



# Compartment Review Presentation

## Crystal Falls Forest Management Unit

Compartment 12004

Entry Year: 2027

Acreage: 2,598

County: Dickinson

Management Area: Suomi Till and Outwash Plain

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**Stand Examiner:** Deb Goupell

### Legal Description:

T44N-R29W SECTIONS 5, 6, 7.

T44N-R30W SECTIONS 1, 2, 11 & 12.

### Identified Planning Goals:

Our management goals in this compartment are to develop age class distribution in aspen types. Maintain health of conifer types and increase acreage where possible. Develop the quality while maintaining diversity in hardwood types. Maintain buffers on lakes and streams and maintain and improve road system.

### Soil and topography:

A mix of Zimmermann fine sand, 18 to 35 percent slopes, rolling, excessively well drained soil on foot slopes, side slopes, and ridges and Pemene fine sandy loam, 6 to 18 percent slopes, gently rolling, well drained soil is on foot slopes, side slopes, and ridges in the uplands.

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

Ownership patterns in this compartment consist mostly of State lands with some company (Lyme Great Lakes) and private parcels and hunting camps. Lands in and around this compartment are used mainly for hunting and managed for forest products.

### Unique Natural Features:

Parmalee Lake, Floodwood Lakes, and Michigamme River.

### Archeological, Historical, and Cultural Features:

One identified in opening west of M-95

### Special Management Designations or Considerations:

None identified.

### Watershed and Fisheries Considerations:

100 foot buffers should be implemented around any lake, non-trout stream, and emergent wetland plus 5 feet per 1% increase of slope. An increased slope should also be considered when determining appropriate buffer. There are also wetland areas within this compartment (<https://www.mcgi.state.mi.us/wetlands/mcgiMap.html#>) If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

### Wildlife Habitat Considerations:

This compartment is the only large opening complex in the Ralph Management Area. It has been managed historically with fire and herbaceous plantings to discourage encroachment by trees and shrubs. The grassland associated species that this area is currently managed for once included sharp-tailed grouse and migrating geese. Herbaceous plantings meet forage needs of deer leaving the conifer cover of the Floodwood Deer Wintering Complex which incorporates this compartment. Oak and Hazel understory in aspen stands provide highly sought after mast for bear, deer, turkeys and grouse.

### Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel operation is roughly two miles north of the compartment. There is some potential for development of sand & gravel within the compartment on the uplands, but the compartment might be too far from populated areas (commercial markets) for any

aggregate resources present to have much value beyond use by the county road commission or DNR for local road maintenance. Some past test drilling for iron ore has occurred in the area, and while it appears likely that iron formations occur beneath the compartment, the depth and thickness of the formation and the grade of ore may make the minerals uneconomical to extract. Potential for the occurrence of other metallic and/or critical minerals is not known. There are active leases involving State-owned mineral rights three miles east of the compartment. Potential for commercial development of metallic minerals from beneath the compartment is considered low at this time, but this could change with additional investigations into the subsurface geology of the area.

**Vehicle Access:**

M-95, Floodwood Road, Khoury Road and associated woods roads.

**Survey Needs:**

Several needed.

**Recreational Facilities and Opportunities:**

Hunting and fishing.

**Fire Protection:**

**Additional Compartment Information:**

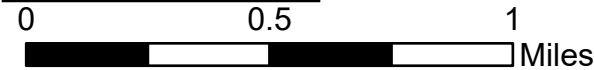
None.

















































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

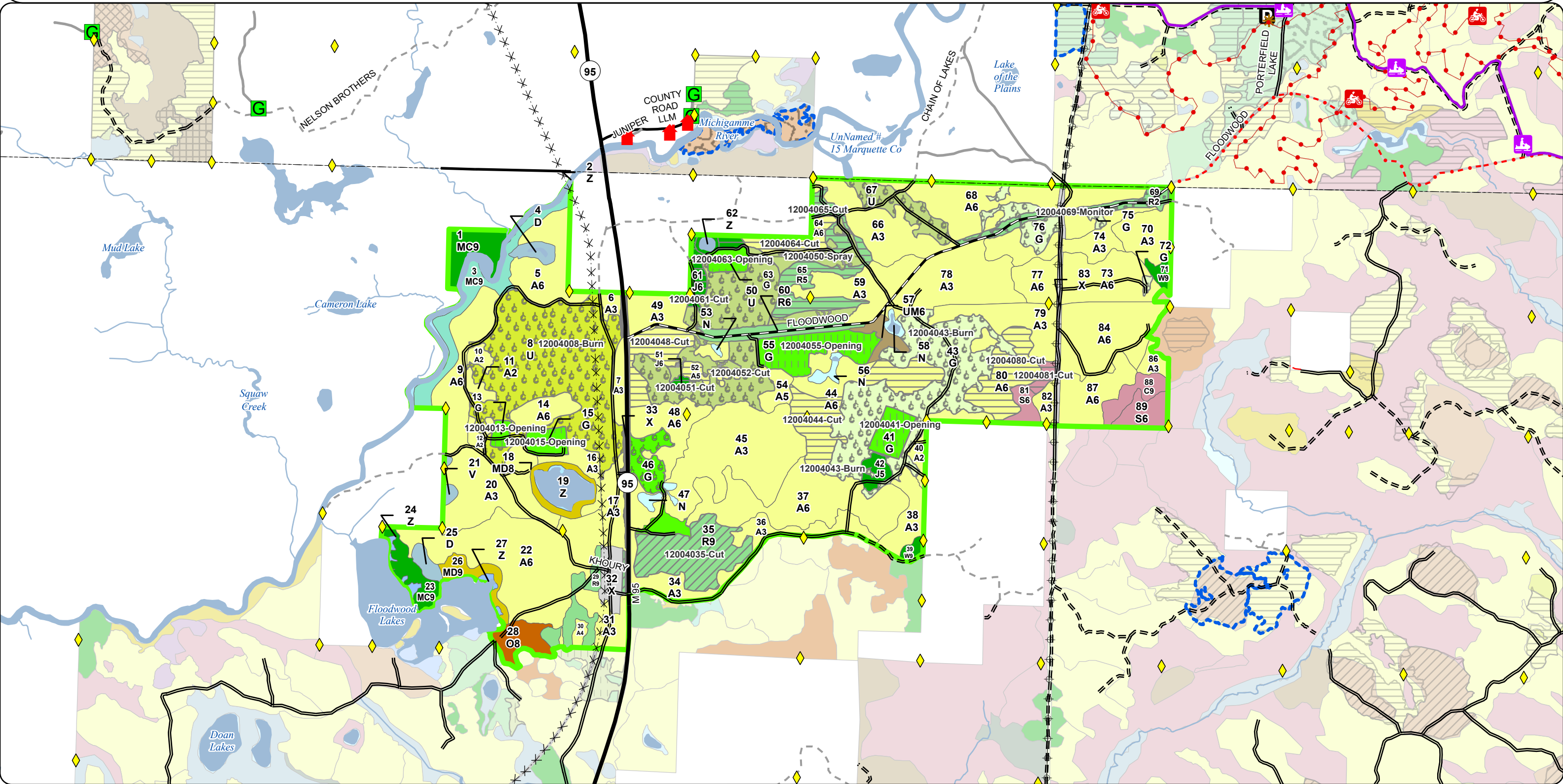
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**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**



