

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

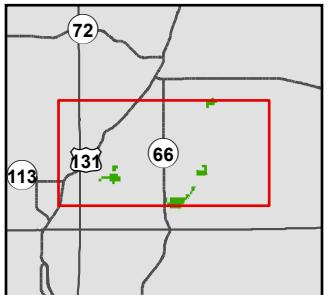
Site condition boundaries

Details on the road access system

Cover Type & Treatments Map

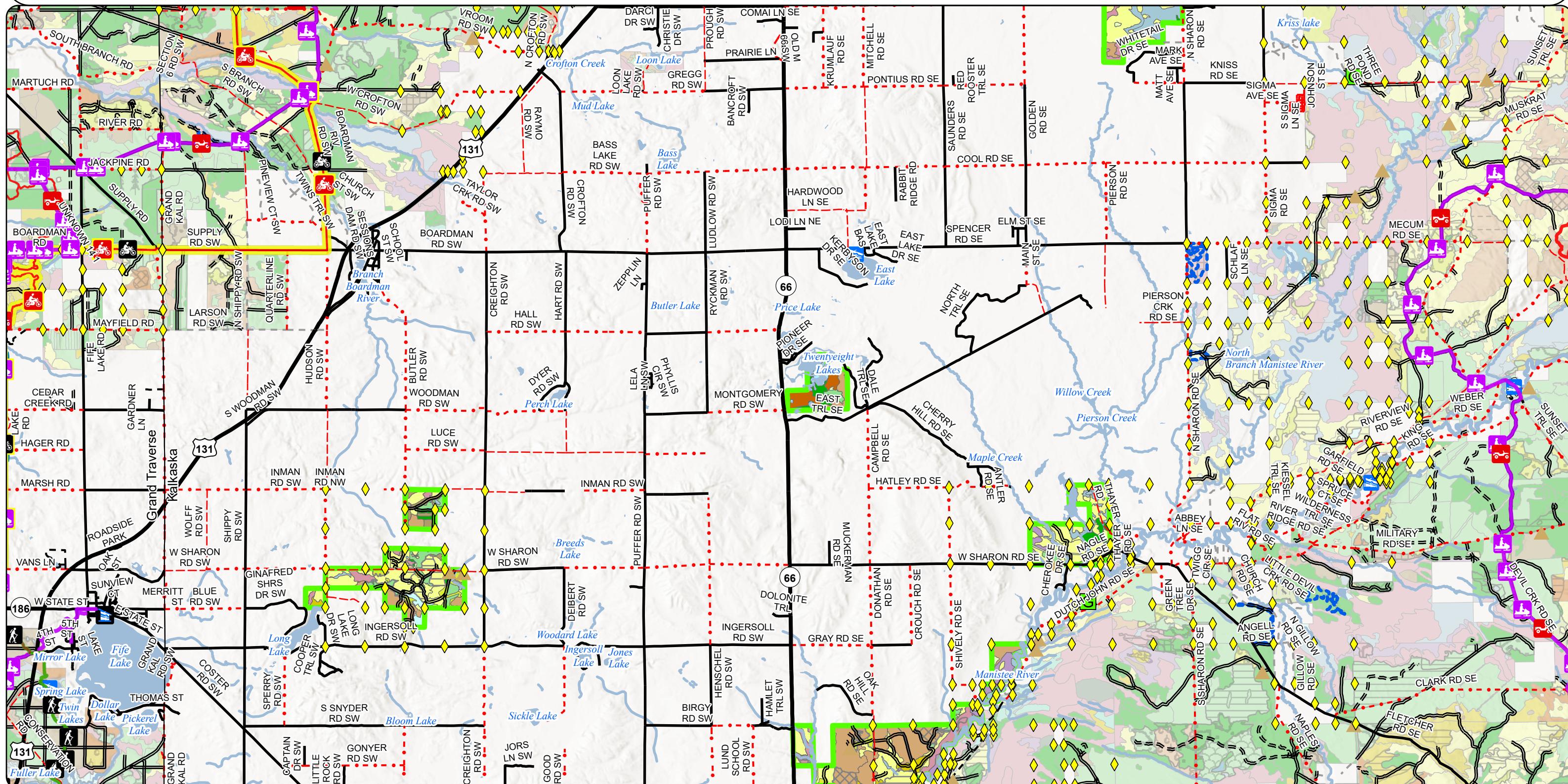
Compartiment: 61153

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

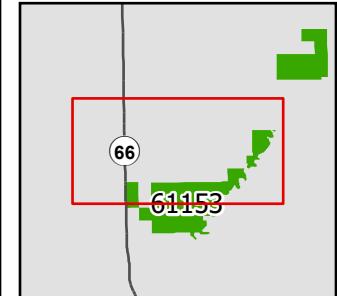


2 3 4

■ Miles



Stand Boundary Map



Compartment: 61153
 T25N R07W 14,21-22
 County: Kalkaska
 Unit: Traverse City
 Mgmt. Area: Kalkaska Sandy Moraines
 YOE: 2027
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 Date Exported: 1/12/2026
 Map Phase: Post Maps



