

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61153

Entry Year: 2027

Acreage: 2,919

County: Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Paul Roell

Legal Description:

T27N, R6W, Sec31. T26N, R6W, Sec. 6. T26N, R7W, Sec. 28. T25N, R7W, Sec. 1, 12, 14, 21 & 22. T25N, R8W, Sec. 3, 4, 8, 9 & 10.

Identified Planning Goals:

Management in the High Sand Plains area will emphasize continuing to provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

Rubicon Sand, Rifle Peat, Emmit Sandy Loam & others. All types of Topography found in the county can be found in this compartment.

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

This compartment is spread out in small blocks across five townships. Much of the compartment is surrounded by and or adjacent to private land. Land use is relatively high throughout the compartment with the main use recreation. (Hunting, ORV, Fishing and boating along the Manistee River)

Unique Natural Features:

There are several historical observations throughout the different blocks of the compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Manistee River

Watershed and Fisheries Considerations:

The Manistee River, Maple Creek, and Twenty Eight Lake are within Compartment 153. The Manistee River is a State-Designated Natural River. Both the Manistee River and Maple Creek are Designated Trout Streams. A 2003 fisheries survey of Maple Creek showed naturally reproducing populations of brook trout and brown trout. Also, Maple Creek provides cold water to the Manistee River, and spawning and rearing habitat for migratory trout from the Manistee River.

Wildlife Habitat Considerations:

This compartment consists of scattered parcels of state ownership in four different geographic townships of central Kalkaska County. Consequently, compartment 153 exhibits a wide variety of glacial landforms, including several types of outwash plain (poorly drained and pitted) and dry, sandy moraine ridges. Wildlife habitat types found within this compartment include; bogs, lowland brush, coniferous and deciduous lowlands, and lowland aspen on the poorly drained soils; northern hardwoods, red pine plantations, and upland aspen on the ridges and pitted plains. The pitted outwash plain gets its name from the numerous kettle depressions found there. These depressions support various wetland communities as well as bodies of water. This matrix of lowland communities with forested ridges provides a valuable transition between habitats that benefits many wildlife species such as deer, bear, bobcat, Keen's bat, Cooper's hawk, and eastern box turtle. Treatments for this compartment and entry period are focusing on red pine and aspen. Where applicable aspen cuts will incorporate the use of scattered black cherry or other mast producing trees as residuals, and the creation of coarse woody debris. Small openings and some upland brush communities are inter-mixed within the various forested stands and provide some herbaceous browse and mast producing shrubs and trees. Some species found in these early to mid-successional communities include: white-tailed deer, ruffed grouse, eastern bluebird, smooth green snake, long-tailed

weasel, and red-tailed hawk.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the state. No active gravel pits are located in the area, but potential is considered good on the uplands. The compartment is south of the prolific Niagaran reef trend. The compartment is mostly surface rights only, but most of the State minerals are currently leased.

Vehicle Access:

We need legal access to the Twenty Eight Lakes area.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no designated recreational facilities within this compartment.

Fire Protection:

DNR Protection is provided by the Kalkaska Field Office.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

Cover Type & Treatments Map

Compartment: 61153

County: Kalkaska
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2027
Acres: 2,919 GIS Calculated
Examiner: Paul Roell
Date Exported: 7/1/2025
Map Phase: Web Post



0 0.5 1 2 3 4 Miles

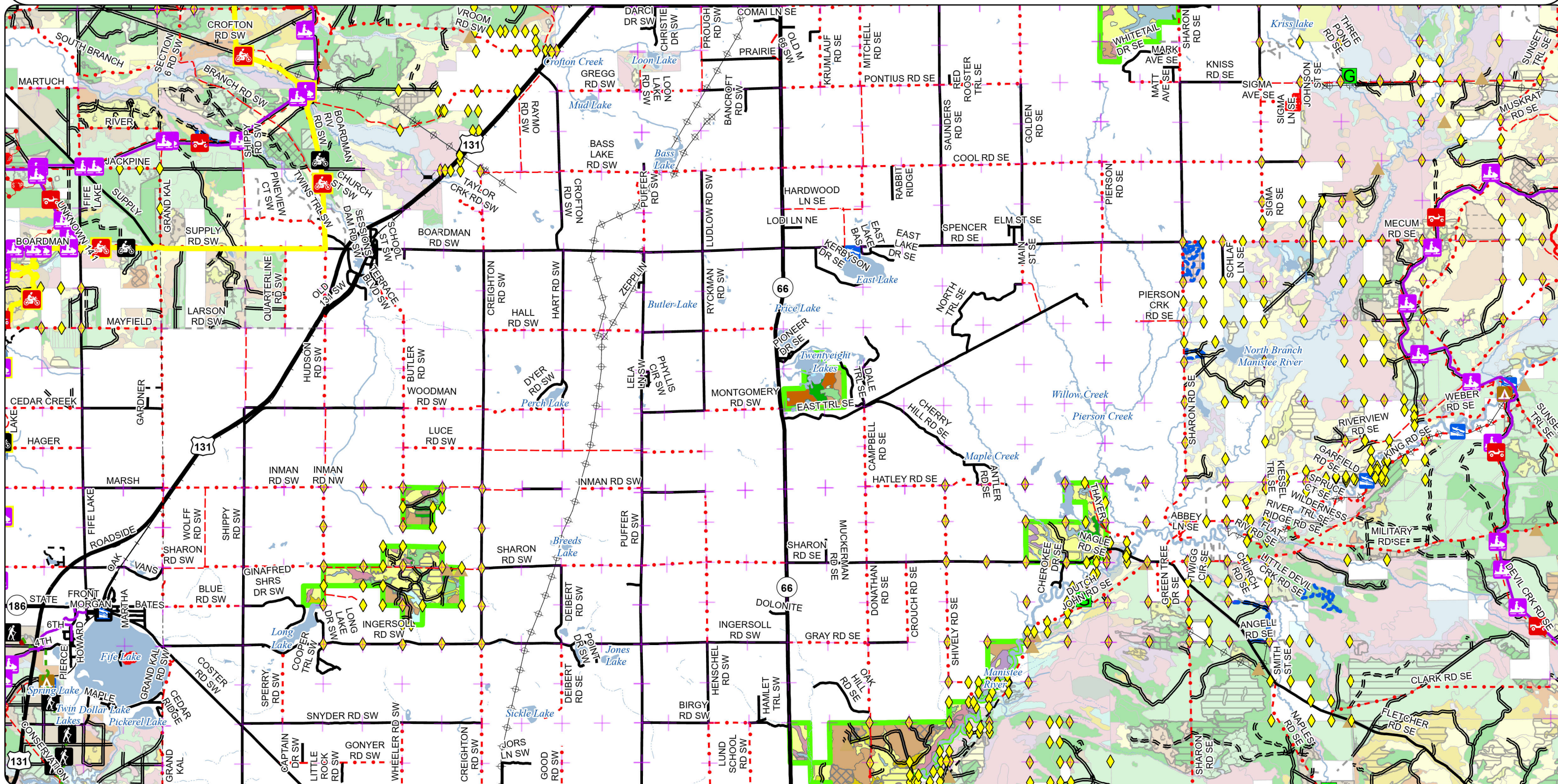
- Remunemented Section Corners
- Survey Grade Corners
- Toilet
- Airport
- Berms
- Gate
- Boating Access Site
- Bridges
- Culvert

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

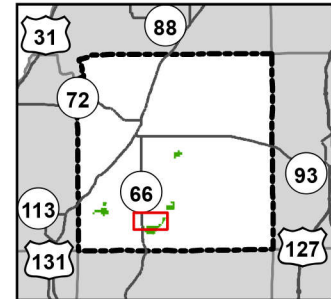
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- DNR - Management Access
- Active Railroads
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Powerline
- Compartment Boundary

- Clearcut
- Selection
- Openings Mgmt.
- Monitoring - Regeneration
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines

- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map



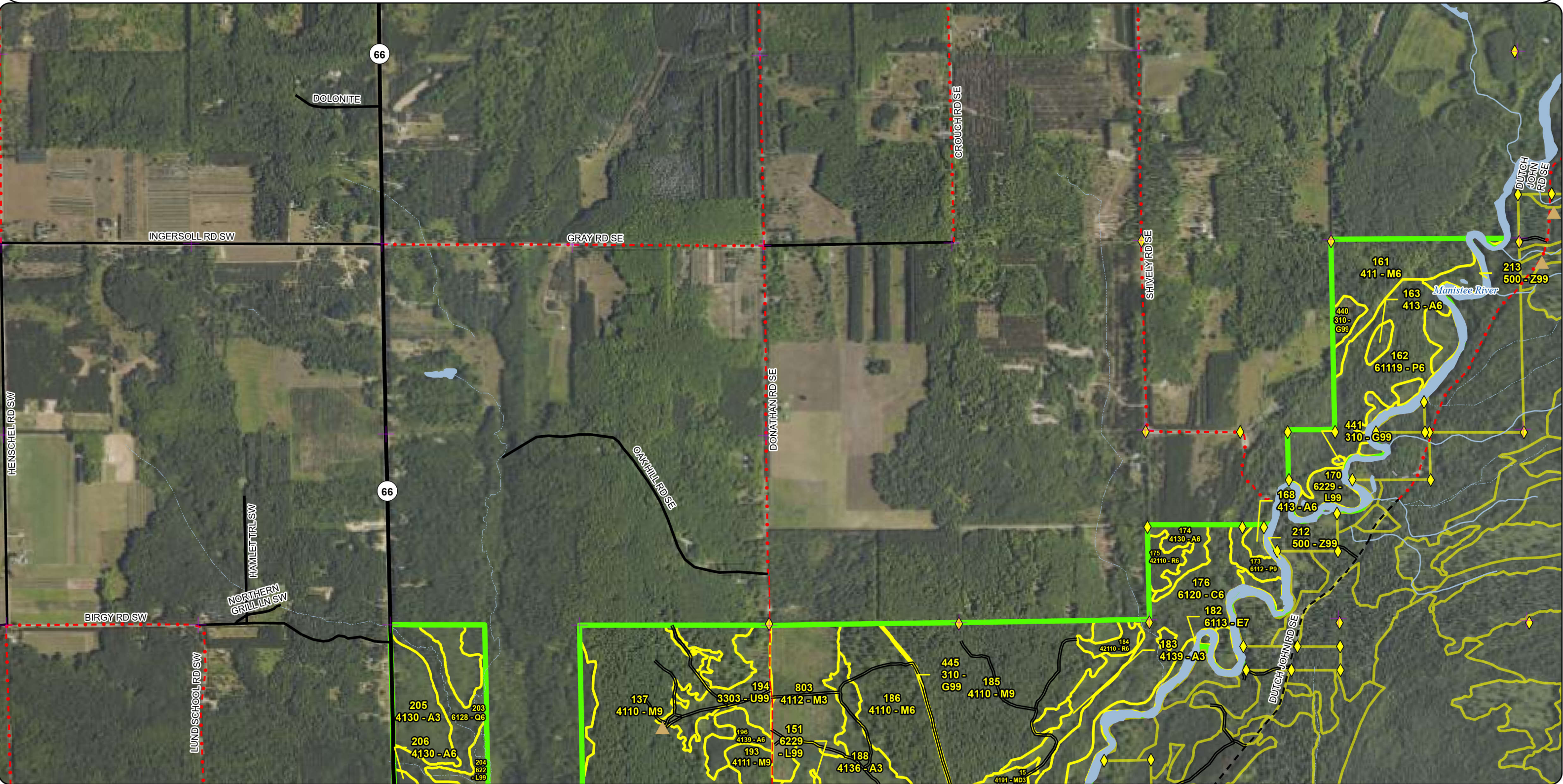
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- Remonumented Section Corners
- Survey Grade Corners
- Berms
- DNR - Secondary Forest Road
- Federal / State Highway