- |  |   |   |   |   |
|--|---|---|---|---|
|  Survey Grade Corners           |  DNR - Forest Access Route               |  Powerline                   |  Treatments with Site Conditions   |  211 - Cropland              |
|  Cabin                         |  Federal / State Highway                 |  Lakes and Rivers           |  412 - Oak Types                  |  110 - Low Intensity Urban  |
|  Gate                         |  Federal / State / County - Paved Road |  Counties                  |  413 - Aspen                     |  122 - Road/Parking Lot    |
|  Parking Lot                  |  County - Gravel Road                  |  Compartment Boundary      |  419 - Mixed Upland Deciduous    |  310 - Herbaceous Openland |
|  Trailhead                    |  County - Dirt Road (Seasonal)         |  Clearcut                  |  421 - Planted Pines             |  320 - Upland Shrub        |
|  Designated Motorcycle Trails |  Private - Paved Road                  |  Thinning                  |  422 - Natural Pines             |  330 - Low Density Trees   |
|  Designated Snowmobile Trails |  Private - Dirt / Gravel Road          |  Prescribed Burn           |  429 - Mixed Upland Conifers     |  621 - Floating Aquatic    |
|  DNR - Primary Forest Road    |  Abandoned Railroads                   |  Pesticide                 |  430 - Upland Mixed Forest       |  622 - Lowland Shrub       |
|  DNR - Secondary Forest Road  |  Intermittent Stream                   |  Openings Mgmt.            |  500 - Water                     |  623 - Emergent Wetland    |
|  |  Perennial River                       |  Monitoring - Regeneration |  612 - Lowland Coniferous Forest |   |





# Cover Type & Treatments Map

Compartment: 12004  
T44N-R29W SECTIONS 5, 6, 7.  
County: Dickinson  
Unit: Crystal Falls  
Mgmt. Area: Suomi Till and Outwash Plain  
YOE: 2027  
Acres: 2,598 GIS Calculated  
Examiner: Deb Goupell  
Date Exported: 08/22/2025  
Map Phase: Web Post



0 0.5 1 Miles

Survey Grade Corners

DNR - Primary Forest Road  
DNR - Secondary Forest Road  
DNR - Forest Access Route  
Federal / State Highway  
Federal / State / County - Paved Road  
Private - Paved Road  
Private - Dirt / Gravel Road

Abandoned Railroads

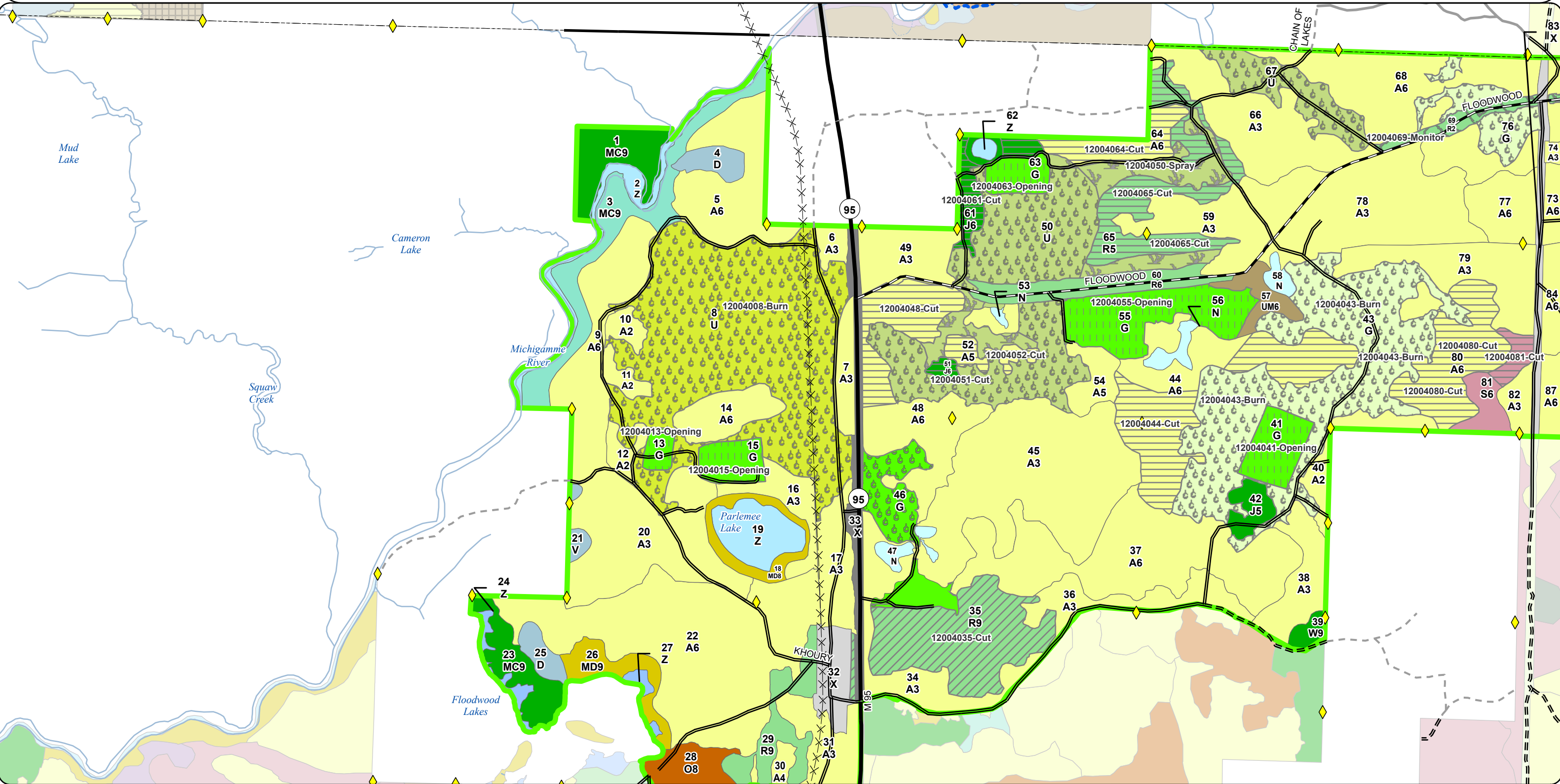
Intermittent Stream  
Perennial River  
Powerline  
Lakes and Rivers  
Counties  
Compartment Boundary  
Clearcut