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

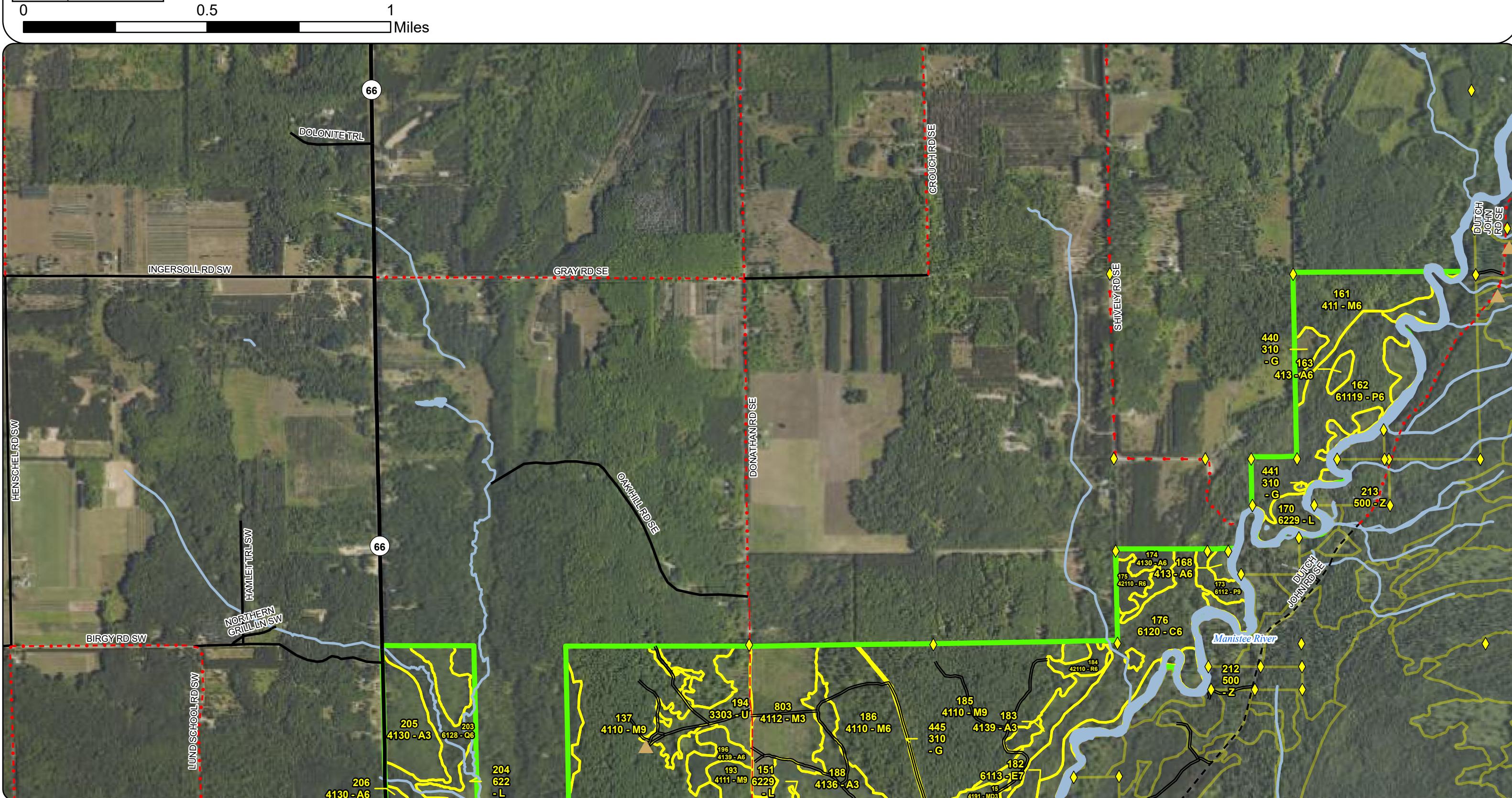
611 - Lowland Deciduous Forest

612 - Lowland Coniferous Forest

310 - Herbaceous Openland

330 - Low Density Trees

622 - Lowland Shrub



Stand Boundary Map

Compartment: 61153
T25N R07W 14,21-22
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0 0.5 1 Mile

- ◆ Survey Grade Corners
- ▲ Berm
- Gate
- ~ Culvert
- Boating Access Site

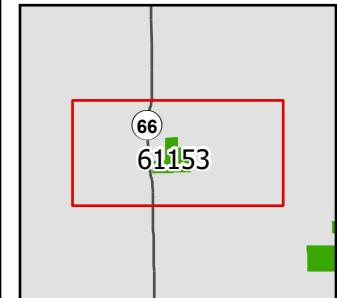
— DNR - Secondary Forest Road

- ==== 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
- Streams
- Lakes and Rivers
- Compartment Boundary**
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous

- 421 - Planted Pines
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

Stand Boundary Map



Compartment: 61153
T26N R07W 28
County: Kalkaska
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2027
Acres: 2,919 GIS Calculated
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Date Exported: 1/12/2026
Map Phase: Post Maps

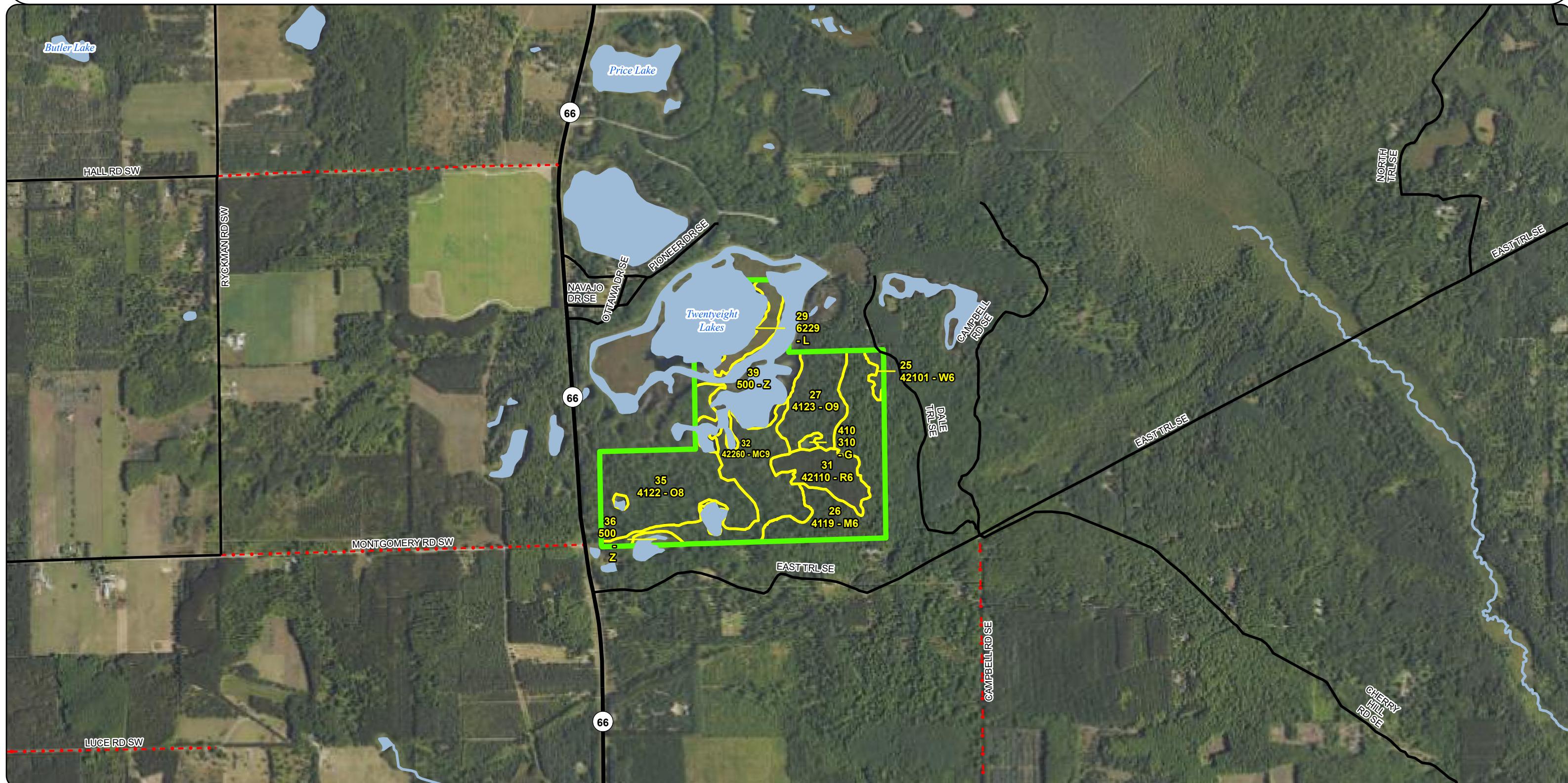


0 0.5 1 Miles

- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Streams

- Lakes and Rivers
- Compartment Boundary
- 411 - Northern Hardwood
- 412 - Oak Types
- 421 - Planted Pines

