

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**

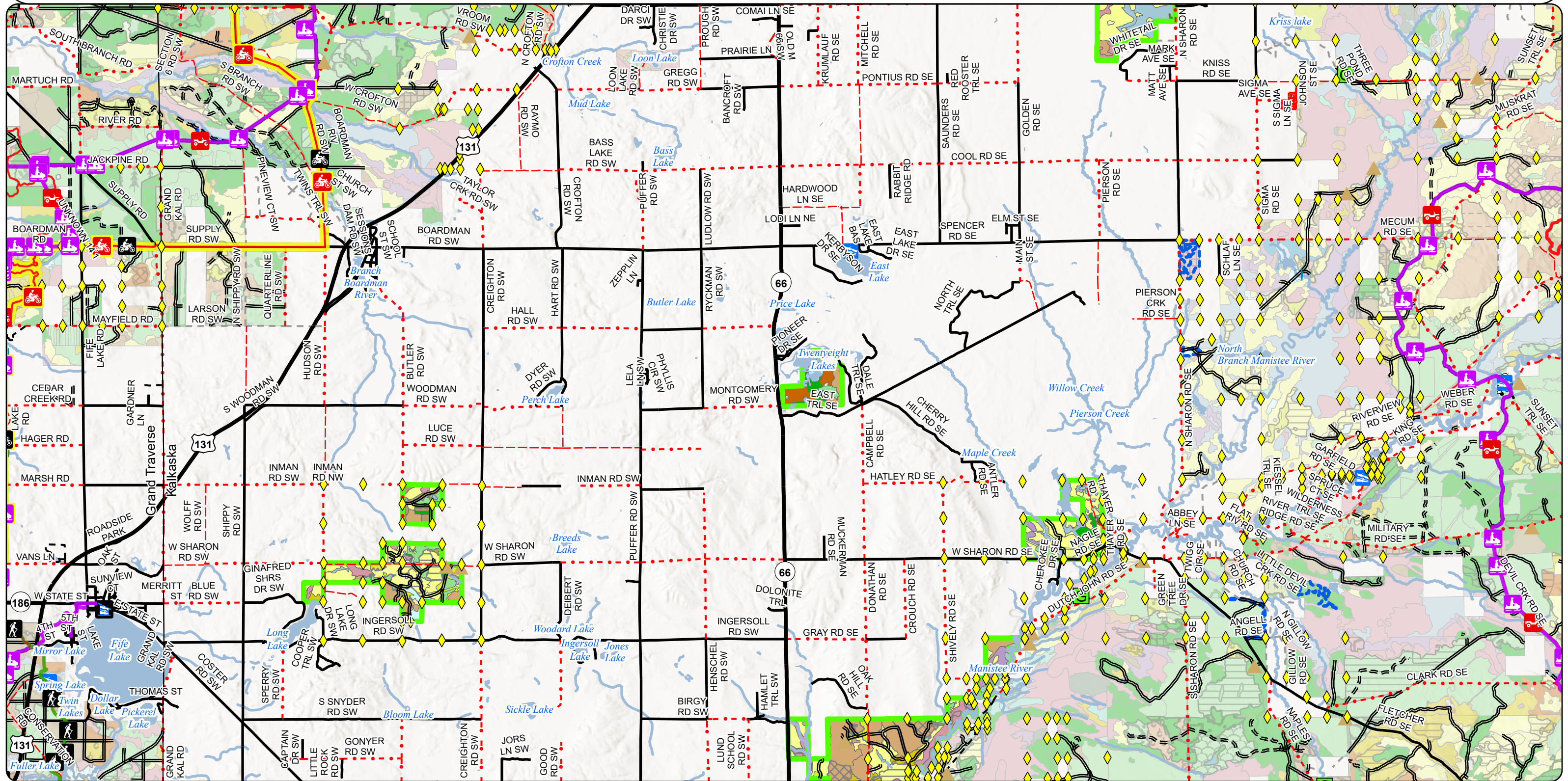
The following information is displayed, where pertinent, on the attached compartment maps:

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

County: Kalkaska
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2027
Acres: 2,919 GIS Calculated
Examiner: Paul Roell
Date Exported: 1/12/2026
Map Phase: Post Maps



- | | | | | | | | | | |
|---|-------------------------|---|---------------------------------------|---|--------------------------------------|---|---------------------------------|---|---------------------------------|
|  | Survey Grade Corners |  | Designated Motorcycle Trails |  | Federal / State - Dirt / Gravel Road |  | Openings Mgmt. |  | 500 - Water |
|  | |  | Designated Snowmobile |  | County - Gravel Road |  | Monitoring - Regeneration |  | 611 - Lowland Deciduous Forest |
|  | Berm |  | Designated Hiking Pathway |  | County - Dirt Road (Seasonal) |  | Treatments with Site Conditions |  | 612 - Lowland Coniferous Forest |
|  | Gate |  | Designated Equestrian Trails |  | Private - Dirt / Gravel Road |  | 411 - Northern Hardwood |  | 613 - Lowland Mixed Forest |
|  | Culvert |  | DNR - Primary Forest Road |  | DNR - Management Access |  | 412 - Oak Types |  | 122 - Road/Parking Lot |
|  | Boating Access Site |  | DNR - Secondary Forest Road |  | Streams |  | 413 - Aspen |  | 310 - Herbaceous Openland |
|  | Designated MCCCT Trails |  | DNR - Forest Access Route |  | Lakes and Rivers |  | 419 - Mixed Upland Deciduous |  | 330 - Low Density Trees |
|  | Designated ORV Routes |  | Federal / State Highway |  | Compartment Boundary |  | 421 - Planted Pines |  | 622 - Lowland Shrub |
|  | Designated ATV Trails |  | Federal / State / County - Paved Road |  | Clearcut |  | 422 - Natural Pines |  | 623 - Emergent Wetland |
| | |  | |  | Selection |  | 430 - Upland Mixed Forest | | |



Stand Boundary Map

Compartment: 61153
T25N R07W 14,21-22
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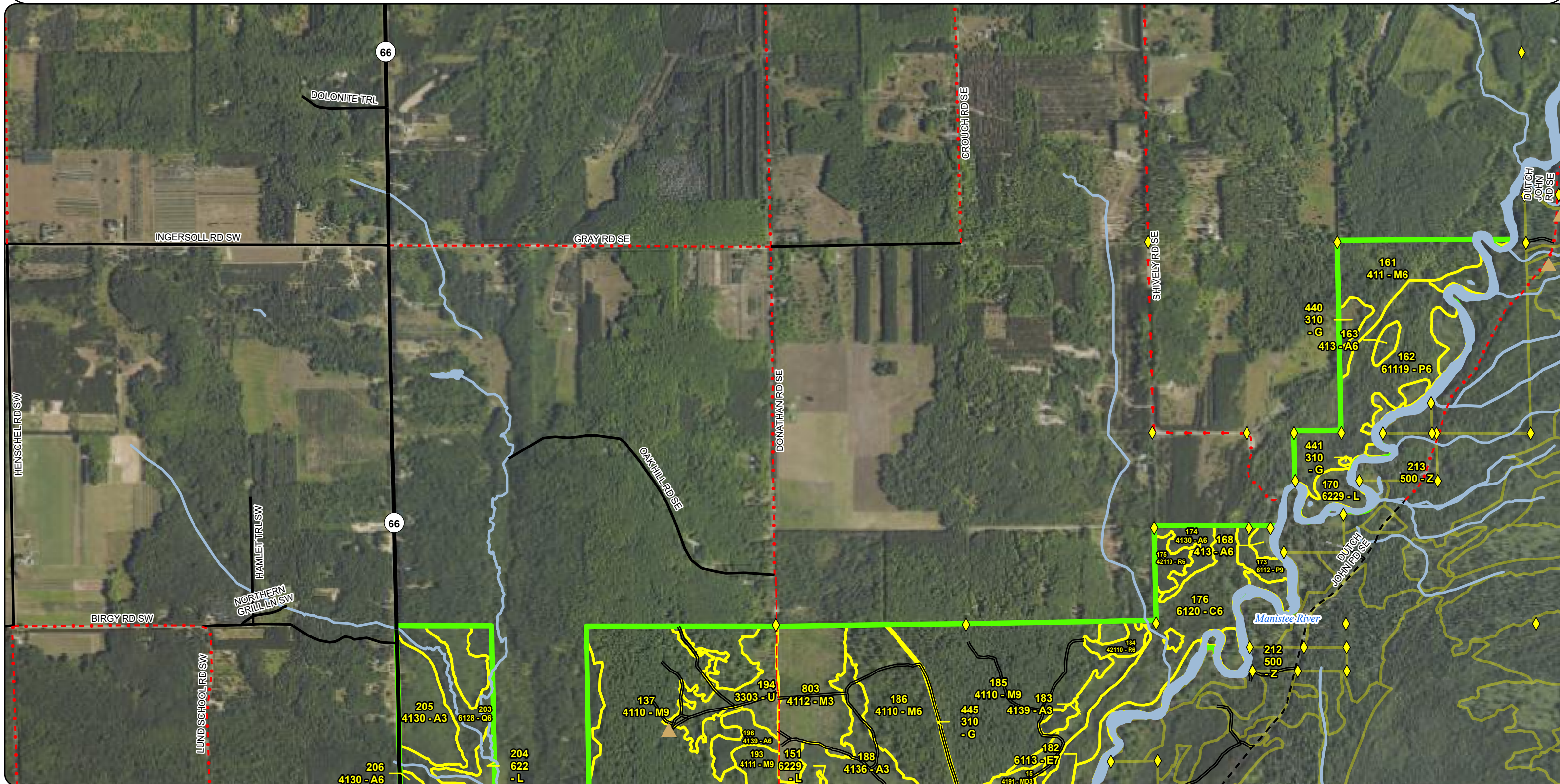


0 0.5 1 Miles

- Survey Grade Corners
- Berm
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road

- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous

- 421 - Planted Pines
- 500 - Water
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- 330 - Low Density Trees
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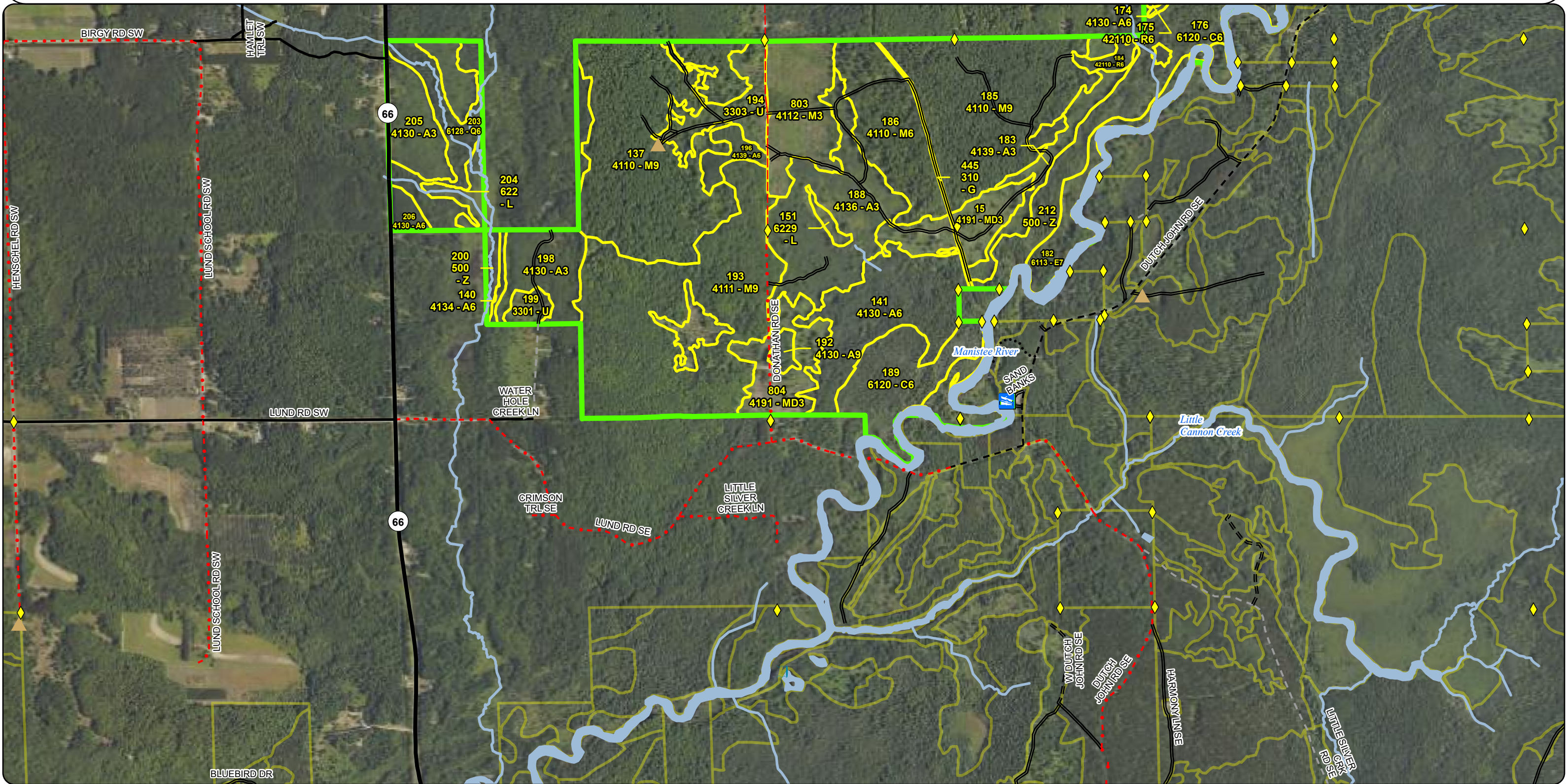
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- Boating Access Site
- DNR - Secondary Forest Road

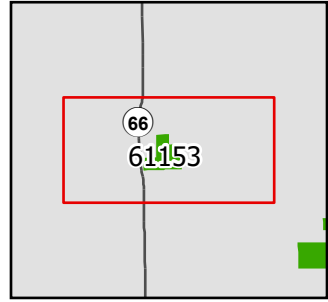
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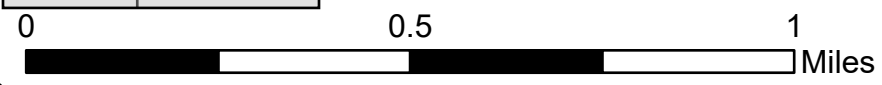
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Stand Boundary Map



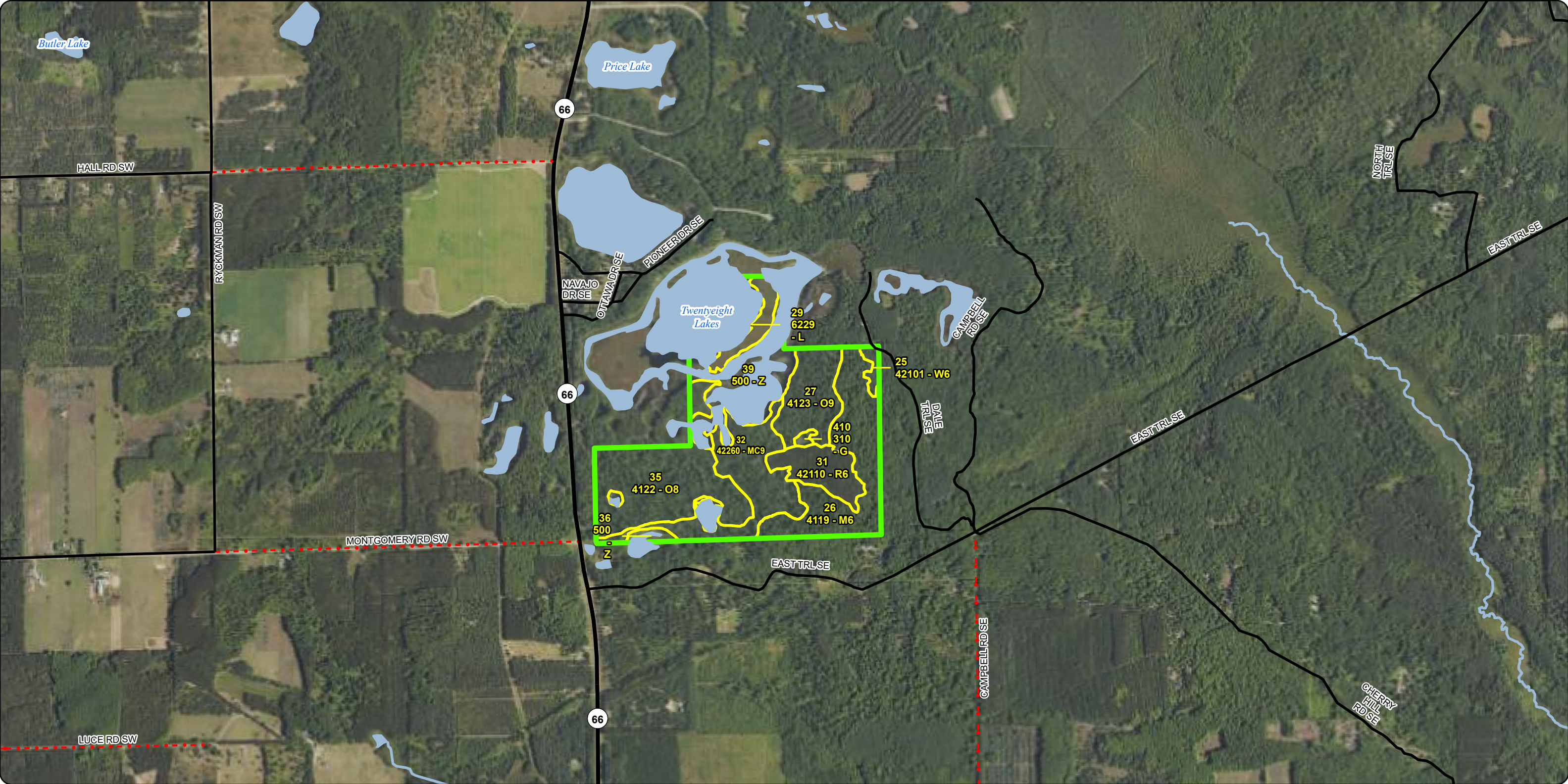
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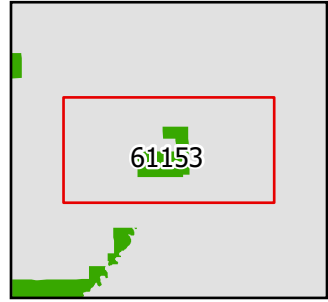
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- 412 - Oak Types
- 421 - Planted Pines