Thinning

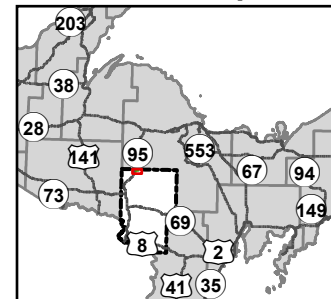
Prescribed Burn  
Pesticide  
Openings Mgmt.  
Monitoring - Regeneration  
Treatments with Site Conditions  
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413 - Aspen

419 - Mixed Upland Deciduous  
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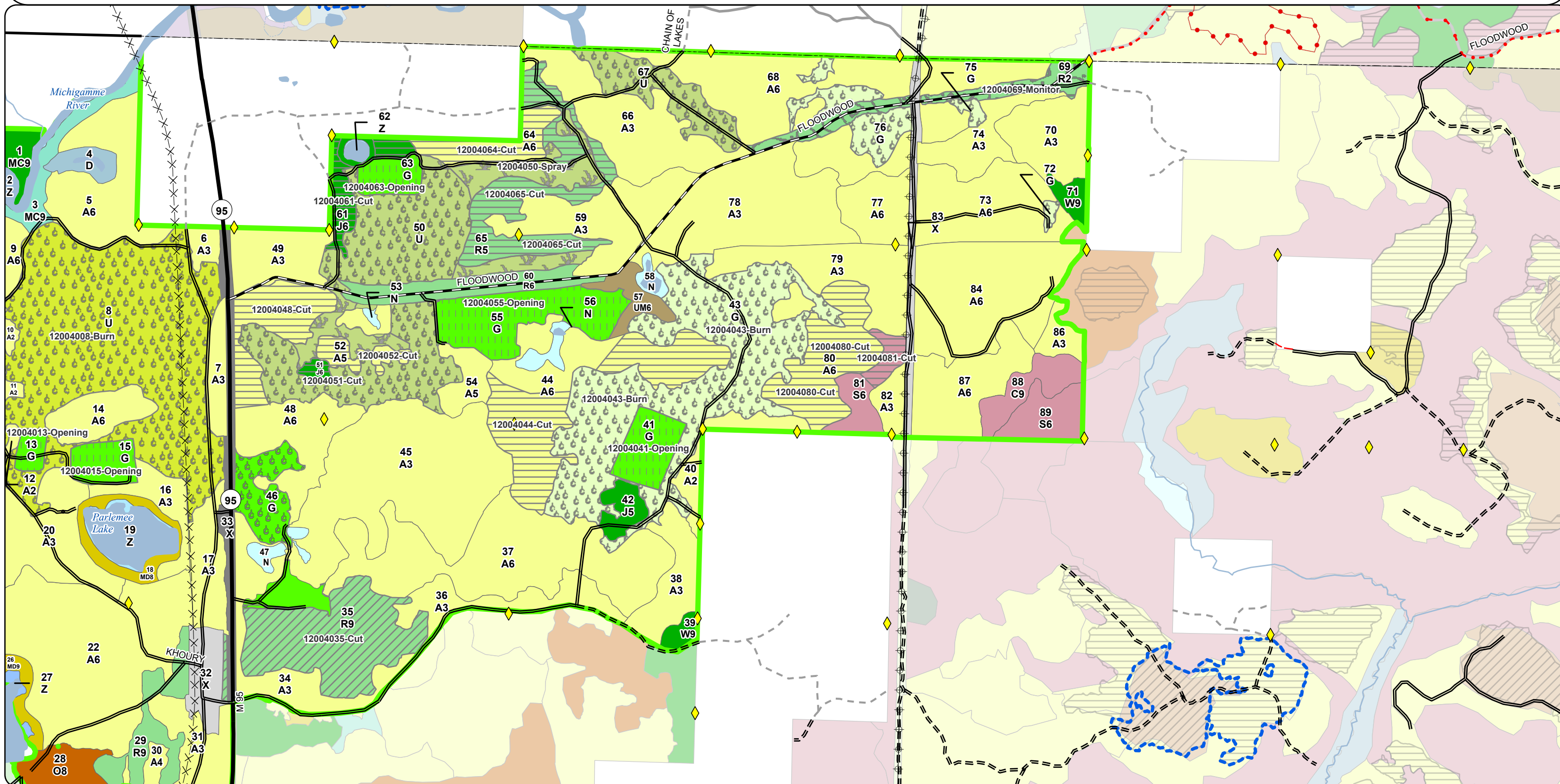
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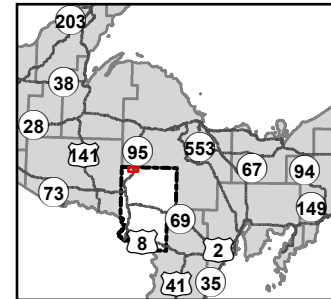
- Survey Grade Corners
- Designated Motorcycle Trails
- DNR - Primary Forest Road
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- Federal / State Highway
- Federal / State / County - Paved Road
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# Stand Boundary Map