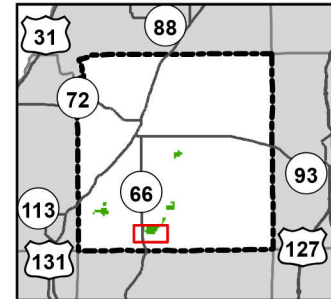
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
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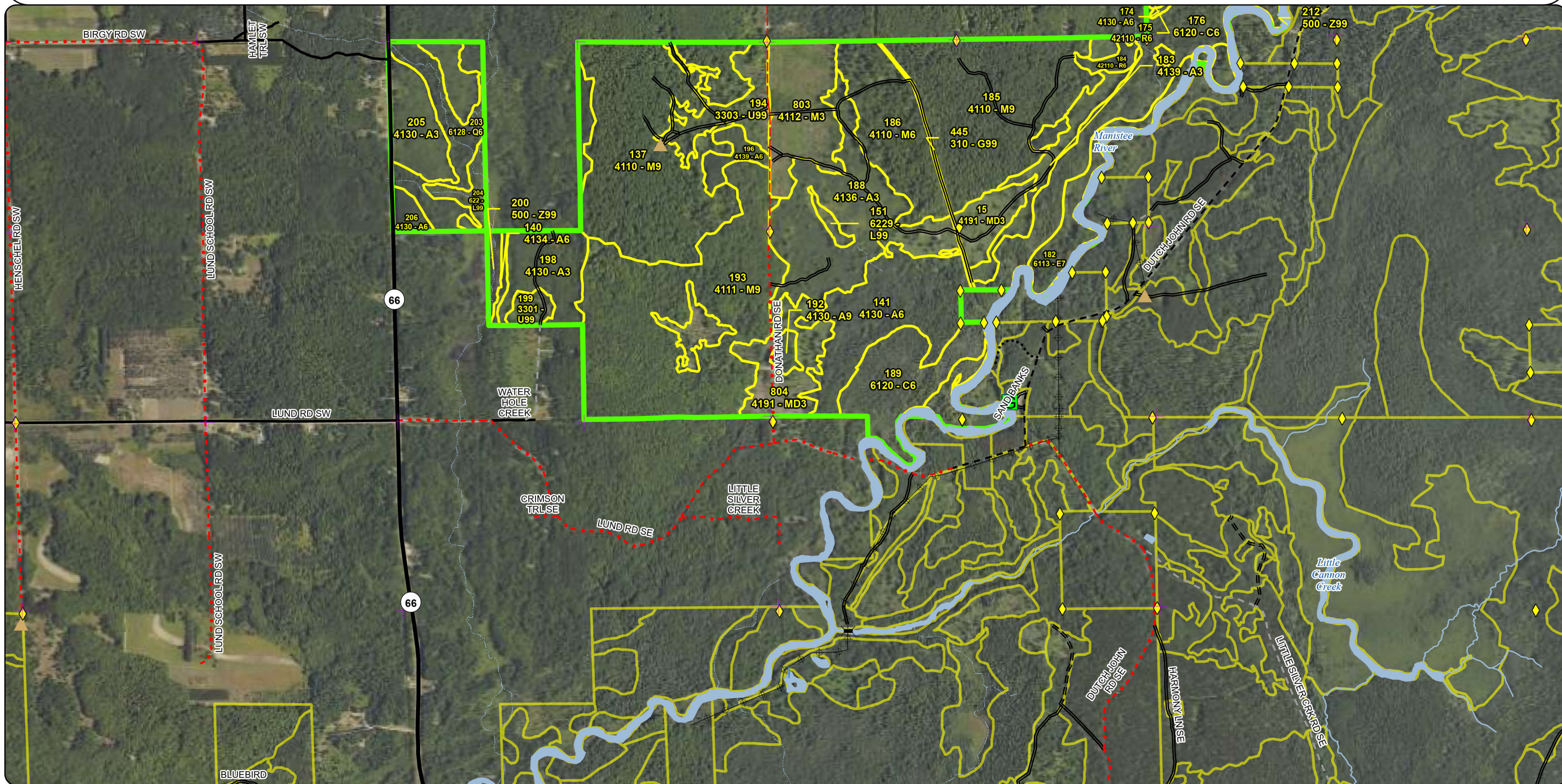
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- Bridges
- Culvert

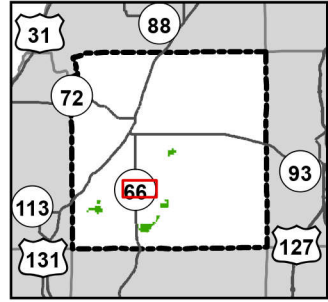
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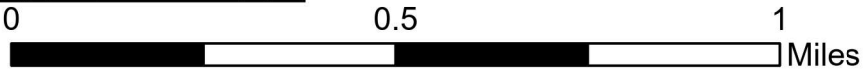
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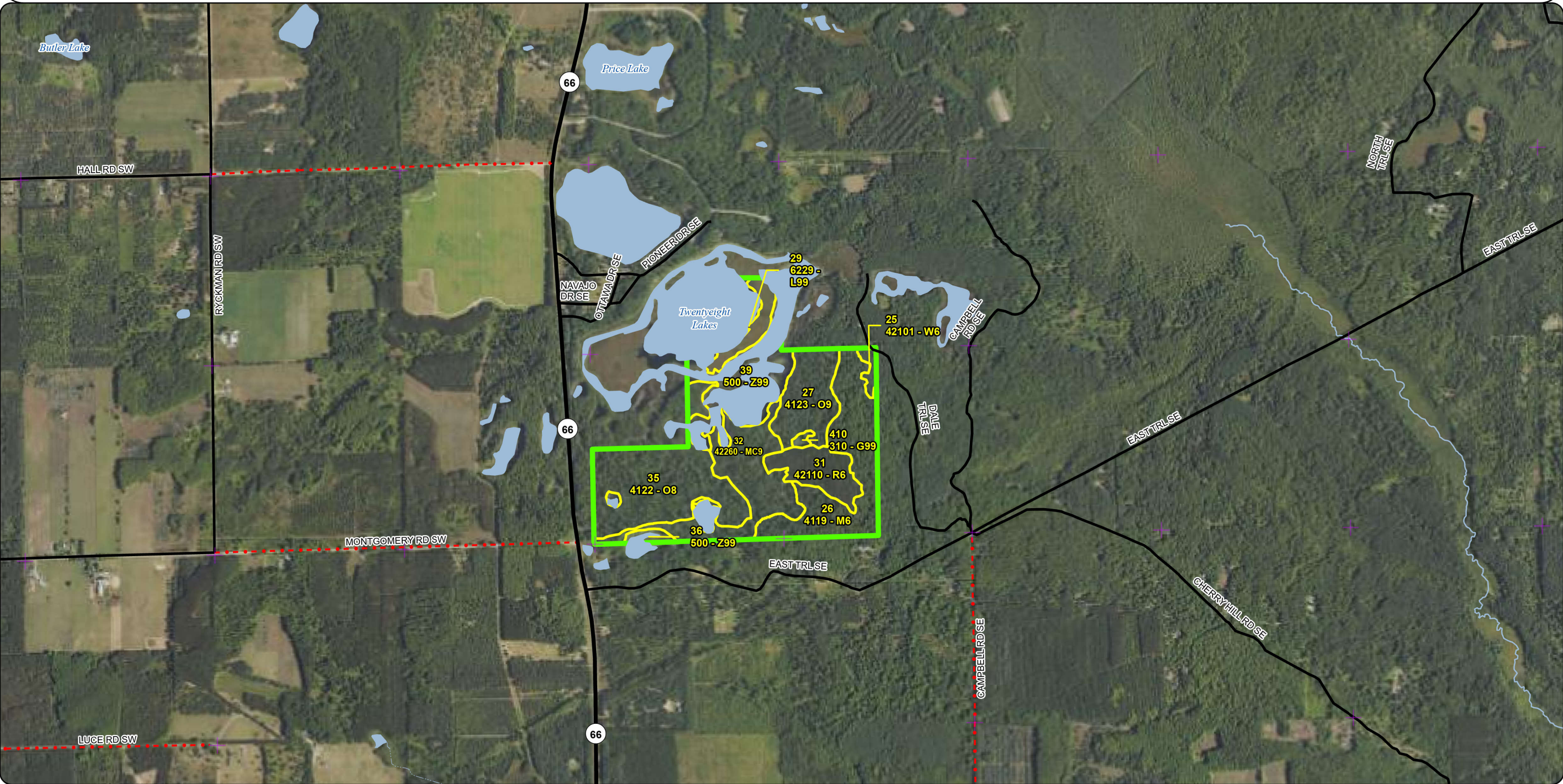


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T26N R07W 28
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- Remonumented Section Corners
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- 411 - Northern Hardwood
- 412 - Oak Types

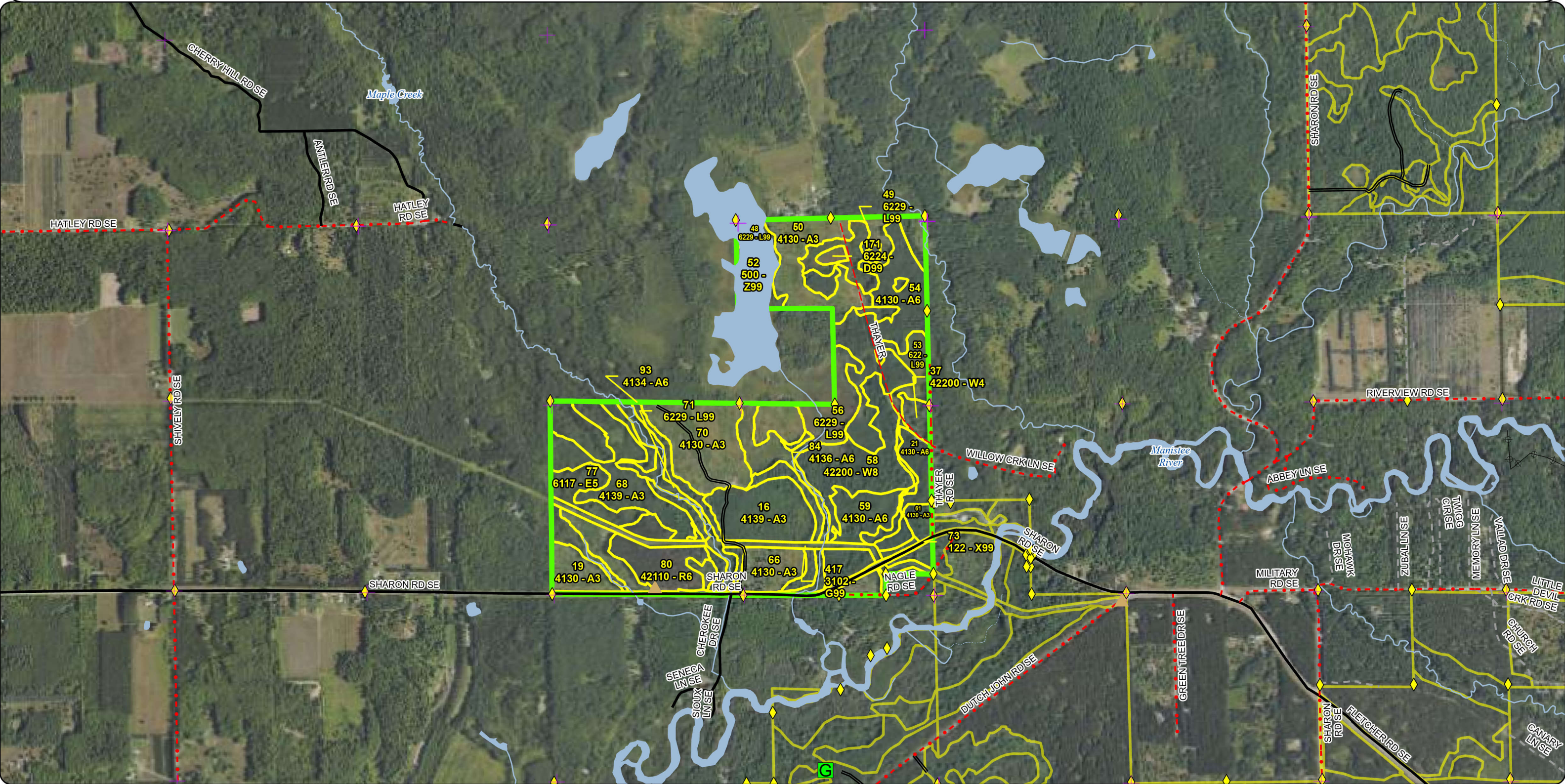
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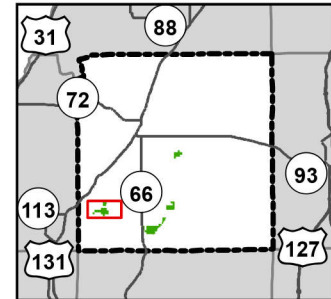


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|---|------------------------------|---|---------------------------------------|---|----------------------|
|  | Remonumented Section Corners |  | Federal / State / County - Paved Road |  | Lakes and Rivers |
|  | Survey Grade Corners |  | County - Gravel Road |  | Counties |
|  | Berms |  | County - Dirt Road (Seasonal) |  | Powerline |
|  | Gate |  | Private - Dirt / Gravel Road |  | Compartment Boundary |
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| | |  | Perennial River | | 421 - Planted Pines |

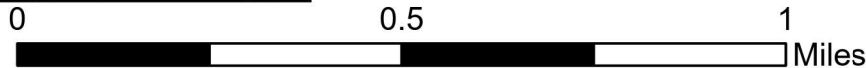
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Stand Boundary Map