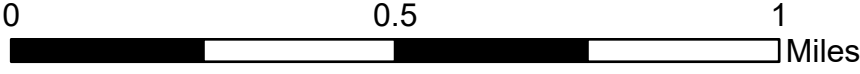
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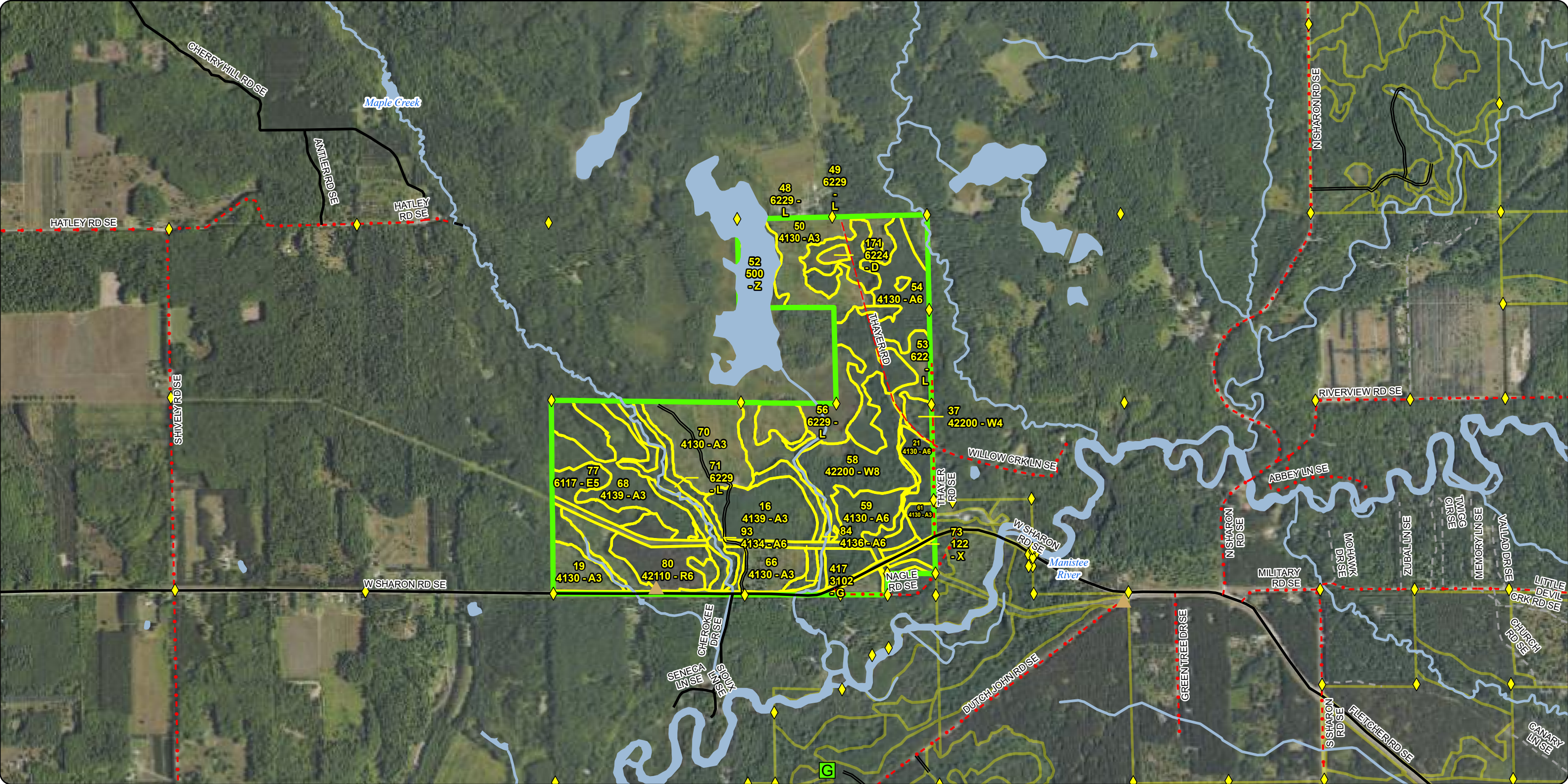
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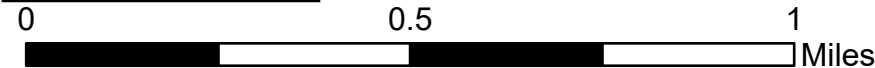









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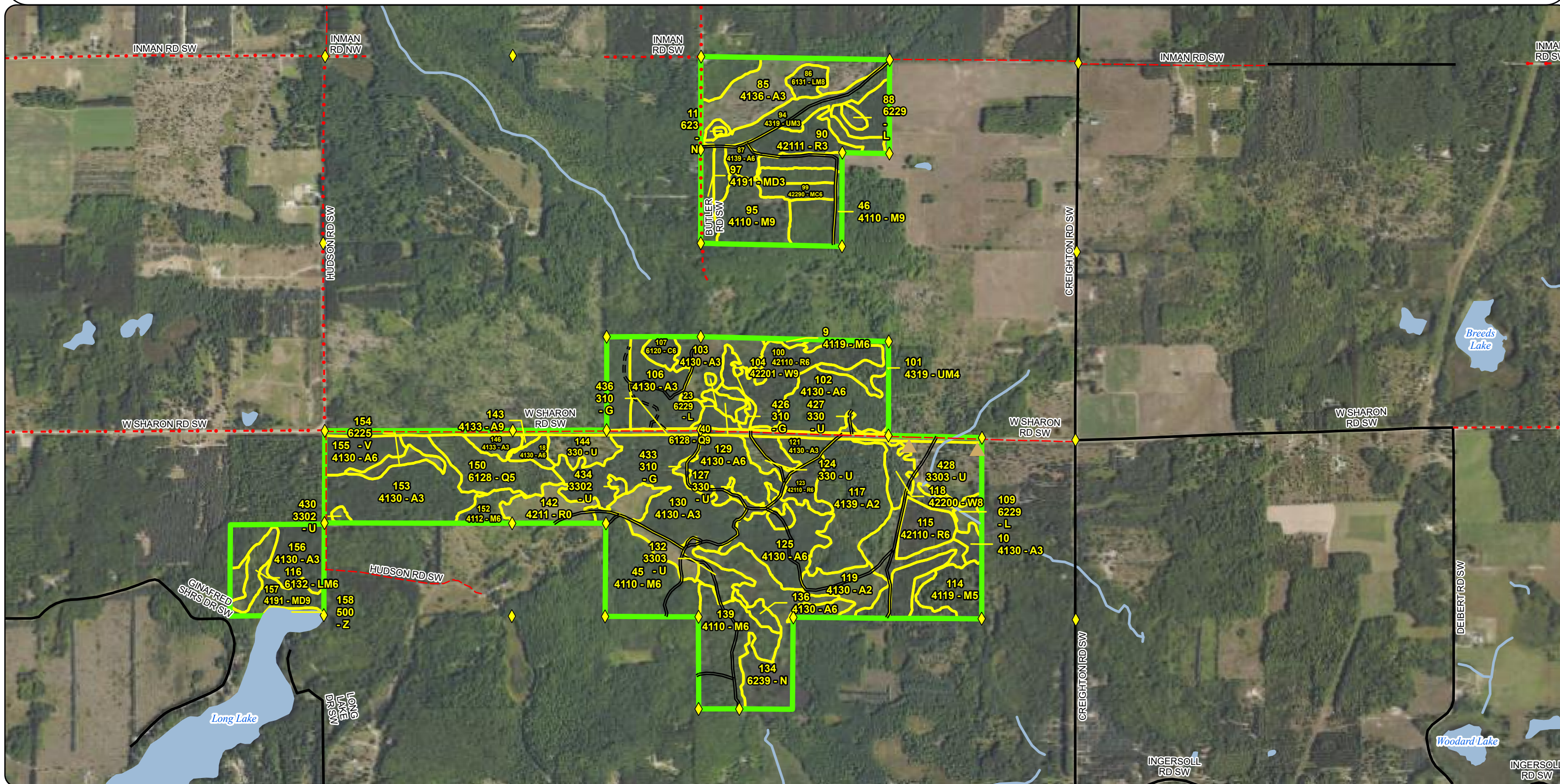




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Streams

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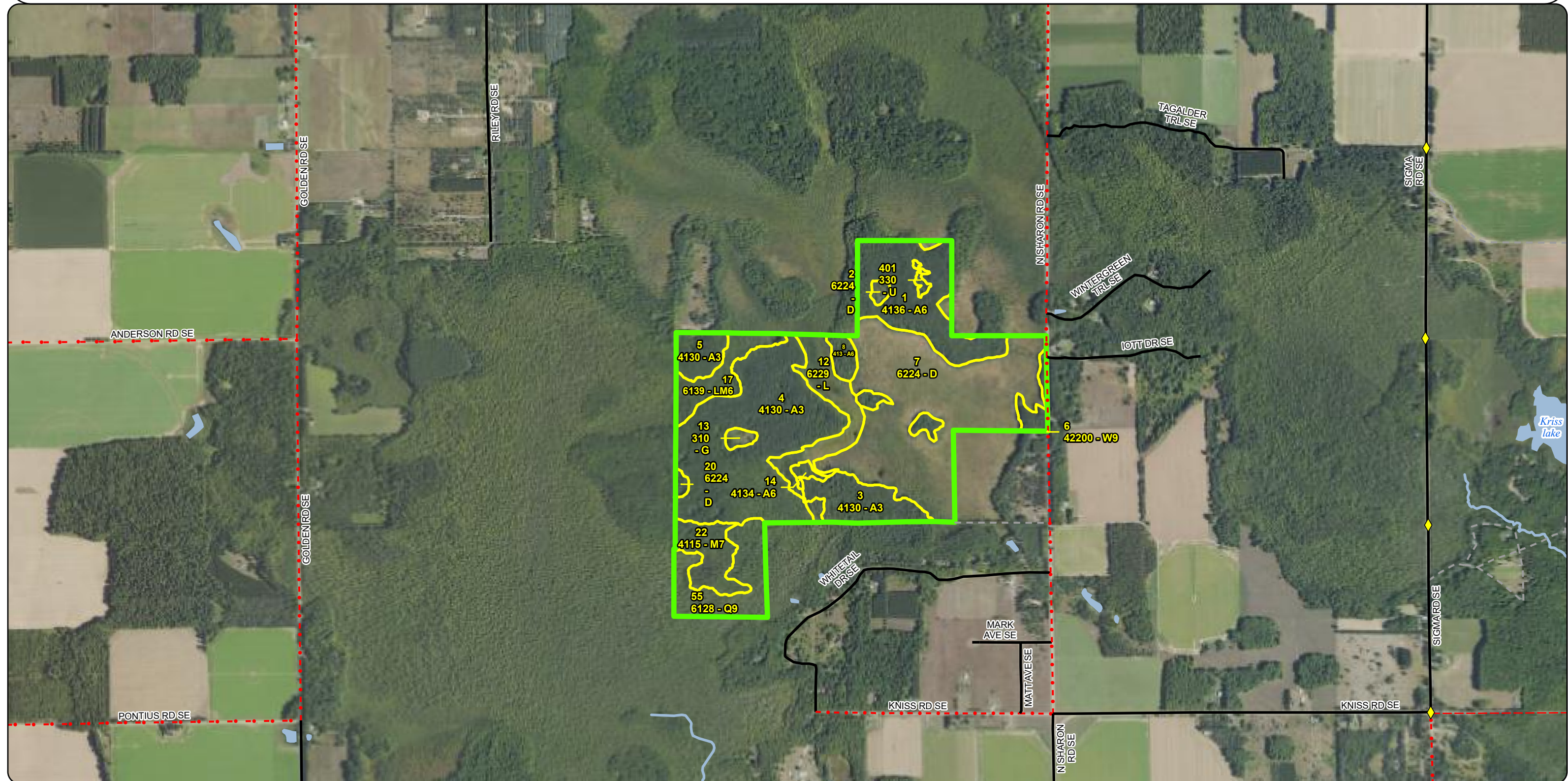
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Special Conservation Areas & Site Conditions Map