422 - Natural Pines
500 - Water
310 - Herbaceous Openland
622 - Lowland Shrub



Stand Boundary Map

Compartment: 61153
 T25N 07W 01
 County: Kalkaska
 Unit: Traverse City
 Mgmt. Area: Kalkaska Sandy Moraines
 YOE: 2027
 Acres: 2,919 GIS Calculated
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 Date Exported: 1/12/2026
 Map Phase: Post Maps



0 0.5 1 Miles

Survey Grade Corners

Berm

Gate

DNR - Secondary Forest Road

Federal / State / County - Paved Road

County - Gravel Road

County - Dirt Road (Seasonal)

Private - Dirt / Gravel Road

Streams

Lakes and Rivers

Compartment Boundary

413 - Aspen

421 - Planted Pines

422 - Natural Pines

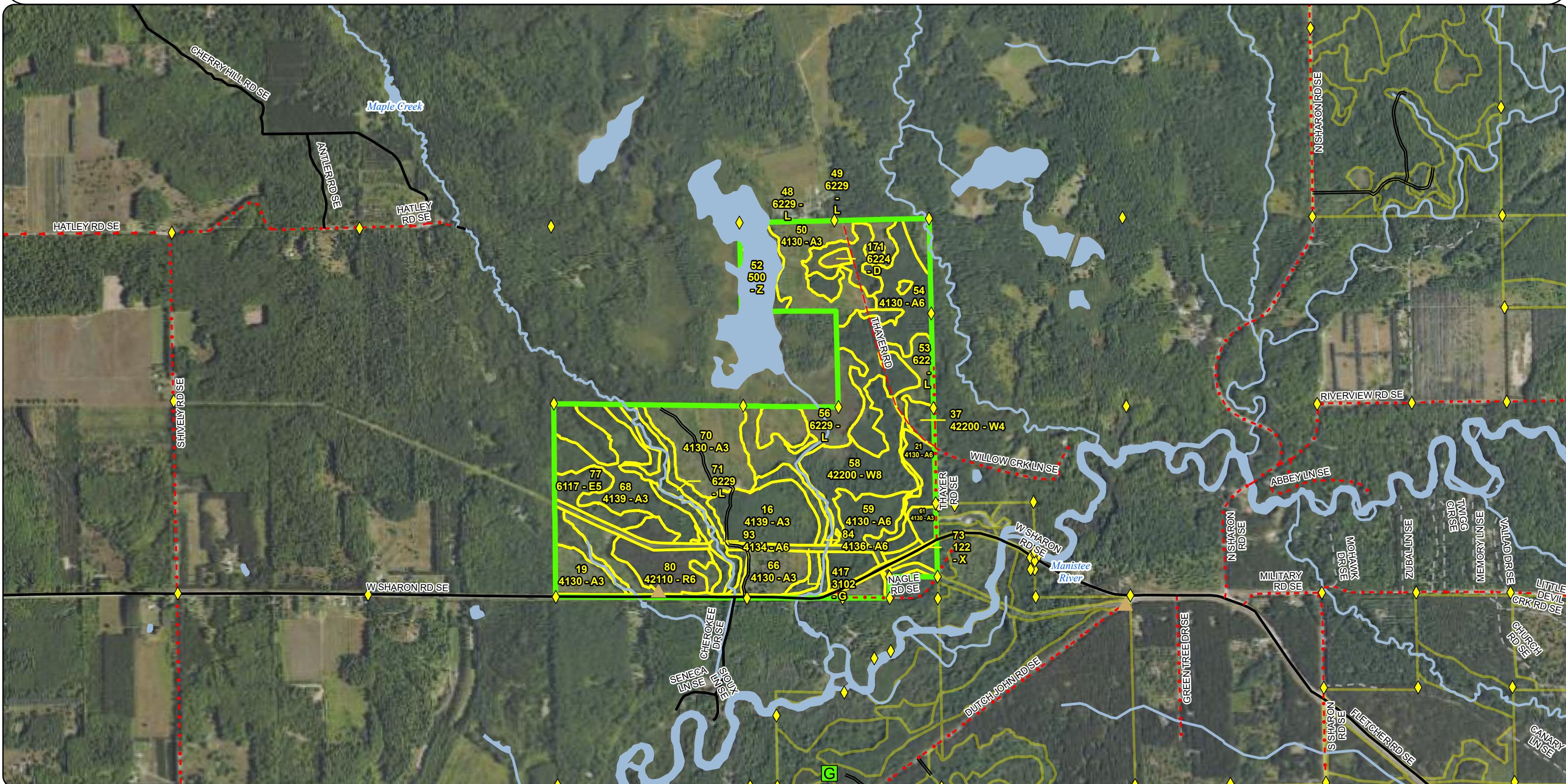
500 - Water

611 - Lowland Deciduous Forest

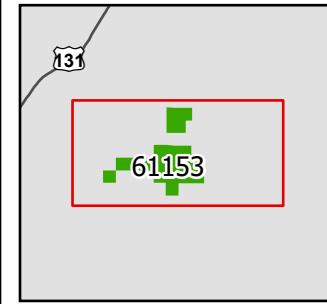
122 - Road/Parking Lot

310 - Herbaceous Openland

622 - Lowland Shrub



Stand Boundary Map



Compartment: 61153
 T25N R08W 03,04,08-10
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0 0.5 1 Miles

Survey Grade Corners

Berm

DNR - Secondary Forest Road

==== DNR - Forest Access Route

— Federal / State / County - Paved Road

- - - County - Gravel Road

- - - County - Dirt Road (Seasonal)