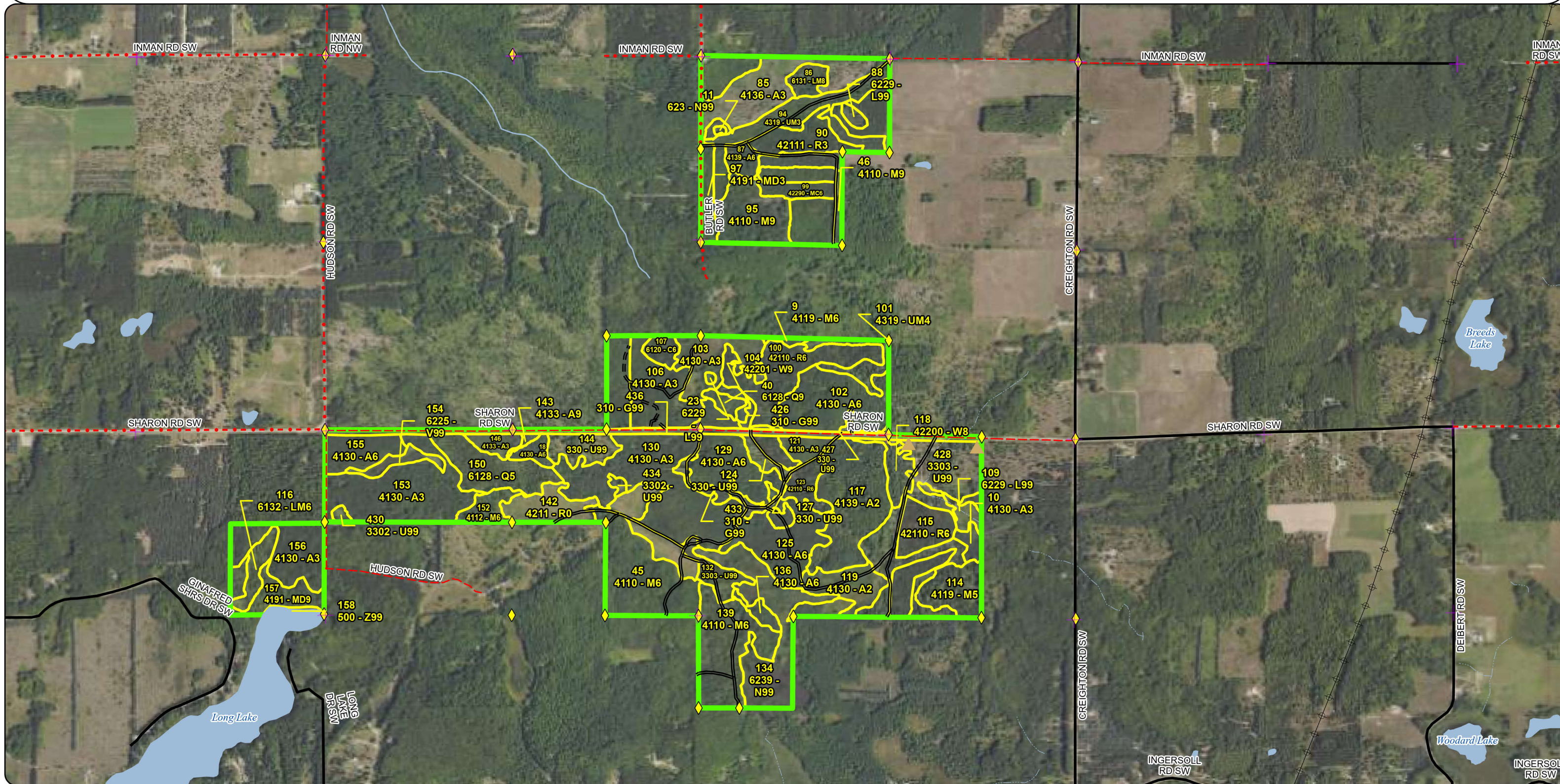
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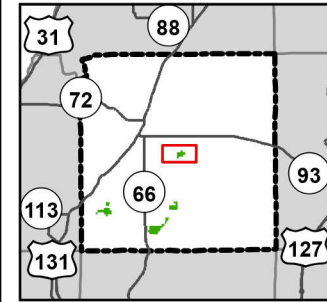
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0 0.5 1 Miles

+ Remonumented Section Corners

◆ Survey Grade Corners

— Federal / State / County - Paved Road

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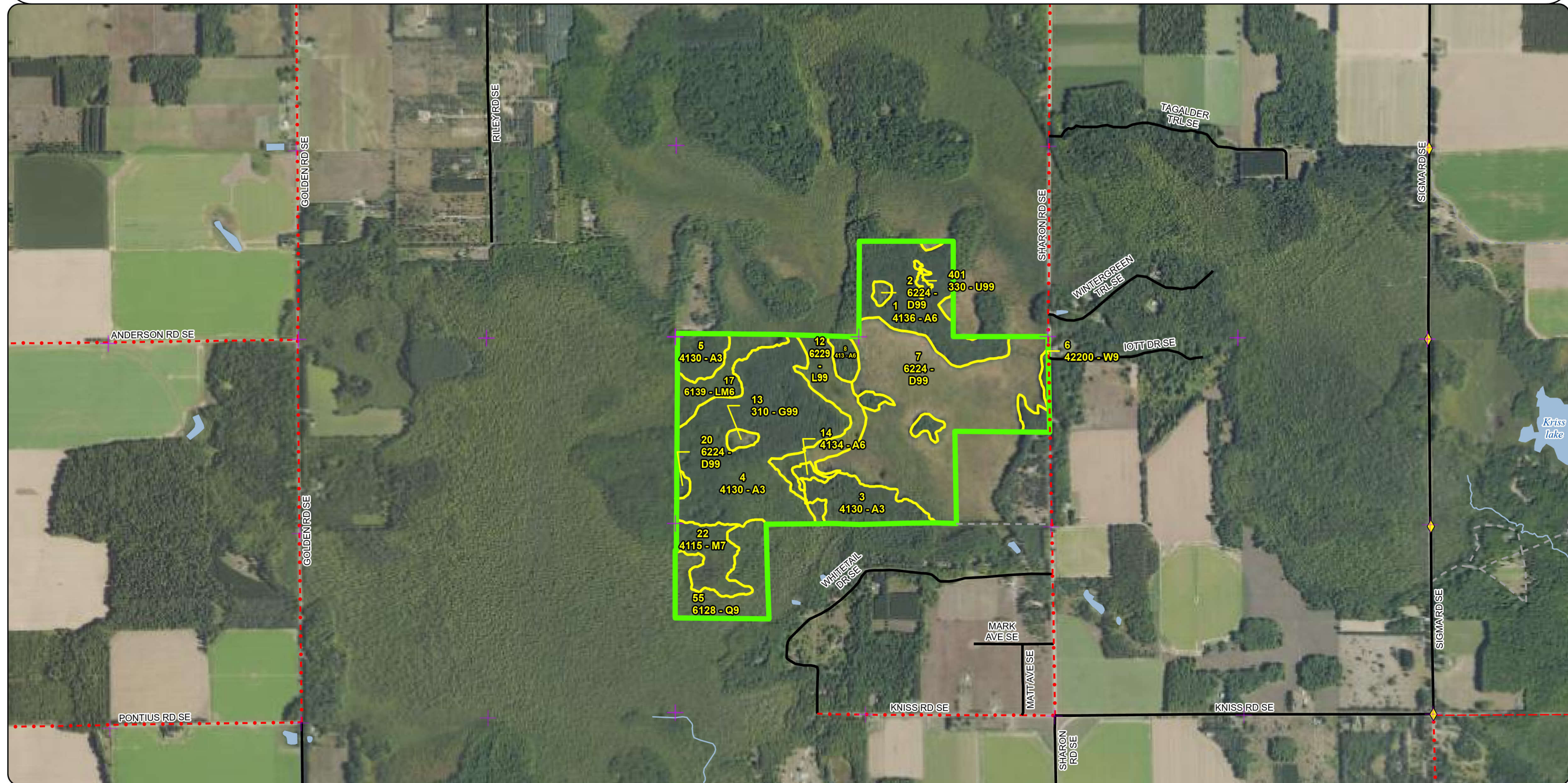
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Special Conservation Areas & Site Conditions Map

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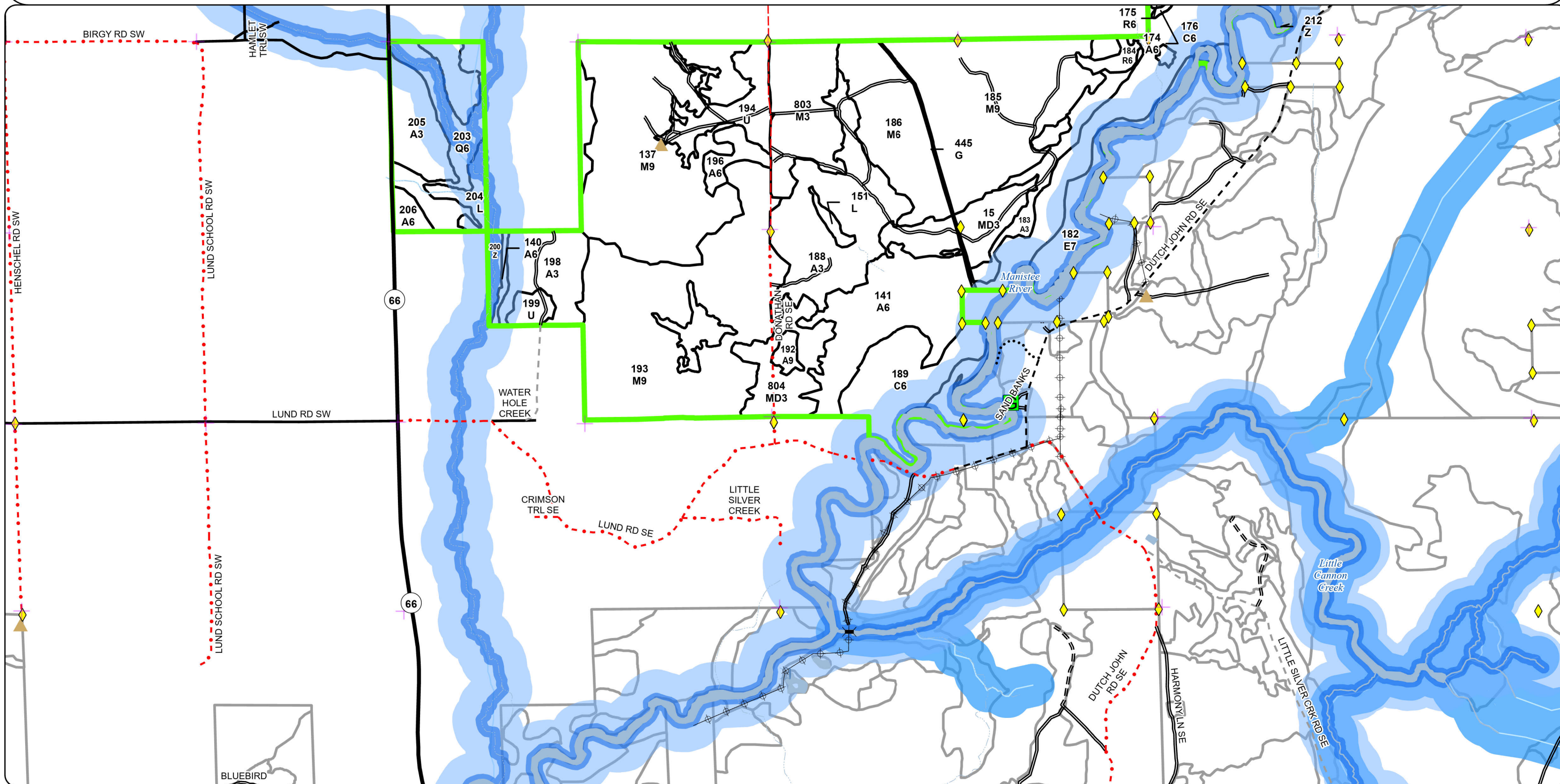
0 0.5 1 Miles

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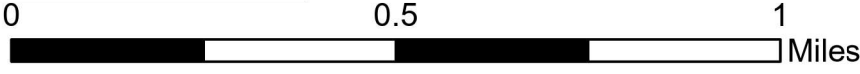
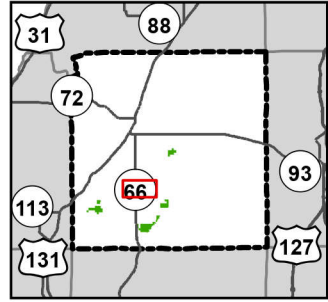
- Private - Dirt / Gravel Road
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- Compartment Boundary
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer