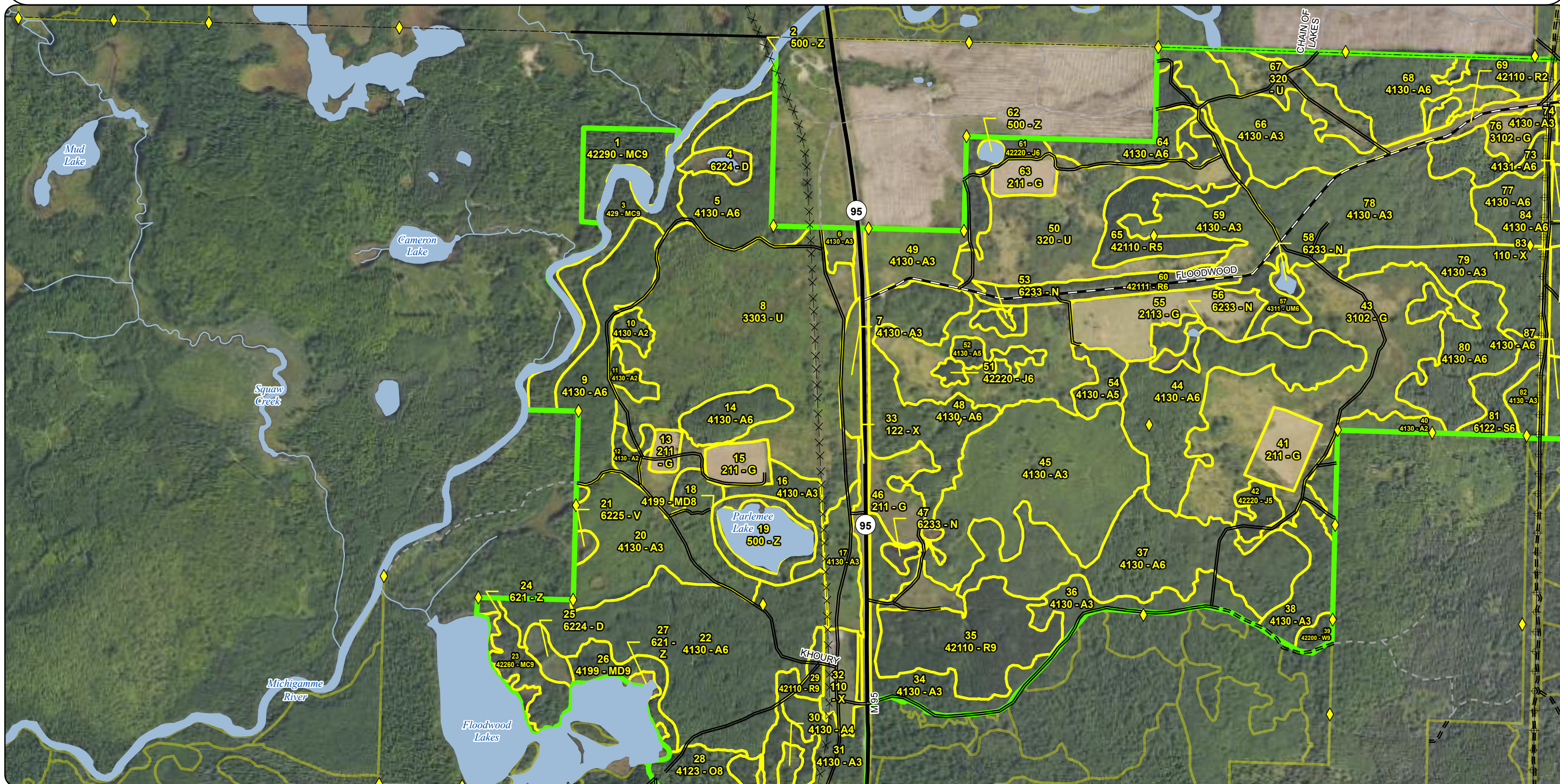


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0 0.5 1 Miles
















- Survey Grade Corners
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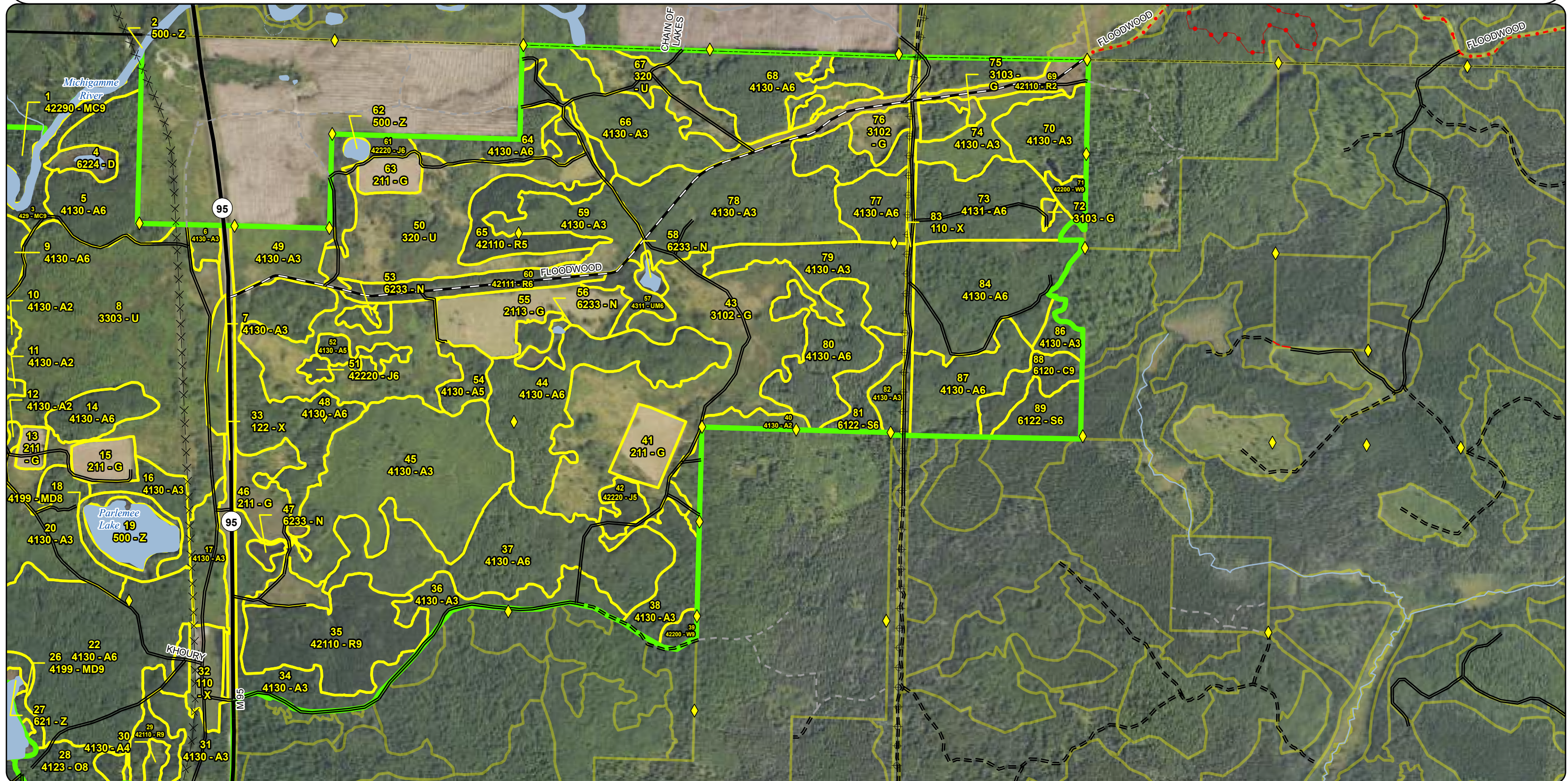






