	5	Pole	7		White Pine	Low		< 5 feet	Sapling
Red Pine	35	Log	12		Quaking Aspen	Low		5 - 10 feet	Sapling
Red Maple	5	Pole	8						
67	429 - Mixed Upland Conifers	Poletimber Well	19.5	72	171-200	N/A	2024 - Pockets of large mature, nice quality, white pine. areas of wet ground and drainage on the east side of the stand. BA'S: 170, 190 2014 - Ground is hummocky. Stand is a real mix of species Aspen, Maple, Birch, white pine, with quite a bit of balsam fir in the understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	5	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling
Northern White Cedar	3	Pole	7		White Pine	Medium		Variable	Sapling
White Pine	45	Log/Pole	11	72					
Hemlock	2	Pole/Log	9						
Paper Birch	10	Pole	7						
Red Pine	5	Log/Pole	12						
Red Maple	25	Pole/Log	8	72					
Balsam Fir	5	Pole	7						
69	42290 - Natural Mixed Pine	Sawtimber Well	43.1	69	111-140	N/A	2024 - Mixed pine stand with mixed deciduous. Pockets of white pine regen. Oak is reaching maturity. Some remant red and white pine. Old fire scarred stumps. Northend transitions into a red maple and fir mix. BAs: 120, 120, 200, 110. 2014 - extra ba 140. Stand is on the verge of being a log stand. Stocking is variable. Some pockets of maple and oak. Lots of age and size class diversity. There is even a trace of some red pine regeneration in the understory!!		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	5	Pole	7		Red Pine	Low		Variable	Sapling
White Pine	25	Log/Pole	12		White Pine	Low		Variable	Sapling
Red Oak	10	Log/Pole	13						
Quaking Aspen	10	Log/Pole	10						
Red Pine	45	Log/Pole	11	69					
Red Maple	5	Pole	8						
70	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	33.7	78	111-140	N/A	2024- Some log size red maple but mostly pole size. Pockets of low ground and cedar. BAs - 130, 120, 120 2014- Stand is like a W9 over top of a M6/A6. However there is more maple and aspen then white pine. White pine are very large in the overstory. Ground is very hummocky. The aspen is starting to die out. Stand contains a small Qtype pocket in the eastern central part of the stand (retention). Stand has more of white pine component in the east.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	5	Log/Pole	12		Red Maple	Medium		Variable	Sapling
Red Maple	40	Pole/Log	8	78	Balsam Fir	Medium		Variable	Sapling
Red Oak	5	Log	12		White Pine	Low		Variable	Sapling
Paper Birch	10	Pole/Log	9						
Quaking Aspen	10	Log/Pole	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
71	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	17.1	5	1-50	N/A	2024- Stand is regenerated well. Aspen and red maple about 10' tall. Balsam fir and white pine seeding in as well. There are a couple of wooded drainages. 2020 - Stand was shelterwood harvested in 2019. Marked some maple and pine to leave as well as the cedar and hemlock. Red maple and aspen regen is filling in. 2014 - Ground is hummocky. Stand is a real mix of species Aspen, Maple, Birch, white pine, with quite a bit of balsam fir in the understory. Paper birch is starting to die out.																																																	
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73	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	19.0	72	81-110	N/A	2024- Hummocky ground with some upland soils. 2014-Stand has at least 2 intermittent creeks. Some pockets of nice mature red and white pine logs. Aspen is deteriorating. Stand has less TPA in the western 1/2.																																																	
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74	42200 - Natural White Pine	Sawtimber Well	9.2	92	81-110	N/A	2024- Regeneration is coming along well. White pine, aspen, and fir coming back in. 2014 - Stand has some larger white pine in the overstory. Ground is hummocky and is upland/lowland. Quite a bit of advanced white pine regeneration. thinned winter of 2018/2019 turned out good																																																	
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75	500 - Water	Nonstocked	1.6		Unspecified	No																																																		
76	4130 - Aspen	Sapling Well	30.2	16	Immature	N/A	2024- white pine continuing to develop in understory. Some areas are taking longer to fill in. 2014- Stand was clear cut in 2008, left the oak. Trees are about 10' tall. Lots of deer browse along the west line. Small amount of balsam fir and white pine are coming up with aspen.																																																	