Streams

Lakes and Rivers

Compartment Boundary

411 - Northern Hardwood

413 - Aspen

419 - Mixed Upland Deciduous

421 - Planted Pines

422 - Natural Pines

430 - Upland Mixed Forest

500 - Water

612 - Lowland Coniferous Forest

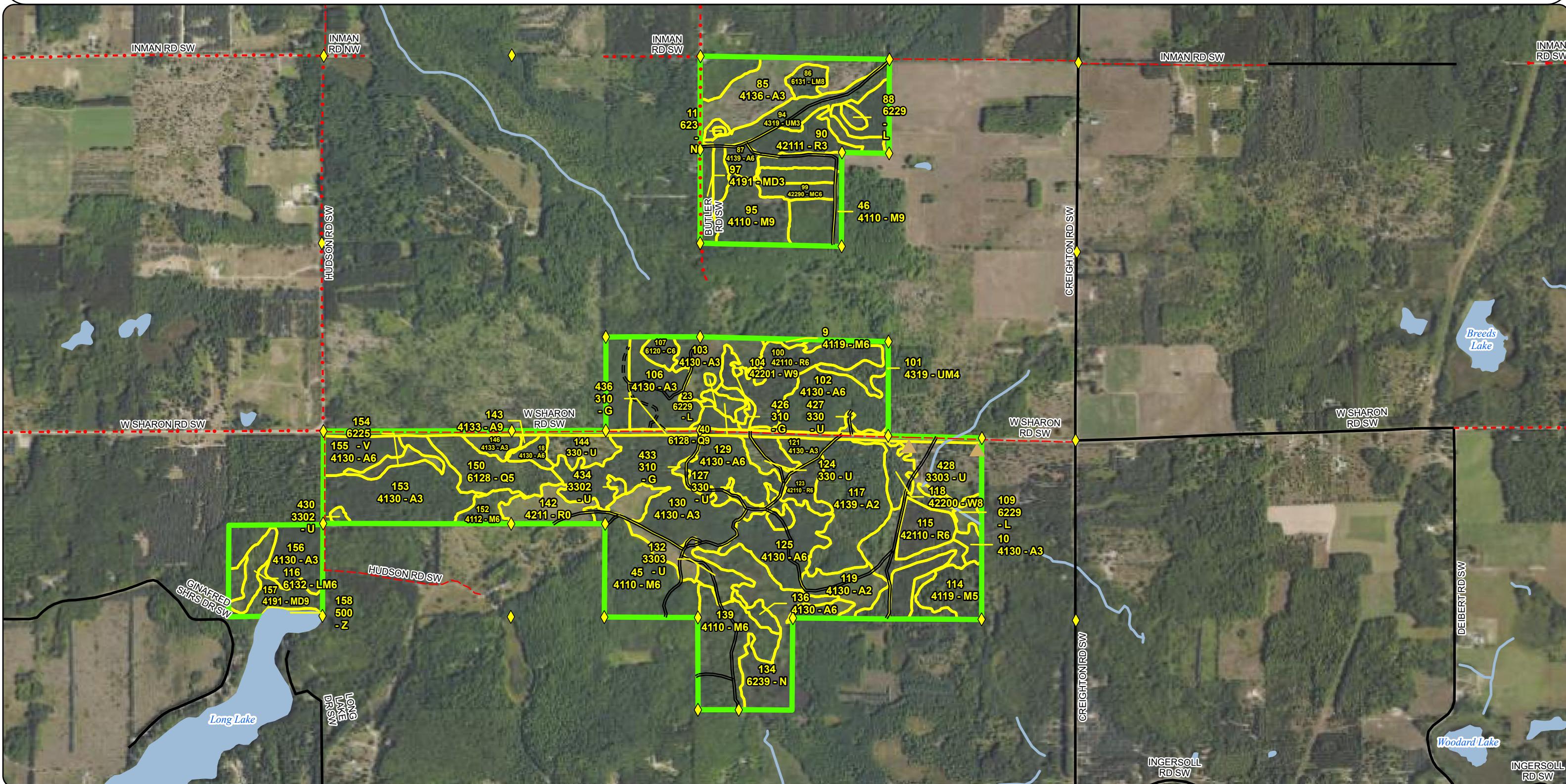
613 - Lowland Mixed Forest

310 - Herbaceous Openland

330 - Low Density Trees

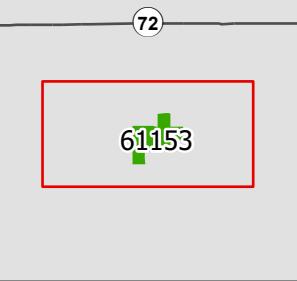
622 - Lowland Shrub

623 - Emergent Wetland



Stand Boundary Map

Compartment: 61153
T26N R06W 06
County: Kalkaska
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Mgmt. Area: Kalkaska Sandy Moraines
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Acres: 2,919 GIS Calculated
Examiner: Paul Roell
Date Exported: 1/12/2026
Map Phase: Post Maps



0 0.5 1 Miles

Survey Grade Corners

Streams

612 - Lowland Coniferous Forest

Lakes and Rivers

613 - Lowland Mixed Forest

Compartment Boundary

310 - Herbaceous Openland

Federal / State / County - Paved Road

330 - Low Density Trees

County - Gravel Road

622 - Lowland Shrub

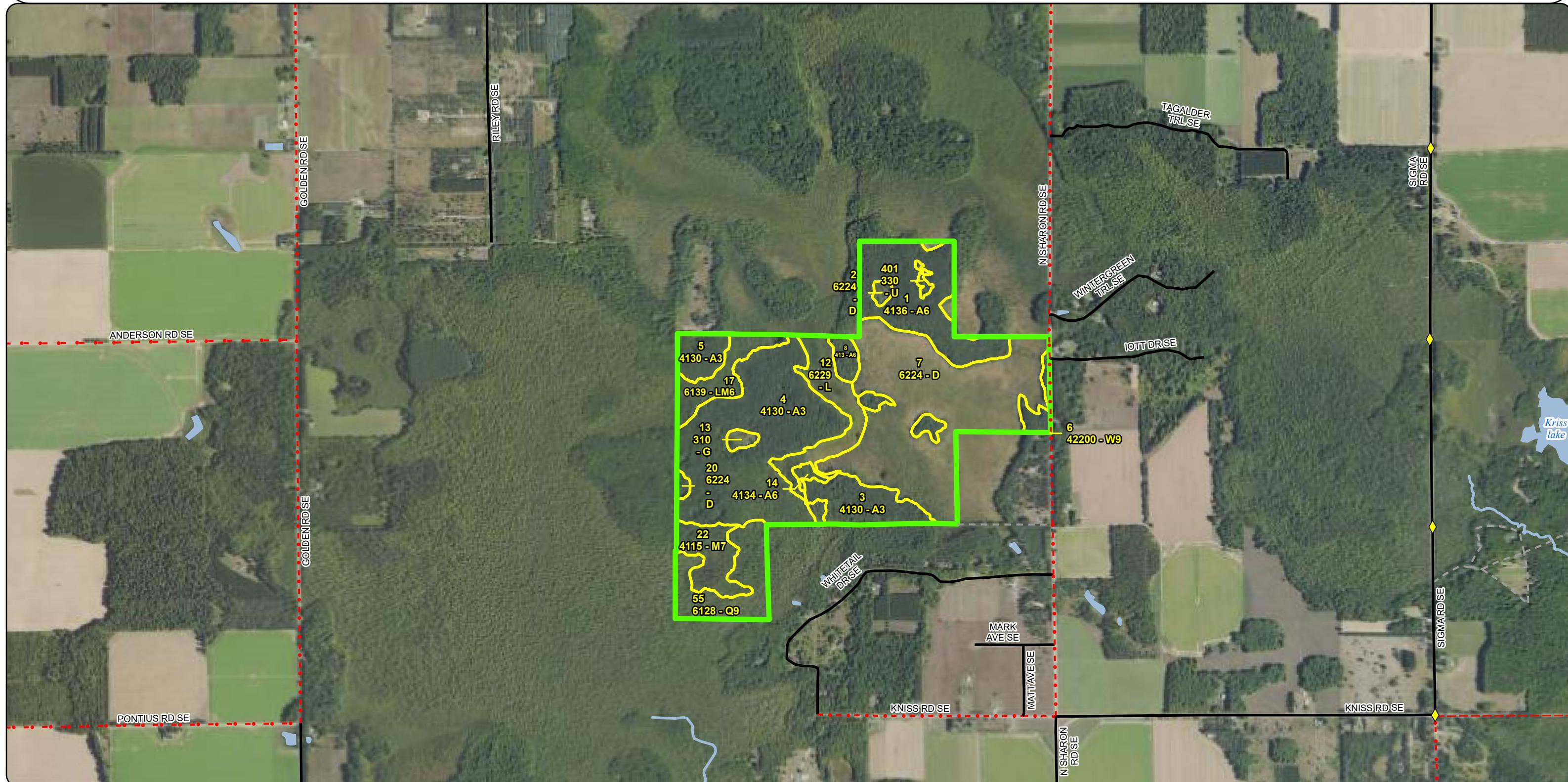
County - Dirt Road (Seasonal)