- |   |  |
|---|--|
|  Survey Grade Corners                    |  Abandoned Railroads    |
|  DNR - Primary Forest Road             |  Intermittent Stream  |
|  DNR - Secondary Forest Road           |  Perennial River      |
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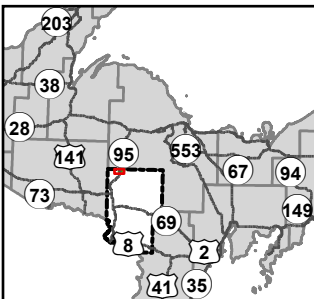
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# Special Conservation Areas & Site Conditions Map

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Plain  
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Examiner: Deb Goupell  
Date Exported: 08/22/2025  
Map Phase: Web Post



0 0.5 1 Miles

Survey Grade Corners

Private - Dirt / Gravel Road

Stand Boundaries

Abandoned Railroads

SCA

Intermittent Stream

Cold Water Streams

Perennial River

High Priority Trout Stream Buffer

Powerline

Deer Winter Range

Lakes and Rivers

Other Habitat Area

Counties

Compartment Boundary

DNR - Primary Forest Road

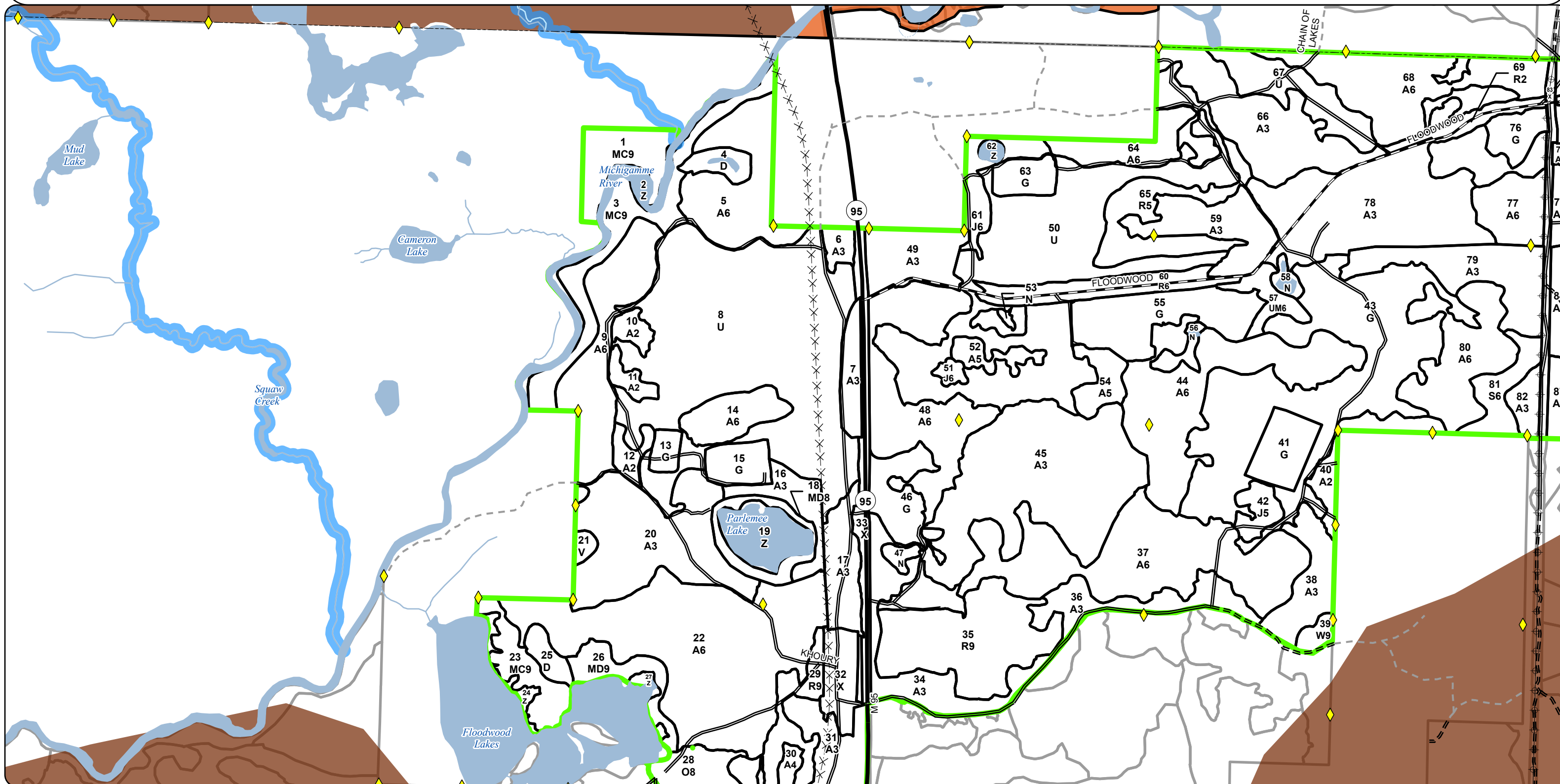
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Federal / State Highway