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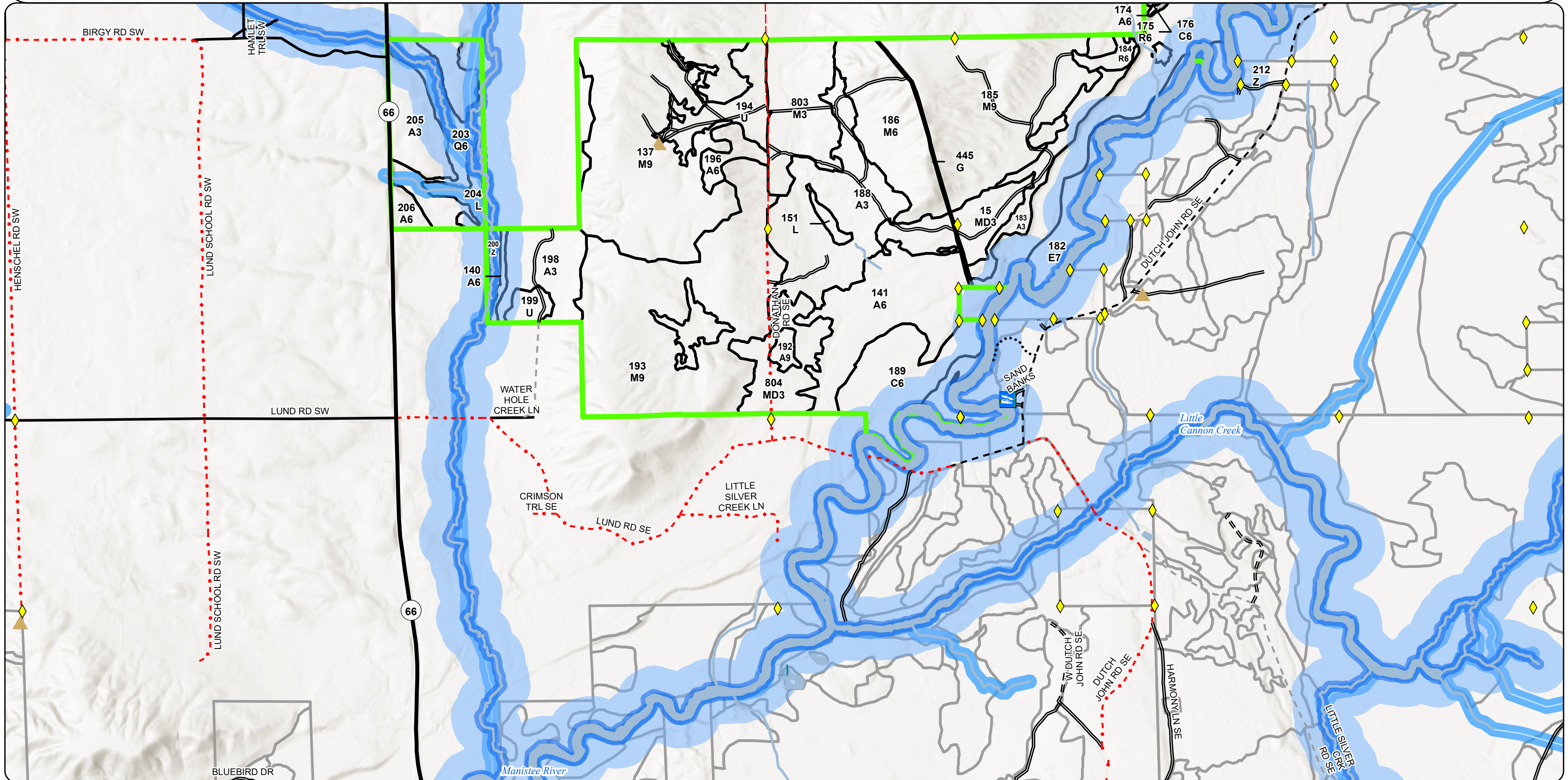
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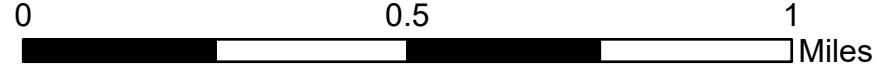
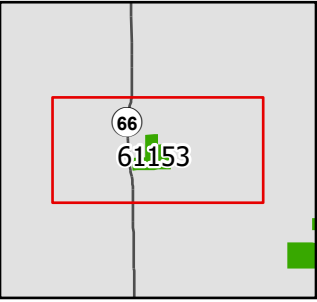
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- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer

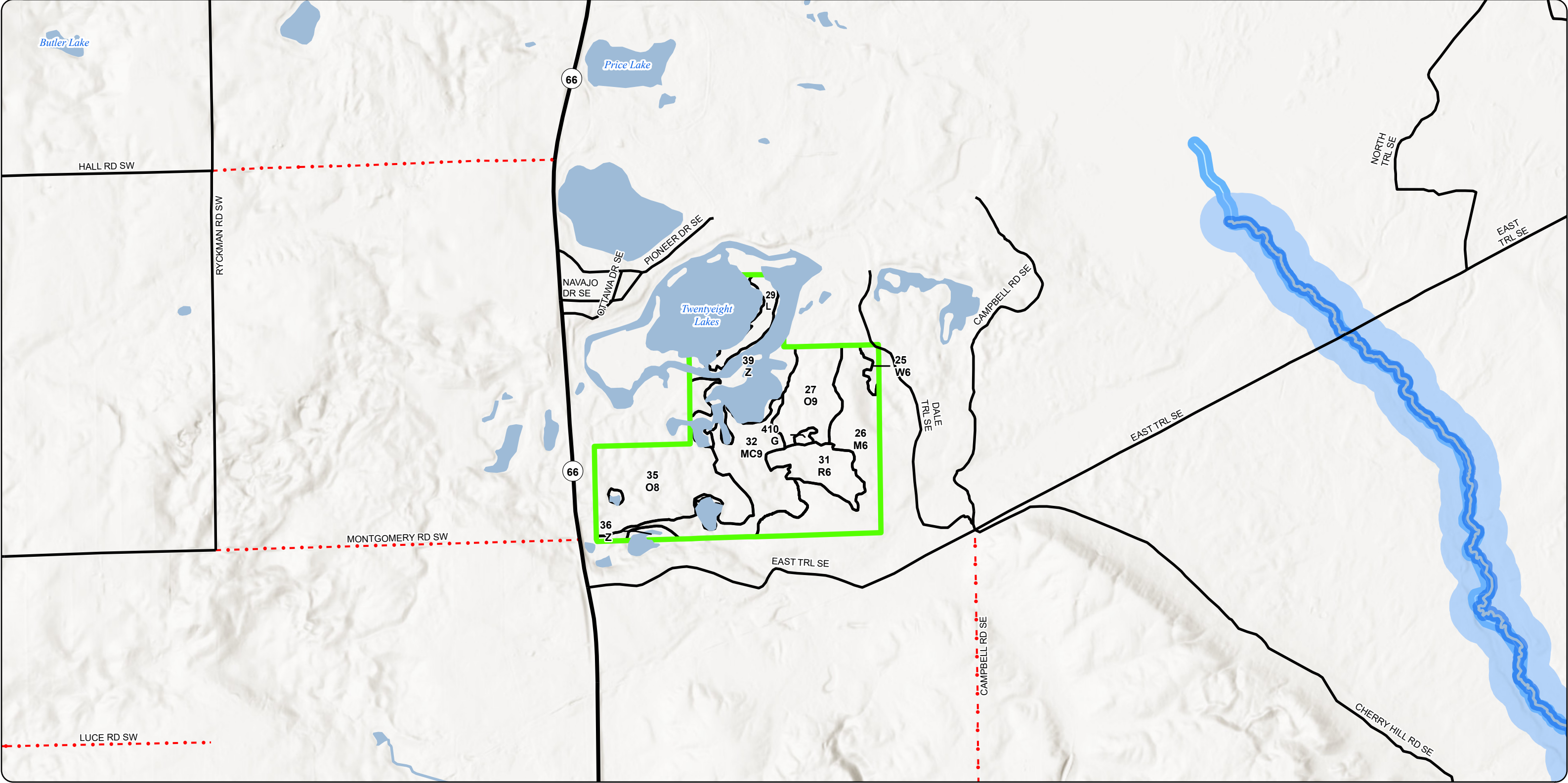


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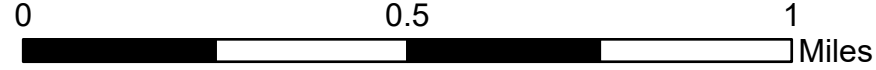
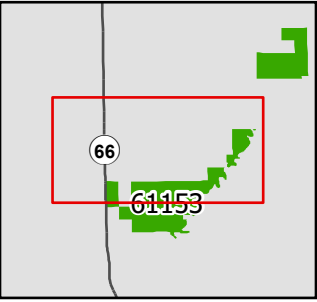