411 - Northern Hardwood

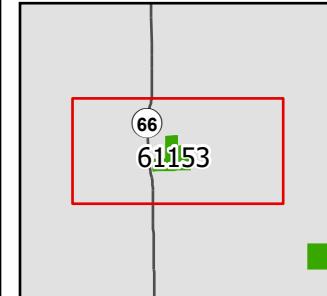
Private - Dirt / Gravel Road

413 - Aspen

422 - Natural Pines



Special Conservation Areas & Site Conditions Map

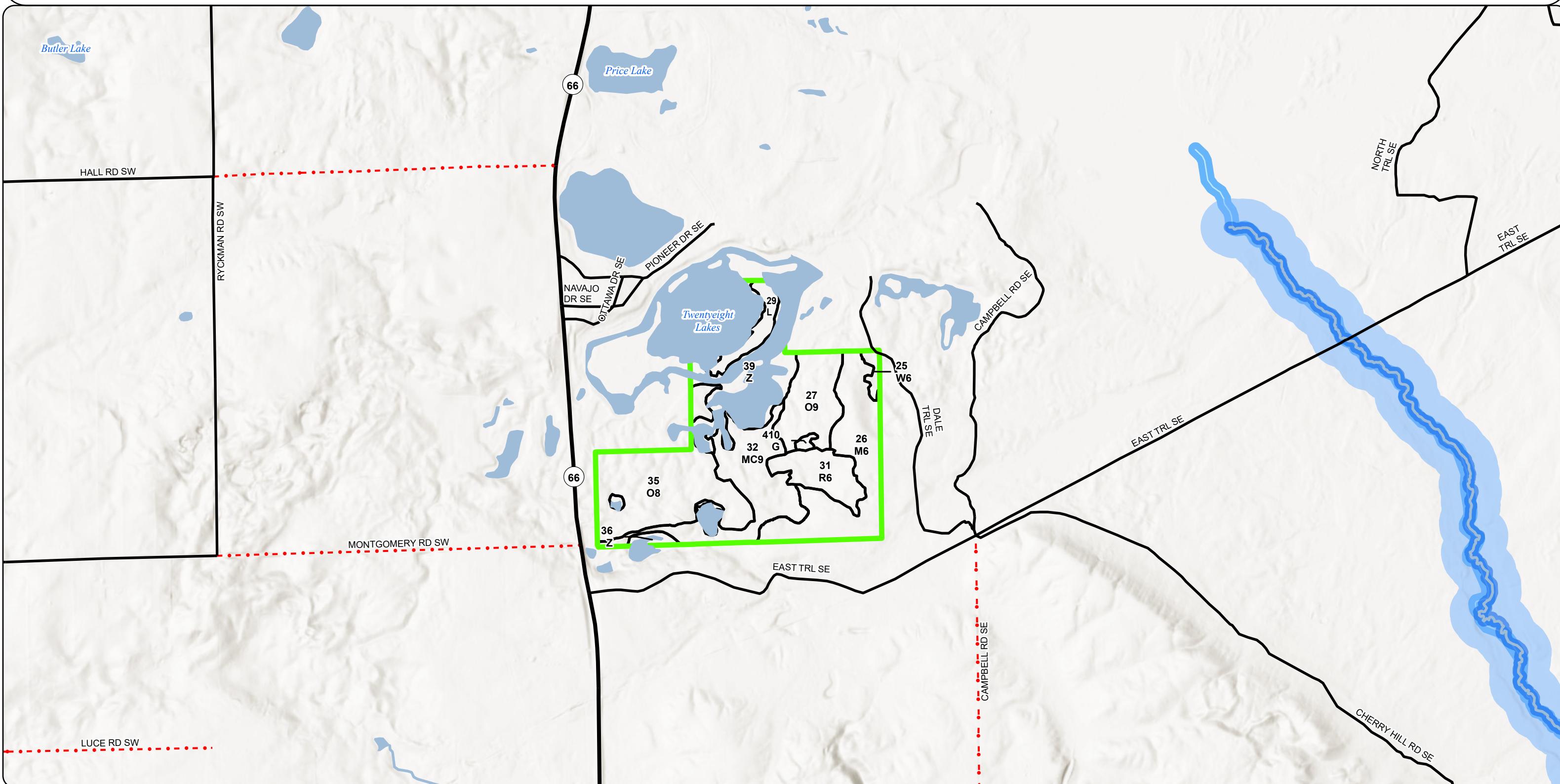


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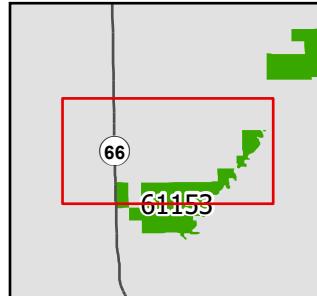
0 0.5 1 Miles

- Compartment Boundary
- Stand Boundaries
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Streams
- Lakes and Rivers
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