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Private - Paved Road





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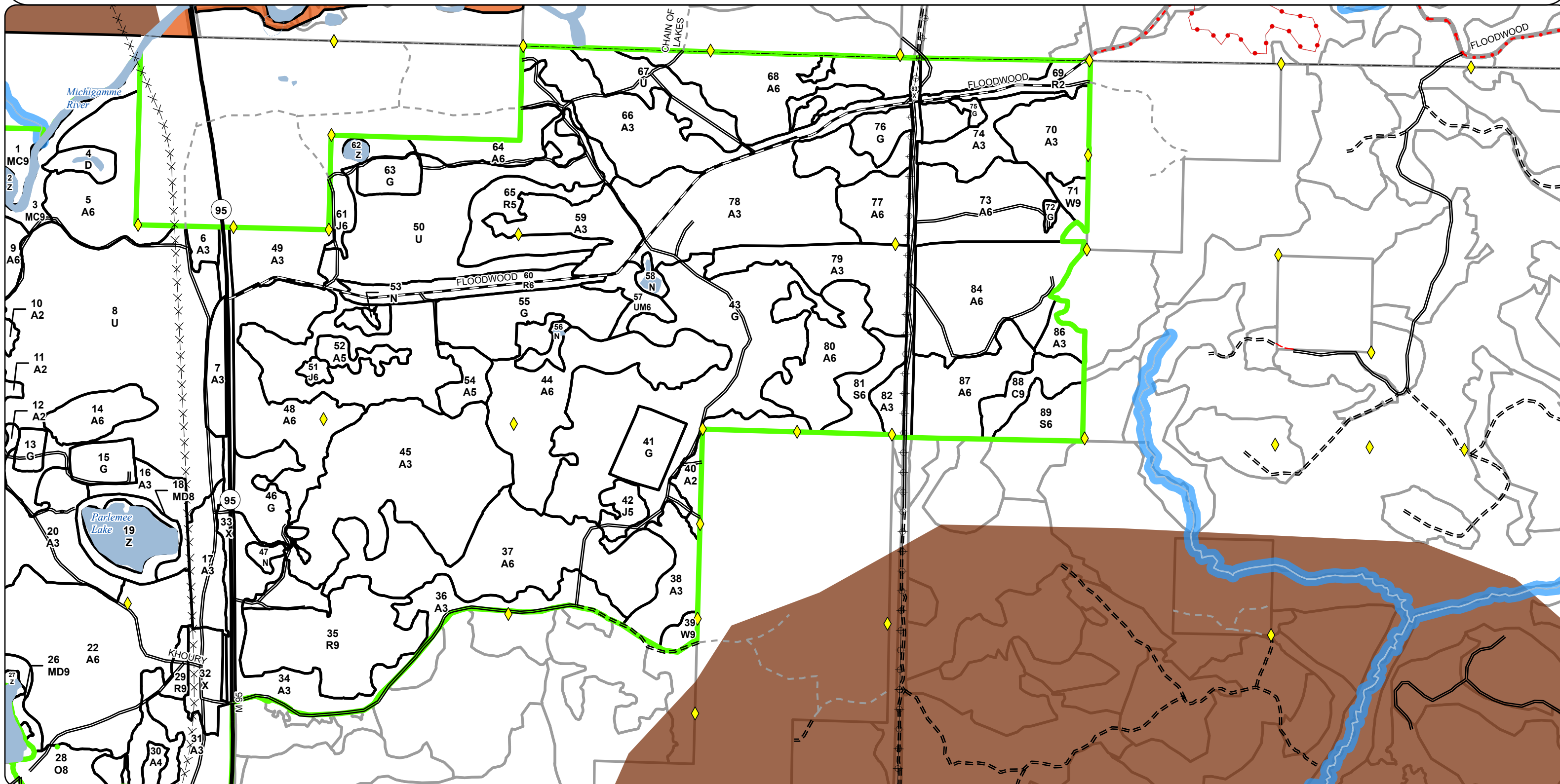


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- Counties
- Compartment Boundary

- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Other Habitat Area





# Report 1 – Total Acres by Cover Type and Age Class

Compartment 4

Year of Entry 2027



## Age Class

	NonForest	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	350	195	149	257	424	0	91	0	0	0	0	0	0	0	0	0	0	1466
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	15
Cropland	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
Herbaceous Openland	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
Jack Pine	0	0	0	0	0	12	0	15	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	32
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	15	0	0	0	11	0	0	0	0	0	0	0	0	26
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	42
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
Red Pine	0	22	0	0	63	0	0	82	0	0	0	0	0	0	0	0	0	0	167
Treed Bog	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Conifers	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	37
Upland Mixed Forest	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Shrub	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166
Urban	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Water	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
White Pine	0	0	0	0	0	0	0	0	0	0	6	4	0	0	0	0	0	0	10
Total	750	372	195	149	330	451	0	188	0	11	85	51	0	0	0	0	0	19	2599





## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 4  
Total Compartment Acres: 2,598

Commercial Harvest - 1018  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	144	0	0	0	0	0	0	0	0	144
Jack Pine	15	0	0	0	0	0	0	0	0	15
Lowland Spruce/Fir	6	0	0	0	0	0	0	0	0	6
Red Pine	41	0	0	0	0	61	0	0	0	101
Total	205	0	0	0	0	61	0	0	0	266

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	266	0	0	0	498	37	22	0	0	913
Next Step	0	0	291	0	498	366	885	0	0	2040
Total	266	0	291	0	995	403	907	0	0	2952





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:**

<b>8</b>	<b>12004008- Burn</b>	191.7	3303 - Mixed Low Density Trees	99			Burn	Prescribed Burn	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription Rx burn and/or mechanical opening maintenance

Specs:

Next Step Monitoring, Habitat Monitoring; Burn, Prescribed Fire

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 04/01/2026

<b>13</b>	<b>12004013- Opening</b>	5.2	211 - Cropland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription opening maintenance- disc, seed, fertilize, mow, burn, herbicide

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2025

<b>15</b>	<b>12004015- Opening</b>	11.7	211 - Cropland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription opening maintenance- disc, seed, fertilize, mow, burn, herbicide

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2025





Standard

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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35	12004035-Cut	60.6	42110 - Planted Red Pine	9	61	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin to 100 BA focusing on crop tree crown release. Mark only red pine, leaving other species for diversity. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
41	12004041-Opening	16.7	211 - Cropland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> opening maintenance- disc, seed, fertilize, mow, burn, herbicide <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
43	12004043-Burn	305.8	3102 - Grass	99			Burn	Prescribed Burn	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<u>Prescription</u> Rx burn and/or mechanical opening maintenance <u>Specs:</u> <u>Next Step</u> Monitoring, Habitat Monitoring; Burn, Prescribed Fire <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 04/01/2026											
44	12004044-Cut	52.3	4130 - Aspen	6	60	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest all trees 3" and up except red pine, white pine, cedar and oak. Leave all conifer in this stand. Also mark some representation of aspen/maple/overstory trees scattered throughout stand for diversity (can mark with green during cruise) Retent <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, mixed softwood, mixed hardwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>46 12004046-9-New</b>	8.5	211 - Cropland	99			Unspecified				No
<u>Prescription</u> <u>Specs:</u>  <u>Next Step</u> <u>Treatments:</u>  <u>Acceptable</u> <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>48 12004048-Cut</b>	26.7	4130 - Aspen	6	45	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final Harvest using 2" spec. No retention due to planting operations post harvest. <u>Specs:</u>  <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen <u>Treatments:</u> (3yr); Planting, Interplant  <u>Acceptable</u> Red Pine, Mixed conifers <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>50 12004050-Spray</b>	37.2	320 - Upland Shrub	99			Pesticide	Pesticide	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Herbicide, plant to Red Pine. Buffer vernal pond 100 feet. <u>Specs:</u>  <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Planting, Interplant; Pesticide, Aerial - Release; <u>Treatments:</u> Pesticide, Aerial - Release; Pesticide, Drone - Site Prep; Monitoring, Artificial Regen  <u>Acceptable</u> Red Pine, Mixed conifers <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2030										
<b>51 12004051-Cut</b>	2.8	42220 - Natural Jack Pine	6	45	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> final harvert no retention ; replant to red pine <u>Specs:</u>  <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen <u>Treatments:</u> (3yr); Planting, Interplant  <u>Acceptable</u> red pine <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										