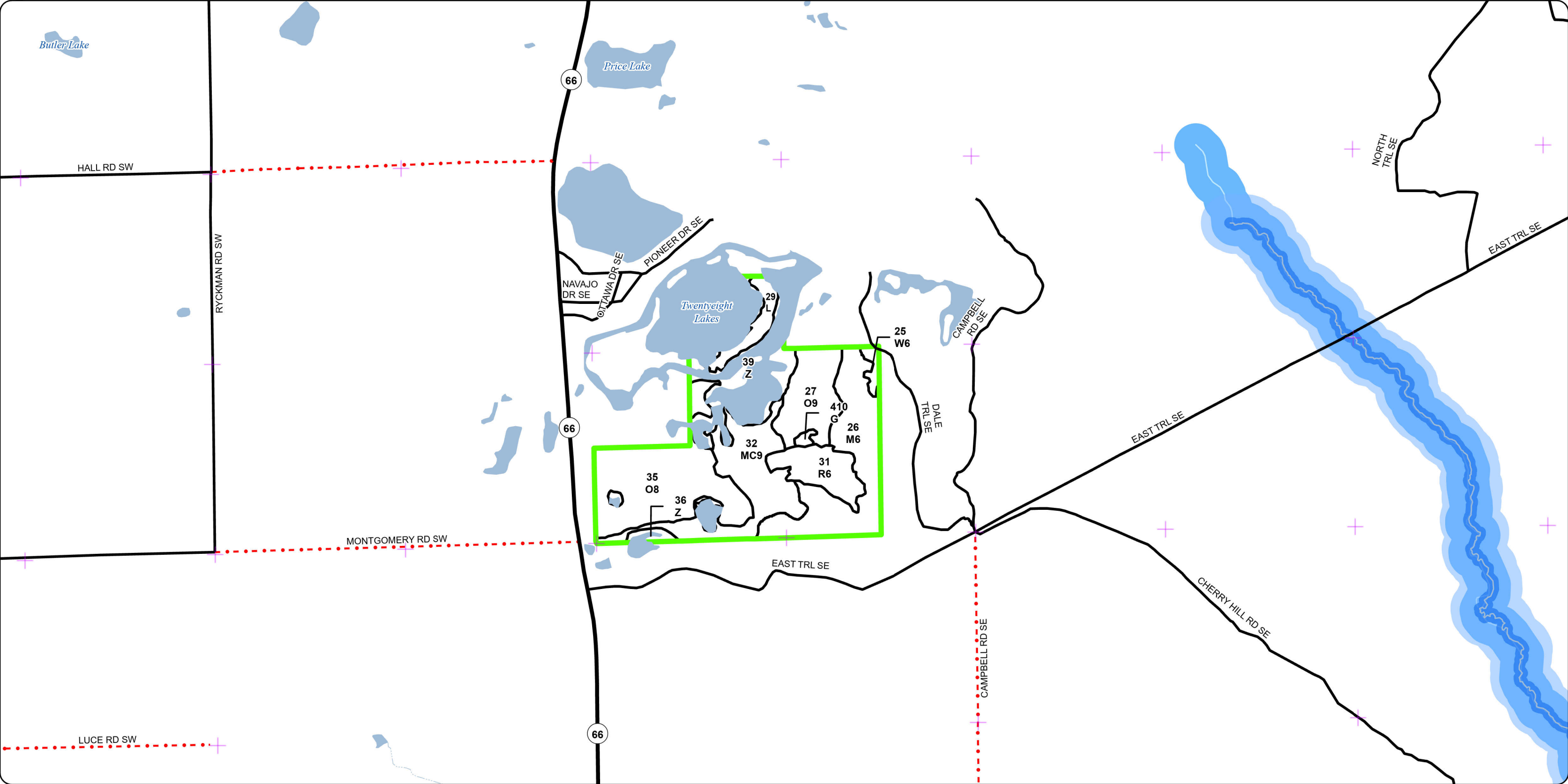


**Special Conservation Areas
& Site Conditions Map**

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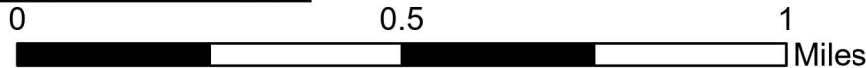
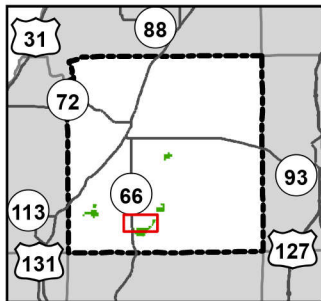


- Remonumented Section Corners
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- County - Gravel Road

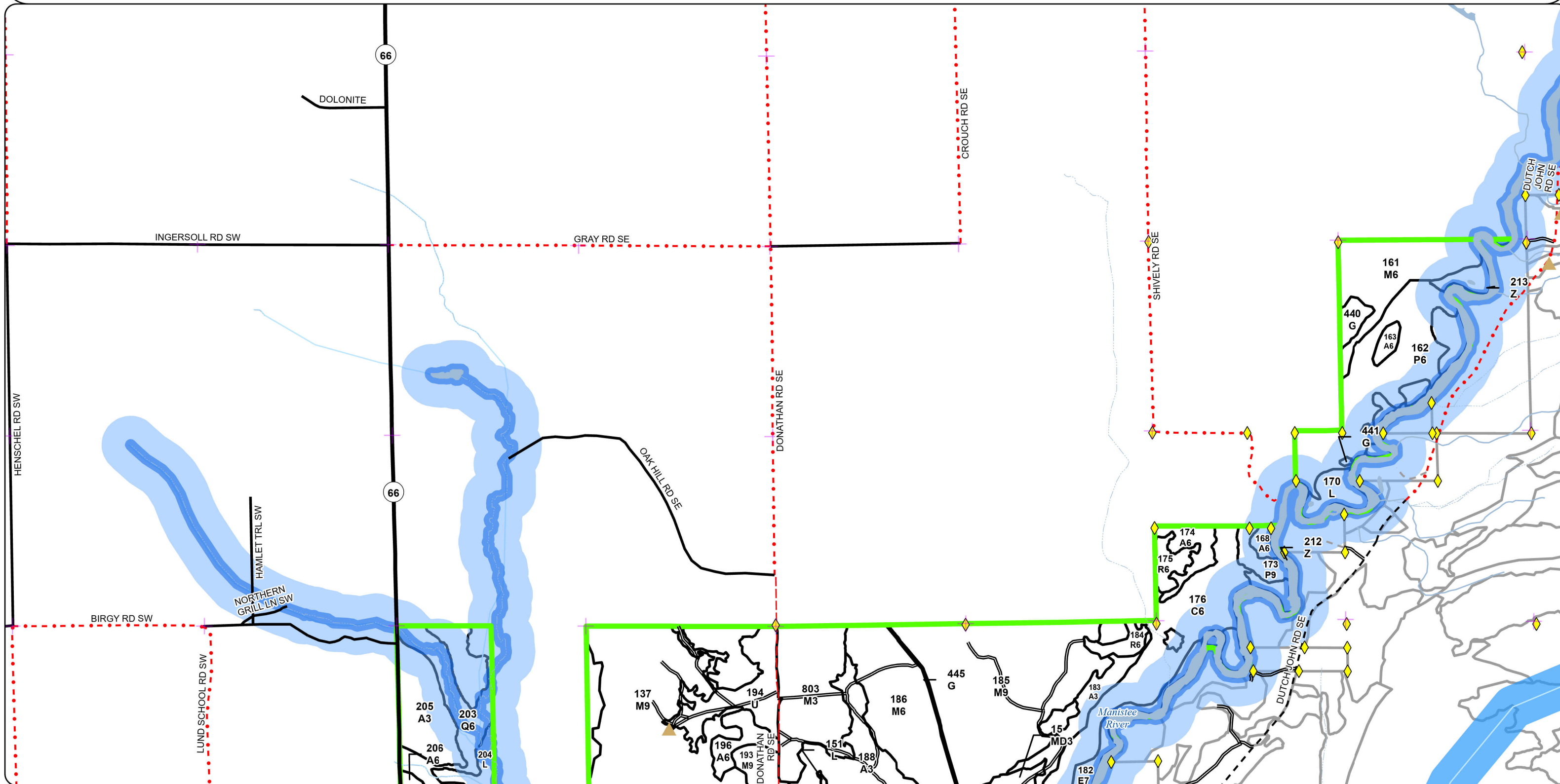


Special Conservation Areas & Site Conditions Map

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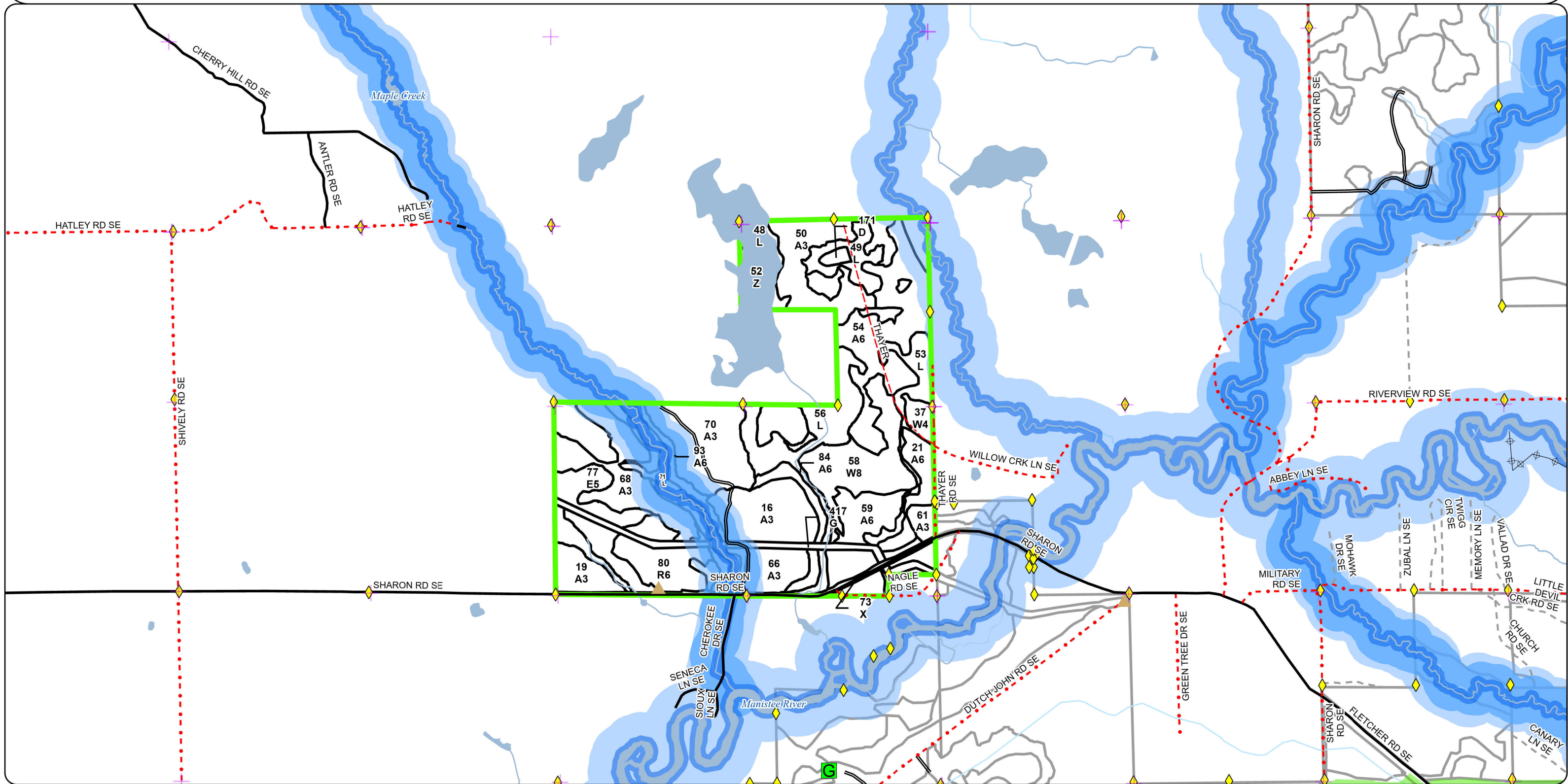
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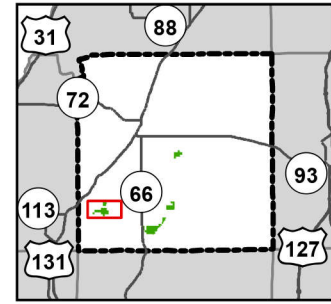
A horizontal scale bar with a black outline. It is divided into four segments by three vertical tick marks. The segments alternate in color: black, white, black, and white. Above the bar, the numbers 0, 0.5, and 1 are placed at the first, second, and third tick marks respectively. To the right of the bar, the word "Miles" is written.

- | | | | | | |
|---|---------------------------------------|---|-------------------------------|---|-----------------------------------|
|  | Remonumented Section Corners |  | County - Dirt Road (Seasonal) |  | Stand Boundaries |
|  | Survey Grade Corners |  | Private - Dirt / Gravel Road |  | Natural Rivers Vegetative Buffer |
|  | Berms |  | Intermittent Stream |  | Natural Rivers Zoning District |
|  | Gate |  | Perennial River |  | Cold Water Streams |
| | |  | Lakes and Rivers |  | High Priority Trout Stream Buffer |
|  | DNR - Secondary Forest Road |  | Counties |  | Kirtland's Warbler Habitat |
|  | Federal / State / County - Paved Road |  | Powerline | | |
|  | County - Gravel Road |  | Compartment Boundary | | |