Special Conservation Areas & Site Conditions Map

Compartment: 61153
T25N R07W 14,21-22
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0 0.5 1 Mile



— — — Federal / State - Dirt / Gravel Road

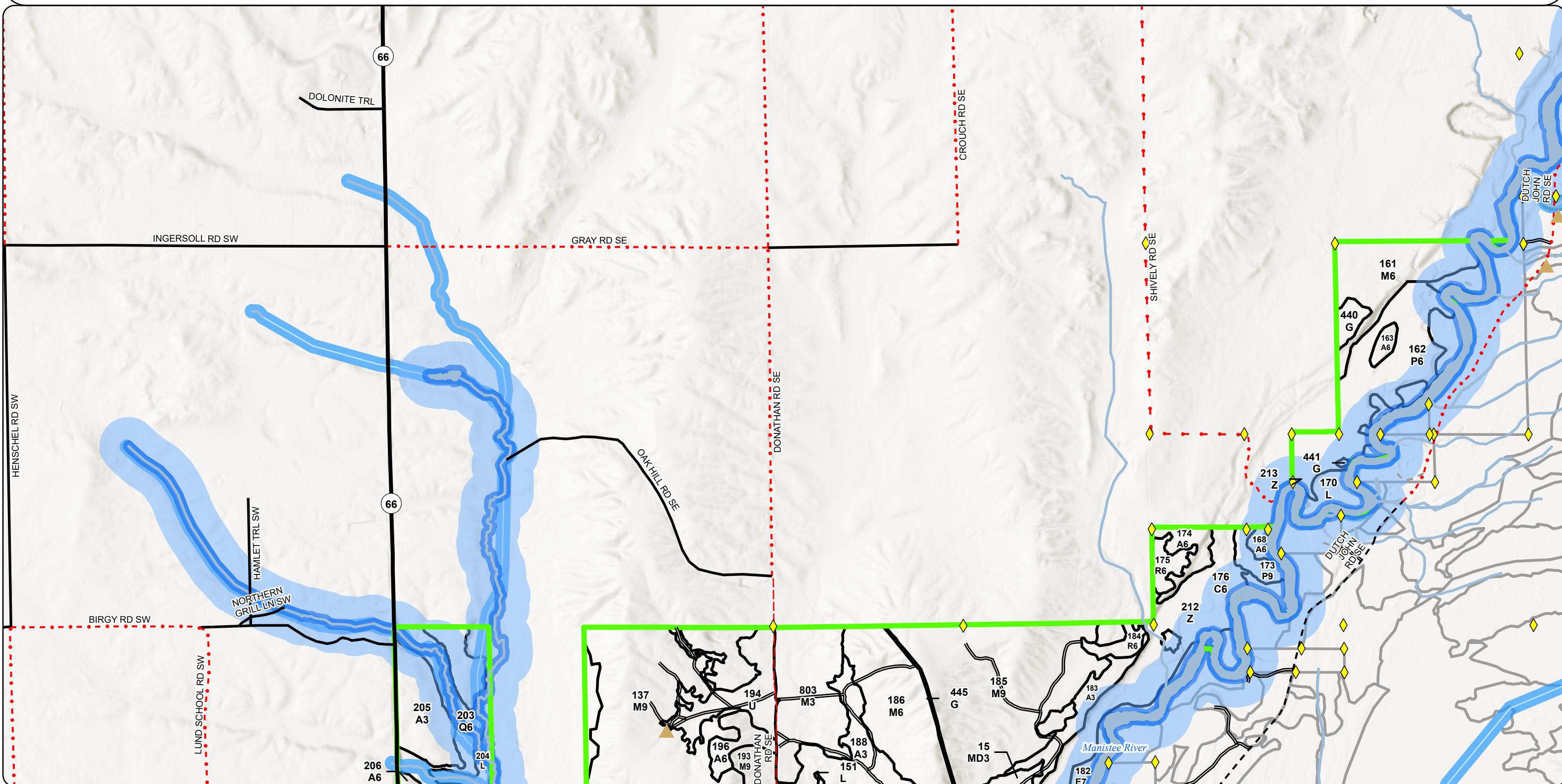
— •— • County - Gravel Road

— County - Dirt Road (Seasonal)

— — — Private - Dirt / Gravel Road

— Stream

ad Lakes and River



Special Conservation Areas & Site Conditions Map

Compartment: 61153
T25N 07W 01
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Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2027
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Map Phase: Post Maps



0 0.5 1 Miles

Survey Grade Corners

Berm

Gate

DNR - Secondary Forest Road

Federal / State / County - Paved Road

County - Gravel Road

County - Dirt Road (Seasonal)