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77	42290 - Natural Mixed Pine	Sawtimber Well	29.0	88	81-110	N/A	2024 - Aspen and red maple sprouting in the understory, some of it has been browsed down. Some white pine seeding in. 2017 -Thinned stand in 2017, Old 66 mix 61-154-16-01 removed the aspen and jack pine and thinned through the pine. 2014 - Stand is unevenaged mixed pine stand with small amount of aspen, oak and maple. Lots of size classes. A few large super canopy white and red pine (18" +) trees. Stand has a higher component of white pine in the west part of the stand. Some of the red pine are getting topped out. Small pocket of jack pine out by Dutch John.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole	8		Quaking Aspen		Medium	5 - 10 feet	Sapling	
Red Oak		5	Log	14		White Pine		Low	Variable	Sapling	
Red Pine		50	Log/Pole	11	88	Red Maple		Low	5 - 10 feet	Sapling	
White Pine		40	Log/Pole	12							
78	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	6.3	105	1-50	N/A	2024- Regen is coming along very slowly and has aways to go before stand has filled in. Cattails established in some areas. 2017-Stand was cut in 2017, Old 66 Mix 61-154-16-01. It was a shelterwood style cut leaving scattered white pine, also left all the cedar. Ground is really soft on the east edge. Also discovered a creek off the north side of this stand. 2014-Stand has scattered large white pine as super canopy trees. Decent size and quality to the red maple. Ground is soft but appears operable. Aspen is on it last leg.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		15	Sapling	1	7	Balsam Fir		Low	Variable	Sapling	
Black Spruce		15	Sapling	1	7						
Northern White Cedar		25	Pole/Log	9	105						
Balsam Poplar		5	Sapling	1	7						
White Pine		25	Sapling	1	7						
80	6124 - Lowland Spruce-Fir	Poletimber Medium	2.5	78	1-50	N/A	Stand has a perenial creek running through it.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		20	Pole/Sapling	5		Black Spruce		Medium	Variable	Sapling	
White Pine		10	Log	12		Balsam Fir		Medium	Variable	Sapling	
Northern White Cedar		40	Pole	7	78						
Balsam Fir		30	Pole/Sapling	6							
81	42210 - Natural Red Pine	Sawtimber Well	4.5	79	51-80	N/A	2024- Trace of white pine seeding in. Some red maple sprouts. 2020 - Stand was thinned in 2019. 2014 - Decent quality pine, white pine is fairly clean. Good diameter development, height are ok (6 sticks). Stand doesn't have much for advanced regen. Red pine is getting round topped and canopies are looking thin.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		60	Log	12	79	Balsam Fir		Trace	Variable	Sapling	
White Pine		35	Log/Pole	13		White Pine		Trace	< 5 feet	Sapling	
Red Oak		5	Log	13		Red Maple		Low	5 - 10 feet	Sapling	
82	42210 - Natural Red Pine	Sawtimber Medium	20.1	69	51-80	N/A	2024- Aspen is regenerating in pockets. White pine is slowly seeding in and there is a trace of red pine seedlings. Canopy looks healthy. Red pine canopy is made up of several age and size classes. 2017-stand was thinned in 2017, Old 66 Mix 61-154-16. Cut most of the aspen and jack pine out and thinned through the pine and oak. 2014-stand of mature red pine some of which are starting to top out. Stand has a couple of dry drains running through it. Large white pine and cedar along the drain.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		15	Log	14	106	Red Oak		Trace	5 - 10 feet	Sapling	
Red Maple		5	Pole	8		Red Maple		Low	5 - 10 feet	Sapling	
Red Pine		60	Log/Pole	12	69	Red Pine		Trace	< 5 feet	Sapling	
White Pine		20	Log	14		Quaking Aspen		Medium	5 - 10 feet	Sapling	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
83	6120 - Lowland Cedar	Sawtimber Well	10.4	95	111-140	N/A	Some super canopy white pine scattered throughout. Some balsam fir regeneration on the edges of the stand.																																												
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84	6120 - Lowland Cedar	Sawtimber Well	21.1	105	111-140	N/A	2024 - Well stocked cedar stand. Has a spring that feed a creek, goes underground at times. Very dense canopy.																																												
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86	42210 - Natural Red Pine	Sawtimber Well	6.4	79	81-110	N/A	2024- Good response to the thinning with mostly white pine seeding in. Some remant pine in the overstory. 2017-Stand was thinned in 2017, Old 66 Mix 61-154-16-01. 2014 -An uneven aged mixed natural pine stand. Stand is made up of some limby/poor quality white pine in the eastern tip that transitions to a higher quality stand towards the west made up of more clean red and white pine (6+ stick trees). Large diameter red and white pine mixed in amongst the stand as super canopy trees some of which are starting to get thin tops.																																												