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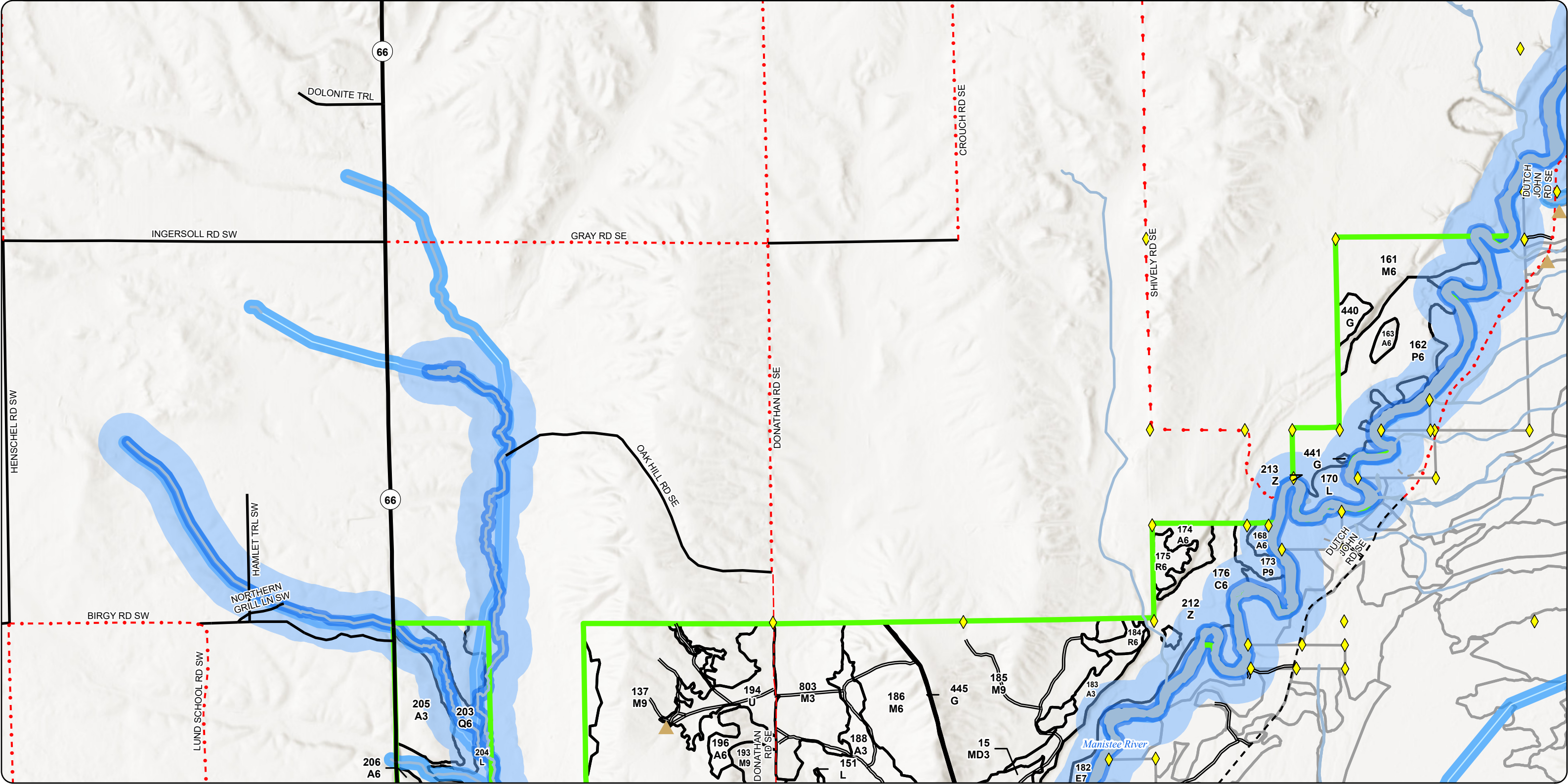


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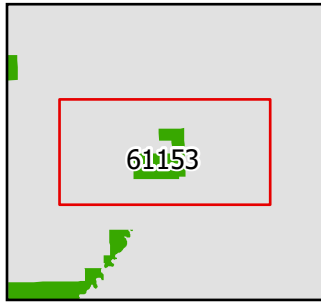


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0 0.5 1 Miles

Survey Grade Corners

Berm

Gate

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Streams

Lakes and Rivers

Compartment Boundary

Stand Boundaries

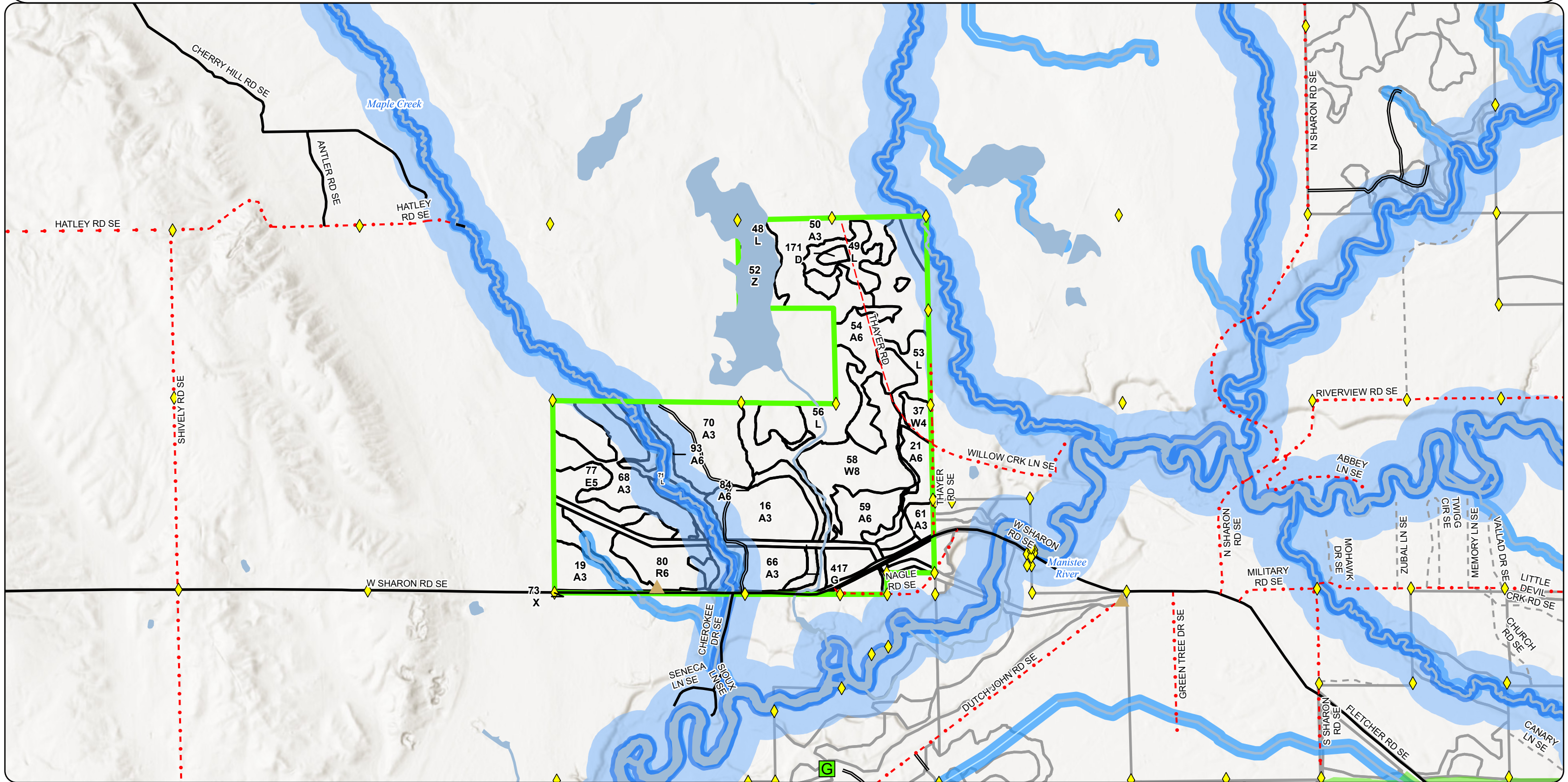
Natural Rivers Vegetative Buffer

Natural Rivers Zoning District

Cold Water Streams










High Priority Trout Stream Buffer

Kirtland's Warbler Habitat



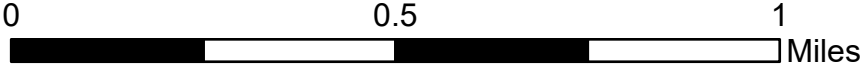
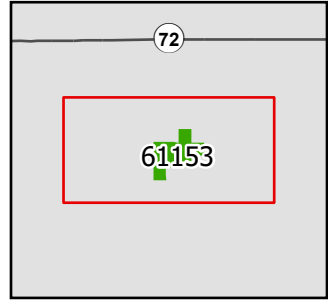
A horizontal scale bar with a black border. It is divided into four segments by three vertical tick marks. The segments are colored black, white, black, and white from left to right. Above the bar, the numbers 0, 0.5, and 1 are placed at the first, second, and third tick marks respectively. To the right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



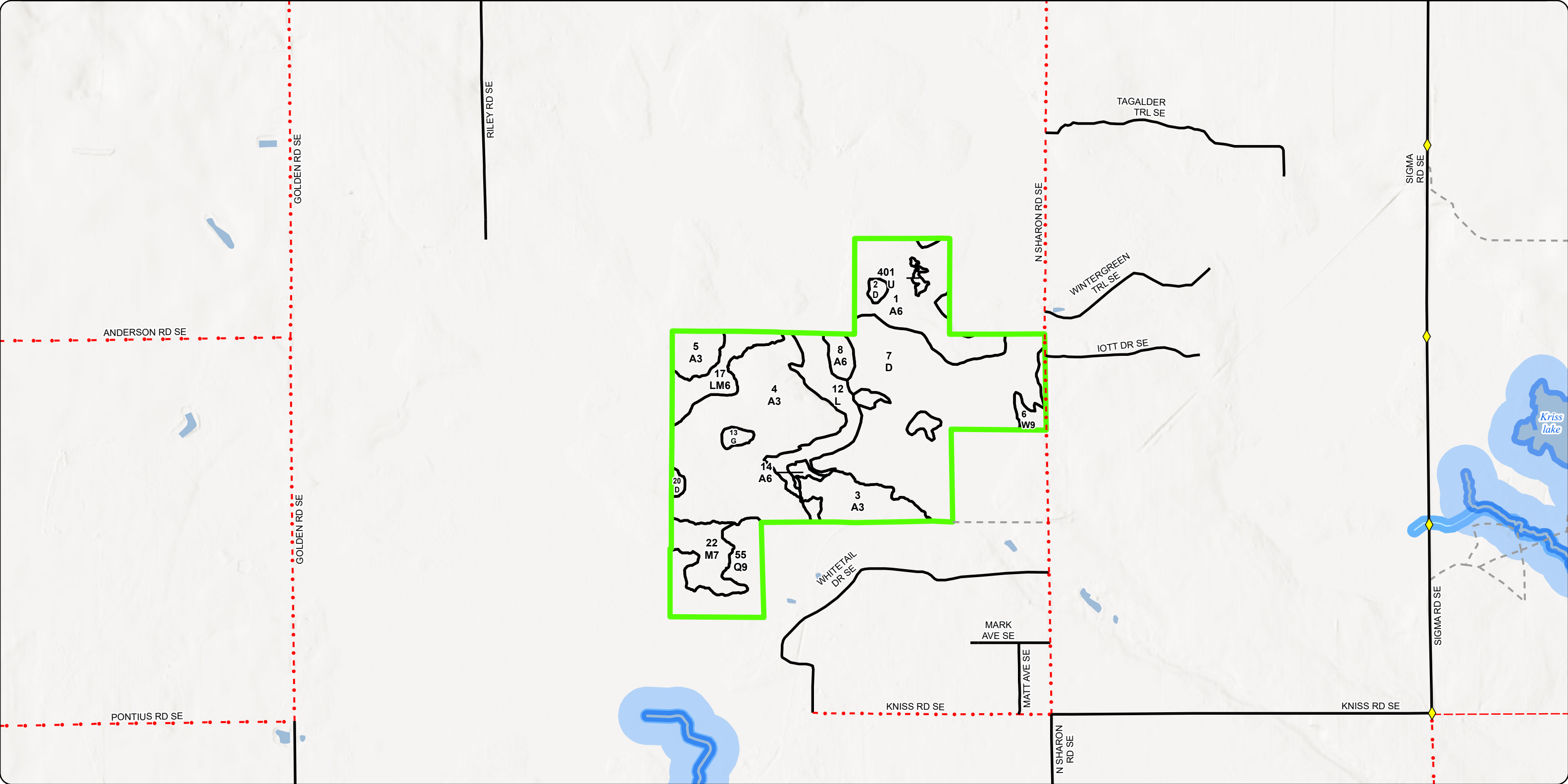
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Report 1 – Total Acres by Cover Type and Age Class