Special Conservation Areas & Site Conditions Map

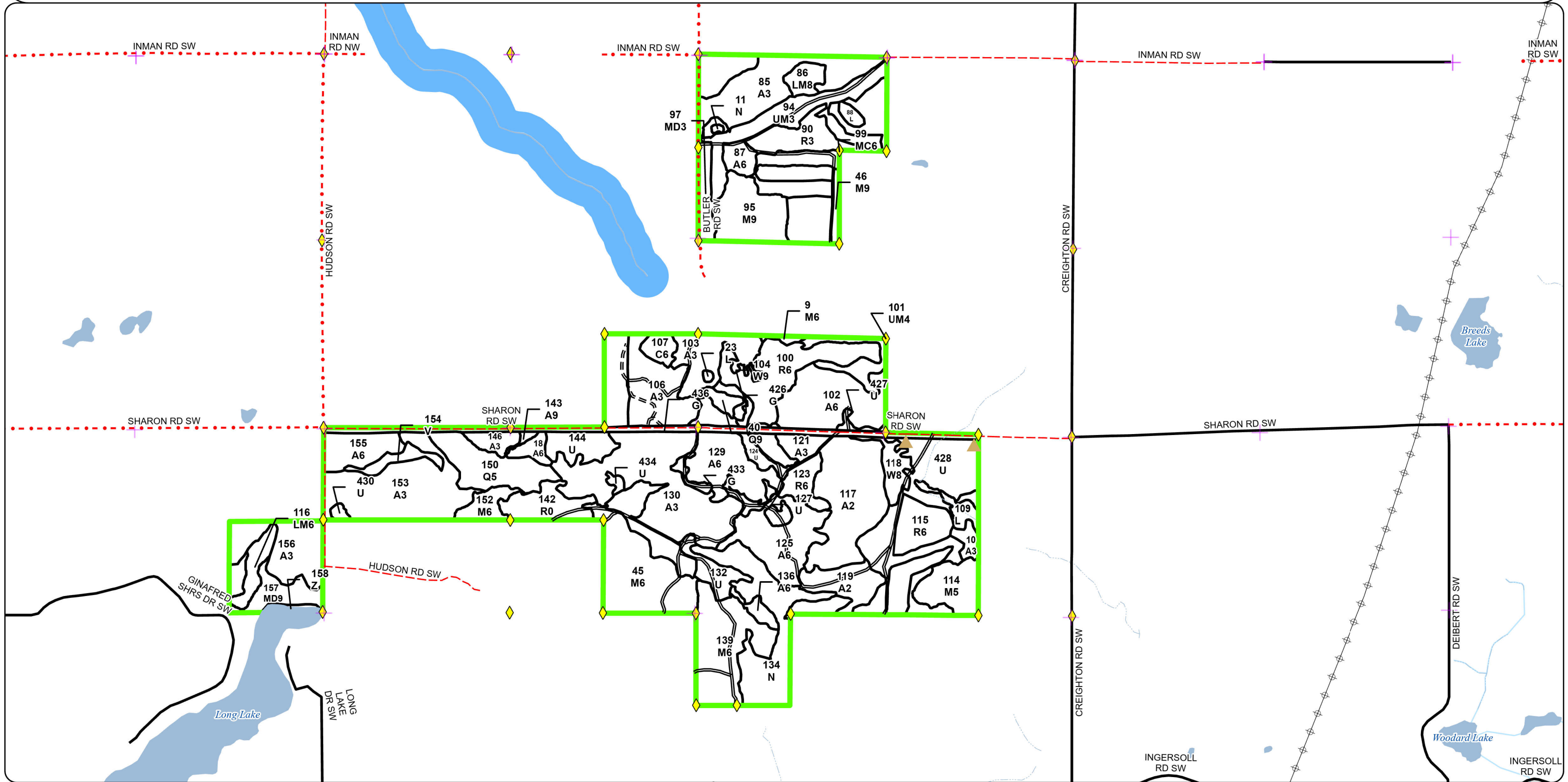
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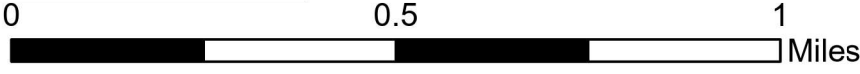
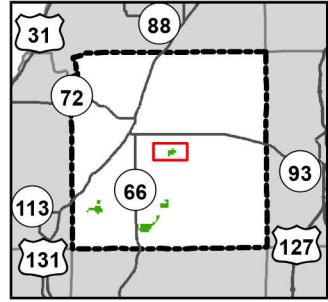
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Perennial River

Lakes and Rivers

Counties

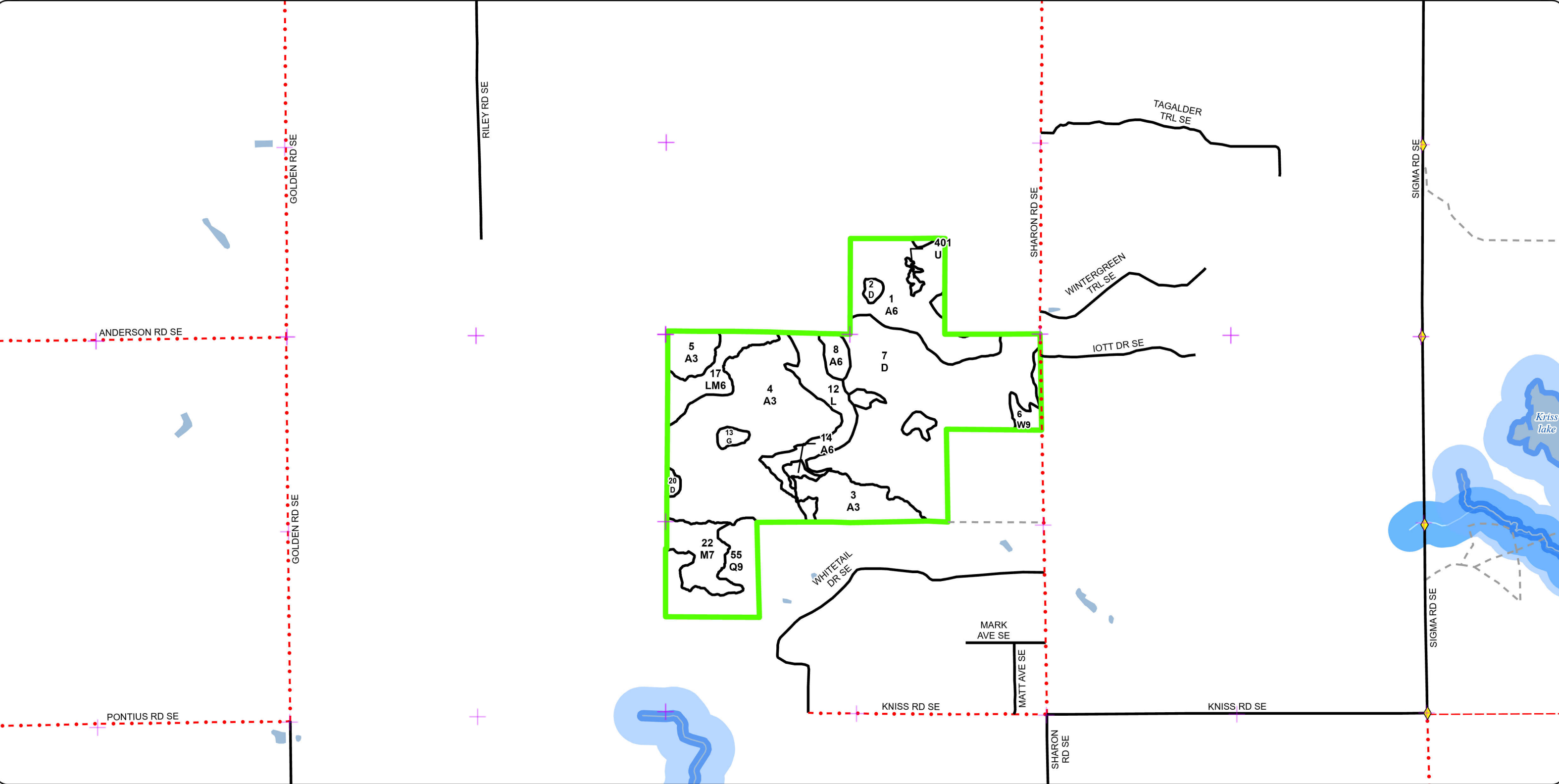
Compartment Boundary

Stand Boundaries
- Natural Rivers Vegetative Buffer

Natural Rivers Zoning District

Cold Water Streams

High Priority Trout Stream Buffer



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+	Unseen-Aged	Total
Aspen	0	399	143	110	166	41	87	32	15	0	0	0	0	0	0	0	0	0	992
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	4	102	0	0	0	0	0	0	106
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Low-Density Trees	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	58
Lowland Conifers	0	0	0	0	0	0	0	0	0	49	3	0	0	0	24	0	0	0	76
Lowland Deciduous	0	0	0	0	0	0	0	25	0	38	0	0	0	0	0	0	0	0	63
Lowland Mixed Forest	0	0	0	0	0	0	0	14	0	0	6	0	6	0	0	0	0	0	26
Lowland Shrub	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
Marsh	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	62	0	6	0	0	0	0	0	11	0	0	0	0	0	0	0	0	79
Natural Mixed Pines	0	0	0	0	0	11	38	0	0	0	0	0	0	0	0	0	0	0	49
Northern Hardwood	0	40	0	0	0	0	0	0	1	118	262	205	6	0	0	0	0	0	632
Oak	0	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	67
Red Pine	22	0	0	20	0	0	36	52	15	0	0	0	0	0	0	0	0	0	145
Treed Bog	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Upland Mixed Forest	0	0	43	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	50
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
White Pine	0	0	0	0	0	0	0	3	12	0	2	0	33	0	0	0	0	0	48
Total	547	501	186	136	166	52	161	191	43	216	277	374	45	0	24	0	0	0	2916

Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 153
Total Compartment Acres: 2,919

Commercial Harvest - 533
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	129	0	0	0	0	0	0	0	0	129
Cedar	6	0	0	0	0	0	0	0	0	6
Low-Density Trees	16	0	0	0	0	0	0	0	0	16
Lowland Conifers	4	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	7	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	114	0	0	0	0	0	0	0	114
Red Pine	9	0	0	0	0	0	0	0	0	9
Total	170	114	0	0	0	0	0	0	0	284

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	284	0	0	0	0	0	20	0	0	338
Next Step	0	0	0	0	0	0	247	0	0	247
Total	284	0	0	0	0	0	268	0	0	585

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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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Proposed Treatments:

184 61153184-Cut	8.9	42110 - Planted Red Pine	6	64	111-140	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
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Prescription Final harvest stand. HRD issues cut in the winter.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable aspen, red maple, oak and pinesRegen:OtherComment:Site Condition:Proposed Start Date: 10/01/2026

117 61153117-Cut	20.6	4139 - Aspen, Mixed Deciduous	2	28	Immature	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
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Prescription Final harvest stand to plant pine. Low stumps and chip specs. Minimal area retention.Specs:Next StepTreatments:Acceptable fully stocked stand of red pineRegen:OtherComment:Site Condition:Proposed Start Date: 10/01/2026

125 61153125-Cut	12.8	4130 - Aspen	6	36	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Final harvest stand. Include grouse spec. minimal area retention.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Aspen, red maple, pine and oakRegen:OtherComment:Site Condition:Proposed Start Date: 10/01/2026

129 61153129-Cut	12.9	4130 - Aspen	6	48	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Final harvest stand. Minimal area retention. Include grouse specs.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable aspen, red maple, oak and pinesRegen:OtherComment:Site Condition:Proposed Start Date: 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
141	61153141-Cut	59.4	4130 - Aspen	6	55	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave all oak. Minimal area retention <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple, conifers and oaks <u>Regen:</u> <u>Other</u> Include grouse spec <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
102	61153102-Cut	14.3	4130 - Aspen	6	52	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Include grouse spec. Minimal area retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple, oak and pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
176	61153176-Cut	5.5	6120 - Lowland Cedar	6	105	111-140	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Protect lowland require winter harvest and line out seeps and drainages. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, red maple and mixed conifer <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
804	61153804-Cut	6.6	4191 - Mixed Upland Deciduous with Conifer	3	6	Immature	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. No retention to maximize regeneration <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple, pines and oak <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
192 61153192-Cut	3.7	4130 - Aspen	9	72	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. No retention to maximize regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, red maple, oak, pines and cherry <u>Other Comment:</u> include grouse spec <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
193 61153185-Cut	39.3	4111 - S.Maple, Hard Mast Association	9	92	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Mark stand down to a post-harvest stocking density of 80 square feet of BA per acre. Favor underrepresented species. Release desirable crop trees and follow the DNR marking guide. Create 10-13 canopy gap approximately 1 acre in size evenly distributed throughout the treatment. Legacy trees may exist in stand, follow guidance if they should occur. Include bark slip specs. Protect seep areas, den trees and raptor nests. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable Regen:</u> A fully stocked stand of mixed northern hardwood, except for excessive white ash, ironwood and beech regen. <u>Other Comment:</u> Future gap management - Any means necessary can be used to get desirable regeneration established in gaps. This includes, trenching, roller chopping, spraying, scarification, planting of any mixture of pine / oak. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
193 61153193-Cut	74.5	4111 - S.Maple, Hard Mast Association	9	92	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Mark stand down to a post-harvest stocking density of 80 square feet of BA per acre. Favor underrepresented species. Release desirable crop trees and follow the DNR marking guide. Create 10-13 canopy gap approximately 1 acre in size evenly distributed throughout the treatment. Legacy trees may exist in stand, follow guidance if they should occur. Include bark slip specs. Protect seep areas, den trees and raptor nests. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable Regen:</u> A fully stocked stand of mixed northern hardwood, except for excessive white ash, ironwood and beech regen. <u>Other Comment:</u> Future gap management - Any means necessary can be used to get desirable regeneration established in gaps. This includes, trenching, roller chopping, spraying, scarification, planting of any mixture of pine / oak. <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
194 61153194-Opening	24.8	3303 - Mixed Low Density Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Keep as much sugar maple as possible. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex. Possibly also could seed in additional native grasses and forbs. <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										
203 61153203-Cut	4.0	6128 - Lowland Coniferous, Mixed Deciduous	6	89	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. No retention to maximize regeneration. Include grouse specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple and mixed conifer <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
206 61153206-Cut	5.5	4130 - Aspen	6	49	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. No retention to maximize regeneration. Include grouse spec. and brush pile spec along lowland boundary <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple, pine and oak <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
428 61153428-Cut	16.2	3303 - Mixed Low Density Trees	99			Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final harvest stand. Require low stumps and chip specs. Minimal area retention. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Fully stocked stand of planted pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
144 61153144-Opening	8.2	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Berm of opening during management for RDR issues. Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex. Possibly also could seed in additional native grasses and forbs. <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										