Standard

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

52	12004052-Cut	7.9	4130 - Aspen	5	45	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final Harvest using 2" spec. No retention due to planting operations post harvest. Buffer vernal pond 100 feet. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen <u>Treatments:</u> (3yr); Planting, Interplant <u>Acceptable</u> Red Pine, Mixed conifers <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
55	12004055-Opening	38.2	2113 - Forage Crops	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> opening maintenance- disc, seed, fertilize, mow, burn, herbicide <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
61	12004061-Cut	12.3	42220 - Natural Jack Pine	6	60	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final Harvest using 2" spec. No retention due to planting operations post harvest. Buffer vernal pond 100 feet. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen <u>Treatments:</u> (3yr); Planting, Interplant <u>Acceptable</u> Red Pine, Mixed conifers <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
63	12004063-Opening	10.3	211 - Cropland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> opening maintenance- disc, seed, fertilize, mow, burn, herbicide <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											





Standard

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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64	12004064-Cut	18.0	4130 - Aspen	6	60	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final Harvest using 2" spec. No retention due to planting operations post harvest. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen <u>Treatments:</u> (3yr); Planting, Interplant <u>Acceptable</u> Planted Red Pine, Mixed conifers <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
65	12004065-Cut	40.7	42110 - Planted Red Pine	5	32	Immature	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final Harvest using 2" spec. No retention due to planting operations post harvest. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen <u>Treatments:</u> (3yr); Planting, Interplant <u>Acceptable</u> Red Pine, Mixed conifers <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
69	12004069-Monitor	21.5	42110 - Planted Red Pine	2	3	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Count Planted Pine <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Planted Red Pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
80	12004080-Cut	38.7	4130 - Aspen	6	49	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest all stems 3" and greater dbh. Retention has been requested by WLD in northwest lobe, reflected in treatment. Leave white pine, red pine, oak. Leave mature conifer along uncut swamp edge as available. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed aspen, mixed hardwood, mixed softwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											



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
81	12004081-Cut	5.7	6122 - Black Spruce	6	101	81-110	Harvest	Clearcut	612 - Lowland Coniferous Forest	Planting Record	No
<u>Prescription</u> Final harvest all stems 3" and greater dbh. Leave cedar, white pine, red pine, oak. <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u>  <u>Acceptable</u> Tamarack, Spruce, Mixed conifers, Mixed hardwoods <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026											

**Total Treatment** 912.5  
**Acreage Proposed:**





Availability for Management

Total Acres    Acres Available    Acres With Condition    Acres Not Available

Dominant Site Conditions

3H    3J    5E

1259	1229	0	30	Aspen		4	26
3	3	0	0	Bog			
15	0	0	15	Cedar	15		
110	110	0	0	Cropland			
158	158	0	0	Herbaceous Openland			
14	11	0	2	Jack Pine		2	
192	192	0	0	Low-Density Trees			
26	0	0	26	Lowland Spruce/Fir	26		
14	14	0	0	Marsh			
18	0	0	18	Mixed Upland Deciduous		18	
14	0	0	15	Natural Mixed Pines		15	
19	19	0	0	Oak			
166	166	0	0	Red Pine			
14	14	0	0	Treed Bog			
37	0	0	37	Upland Conifers		37	
10	10	0	0	Upland Mixed Forest			
166	166	0	0	Upland Shrub			
49	49	0	0	Urban			
44	42	0	2	Water		2	
10	6	0	4	White Pine	4		
2,338	2,189		149	Total Forested Acres	45	77	26
	94%		6%	Relative Percent			

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

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		3J: Water quality/BMPs (stream, river, or lake)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

## Report 4 – Site Conditions



2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Michigamme River.							
4	Unavailable	5E: Long-Term Retention	15	1C: Other Dept. or Div. process	Unspecified	Unspecified	Unspecified
<b>Comments:</b> saved per WLD request for roosts for turkey							
5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> WLD requests larger area around vernal for roost trees for turkey							





9	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand in good shape.							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand in good shape.							
13	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Held for turkey roost per WLD request							
14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100 foot buffer on Parmalee Lake.							



15	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100 foot buffer on Floodwood Lakes.							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
1	42290 - Natural Mixed Pine	Sawtimber Well	22.6	96	51-80	N/A																																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Pine</td><td>30</td><td></td><td>18</td><td>96</td><td>Red Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>20</td><td></td><td>10</td><td></td><td>Red Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Spruce</td><td>10</td><td></td><td>10</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>White Pine</td><td>40</td><td></td><td>16</td><td>96</td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	30		18	96	Red Pine	Low	5 - 10 feet	5 - 10 feet	Red Maple	20		10		Red Oak	Low	5 - 10 feet	5 - 10 feet	White Spruce	10		10						White Pine	40		16	96																						
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White Spruce	10		10																																																																			
White Pine	40		16	96																																																																		
2	500 - Water	None	15.0			No	Michigamme River.																																																															
3	429 - Mixed Upland Conifers	Sawtimber Well	36.7	96	81-110	N/A	OPIC - FMD: Buffer for Michigamme River.																																																															
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Paper Birch	10		10																																																																			
4	6224 - Treed Bog	None	7.5			No	OPIC - FMD: OI Stand Year Origin was 1929																																																															
5	4130 - Aspen	Poletimber Well	44.4	37	81-110	N/A	Cameron Lake TS 1988. Small inclusion BS south of bog. Saw a couple of red oak and red pine SE corner																																																															
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6	4130 - Aspen	Sapling Well	5.1	6	Immature	N/A	Parmalee Mix 2019																																																															
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8	3303 - Mixed Low Density Trees	None	191.7			No	Lots of cherry 1-8" dbh, red pine 5-12" dbh, aspen 1-7" dbh																																																															