	Age Class																		
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	399	143	56	220	36	92	32	15	0	0	0	0	0	0	0	0	0	993
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	18	34	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	0	6	0	0	0	0	11	0	0	0	0	0	0	0	0	79
Natural Mixed Pines	0	0	0	0	0	11	0	38	0	0	0	0	0	0	0	0	0	0	49
Northern Hardwood	0	0	40	0	0	0	0	0	0	119	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	0	88	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	461	226	76	226	47	92	265	42	186	308	374	45	0	24	0	0	0	2917

Report 2 – Treatment Summary

Traverse City Mgt. Unit

Year of Entry: 2027

Acres of Harvest

Compartment 153

Total Compartment Acres: 2,919

Commercial Harvest - 755

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	74	37	0	0	37	321	0	0	468
Total	284	74	37	0	0	37	341	0	0	806

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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Approved Treatments:

102 61153102-Cut	14.3	4130 - Aspen	6	53	111-140	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, oak and pineRegen:OtherComment:Site Condition:Proposed Start Date: 10/01/2026

117 61153117-Cut	20.6	4139 - Aspen, Mixed Deciduous	2	29	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 Step SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen;Treatments: Monitoring, Artificial Regen (3yr)Acceptable fully stocked stand of red pineRegen:OtherComment:Site Condition:Proposed Start Date: 10/01/2026

125 61153125-Cut	12.8	4130 - Aspen	6	37	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

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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
129 61153129-Cut	12.9	4130 - Aspen	6	49	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Minimal area retention. Include grouse specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple, oak and pines <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
141 61153141-Cut	59.4	4130 - Aspen	6	56	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										
142 61153142-Monitor	10.2	4211 - Planted Red Pine	0	2	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										
142 61153143-Monitor	10.1	4211 - Planted Red Pine	0	2	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										

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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
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 species. <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										
176 61153176-Cut	5.5	6120 - Lowland Cedar	6	106	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										
184 61153184-Cut	8.9	42110 - Planted Red Pine	6	65	111-140	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Final harvest stand. HRD issues cut in the winter. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple, oak and pines <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
193 61153185-Cut	39.3	4111 - S.Maple, Hard Mast Association	9	93	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 t <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> A fully stocked stand of mixed northern hardwood, except for excessive white ash, ironwood and beech regen. <u>Regen:</u> <u>Other</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>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	73	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</u> Aspen, red maple, oak, pines and cherry <u>Regen:</u> <u>Other</u> include grouse spec <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
193 61153193-Cut	74.5	4111 - S.Maple, Hard Mast Association	9	93	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 t <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> A fully stocked stand of mixed northern hardwood, except for excessive white ash, ironwood and beech regen. <u>Regen:</u> <u>Other</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>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
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 an <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	90	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										

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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
206 61153206-Cut	5.5	4130 - Aspen	6	50	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										
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> SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen (3yr) <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										
804 61153804-Cut	6.6	4191 - Mixed Upland Deciduous with Conifer	3	7	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										

Total Treatment 337.5
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 153

Year of Entry: 2027

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

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Compartment: 153

Year of Entry: 2027

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

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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

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 153

Year of Entry: 2027

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

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 153

Year of Entry: 2027

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	39	81-110	N/A																																														
<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>10</td><td>Pole</td><td>7</td><td></td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Pole</td><td>6</td><td>39</td></tr><tr><td>Bigtooth Aspen</td><td>40</td><td>Pole</td><td>6</td><td>39</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>15</td><td>Log/Pole</td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	7		Quaking Aspen	30	Pole	6	39	Bigtooth Aspen	40	Pole	6	39	Balsam Fir	5	Sapling/Pole	4		White Pine	15	Log/Pole	12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Cherry</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	10 - 20 feet	10 - 20 feet	Balsam Fir	Medium	Variable	Variable	Red Maple	Low	Variable	Variable			
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Red Maple	Low	Variable	Variable																																																	
2	6224 - Treed Bog	None	3.4			No																																														
3	4130 - Aspen	Sapling Well	18.4	3	Immature	N/A																																														
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4	4130 - Aspen	Sapling Well	85.3	3	Immature	N/A																																														
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6	42200 - Natural White Pine	Sawtimber Well	4.7	76	81-110	N/A																																														
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
7	6224 - Treed Bog	None	101.4				No																																																					
		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tamarack</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>							Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Low	10 - 20 feet	10 - 20 feet	White Pine	Medium	10 - 20 feet	10 - 20 feet																																								
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8	413 - Aspen	Poletimber Well	8.6	76	81-110		N/A																																																					
9	4119 - Mixed Northern Hardwoods	Poletimber Well	1.1	80	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	17	Immature		N/A	Timber sale completed in 2009 beaver ate much of the stand																																																				
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Bigtooth Aspen	40	Sapling	3	17																																																								
11	623 - Emergent Wetland	None	0.4				No																																																					
12	6229 - Mixed Lowland Shrub	None	21.7				No																																																					
13	310 - Herbaceous Openland	None	2.2				No	Landing from 153 North Sharron Freeze Sale																																																				
14	4134 - Aspen, Spruce/Fir	Poletimber Well	1.8	53	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	7	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						
Red Maple		15	Sapling	1	10						
Beech		15	Sapling	1							
Red Oak		5	Sapling	1							
Bigtooth Aspen		10	Log	12							
White Pine		10	Sapling	1							
Red Pine		25	Sapling	1	7						
Black Cherry		15	Sapling	1							
16	4139 - Aspen, Mixed Deciduous	Sapling Well		24.4	16	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	Sapling	1	13						
Quaking Aspen		20		3	16						
Bigtooth Aspen		35	Sapling	3	16						
Balsam Fir		5	Sapling	3	26						
White Pine		5	Pole/Sap/Log	8	66						
17	6139 - Mixed Lowland Forest	Poletimber Well		13.9	61	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
Red Maple		25	Pole/Log	8	61	Tag Alder			Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		20	Pole/Log	8		Balsam Fir			Low	5 - 10 feet	5 - 10 feet
Balsam Fir		10	Pole	6							
Northern White Cedar		15	Log/Pole	10							
Tamarack		10	Pole	8							
White Pine		15	Log/Pole	10							
Hemlock		5	Pole/Log	8							
18	4130 - Aspen	Poletimber Well		3.3	47	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		13	Pole	6	47	Beech		Low	5 - 10 feet	5 - 10 feet	
Beech		1	Pole	8		White Pine		Low	5 - 10 feet	5 - 10 feet	
Red Oak		5	Pole/Log	8							
White Oak		1	Pole	8							
Bigtooth Aspen		75	Pole	8	47						
White Pine		5	Log/Pole	10	86						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
19	4130 - Aspen	Sapling Well	20.5	6	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				
Red Maple		15	Sapling	1	6				
Quaking Aspen		40	Sapling	1	6				
Bigtooth Aspen		30	Sapling	1	6				
Balsam Fir		10	Sapling/Pole	4					
White Pine		5	Pole	8					
20	6224 - Treed Bog	None	1.3			No	treed bog, filling in with white pine.		
21	4130 - Aspen	Poletimber Well	10.2	37	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Paper Birch		5	Sapling/Pole	4		White Pine	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		30	Pole	6	37				
Bigtooth Aspen		50	Pole	6	37				
White Pine		5	Log/Pole	10					
22	4115 - Y.Birch, Hemlock NH	Sawtimber Poor	14.8	106	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
Sugar Maple		40	Log/XLog	15	106	Beech	Low	5 - 10 feet	5 - 10 feet
Yellow Birch		25	Log/Pole	12		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
White Pine		15	Log/Pole/XLog	14					
Hemlock		20	Log/Pole	12	106				
23	6229 - Mixed Lowland Shrub	None	0.4			No	Small wet depression.		
25	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	2.5	67	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Log/Pole/Sap	10	87	Red Maple	Medium	5 - 10 feet	5 - 10 feet
White Pine		75	Pole	7	67				
26	4119 - Mixed Northern Hardwoods	Poletimber Well	40.5	86	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
Red Maple		60	Log/Pole	10	86	Red Maple	Medium	5 - 10 feet	5 - 10 feet
Red Oak		35	Log/XLog	14	116	Bigtooth Aspen	Low	< 5 feet	< 5 feet
White Pine		5	Log/Pole/Sap	10	86	Ironwood	Medium	5 - 10 feet	5 - 10 feet
						Beech	High	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	101	51-80	N/A	Stand had was harvested in 2012 current regeneration is mostly undesirable tree species.																																														
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29	6229 - Mixed Lowland Shrub	None	7.6			No																																															
31	42110 - Planted Red Pine	Poletimber Well	15.0	71	171-200	N/A																																															
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32	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	38.1	60	81-110	N/A																																															
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36	500 - Water	None	5.0			No																																															
37	42200 - Natural White Pine	Poletimber Poor	4.3	116	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.																																														
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White Pine	Low	5 - 10 feet	5 - 10 feet																																																		
Red Maple	Medium	< 5 feet	< 5 feet																																																		
Bigtooth Aspen	Medium	< 5 feet	< 5 feet																																																		
39	500 - Water	None	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	91	51-80	N/A	Small, wetland pocket. Very dense cedar at NW end.																																														
		<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>13</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Quaking Aspen</td><td>10</td><td>Log</td><td>14</td><td></td></tr><tr><td>Balsam Fir</td><td>2</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Northern White Cedar</td><td>25</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Tamarack</td><td>40</td><td>Log/Pole</td><td>12</td><td>91</td></tr><tr><td>White Pine</td><td>10</td><td>Log/XLog</td><td>14</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	13	Pole	6		Quaking Aspen	10	Log	14		Balsam Fir	2	Pole	6		Northern White Cedar	25	Pole/Sapling	6		Tamarack	40	Log/Pole	12	91	White Pine	10	Log/XLog	14		<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>Variable</td><td>Variable</td></tr><tr><td>Northern White Cedar</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Variable	Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
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Northern White Cedar	Low	10 - 20 feet	10 - 20 feet																																																		
45	4110 - Sugar Maple Association	Poletimber Well	29.9	88	81-110	N/A	Thinned 30 some years ago. Looked like an aspen removal																																														
		<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>85</td><td>Pole/Log</td><td>8</td><td>88</td></tr><tr><td>Basswood</td><td>10</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Beech</td><td>5</td><td>Pole</td><td>8</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	85	Pole/Log	8	88	Basswood	10	Pole	8		Beech	5	Pole	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Sugar Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	10 - 20 feet	10 - 20 feet	Sugar Maple	Medium	10 - 20 feet	10 - 20 feet															
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46	4110 - Sugar Maple Association	Sawtimber Well	2.3	89	111-140	N/A																																															
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48	6229 - Mixed Lowland Shrub	None	13.3			No	Few scattered trees mostly white pine																																														
49	6229 - Mixed Lowland Shrub	None	10.4			No																																															
50	4130 - Aspen	Sapling Well	27.9	6	Immature	N/A																																															
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Red Pine	5	Sapling/Pole	4																																																		
52	500 - Water	None	8.4		Unspecified	No	2015: Shallow pond with patches of emergent vegetation. Deeper at south end.																																														
53	622 - Lowland Shrub	None	12.3			No																																															