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87	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	51.0	68	81-110	N/A	2024- Pockets of pole sized pine and advanced regen. stand has lots of size classes of pine. A lot of open grown pine and its fairly limby, moderate quality. BAs: 110, 120, 90, 110, 130.2014- Stand has mature pine in the overstory with younger aspen and softmaple mixed in (2-aged stand). Aspen and maple appear to be around 30 years old. Pockets of A5/R5/W5.																																												
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88	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.1	100	81-110	N/A	2014- Stand has a small creek running through the northern portion. Stand has less stocking in the eastern portion.																																												
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90	42110 - Planted Red Pine	Poletimber Well	206.0	57	141-170	N/A	2024- Pine is still fairly short with small diameters. Some gaps in the plantation and they are occupied by a mix of aspen, oak and mixed pine. Some remant red and white pine. BA: 160, 150, 120, 200, 150, 150, 180, 140, 140, 170, 160, 140, 150, 160. avg=144. 2014-Stand was row thinned in 2009. Tops have room to grow.																																																															
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91	42290 - Natural Mixed Pine	Sawtimber Medium	37.7	58	1-50	N/A	2024- overstory stocking is patchy. White pine is seeding in well. Patches of aspen and red maple in the canopy gaps. 2014 - Stand had all the deciduous tree removed in 2009, left all pine. Mixed red and white pine pole timber with an understory of aspen, oak, maple.																																																															
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93	42200 - Natural White Pine	Sawtimber Well	26.5	74	141-170	N/A	2024- Stand is on transition ground. Evidence of fire origination. Southern portion of the stand is below a small bluff. Northwest part of the stand has lower stocking and more open grown, lower quality, pine. More deciduous mixed into the canopy in the NW. BAs: 170, 120, 140, 130, 170.																																																															
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94	4199 - Other Mixed Upland Deciduous	Sapling Medium	105.2	6	Immature	N/A	2024 - Stand is starting to fill in. A decent amount of browse on the maple and oak. East end has a good amount of aspen regen. Pockets of 4-6" white pine. 2019- Stand was harvested in the fall of 2018 (245 Hill Top Oak 61-153-16-01). A few log sized oak trees were left for seed and shelter. Stand was chip harvested and is now a pretty clean site. Regeneration is coming along slowly but I think given more time come back. 2014 -Stand was harvested (shelterwood) 16 years ago cutting everything but the oak. Stand is now 2 aged with young aspen in the understory. extra ba 150. Quite a bit of red maple in the understory. Some white pine in the slopes and in the vallies. Some hilly terrain sloping to the west and to the north. A mix of pole and log sized trees. Poorer quality oak, rough and a lot of low forks (2-3 logs). Some individual tree die back. A vain of A3 in the eastern part of the stand. Northern portion of the stand has better stocking 100+ BA.																																																															
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97	4319 - Mixed Upland Forest	Poletimber Medium	46.6	47	1-50	N/A	2024- North part of the stand resembles an Oak /pine Barrens. White pine is filling the canopy gaps and understory. South part has filled in with Aspen, jack pine and white pine. stand has several age and size classes. 2014- Stand looks like it originated from a pretty intense burn and is filling back in. Stand is mostly scattered oak logs, white pine and red maple. There are some clones of bigtooth aspen and pockets of Jack pine (J6). Lots of old stumps with fire scars.																																																
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98	4199 - Other Mixed Upland Deciduous	Sawtimber Well	99.1	97	81-110	N/A	2024- white pine developing in the understory. Moderate terrain. Oak is of moderate quality and is probably a red/ black hybrid. Couldn't verify age of the oak (broke increment bore). Some younger oak stems, 2 or more ages classes. BA: 100, 100, 70 2014- Stand has a large oak component. It looks like all the oak was left stand when the aspen was cut 40 years ago hence there is O8 and O7 pockets as well as oak lightly scattered in the overstory. Aspen is of pretty good quality.																																																