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
9	4130 - Aspen	Poletimber Well	47.1	47	81-110	N/A	Scattered large white pine and a few oaks. Brushy understory; aspen ranges from 7-16"dbh																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>5</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>Quaking Aspen</td><td>95</td><td>Seedling</td><td>9</td><td>47</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Sapling	6		Quaking Aspen	95	Seedling	9	47	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Hazelnut (American)</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Hazelnut (American)	Medium	5 - 10 feet	5 - 10 feet	White Pine	Low	5 - 10 feet	5 - 10 feet
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10	4130 - Aspen	Sapling Medium	5.3	25	Immature	N/A	Very little conifer in here. Steep but harvestable.																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
26	4199 - Other Mixed Upland Deciduous	Sawtimber Well	14.7	45	81-110	N/A	Stand has slightly more oak than adjacent aspen stand, but should be cut with adjacent next entry. Lowland pocket in far northwest can also be cut. A few white pine in here.																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Tamarack</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Red Oak</td><td>25</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>20</td><td></td><td>9</td><td></td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Seedling</td><td>9</td><td>45</td></tr><tr><td>Black Spruce</td><td>5</td><td>Seedling</td><td>9</td><td></td></tr><tr><td>Paper Birch</td><td>10</td><td>Seedling</td><td>9</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Tamarack	10		10		Red Oak	25		12		Red Maple	20		9		Quaking Aspen	30	Seedling	9	45	Black Spruce	5	Seedling	9		Paper Birch	10	Seedling	9		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Hazelnut (American)</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Medium	10 - 20 feet	10 - 20 feet	Hazelnut (American)	Medium	5 - 10 feet	5 - 10 feet
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27	621 - Floating Aquatic	None	2.6			No																																													
28	4123 - Red Oak	Sawtimber Medium	19.3	90	51-80	N/A	Parmalee Mix cut 2019. Tiny pocket of RP in northwest. Oak BA: 50, 100, 90, 20. West end is heavier to solid oak, aspen is filling in east, pocket of lowland in north.																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>100</td><td></td><td>12</td><td>90</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	100		12	90	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Quaking Aspen</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Hazelnut (American)</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet	Hazelnut (American)	Medium	5 - 10 feet	5 - 10 feet	Red Oak	Low	5 - 10 feet	5 - 10 feet																	
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29	42110 - Planted Red Pine	Sawtimber Well	21.8	66	111-140	N/A	Thinned Parmalee Mix TS 2019																																												
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30	4130 - Aspen	Poletimber Poor	4.2	41	1-50	N/A	opening filling in with aspen/cherry																																												
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31	4130 - Aspen	Sapling Well	21.8	27	Immature	N/A	Pipe TS 1998. Trace amounts of oak saplings																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>75</td><td>Log</td><td>4</td><td>27</td></tr><tr><td>Balsam Poplar</td><td>15</td><td>Log</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	75	Log	4	27	Balsam Poplar	15	Log	4		White Pine	10		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Cherry (spp.)</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Cherry (spp.)	Medium	10 - 20 feet	10 - 20 feet	Red Maple	Low	10 - 20 feet	10 - 20 feet																
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32	110 - Low Intensity Urban	None	14.7			No	Floodwood Landing.																																												
33	122 - Road/Parking Lot	None	20.9			No	M-95.																																												





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
34	4130 - Aspen	Sapling Well	32.1	17	Immature	N/A	Parmalee Lake TS cut 2008. Good mixed stand of aspen, red maple, oak (saps, poles, scattered logs 10-12").Blackberry along road. Some autumn olive		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	10		10		Hazelnut (American)	Medium		5 - 10 feet	5 - 10 feet
Quaking Aspen	70	Log	2	17					
Red Pine	5		12						
Red Maple	15	Log	2						
35	42110 - Planted Red Pine	Sawtimber Well	60.6	61	111-140	N/A	OPIC - FMD: OI Stand Year Origin was 1964. Thinned 1990. Two Line Mix TS thinned 2019.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100		10	61	Cherry (spp.)	Low		5 - 10 feet	5 - 10 feet
					Red Maple	Low		5 - 10 feet	5 - 10 feet
					Quaking Aspen	Medium		>20 feet	>20 feet
					Hazelnut (American)	Low		5 - 10 feet	5 - 10 feet
					White Pine	Low		5 - 10 feet	5 - 10 feet
36	4130 - Aspen	Sapling Well	24.1	17	Immature	N/A	Parmalee Lake Mix TS cut 2008. Good mixed stand of aspen, red maple, oak (saps, poles, scattered logs 10-12")		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	95	Log	1	17	Cherry (spp.)	Low		10 - 20 feet	10 - 20 feet
Red Pine	5		10		Hazelnut (American)	Medium	5 - 10 feet	5 - 10 feet	
37	4130 - Aspen	Poletimber Well	94.7	37	81-110	N/A	Floodwood Landing TS cut 1988. Very little conifer		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	80	Seedling	7	37	White Pine	Trace		5 - 10 feet	5 - 10 feet
Red Oak	10		10		Cherry (spp.)	Medium		10 - 20 feet	10 - 20 feet
Red Maple	10	Sapling	5		Hazelnut (American)	Medium	5 - 10 feet	5 - 10 feet	
38	4130 - Aspen	Sapling Well	22.1	27	Immature	N/A	Clay TS cut 1998. scattered large oak and white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	10		12		Hazelnut (American)	Medium	5 - 10 feet	5 - 10 feet	
Red Pine	5		12						
Quaking Aspen	65	Log	3	27					
White Pine	5		14						
Red Maple	15	Log	3						
39	42200 - Natural White Pine	Sawtimber Well	4.3	101	81-110	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Pine	70		18	101	Quaking Aspen	Medium	>20 feet	>20 feet	
Red Pine	25		20	101	White Pine	Medium	5 - 10 feet	5 - 10 feet	
White Spruce	5		8		Hazelnut (American)	Low	5 - 10 feet	5 - 10 feet	
					Red Maple	Low	5 - 10 feet	5 - 10 feet	





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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
78	4130 - Aspen	Sapling Well	81.7	15	Immature	N/A	Floodwood Aspen TS cut 2009. Trace amounts of white birch 2" dbh along county road																																													
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79	4130 - Aspen	Sapling Well	36.9	35	Immature	N/A	Powerline Aspen TS cut 1990																																													
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80	4130 - Aspen	Poletimber Well	42.7	49	51-80	N/A																																														
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81	6122 - Black Spruce	Poletimber Well	15.2	101	81-110	N/A	Cedar pocket in middle of stand. Stream located to South.																																													
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82	4130 - Aspen	Sapling Well	7.5	16	Immature	N/A	Floodwood Aspen TS cut 2009																																													
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83	110 - Low Intensity Urban	None	13.2			No	POWER LINE AND SNOWMOBILE TRAIL. Extremely rocky and portions of wet = use ATV																																													
84	4130 - Aspen	Poletimber Well	68.1	27	Immature	N/A	Tin Shack TS cut 1998. What little conifer is in the stand is only along the road																																													
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