Approved Treatments:

142 61153142-Monitor	10.2	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<u>Prescription</u> 3 year regen check <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Planted red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										

Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
142 61153143-Monitor	10.1	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<u>Prescription</u> 3-year regen check										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> Planted red pine										
<u>Regen:</u>										
<u>Other</u> Percent to Treat = 100%										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2027										

Total Treatment
Acreage Proposed: 337.5



Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
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Dominant Site Conditions

2B	2G	2H	3J	5E
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955	915	3	38	Aspen	3		2	3	32
4	4	0	0	Bog					
60	0	0	60	Cedar		39		22	
40	40	0	0	Herbaceous Openland					
88	86	0	1	Low-Density Trees				1	
58	0	52	6	Lowland Aspen/Balsam Poplar	52			6	
76	73	0	3	Lowland Conifers		3			
57	25	0	32	Lowland Deciduous				32	
26	14	0	12	Lowland Mixed Forest		6			6
146	146	0	0	Lowland Shrub					
29	29	0	0	Marsh					
80	80	0	0	Mixed Upland Deciduous					
49	49	0	0	Natural Mixed Pines					
632	597	34	1	Northern Hardwood	34				1
67	67	0	0	Oak					
144	144	0	0	Red Pine					
108	108	0	0	Treed Bog					
50	50	0	0	Upland Mixed Forest					
6	6	0	0	Urban					
99	99	0	0	Water					
49	49	0	0	White Pine					
2,823	2,582	88	153	Total Forested Acres	88	48	2	64	39
	91%	3%	5%	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		5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention for stands 61, 62 & 67								

Report 4 – Site Conditions



2	Unavailable	5E: Long-Term Retention	6	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	6	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	4	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	3D: Recreational/scenic values	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



9	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	2	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	2B: Unknown if access through adjacent landowner(s) is possible	88	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	4	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



44	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4136 - Aspen, Mixed Conifer	Poletimber Well	40.5	38	81-110	N/A	
<div><div>Canopy Species</div><div>% Cover</div><div>Size Class</div><div>DBH</div><div>Age</div></div>		<div><div>Sub-Canopy Species</div><div>Density</div><div>Avg. Height</div><div>Size</div></div>					
<div>Balsam Fir5Pole4</div>		<div>Black CherryLow10 - 20 feet10 - 20 feet</div>					
<div>White Pine15Seedling12</div>		<div>Red MapleLowVariableVariable</div>					
<div>Quaking Aspen30Seedling638</div>		<div>Balsam FirMediumVariableVariable</div>					
<div>Red Maple10Seedling7</div>							
<div>Bigtooth Aspen40Seedling638</div>							
2	6224 - Treed Bog	Unspecified	3.4			No	
3	4130 - Aspen	Poletimber Well	18.4	2	Immature	N/A	
<div><div>Canopy Species</div><div>% Cover</div><div>Size Class</div><div>DBH</div><div>Age</div></div>							
<div>White Pine5Seedling12</div>							
<div>Balsam Fir5Log4</div>							
<div>Red Maple20Log1</div>							
<div>Bigtooth Aspen50Log12</div>							
<div>Quaking Aspen20Log12</div>							
4	4130 - Aspen	Poletimber Well	85.3	2	Immature	N/A	
<div><div>Canopy Species</div><div>% Cover</div><div>Size Class</div><div>DBH</div><div>Age</div></div>							
<div>Balsam Fir5Log4</div>							
<div>White Pine5Seedling12</div>							
<div>Quaking Aspen20Log12</div>							
<div>Red Maple20Log1</div>							
<div>Bigtooth Aspen50Log12</div>							
5	4130 - Aspen	Poletimber Well	9.3	2	Immature	N/A	
<div><div>Canopy Species</div><div>% Cover</div><div>Size Class</div><div>DBH</div><div>Age</div></div>							
<div>Red Maple20Log1</div>							
<div>Bigtooth Aspen50Log12</div>							
<div>White Pine5Seedling12</div>							
<div>Quaking Aspen20Log12</div>							
<div>Balsam Fir5Log4</div>							
6	42200 - Natural White Pine	Sawtimber Well	4.7	75	81-110	N/A	
<div><div>Canopy Species</div><div>% Cover</div><div>Size Class</div><div>DBH</div><div>Age</div></div>		<div><div>Sub-Canopy Species</div><div>Density</div><div>Avg. Height</div><div>Size</div></div>					
<div>White Pine75Seedling875</div>		<div>Red MapleMedium5 - 10 feet5 - 10 feet</div>					
<div>Red Maple5Seedling8</div>							
<div>Bigtooth Aspen20Seedling8</div>							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
7	6224 - Treed Bog	Unspecified	101.4			No																																																				
			<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Tamarack</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	10 - 20 feet	10 - 20 feet	Tamarack	Low	10 - 20 feet	10 - 20 feet																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																							
White Pine	Medium	10 - 20 feet	10 - 20 feet																																																							
Tamarack	Low	10 - 20 feet	10 - 20 feet																																																							
8	413 - Aspen	Poletimber Well	8.6	75	81-110	N/A																																																				
9	4119 - Mixed Northern Hardwoods	Sapling Poor	1.1	79	51-80	N/A	Retention from the cut on stand 103 in 2018 as part of 153 West Sharon Block,																																																			
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10	4130 - Aspen	Sapling Well	3.9	16	Immature	N/A	Timber sale completed in 2009 beaver ate much of the stand																																																			
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11	623 - Emergent Wetland	Unspecified	0.4			No																																																				
12	6229 - Mixed Lowland Shrub	Unspecified	21.7			No																																																				
13	310 - Herbaceous Openland	Unspecified	2.2			No	Landing from 153 North Sharron Freeze Sale																																																			
14	4134 - Aspen, Spruce/Fir	Poletimber Well	1.8	52	81-110	N/A	Retention from on stands 3 and 4 harvest																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
15	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	25.4	6	Immature	N/A	Consumers Energy final harvested this stand summer 2021. Loggers did a decent job protecting the advanced regeneration. We should have figured out a way to cut the mature aspen at the same timeConsumers lease expires 2025. Consumers plans to clearcut this stand sooner rather than later and will require stump treatment and try to have operator save desirable maple, cherry and oak advanced regeneration. Stand 803 is heavily infested with HRD so this stand is at an elevated risk of infection. Forest Health staff suggests that this stand would be a good candidate for conversion to aspen and red maple with some oak.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		10	Log	1						
Black Cherry		15	Log	1						
Red Pine		25	Log	1	6					
Red Maple		15	Log	1	9					
Bigtooth Aspen		10		12						
Beech		15	Log	1						
Red Oak		5	Log	1						
16	4139 - Aspen, Mixed Deciduous	Sapling Well	24.4	15	Immature	N/A	Stand was cut with Maple Creek Aspen 610440701. Small uncut island by wet spot on west end and scatered pine left.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		35	Log	1	12					
Bigtooth Aspen		35	Log	3	15					
White Pine		5		8	65					
Balsam Fir		5	Log	3	25					
Quaking Aspen		20		3	15					
17	6139 - Mixed Lowland Forest	Poletimber Well	13.9	60	81-110	N/A	Highly variable stand with patchy canopy. Fairly wet throughout with several areas of open water. Some dead trees in wetter sections. Ribbon of tag alder through south central section, possibly dammed up by road on private property at western end of stand. Transitions into bog at northern end.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		15		10		Balsam Fir		Low	5 - 10 feet	5 - 10 feet
Red Maple		25		8	60	Tag Alder		Low	5 - 10 feet	5 - 10 feet
Northern White Cedar		15		10						
Hemlock		5		8						
Balsam Fir		10	Seedling	6						
Tamarack		10	Seedling	8						
Quaking Aspen		20		8						
18	4130 - Aspen	Poletimber Well	3.3	46	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak		1	Seedling	8		White Pine		Low	5 - 10 feet	5 - 10 feet
Beech		1	Seedling	8		Beech		Low	5 - 10 feet	5 - 10 feet
Red Oak		5		8						
Red Maple		13	Seedling	6	46					
Bigtooth Aspen		75	Seedling	8	46					
White Pine		5		10	85					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
19	4130 - Aspen	Sapling Well	20.5	5	Immature	N/A	Cut 2020 as part of 153 Thayer Block, 61-125-17. Left retention along ephemeral drain in middle of stand and around L0. Left cedar, hemlock, green trees (maybe mostly SW part of stand).		
Canopy Species		% Cover	Size Class	DBH	Age				
White Pine		5	Seedling	8					
Red Maple		15	Log	1	5				
Bigtooth Aspen		30	Log	1	5				
Quaking Aspen		40	Log	1	5				
Balsam Fir		10	Pole	4					
20	6224 - Treed Bog	Unspecified	1.3			No	treed bog, filling in with white pine.		
21	4130 - Aspen	Poletimber Well	10.2	36	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5		10		White Pine	Low	5 - 10 feet	5 - 10 feet
Red Maple		10	Pole	4		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Paper Birch		5	Pole	4					
Bigtooth Aspen		50	Seedling	6	36				
Quaking Aspen		30	Seedling	6	36				
22	4115 - Y.Birch, Hemlock NH	Sawtimber Well	14.8	105	1-50	N/A	Stand was harvested January 2025 153 North Sharron Freeze.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		15		14		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Yellow Birch		25		12		Beech	Low	5 - 10 feet	5 - 10 feet
Hemlock		20		12	105				
Sugar Maple		40		15	105				
23	6229 - Mixed Lowland Shrub	Unspecified	0.4			No	Small wet depression.		
25	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	2.5	66	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25		10	86	Red Maple	Medium	5 - 10 feet	5 - 10 feet
White Pine		75	Seedling	7	66				
26	4119 - Mixed Northern Hardwoods	Poletimber Well	40.5	85	51-80	N/A	All the beech was harvested in 2012 as a salvage cut. Regeneration composition in the stand is an issue		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5		10	85	Beech	High	5 - 10 feet	5 - 10 feet
Red Maple		60		10	85	Red Maple	Medium	5 - 10 feet	5 - 10 feet
Red Oak		35		14	115	Bigtooth Aspen	Low	< 5 feet	< 5 feet
						Ironwood	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
27	4123 - Red Oak	Sawtimber Well	21.3	100	51-80	N/A	Stand had was harvested in 2012 current regeneration is mostly undesirable tree species.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	10		13		White Pine	Medium		5 - 10 feet	5 - 10 feet
Red Pine	5		13		Beech	High		5 - 10 feet	5 - 10 feet
Red Oak	60		14	100	Red Maple	Low		5 - 10 feet	5 - 10 feet
Red Maple	25		8		Bigtooth Aspen	Low		5 - 10 feet	5 - 10 feet
29	6229 - Mixed Lowland Shrub	Unspecifed	7.6			No			
31	42110 - Planted Red Pine	Poletimber Well	15.0	70	171-200	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	5		12		Beech	Medium	5 - 10 feet	5 - 10 feet	
Red Pine	90	Seedling	8	70					
Red Oak	5		14						
32	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	38.1	59	81-110	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Pine	55		10	59	White Pine	Medium	5 - 10 feet	5 - 10 feet	
Red Pine	10		12						
Red Maple	10		8	59					
Red Oak	10		12						
Quaking Aspen	15		9	59					
35	4122 - Oak, Pine	Sawtimber Medium	45.5	102	51-80	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Pine	5		12		White Pine	Low	5 - 10 feet	5 - 10 feet	
White Pine	25		10	105	Red Maple	Medium	5 - 10 feet	5 - 10 feet	
Red Oak	70		13	102	Bigtooth Aspen	Medium	5 - 10 feet	5 - 10 feet	
36	500 - Water	Unspecifed	5.0			No			
37	42200 - Natural White Pine	Poletimber Poor	4.3	115	51-80	N/A	Cut 2020 as part of 153 Thayer Block, 61-125-17. Removed aspen and red maple and marked pine to cut. 2015: This is the area north of the road that didn't have any short lived species removed with the sale in 1997.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	100		12	115	Balsam Fir	Low		5 - 10 feet	5 - 10 feet
39	500 - Water	Unspecifed	53.4			No	28 Lakes		

Cut 2020 as part of 153 Thayer Block, 61-125-17. Removed aspen and red maple and marked pine to cut.