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99	42200 - Natural White Pine	Sawtimber Well	15.0	63	141-170	N/A	2024- Well stocked stand. Evidence of fire history. BAs - 150, 170, 140, 160 2014- Moderate quality white pine. Northern portion was better stocked than the southern. Trees are mostly 4-5 sticks tall. Some scattered oak throughout.																																																
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100	122 - Road/Parking Lot	Nonstocked	0.2		Unspecified	No																																																	
101	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	4.4	106	81-110	N/A	2024 - stand of mature red and white pine. Stand has creek running through it. Large white pine and cedar along the drain.																																																
<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>30</td> <td>Log/Pole</td> <td>13</td> <td>106</td> </tr> <tr> <td>White Pine</td> <td>35</td> <td>Log</td> <td>14</td> <td>106</td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Log</td> <td>14</td> <td>106</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	30	Log/Pole	13	106	White Pine	35	Log	14	106	Red Oak	5	Log	14	106	Bigtooth Aspen	10	Log/Pole	10		Red Maple	20	Pole/Log	9		<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>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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103	6124 - Lowland Spruce-Fir	Sapling Poor	3.5	4	Immature	N/A	2024- Stand was a part of the adjacent lowland stand. Stand is slowly filling in. Most of the conifers are 1ft tall. 2022 - Stand was harvested in 2020. left all the cedar and hemlock as well as a few scattered white pine. Stand was difficult to harvest and had some rutting issues.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Sapling	1	4
Tamarack	10	Sapling	1	4
Northern White Cedar	5	Pole	8	109
White Pine	2	Log	14	
White Pine	10	Sapling	1	4
Balsam Fir	30	Sapling	1	4
Red Maple	20	Sapling	1	4
Hemlock	3	Pole	8	

104	4136 - Aspen, Mixed Conifer	Poletimber Well	7.5	60	81-110	N/A	2024- Some large mature pine and hemlock. 2014 - The stand stocking is variable. Thick balsam fir understory. Ground appears to be upland although is very hummocky. Some of the birch and aspen are starting to die out. Stand include an old camp site in the southwest corner that was a part of a consumers lease (m-117) that expired in 2011. The stand has more of a white pine component in the northern part, along the Manistee R.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	2	Log/Pole	12		Balsam Fir	High	Variable	Sapling
White Pine	15	Log/Pole	13					
Northern White Cedar	3	Pole	8					
Balsam Fir	15	Pole	6					
Quaking Aspen	45	Pole	8	60				
Red Maple	15	Pole	8					
Paper Birch	3	Pole	7					
Red Oak	2	Log	13					

105	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	5.7	5	Immature	N/A	2024 - Red maple has sprouted up quickly. Conifers are seeding in but are only are 1-2 ft tall. Scattered mature pine and cedar. Red maple sprouts are being browsed. 2020 - Stand was harvested in 2020. Cedar, hemlock and some scattered white pine were left. 2014 - Some decent quality balsam fir and pockets of black spruce. Stand has more of a cedar component in the northern part of the stand. Deer are using the stand a lot. Stock becomes less dense to the west along the flooding. Stand also has a intermittent Cr. running through the middle of it. There are also parts of the stand along the east line that have a higher deciduous component.
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	5	Sapling	1	5
Red Pine	5	Log	13	
White Pine	5	Pole/Sap/Log	8	
Northern White Cedar	10	Pole/Log	8	
Red Maple	40	Sapling	1	5
Balsam Fir	25	Sapling	1	5

107	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	9.7	60	51-80	N/A	2014 - The stand stocking is variable. Thick balsam fir understory. Ground appears to be upland although is very hummocky. Some of the birch and aspen are starting to die out. The stand has more of a white pine component in the northern part and along the Manistee R. Mix of upland and lowland. Several drainages.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	7		Balsam Fir	High	Variable	Sapling
Quaking Aspen	35	Pole	7	60				
Balsam Fir	25	Pole	6					
Paper Birch	5	Pole	7					