Private - Dirt / Gravel Road

Streams

Lakes and Rivers

High Priority Trout Stream Buffer

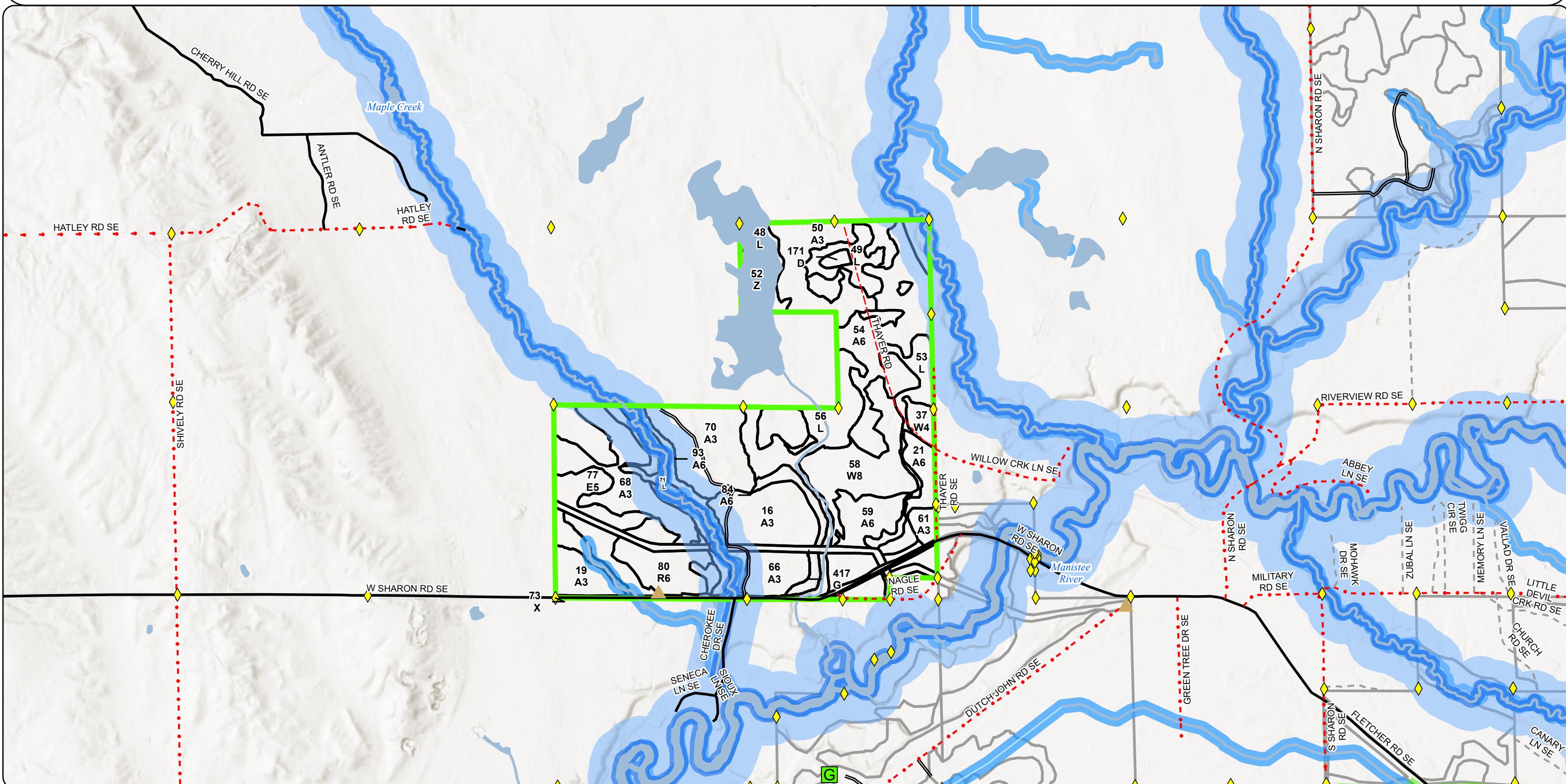
Stand Boundaries

Natural Rivers Vegetative Buffer

Natural Rivers Zoning District

Cold Water Streams

Kirtland's Warbler Habitat



Special Conservation Areas & Site Conditions Map

Compartment: 61153
T25N R08W 03,04,08-10
County: Kalkaska
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraine
YOE: 2027
Acres: 2,919 GIS Calculated
Examiner: Paul Roell
Date Exported: 1/12/2026
Map Phase: Post Maps



A road sign with a red border and a green plus sign with the number 61153.

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◆ Survey Grade Corne

Ber

==== DNR - Secondary Forest Roa

==== DNR - Forest Access Rout

— Federal / State / County - Paved Road

- • - • County - Gravel Road

— County - Dirt Road (Seasonal)

— Streams

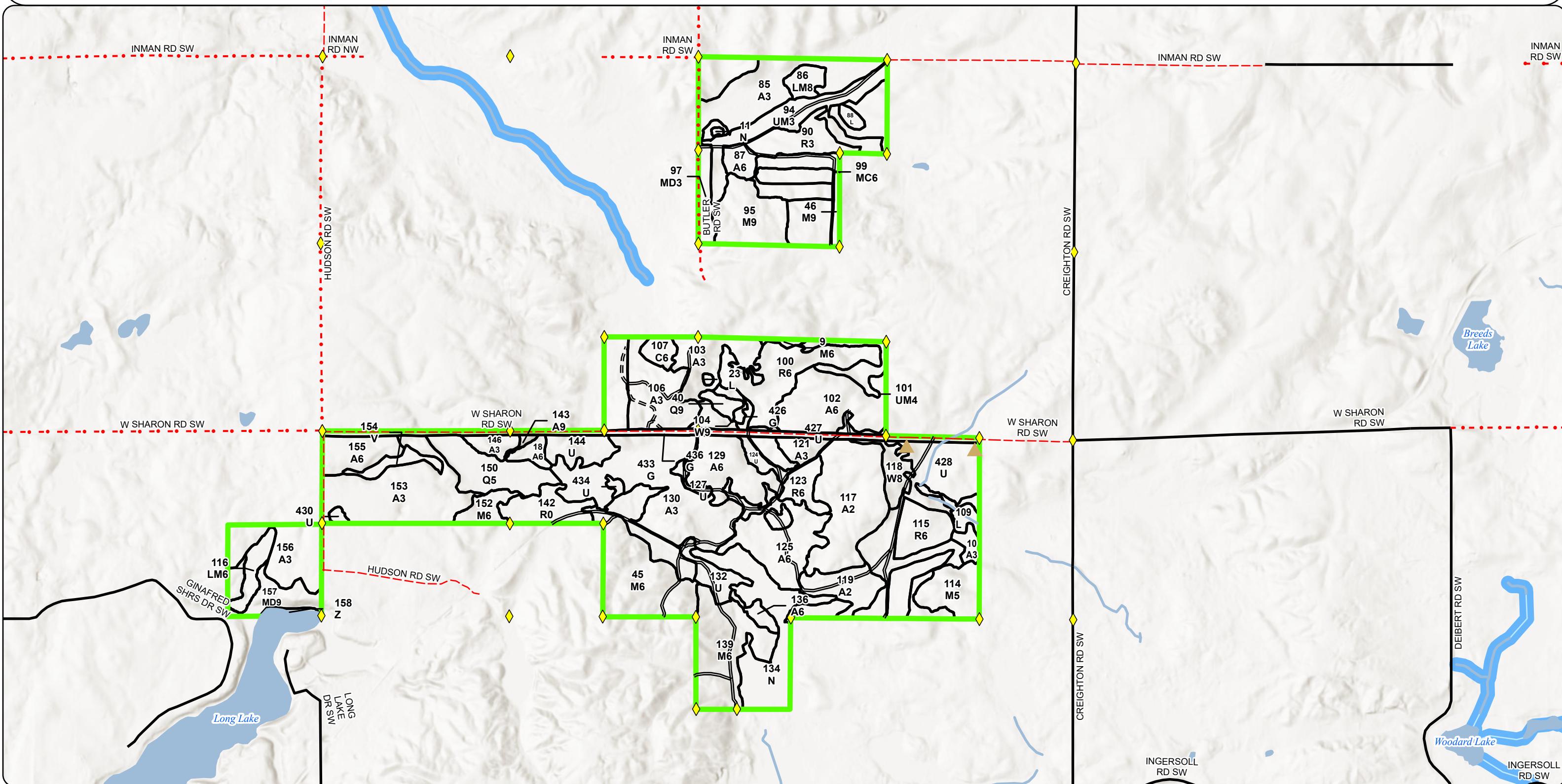
Lakes and Rivers

Compartment Boundary

Stand Boundaries

— Cold Water Streams

High Priority Trout Stream



Special Conservation Areas & Site Conditions Map

Compartment: 61153
 T26N R06W 06
 County: Kalkaska
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 Map Phase: Post Maps