2015: This is the area north of the road that didn't have any short lived species removed with the sale in 1997.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
40	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	2.7	90	51-80	N/A	Small, wetland pocket. Very dense cedar at NW end.																																															
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Red Maple	Low	Variable	Variable																																																			
45	4110 - Sugar Maple Association	Poletimber Well	29.9	87	81-110	N/A	Thinned 30 some years ago. Looked like an aspen removal																																															
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46	4110 - Sugar Maple Association	Sawtimber Well	2.3	88	111-140	N/A																																																
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48	6229 - Mixed Lowland Shrub	Unspecifed	13.3			No	Few scattered trees mostly white pine																																															
49	6229 - Mixed Lowland Shrub	Unspecifed	10.4			No																																																
50	4130 - Aspen	Sapling Well	27.9	5	Immature	N/A																																																
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52	500 - Water	Unspecifed	8.4		Unspecified	No	2015: Shallow pond with patches of emergent vegetation. Deeper at south end.																																															
53	622 - Lowland Shrub	Unspecifed	12.3			No																																																

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
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55	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	24.2	135	111-140	N/A																																																	
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Yellow Birch</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Quaking Aspen</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>13</td><td>135</td></tr><tr><td>Red Maple</td><td>25</td><td></td><td>13</td><td></td></tr><tr><td>Black Spruce</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Northern White Cedar</td><td>10</td><td>Seedling</td><td>8</td><td>135</td></tr><tr><td>Hemlock</td><td>40</td><td></td><td>13</td><td>135</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	5		12		Quaking Aspen	5		10		White Pine	10		13	135	Red Maple	25		13		Black Spruce	5	Seedling	6		Northern White Cedar	10	Seedling	8	135	Hemlock	40		13	135	Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
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56	6229 - Mixed Lowland Shrub	Unspecifed	27.1			No	few scattered trees and varied amount of beaver activity																																																
58	42200 - Natural White Pine	Sawtimber Medium	29.1	115	51-80	N/A	Nice aspen and red maple regen for the most part. some thick pockets of pine but overall pretty scattered. likely treat stand when understory is merchantable. Aspen & red maple have been removed from this stand. Timber Sale # 61-183-97-01																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>85</td><td></td><td>13</td><td>115</td></tr><tr><td>Red Pine</td><td>15</td><td></td><td>13</td><td>115</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Quaking Aspen</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	85		13	115	Red Pine	15		13	115	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	10 - 20 feet	10 - 20 feet	Quaking Aspen	High	10 - 20 feet	10 - 20 feet																					
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59	4130 - Aspen	Poletimber Well	18.5	36	81-110	N/A																																																	
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61	4130 - Aspen	Sapling Well	3.7	15	1-50	N/A	stand cut with comp to the east. (Puzzle piece popple) scattered pine and oak left over nice aspen and red maple regen.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>5</td><td></td><td>10</td><td>105</td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Log</td><td>2</td><td>15</td></tr><tr><td>Red Maple</td><td>20</td><td>Log</td><td>1</td><td>15</td></tr><tr><td>Bigtooth Aspen</td><td>40</td><td>Log</td><td>2</td><td>15</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Log</td><td>4</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5		10	105	Quaking Aspen	30	Log	2	15	Red Maple	20	Log	1	15	Bigtooth Aspen	40	Log	2	15	Balsam Fir	5	Log	4																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
66	4130 - Aspen	Sapling Well	17.6	5	Immature	N/A	Cut central part of stand in 2020 as part of 153 Thayer Block, 61-125-17. Cut > 2" except oak, cedar, hemlock and green-painted trees. Left white pine and balsam fir < 4" dbh. Left retention as stream buffer on east and west sides. Merged with small unit south of Sharon Rd after cutting. 2015: Diverse stand. More pine in west end and far eastern edge. Some low ground throughout, seasonally wet. Balsam fir understory is thick in places. Heavy blowdown in southeast corner. Heavy browse on red maple seedlings.																																								
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68	4139 - Aspen, Mixed Deciduous	Sapling Well	27.7	15	Immature	N/A	Stand was cut with Maple Creek Aspen 610440701. Small uncut island by wet spot on west end and scatered pine left.																																								
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70	4130 - Aspen	Sapling Well	38.0	5	Immature	N/A	Cut 2020 as part of 153 Thayer Block, 61-125-17. Left white pine and balsam fir < 4" dbh.																																								
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71	6229 - Mixed Lowland Shrub	Unspecified	10.3			No	Tag Alder marsh with a stream drainage																																								
73	122 - Road/Parking Lot	Unspecified	6.3			No																																									
77	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	25.2	62	51-80	N/A																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
80	42110 - Planted Red Pine	Poletimber Well	19.2	60	111-140	N/A	61-125-17. 153 Thayer Block. Cut 2019-20. Third row thinned, for the second time. 2015, KJS: Thick and tall... very tight rows... think we will have to thin every third row again which will release all trees and minimize further damage for future entries. very little understory competition. OPIC - FMD: 2/8/2005 Hold for ten years. When first I walked into stand I thought I would cut, but plots & crown closure say otherwise. A great deal of damage was done on the first cut. (Grieve) Thinning completed in 1999 Yellow Cap Red Pine (Contract # 111-97-01). Removed every third row. Planting was very closely spaced therefore some extra trees were removed from some rows to facilitate logging equipment. Row spacing will be a concern with future harvests in this stand. Cutting took place in spring. An error was discovered in the calculations for the volume of the sale. Data was entered as a 10 factor cruise when in fact the cruise was done with a 20 factor. Thus a 100% over-run was realized by the producer.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		100		9	60					
84	4136 - Aspen, Mixed Conifer	Poletimber Well	10.5	60	111-140	N/A	Left for retention and BMP along Maple Creek			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		20	Seedling	8	60	Balsam Fir		Medium	5 - 10 feet	5 - 10 feet
White Pine		5		9	85	Red Maple		Medium	5 - 10 feet	5 - 10 feet
Balsam Fir		15	Sapling	6	60					
Red Maple		25	Seedling	8	60					
Bigtooth Aspen		35		9	60					
85	4136 - Aspen, Mixed Conifer	Sapling Poor	25.4	4	Immature	N/A	Final harvest 153 West Sharon Block, 61-168-17. Cut Dec 2021-Feb 2022.			
Canopy Species		% Cover	Size Class	DBH	Age					
Balsam Fir		5	Seedling	6						
White Pine		1		12						
Black Cherry		5	Log	1						
Yellow Birch		1		10						
Quaking Aspen		10	Log	1	4					
Red Maple		25	Log	1						
Bigtooth Aspen		38	Log	1	4					
Northern White Cedar		5		6						
Hemlock		10		10						
86	6131 - Hemlock, White Pine, Maple, Birch	Unspecified	5.8	93	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		25		12	93					
Quaking Aspen		20		9						
Red Maple		25		9	93					
Northern White Cedar		15	Seedling	8						
Hemlock		15		10						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
87	4139 - Aspen, Mixed Deciduous	Poletimber Well	4.3	36	81-110	N/A	A few scattered oak.																																																						
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Hemlock	1		6																																																										
88	6229 - Mixed Lowland Shrub	Unspecifed	1.7			No																																																							
90	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	19.6	26	Immature	N/A																																																							
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Red Oak	10	Log	2																																																										
93	4134 - Aspen, Spruce/Fir	Poletimber Well	15.9	60	111-140	N/A	Left for retention and BMP along Maple Creek																																																						
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94	4319 - Mixed Upland Forest	Sapling Well	43.2	16	Immature	N/A																																																							
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95	4110 - Sugar Maple Association	Sawtimber Well			17.9	88	81-110	N/A	153 West Sharon Block, 61-168-17. Cut Dec 2021-Feb 2022Thinned in 1998																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>82</td><td></td><td>12</td><td>88</td></tr><tr><td>Red Maple</td><td>4</td><td></td><td>12</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Black Cherry</td><td>3</td><td></td><td>12</td><td></td></tr><tr><td>Basswood</td><td>2</td><td></td><td>10</td><td></td></tr><tr><td>Beech</td><td>3</td><td></td><td>14</td><td></td></tr><tr><td>Ironwood</td><td>4</td><td>Seedling</td><td>6</td><td></td></tr></table>					Canopy Species	% Cover	Size Class	DBH		Age	Sugar Maple	82		12	88	Red Maple	4		12		White Pine	2		12		Black Cherry	3		12		Basswood	2		10		Beech	3		14		Ironwood	4	Seedling	6		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Beech</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	High	10 - 20 feet	10 - 20 feet	Beech	Low	10 - 20 feet	10 - 20 feet
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97	4191 - Mixed Upland Deciduous with Conifer	Sapling Well			6.3	29	Immature	N/A																																																			
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99	42290 - Natural Mixed Pine	Poletimber Well			10.7	40	81-110	N/A																																																			
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100	42110 - Planted Red Pine	Poletimber Well			24.0	59	111-140	N/A	Row thinned (1st thin) 2018 with 153 West Sharon Block, 61-168-17.																																																		
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101	4319 - Mixed Upland Forest	Poletimber Poor	6.8	62	1-50	N/A																																																		
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102	4130 - Aspen	Poletimber Well	24.5	52	111-140	N/A																																																		
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103	4130 - Aspen	Sapling Poor	15.4	7	Immature	N/A	Cut 2018 as part of 153 West Sharon Block, 61-168-17. Cut everything > 2" dbh except white pine.																																																	
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104	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	1.9	92	111-140	N/A	Small, variable stand. Larger white pine is relatively limby. Aspen is in poor shape. Wet along south and west edges.																																																	
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>60</td><td></td><td>14</td><td>92</td></tr><tr><td>Red Maple</td><td>10</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>30</td><td></td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	60		14	92	Red Maple	10	Seedling	6		Bigtooth Aspen	30		12																																				
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106	4130 - Aspen	Sapling Well	19.3	28	Immature	N/A																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
107	6120 - Lowland Cedar	Poletimber Well	3.9	96	51-80	N/A	Quite a bit of blow downs																																														
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109	6229 - Mixed Lowland Shrub	Unspecifed	3.9			No	Old backed up beaver flooding																																														
114	4119 - Mixed Northern Hardwoods	Poletimber Medium	12.2	105	51-80	N/A	Thinned 2018 (? Kelly lost sale notes) with 153 West Sharon Block, 61-168-17. Cut marked trees plus all aspen, beech, ironwood and ash. 2015: West edge has some decent sugar maple but overall pretty poor quality, some thicker and some more open. Expect open areas to fill in with red maple, mixed hardwoods and pine.																																														
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115	42110 - Planted Red Pine	Poletimber Well	17.8	61	111-140	N/A	Marked thinning in 2018 (? Kelly lost sale notes) with 153 West Sharon Block, 61-168-17.																																														
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116	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.1	115	111-140	N/A	Lowland area with drainage																																														
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117	4139 - Aspen, Mixed Deciduous	Sapling Medium	33.5	28	Immature	N/A																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Oak</td><td>5</td><td>Log</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>8</td><td>60</td></tr><tr><td>Black Cherry</td><td>20</td><td>Log</td><td>4</td><td>28</td></tr><tr><td>Red Maple</td><td>15</td><td>Log</td><td>1</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>25</td><td>Pole</td><td>4</td><td>28</td></tr><tr><td>Quaking Aspen</td><td>25</td><td>Log</td><td>4</td><td>28</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	White Oak	5	Log	4		White Pine	10		8	60	Black Cherry	20	Log	4	28	Red Maple	15	Log	1		Bigtooth Aspen	25	Pole	4	28	Quaking Aspen	25	Log	4	28															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
130	4130 - Aspen	Sapling Well	56.3	16	Immature	N/A	Stand was harvested in 2009 (sale # 07-01 West Sharon Aspen). Scattered oak and cherry pole timber was left. There is a vain of low ground in the northern part of the stand. There is some muscle wood out there. canopy data from 3/2015.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>10</td><td>Log</td><td>1</td><td></td></tr><tr><td>Black Cherry</td><td>2</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Oak</td><td>3</td><td></td><td>8</td><td></td></tr><tr><td>Quaking Aspen</td><td>30</td><td></td><td>2</td><td>16</td></tr><tr><td>Red Maple</td><td>15</td><td>Log</td><td>1</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>40</td><td>Log</td><td>3</td><td>16</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	10	Log	1		Black Cherry	2	Seedling	8		Red Oak	3		8		Quaking Aspen	30		2	16	Red Maple	15	Log	1		Bigtooth Aspen	40	Log	3	16															
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132	3303 - Mixed Low Density Trees	Unspecifed	6.6			No	Scattered maple, cherry and aspen																																																		
134	6239 - Mixed Emergent Wetland	Unspecifed	28.9			No	Beaver flooding.																																																		
136	4130 - Aspen	Sapling Well	2.9	28	Immature	N/A	Scattered hardwoods logs trees scattered throughout. Aspen is about 30' tall and is starting to convert to a pole stand.																																																		
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Quaking Aspen	88	Seedling	5	28																																																					
137	4110 - Sugar Maple Association	Sawtimber Well	122.0	92	51-80	N/A	Thinned in 1997 as Donathon Rd HD, 61-164-97-01. Thinned in 2019 as 153 Donathan Block, 61-134-17. Thinned this part and not the southern part to capture the beech volume.																																																		
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139	4110 - Sugar Maple Association	Poletimber Well	27.1	86	81-110	N/A	Thinned 2018 (? Kelly lost sale notes) with 153 West Sharon Block, 61-168-17. 2015: Decent quality hardwoods. Stand has some rolling terrain. Some scattered aspen along the east edge.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Basswood</td><td>45</td><td></td><td>9</td><td></td></tr><tr><td>Black Cherry</td><td>3</td><td>Seedling</td><td>9</td><td></td></tr><tr><td>Sugar Maple</td><td>46</td><td></td><td>9</td><td>86</td></tr><tr><td>Bigtooth Aspen</td><td>6</td><td>Log</td><td>1</td><td>5</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Basswood	45		9		Black Cherry	3	Seedling	9		Sugar Maple	46		9	86	Bigtooth Aspen	6	Log	1	5	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Beech</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Ironwood</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Beech	Medium	5 - 10 feet	5 - 10 feet	Ironwood	Low	5 - 10 feet	5 - 10 feet													
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140	4134 - Aspen, Spruce/Fir	Poletimber Well	2.5	65	81-110	N/A	strip left along wetland edge. leave for long term retention, cover and BMP.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>25</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td></td><td>9</td><td></td></tr><tr><td>Northern White Cedar</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Quaking Aspen</td><td>65</td><td></td><td>8</td><td>65</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Balsam Fir	25	Sapling	7		Red Maple	5		9		Northern White Cedar	5	Seedling	7		Quaking Aspen	65		8	65	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	10 - 20 feet	10 - 20 feet																	
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141	4130 - Aspen	Poletimber Well	59.4	55	81-110	N/A	Originally part of Stand 188 but this was not treated when that was cut. There are a couple of other small L0 and V0 in this part of the stand. Stand has more of a balsam fir and red maple component in the southeast. Canopy data unchanged from 2015.																																												
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142	4211 - Planted Red Pine	Unspecifed	22.0	1	Immature		2024 - Stand has passed Year 1 Regeneration Check on 10/10/2024. Stand has an estimated 806 TPA and is currently 100% Free to grow at this time.2024 - Stand was Planted to 810 Trees per Acre of Red Pine on 5/2/20242023 - Stand was Skidder Site Prep Sprayed (Round Up Pro, Oust, and Arsenal)2022 - Stand was trenched 2022 - Stand Was Roller Chopped 6/29/2022Final harvested 2018 with 153 West Sharon Block, 61-168-17. Chapter 7 to change MO to planted red pine. FTP C62-889. Autumn olive noted in previous inventory - might need additional site prep.																																												
143	4133 - Aspen, Mixed Pine	Sawtimber Well	0.8	51	81-110	N/A	Retention left from harvest on stand 146																																												
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144	330 - Low-Density Trees	Unspecifed	8.2			No	Scattered cherry, oak and white pine throughout																																												
146	4133 - Aspen, Mixed Pine	Sapling Well	4.1	7	Immature	N/A	Final harvest was completed in 2018 with 153 West Sharon Block, 61-168-17. Left cedar, hemlock and green trees. Retention in east end (steep slope).																																												
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150	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	17.8	86	51-80	N/A	Drainage running through stand																																												
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151	6229 - Mixed Lowland Shrub	Unspecified	3.0			No																																															
152	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.7	115	51-80	N/A	Thinned 2018 with 153 West Sharon Block, 61-168-17.																																														
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154	6225 - Bog	Unspecified	4.2			No																																															
155	4130 - Aspen	Poletimber Well	11.0	46	111-140	N/A																																															
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Oak</td><td>1</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>13</td><td>Seedling</td><td>6</td><td>46</td></tr><tr><td>Bigtooth Aspen</td><td>75</td><td>Seedling</td><td>8</td><td>46</td></tr><tr><td>Beech</td><td>1</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td></td><td>8</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>10</td><td>85</td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	White Oak	1	Seedling	8		Red Maple	13	Seedling	6	46	Bigtooth Aspen	75	Seedling	8	46	Beech	1	Seedling	8		Red Oak	5		8		White Pine	5		10	85	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	5 - 10 feet	5 - 10 feet	Beech	Low	5 - 10 feet	5 - 10 feet
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156	4130 - Aspen	Sapling Well	19.0	29	Immature	N/A																																															
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157	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.2	85	81-110	N/A																																																																
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White Pine	15		12																																																																			
158	500 - Water	Unspecified	1.9			No	PART OF LONG LAKE																																																															
161	411 - Northern Hardwood	Poletimber Well	33.7	105	81-110	N/A	No legal access																																																															
162	61119 - Lowland Aspen/Balsam Poplar (OI)	Poletimber Well	51.7	60	81-110	N/A	No access																																																															
163	413 - Aspen	Poletimber Well	3.0	75	81-110	N/A	No legal access																																																															
168	413 - Aspen	Poletimber Well	2.8	68	81-110	N/A																																																																
170	6229 - Mixed Lowland Shrub	Poletimber Poor	25.5			No																																																																
171	6224 - Treed Bog	Unspecified	1.7			No	Scattered white pine seeding in.																																																															
173	6112 - Lowland Aspen	Sawtimber Well	6.2	68	81-110	N/A																																																																
174	4130 - Aspen	Poletimber Well	8.9	36	81-110	N/A																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
175	42110 - Planted Red Pine	Poletimber Well	6.1	64	201+	N/A	Red pine has never been row-thinned. Some mortality from self-thinning. Little to no understory. Some wolffy red maple and sugar maple in the gaps. Plantation extends on both sides of private property line. Access road to camp on west side of stand. Property boundary needs to be verified. Stand 803 is heavily infested with HRD so try to get this stand cut in winter or require stup treatment and consider non-RP MO when this stand is final harvested. (per Scott Lint, 10/28/20)		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	90		8	64	Beech	Low		5 - 10 feet	5 - 10 feet
Sugar Maple	5		12						
Red Maple	5		12						
176	6120 - Lowland Cedar	Poletimber Well	61.8	105	111-140	N/A	Stand is mostly a very dense cedar stand, with good diameters. Some scattered red maple and birch. Stand has a few upland pockets with balsam fir and red maple.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5		10		Balsam Fir	Low		5 - 10 feet	5 - 10 feet
Paper Birch	2	Seedling	8						
Northern White Cedar	60		10	105					
Hemlock	3	Seedling	8						
White Pine	5		18						
Yellow Birch	5		10						
Quaking Aspen	10	Seedling	8						
Balsam Fir	10		6						
182	6113 - Lowland Maple	Sawtimber Poor	37.9	88	1-50	N/A		Bottom land Hardwoods. In the flood plain next to the Manistee River. Natural River Act area.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	90		14	88	Balsam Fir	Low	5 - 10 feet		5 - 10 feet
Basswood	10		10		Tag Alder	Low	5 - 10 feet		5 - 10 feet
					Black Ash	Medium	5 - 10 feet	5 - 10 feet	
183	4139 - Aspen, Mixed Deciduous	Sapling Well	21.3	6	Immature	N/A	Cut in 2019 as 153 Donathan Block, 61-134-17. Stand is on a ridge.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	20	Log	1						
Balsam Fir	5	Log	1						
Black Cherry	10	Log	1						
Beech	10	Log	1						
Red Oak	5		10						
Quaking Aspen	40		2	6					
Ironwood	10	Log	1						
184	42110 - Planted Red Pine	Poletimber Well	8.9	64	111-140	N/A	Thinned in 2019 as 153 Donathan Block, 61-134-17.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100	Seedling	8	64	Red Maple	Medium		5 - 10 feet	5 - 10 feet
					Beech	Medium	5 - 10 feet	5 - 10 feet	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
185	4110 - Sugar Maple Association	Sawtimber Well	96.4	108	111-140	N/A	Thinned in October 2008 as Snowy Hills, 61-015-07-01. Thinned in 1992 Donathon Road Sale																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Beech</td><td>20</td><td></td><td>10</td><td></td></tr><tr><td>Sugar Maple</td><td>60</td><td></td><td>12</td><td>108</td></tr><tr><td>Black Cherry</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Basswood</td><td>15</td><td></td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Beech	20		10		Sugar Maple	60		12	108	Black Cherry	5	Seedling	6		Basswood	15		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Beech</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Ironwood</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	High	Variable	Variable	Ironwood	High	10 - 20 feet	10 - 20 feet										
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186	4110 - Sugar Maple Association	Sawtimber Well	47.6	108	51-80	N/A	Thinned in 2019 as 153 Donathan Block. Dense beech and iron wood regeneration																																												
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188	4136 - Aspen, Mixed Conifer	Sapling Well	66.1	6	Immature	N/A	2020: Cut in 2019 as 153 Donathan Block, 61-134-17.																																												
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189	6120 - Lowland Cedar	Poletimber Well	40.3	100	81-110	N/A	Dense cedar stand with more black spruce along the edges. Some pockets of blow down that are filling in with balsam fir and spruce.																																												
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192	4130 - Aspen	Sawtimber Well	3.7	72	81-110	N/A																																													
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193	4111 - S.Maple, Hard Mast Association	Sawtimber Well	140.3	92	111-140	N/A	Thinned in 1997 as Donathon Rd HD, 61-164-97-01. More oak component in the south western part																																																					
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194	3303 - Mixed Low Density Trees	Unspecified	24.8			No																																																						
196	4139 - Aspen, Mixed Deciduous	Poletimber Well	14.7	37	81-110	N/A	East part of stand is mostly aspen the west area has more of the sugar maple and hardwood componentust reaching pole size. Variable stand. Some parts are more like a young HW stand than aspen.																																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Cherry</td><td>5</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Sugar Maple</td><td>15</td><td></td><td>4</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>30</td><td>Seedling</td><td>6</td><td>37</td></tr><tr><td>Quaking Aspen</td><td>20</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Ironwood</td><td>20</td><td>Pole</td><td>4</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Black Cherry	5	Sapling	5		Red Oak	5	Sapling	5		Sugar Maple	15		4		Red Maple	5	Pole	4		Bigtooth Aspen	30	Seedling	6	37	Quaking Aspen	20	Seedling	6		Ironwood	20	Pole	4		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Cherry</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Ironwood</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	5 - 10 feet	5 - 10 feet	Black Cherry	Medium	>20 feet	>20 feet	Ironwood	Medium	>20 feet	>20 feet
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198	4130 - Aspen	Sapling Well	27.2	17	Immature	N/A	Stand final harvested 6/2008 under Taffletown Aspen 078-07-01.																																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>5</td><td>Log</td><td>3</td><td></td></tr><tr><td>Red Maple</td><td>25</td><td>Log</td><td>2</td><td>17</td></tr><tr><td>Bigtooth Aspen</td><td>55</td><td>Log</td><td>3</td><td>17</td></tr><tr><td>Quaking Aspen</td><td>15</td><td>Log</td><td>3</td><td>17</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Fir	5	Log	3		Red Maple	25	Log	2	17	Bigtooth Aspen	55	Log	3	17	Quaking Aspen	15	Log	3	17																																	
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199	3301 - Low Density Deciduous Trees	Unspecified	5.9			No																																																						
200	500 - Water	Unspecified	4.6			No	OPIC - FMD: 3/4/2005 Old beaver flooding, now is marsh grass & old snags. Good property line through marsh. (Grieve)																																																					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
203	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	31.4	89	81-110	N/A																																																
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Balsam Fir	High	10 - 20 feet	10 - 20 feet																																																			
204	622 - Lowland Shrub	Unspecified	9.0			No																																																
205	4130 - Aspen	Sapling Well	34.1	8	Immature	N/A	Stand cut spring 2018.																																															
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206	4130 - Aspen	Poletimber Well	5.5	49	81-110	N/A																																																
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212	500 - Water	Unspecified	17.0			No	Manistee River																																															
213	500 - Water	Unspecified	8.7		Unspecified	No	Manistee River.																																															
401	330 - Low-Density Trees	Unspecified	1.2			No	Opening that is filling in with open-grown white pine and black cherry.																																															
410	310 - Herbaceous Openland	Unspecified	1.0			No	Used as landing for surrounding sale																																															
417	3102 - Grass	Unspecified	11.0																																																			
426	310 - Herbaceous Openland	Unspecified	1.0			No	OPIC - FMD: 3/16/2005 Almost a U-type. (Grieve)																																															
427	330 - Low-Density Trees	Unspecified	1.3			No																																																