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
54	4130 - Aspen	Poletimber Well	43.3	37	81-110	N/A																																																	
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55	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	24.2	136	111-140	N/A																																																	
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56	6229 - Mixed Lowland Shrub	None	27.1			No	few scattered trees and varied amount of beaver activity																																																
58	42200 - Natural White Pine	Sawtimber Medium	29.1	116	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>Log/Pole</td><td>13</td><td>116</td></tr><tr><td>Red Pine</td><td>15</td><td>Log/Pole</td><td>13</td><td>116</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	Log/Pole	13	116	Red Pine	15	Log/Pole	13	116	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	37	81-110	N/A																																																	
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61	4130 - Aspen	Sapling Well	3.7	16	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>Red Maple</td><td>20</td><td>Sapling</td><td>1</td><td>16</td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Sapling</td><td>2</td><td>16</td></tr><tr><td>Bigtooth Aspen</td><td>40</td><td>Sapling</td><td>2</td><td>16</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Sapling</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Log/Pole/Sap</td><td>10</td><td>106</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Sapling	1	16	Quaking Aspen	30	Sapling	2	16	Bigtooth Aspen	40	Sapling	2	16	Balsam Fir	5	Sapling	4		White Pine	5	Log/Pole/Sap	10	106																		
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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	6	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	16	Immature	N/A																																									
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70	4130 - Aspen	Sapling Well	38.0	6	Immature	N/A																																									
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White Pine	10	Sapling/Pole	4																																												
71	6229 - Mixed Lowland Shrub	None	10.3			No	Tag Alder marsh with a stream drainage																																								
73	122 - Road/Parking Lot	None	6.3			No																																									
77	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	25.2	63	51-80	N/A																																									
<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>45</td><td>Pole</td><td>6</td><td>63</td></tr><tr><td>Quaking Aspen</td><td>35</td><td>Pole</td><td>6</td><td>63</td></tr><tr><td>Balsam Fir</td><td>10</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Northern White Cedar</td><td>5</td><td>Pole</td><td>6</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Pole</td><td>8</td><td></td></tr></table>							Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	45	Pole	6	63	Quaking Aspen	35	Pole	6	63	Balsam Fir	10	Pole	6		Northern White Cedar	5	Pole	6		White Pine	5	Pole	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	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																																																		
80	42110 - Planted Red Pine	Poletimber Well	19.2	61	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.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td>Pole/Log</td><td>9</td><td>61</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Pine	100	Pole/Log	9	61																																									
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84	4136 - Aspen, Mixed Conifer	Poletimber Well	10.5	61	111-140	N/A	Left for retention and BMP along Maple Creek																																																		
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85	4136 - Aspen, Mixed Conifer	Sapling Well	25.4	5	Immature	N/A	Final harvest 153 West Sharon Block, 61-168-17. Cut Dec 2021-Feb 2022.																																																		
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Hemlock	10	Log/Pole/XLog	10																																																						
Black Cherry	5	Sapling	1																																																						
86	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Medium	5.8	94	81-110	N/A																																																			
<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>25</td><td>Pole/Log</td><td>9</td><td>94</td></tr><tr><td>Quaking Aspen</td><td>20</td><td>Pole/Log</td><td>9</td><td></td></tr><tr><td>Northern White Cedar</td><td>15</td><td>Pole</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>25</td><td>Log/Pole/XLog</td><td>12</td><td>94</td></tr><tr><td>Hemlock</td><td>15</td><td>Log</td><td>10</td><td></td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Maple	25	Pole/Log	9	94	Quaking Aspen	20	Pole/Log	9		Northern White Cedar	15	Pole	8		White Pine	25	Log/Pole/XLog	12	94	Hemlock	15	Log	10																						
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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	37	81-110	N/A	A few scattered oak.																																																						
<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>1</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>Red Maple</td><td>20</td><td>Pole/Sapling</td><td>5</td><td></td></tr><tr><td>Yellow Birch</td><td>1</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>50</td><td>Pole</td><td>6</td><td>37</td></tr><tr><td>Hemlock</td><td>1</td><td>Pole/Log</td><td>6</td><td></td></tr><tr><td>Black Cherry</td><td>7</td><td>Sapling/Pole</td><td>3</td><td></td></tr><tr><td>Ironwood</td><td>20</td><td>Sapling</td><td>2</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	1	Sapling/Pole	4		Red Maple	20	Pole/Sapling	5		Yellow Birch	1	Sapling/Pole	4		Bigtooth Aspen	50	Pole	6	37	Hemlock	1	Pole/Log	6		Black Cherry	7	Sapling/Pole	3		Ironwood	20	Sapling	2															
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Black Cherry	7	Sapling/Pole	3																																																										
Ironwood	20	Sapling	2																																																										
88	6229 - Mixed Lowland Shrub	None	1.7			No																																																							
90	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	19.6	27	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>Red Maple</td><td>10</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td>Sapling</td><td>2</td><td></td></tr><tr><td>Red Pine</td><td>60</td><td>Sapling/Pole</td><td>4</td><td>27</td></tr><tr><td>Jack Pine</td><td>10</td><td>Sapling</td><td>3</td><td></td></tr><tr><td>Black Cherry</td><td>10</td><td>Sapling</td><td>3</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling/Pole	4		Red Oak	10	Sapling	2		Red Pine	60	Sapling/Pole	4	27	Jack Pine	10	Sapling	3		Black Cherry	10	Sapling	3																									
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Black Cherry	10	Sapling	3																																																										
93	4134 - Aspen, Spruce/Fir	Poletimber Well	15.9	61	111-140	N/A	Left for retention and BMP along Maple Creek																																																						
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Balsam Fir	25	Pole/Sapling	7	61																																																									
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94	4319 - Mixed Upland Forest	Sapling Well	43.2	17	Immature	N/A																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
95	4110 - Sugar Maple Association	Sawtimber Well	17.9	89	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>Log</td><td>12</td><td>89</td></tr><tr><td>Red Maple</td><td>4</td><td>Log</td><td>12</td><td></td></tr><tr><td>Basswood</td><td>2</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Beech</td><td>3</td><td>Log</td><td>14</td><td></td></tr><tr><td>White Pine</td><td>2</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Black Cherry</td><td>3</td><td>Log</td><td>12</td><td></td></tr><tr><td>Ironwood</td><td>4</td><td>Pole</td><td>6</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	82	Log	12	89	Red Maple	4	Log	12		Basswood	2	Log/Pole	10		Beech	3	Log	14		White Pine	2	Log/Pole	12		Black Cherry	3	Log	12		Ironwood	4	Pole	6		<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>10 - 20 feet</td><td>10 - 20 feet</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	Low	10 - 20 feet	10 - 20 feet	Ironwood	High	10 - 20 feet	10 - 20 feet
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97	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	6.3	30	Immature	N/A																																																	
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99	42290 - Natural Mixed Pine	Poletimber Well	10.7	41	81-110	N/A																																																	
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100	42110 - Planted Red Pine	Poletimber Well	24.0	60	111-140	N/A	Row thinned (1st thin) 2018 with 153 West Sharon Block, 61-168-17.																																																
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Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
101	4319 - Mixed Upland Forest	Poletimber Poor			6.8	63	1-50	N/A																																																			
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102	4130 - Aspen	Poletimber Well			24.5	53	111-140	N/A																																																			
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103	4130 - Aspen	Sapling Well			15.4	8	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	93	111-140	N/A	Small, variable stand. Larger white pine is relatively limby. Aspen is in poor shape. Wet along south and west edges.																																																		
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106	4130 - Aspen	Sapling Well			19.3	29	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	97	51-80	N/A	Quite a bit of blow downs																																														
<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>20</td><td>Pole</td><td>7</td><td></td></tr><tr><td>Black Spruce</td><td>10</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Northern White Cedar</td><td>70</td><td>Pole</td><td>7</td><td>97</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	20	Pole	7		Black Spruce	10	Pole	8		Northern White Cedar	70	Pole	7	97	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	5 - 10 feet	Balsam Fir	Medium	5 - 10 feet	5 - 10 feet															
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109	6229 - Mixed Lowland Shrub	None	3.9			No	Old backed up beaver flooding																																														
114	4119 - Mixed Northern Hardwoods	Poletimber Medium	12.2	106	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	62	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	116	111-140	N/A	Lowland area with drainage																																														
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117	4139 - Aspen, Mixed Deciduous	Sapling Medium	33.5	29	Immature	N/A																																															
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Black Cherry	20	Sapling	4	29																																																	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
118	42200 - Natural White Pine	Sawtimber Medium	6.5	76	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole/Log	8		White Pine	Medium	5 - 10 feet	5 - 10 feet
White Pine		80	Log/Pole/Sap	10	76	Red Maple	Low	5 - 10 feet	5 - 10 feet
Black Cherry		10	Pole	7					
119	4130 - Aspen	Sapling Medium	11.2	8	Immature	N/A	Cut in 2018 with 153 West Sharon Block, 61-168-17. Center part south of road was rather wet. Left retention along the west end.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		15	Sapling	1					
Quaking Aspen		55	Sapling	1	8				
Bigtooth Aspen		25	Sapling	1					
Black Cherry		5	Sapling	1					
121	4130 - Aspen	Sapling Well	4.8	8	Immature	N/A	Cut 2018 with 153 West Sharon Block, 61-168-17. Clearcut with 2" spec except cedar, hemlock and trees marked with green paint.Very little cedar, hemlock or white pine left in the stand		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		20	Sapling	2					
Bigtooth Aspen		80	Sapling	2	8				
123	42110 - Planted Red Pine	Poletimber Well	11.8	60	111-140	N/A	Row thinned (first thin) 2018 with 153 West Sharon Block, 61-168-17		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		98	Log/Pole	10	60	Red Maple	Low	5 - 10 feet	5 - 10 feet
Black Cherry		2	Pole/Log	8		Beech	Low	5 - 10 feet	5 - 10 feet
						Ironwood	Low	5 - 10 feet	5 - 10 feet
124	330 - Low-Density Trees	None	3.2			No			
125	4130 - Aspen	Poletimber Well	25.6	37	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	3		Black Cherry	Low	10 - 20 feet	10 - 20 feet
Quaking Aspen		75	Pole	6	37	Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet
Black Cherry		15	Sapling/Pole	4		Red Maple	Low	>20 feet	>20 feet
127	330 - Low-Density Trees	None	2.5			No	Filling in, mostly with cherry		
129	4130 - Aspen	Poletimber Well	21.6	49	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Sugar Maple		5	Pole	6					
Quaking Aspen		35	Pole/Log	8	49				
Bigtooth Aspen		50	Pole/Log	8	49				
White Pine		5	Log	10					
Black Cherry		5	Pole	6					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
130	4130 - Aspen	Sapling Well	56.3	17	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.																																			
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Black Cherry	2	Pole	8																																							
132	3303 - Mixed Low Density Trees	None	6.6			No	Scattered maple, cherry and aspen																																			
134	6239 - Mixed Emergent Wetland	None	28.9			No	Beaver flooding.																																			
136	4130 - Aspen	Poletimber Well	2.9	29	Immature	N/A	Scattered hardwoods logs trees scattered throughout. Aspen is about 30' tall and is starting to convert to a pole stand.																																			
<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>5</td><td>Log/Pole</td><td>10</td><td>81</td></tr><tr><td>Basswood</td><td>5</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Quaking Aspen</td><td>88</td><td>Pole</td><td>5</td><td>29</td></tr><tr><td>Black Cherry</td><td>2</td><td>Pole</td><td>8</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	5	Log/Pole	10	81	Basswood	5	Log/Pole	10		Quaking Aspen	88	Pole	5	29	Black Cherry	2	Pole	8											
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137	4110 - Sugar Maple Association	Sawtimber Well	122.0	93	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.																																			
<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>80</td><td>Log/Pole</td><td>10</td><td>93</td></tr><tr><td>Red Maple</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr><tr><td>Basswood</td><td>5</td><td>Log</td><td>14</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Pole</td><td>8</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	80	Log/Pole	10	93	Red Maple	5	Pole/Log	8		Basswood	5	Log	14		Red Oak	5	Log/Pole	12		Black Cherry	5	Pole	8						
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139	4110 - Sugar Maple Association	Poletimber Well	27.1	87	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>Sugar Maple</td><td>46</td><td>Pole/Log</td><td>9</td><td>87</td></tr><tr><td>Basswood</td><td>45</td><td>Pole/Log</td><td>9</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>6</td><td>Sapling</td><td>1</td><td>6</td></tr><tr><td>Black Cherry</td><td>3</td><td>Pole</td><td>9</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	46	Pole/Log	9	87	Basswood	45	Pole/Log	9		Bigtooth Aspen	6	Sapling	1	6	Black Cherry	3	Pole	9											
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140	4134 - Aspen, Spruce/Fir	Poletimber Well	2.5	66	81-110	N/A	strip left along wetland edge. leave for long term retention, cover and BMP.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
141	4130 - Aspen	Poletimber Well	59.4	56	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	2	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	52	81-110	N/A	Retention left from harvest on stand 146																																												
<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>30</td><td>Pole/Log</td><td>8</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>50</td><td>Log</td><td>10</td><td>52</td></tr><tr><td>White Pine</td><td>20</td><td>Pole/Log/Sap</td><td>6</td><td>76</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Pole/Log	8		Bigtooth Aspen	50	Log	10	52	White Pine	20	Pole/Log/Sap	6	76	<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></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	10 - 20 feet	10 - 20 feet																				
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144	330 - Low-Density Trees	None	8.2			No	Scattered cherry, oak and white pine throughout																																												
146	4133 - Aspen, Mixed Pine	Sapling Well	4.1	8	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	87	51-80	N/A	Drainage running through stand																																												
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151	6229 - Mixed Lowland Shrub	None	3.0			No																																															
152	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.7	116	51-80	N/A	Thinned 2018 with 153 West Sharon Block, 61-168-17.																																														
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154	6225 - Bog	None	4.2			No																																															
155	4130 - Aspen	Poletimber Well	11.0	47	111-140	N/A																																															
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156	4130 - Aspen	Sapling Well	19.0	30	Immature	N/A																																															
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments
157	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.2	86	81-110	N/A		

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	65	201+	N/A	Red pine has never been row-thinned. Some mortality from self-thinning. Little to no understory. Some wolfy 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
Sugar Maple	5	Log	12		Beech	Low		5 - 10 feet	5 - 10 feet
Red Maple	5	Log	12						
Red Pine	90	Pole/Log/Sap	8	65					
176	6120 - Lowland Cedar	Poletimber Well	61.8	106	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	Log/Pole	10		Balsam Fir	Low		5 - 10 feet	5 - 10 feet
Yellow Birch	5	Log/Pole	10						
Paper Birch	2	Pole	8						
Quaking Aspen	10	Pole	8						
Balsam Fir	10		6						
Northern White Cedar	60	Log/Pole	10	106					
White Pine	5	XLog/Log	18						
Hemlock	3	Pole	8						
182	6113 - Lowland Maple	Sawtimber Poor	37.9	89	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	Log/Pole	14	89	Tag Alder	Low	5 - 10 feet		5 - 10 feet
Basswood	10	Log/Pole	10		Balsam Fir	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	7	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	Sapling	1						
Beech	10	Sapling	1						
Red Oak	5	Log/Pole	10						
Quaking Aspen	40		2	7					
Balsam Fir	5	Sapling	1						
Black Cherry	10	Sapling	1						
Ironwood	10	Sapling	1						
184	42110 - Planted Red Pine	Poletimber Well	8.9	65	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	Pole	8	65	Beech	Medium		5 - 10 feet	5 - 10 feet
					Red Maple	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	109	111-140	N/A	Thinned in October 2008 as Snowy Hills, 61-015-07-01. Thinned in 1992 Donathon Road Sale																																														
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186	4110 - Sugar Maple Association	Poletimber Well	47.6	109	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	7	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	101	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	73	81-110	N/A																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
193	4111 - S.Maple, Hard Mast Association	Sawtimber Well	140.3	93	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	None	24.8			No																																																									
196	4139 - Aspen, Mixed Deciduous	Poletimber Well	14.7	38	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.																																																								
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198	4130 - Aspen	Sapling Well	27.2	18	Immature	N/A	Stand final harvested 6/2008 under Taffletown Aspen 078-07-01.																																																								
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199	3301 - Low Density Deciduous Trees	None	5.9			No																																																									
200	500 - Water	None	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	90	81-110	N/A			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	10	Pole/Log	9	90	Balsam Fir	High	10 - 20 feet	10 - 20 feet
		Quaking Aspen	15	Pole/Log	9					
		Bigtooth Aspen	5	Log/Pole	12	90				
		Balsam Fir	15	Pole	7	90				
		Black Spruce	15	Pole	6	90				
		Northern White Cedar	20	Pole	7	116				
		White Pine	20	Log/XLog/Pole	12	90				
204	622 - Lowland Shrub	None		9.0			No			
205	4130 - Aspen	Sapling Well		34.1	9	Immature	N/A	Stand cut spring 2018.		
		Canopy Species	% Cover	Size Class	DBH	Age				
		Red Maple	15	Sapling	1	9				
		Bigtooth Aspen	75	Sapling	2	9				
		White Pine	10	Pole/Log	8	76				
206	4130 - Aspen	Poletimber Well		5.5	50	81-110	N/A			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	10	Pole	6		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
		Bigtooth Aspen	85	Pole/Log	8	50				
		White Pine	5	Log/Pole	10	86				
212	500 - Water	None		17.0			No	Manistee River		
213	500 - Water	None		8.7		Unspecified	No	Manistee River.		
401	330 - Low-Density Trees	None		1.2			No	Opening that is filling in with open-grown white pine and black cherry.		
410	310 - Herbaceous Openland	None		1.0			No	Used as landing for surrounding sale		
417	3102 - Grass	None		11.0						
426	310 - Herbaceous Openland	None		1.0			No	OPIC - FMD: 3/16/2005 Almost a U-type. (Grieve)		
427	330 - Low-Density Trees	None		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	None	37.2			No		
430	3302 - Low Density Conifer Trees	None	1.0			No	scattered white pine	
433	310 - Herbaceous Openland	None	1.9			No	Contains spotted knapweed.	
434	3302 - Low Density Conifer Trees	None	1.0			No		
436	310 - Herbaceous Openland	None	15.7				Power line	
440	310 - Herbaceous Openland	None	4.5			No	No access	
441	310 - Herbaceous Openland	None	0.3			No		
445	310 - Herbaceous Openland	None	2.6					
803	4112 - Maple, Beech, Cherry Association	Sapling Well	40.4	10	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	7	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.	