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
428	3303 - Mixed Low Density Trees	Unspecified	37.2			No	
430	3302 - Low Density Conifer Trees	Unspecified	1.0			No	scattered white pine
433	310 - Herbaceous Openland	Unspecified	1.9			No	Contains spotted knapweed.
434	3302 - Low Density Conifer Trees	Unspecified	1.0			No	
436	310 - Herbaceous Openland	Unspecified	15.7				Power line
440	310 - Herbaceous Openland	Unspecified	4.5			No	No access
441	310 - Herbaceous Openland	Unspecified	0.3			No	
445	310 - Herbaceous Openland	Unspecified	2.6				
803	4112 - Maple, Beech, Cherry Association	Sapling Well	40.4	9	Immature	N/A	Some red pine has seeded Consumers Energy final harvested this stand summer 2021. Hilary Wells called to say they are officially turning it over to the State. Loggers did a decent job protecting the advanced regeneration. Site visit 10/28/20 with a Consumers Forester and DNR forest health staff found this plantation is heavily infested with HRD. Consumers lease expires 2025. FRD will NOT be able to plant red pine here. Consumers plans to clearcut this stand sooner rather than later and will try to have operator save desirable maple, cherry and oak advanced regeneration.
804	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	36.8	6	Immature	N/A	Consumers Energy final harvested this stand summer 2021. Loggers did a decent job protecting the advanced regeneration. We should have figured out a way to cut the mature aspen at the same time Consumers lease expires 2025. Consumers plans to clearcut this stand sooner rather than later and will require stump treatment and try to have operator save desirable maple, cherry and oak advanced regeneration. Stand 803 is heavily infested with HRD so this stand is at an elevated risk of infection. Forest health staff suggests that this stand would be a good candidate for conversion to aspen and red maple with some oak.