0 0.5 1 Miles

Survey Grade Corners

Private - Dirt / Gravel Road

Natural Rivers Vegetative Buffer

Federal / State / County - Paved Road

Natural Rivers Zoning District

County - Gravel Road

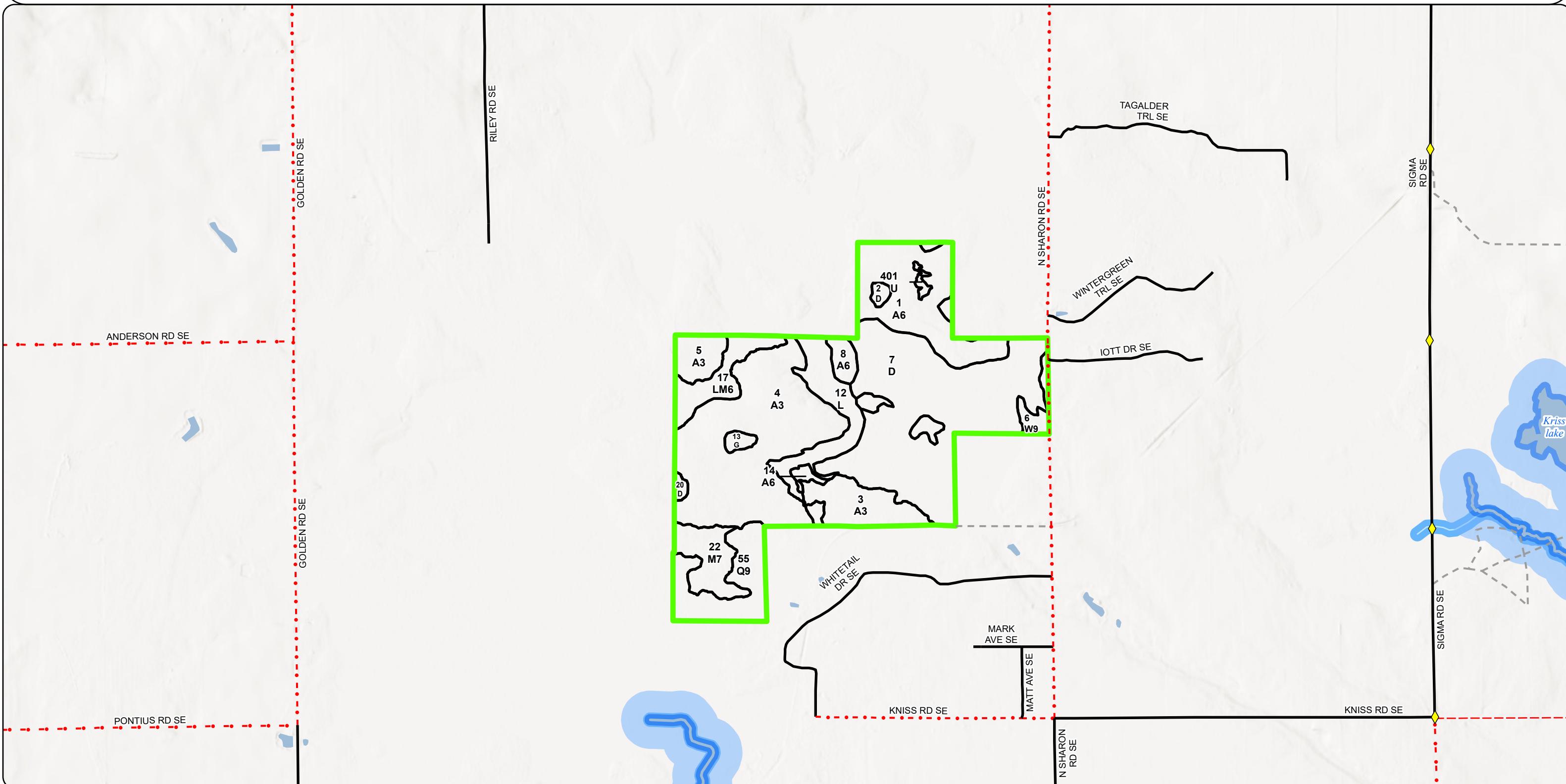
Cold Water Streams

County - Dirt Road (Seasonal)

High Priority Trout Stream Buffer

Compartment Boundary

Stand Boundaries



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+	UnstAged	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	4	102	0	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	58	0	0	0	0	0	0	0	0	0	0	0	58
Lowland Conifers	0	0	0	0	0	0	0	0	18	34	0	0	0	24	0	0	0	0	76
Lowland Deciduous	0	0	0	0	0	0	25	0	38	0	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	11	0	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	119	262	205	6	0	0	0	0	0	0	632
Oak	0	0	0	0	0	0	0	0	0	0	67	0	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

Compartment 153
Total Compartment Acres: 2,919

Acres of Harvest

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	20	0	0	0	338
Next Step	0	74	37	0	0	37	321	0	0	468
Total	284	74	37	0	37	341	0	0	0	806

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

102 61153102-Cut 14.3 4130 - Aspen 6 53 111-140 Harvest Clearcut 413 - Aspen Planting Record No

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 pine
Regen:

Other
Comment:

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

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 pine
Regen:

Other
Comment:

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

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 oak
Regen:

Other
Comment:

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 <u>Specs:</u> community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native											
<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> <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> <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 <u>Specs:</u> crop trees and follow the DNR marking guide. Create 10-13 canopy gap approximately 1 acre in size evenly distributed to											
<u>Next Step</u> <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, <u>Comment:</u> 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
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											
<u>Specs:</u> crop trees and follow the DNR marking guide. Create 10-13 canopy gap approximately 1 acre in size evenly distributed t											
<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											
<u>Specs:</u> and/or conifers for wildlife food and cover. Keep as much sugar maple as possible. Plant site appropriate native shrubs an											
<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 Specs:											
<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. Specs:											
<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 Specs:											
<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 Avail	Acres	
Acres	Available	With Condition	Not Available	

Dominant Site Conditions

2B	2G	2H	3J	5E
----	----	----	----	----

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%	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 Condition	Cond Availability	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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Paul Roell: Examiner

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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Compartment: 153

Year of Entry: 2027

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:							

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Stand	Level 4 Cover Type			Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4136 - Aspen, Mixed Conifer			Poletimber Well	40.5	39	81-110	N/A	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Maple	10	Pole	7	Black Cherry	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	30	Pole	6 39	Balsam Fir	Medium	Variable	Variable	
	Bigtooth Aspen	40	Pole	6 39	Red Maple	Low	Variable	Variable	
	Balsam Fir	5	Sapling/Pole	4					
	White Pine	15	Log/Pole	12					
2	6224 - Treed Bog			None	3.4			No	
3	4130 - Aspen			Sapling Well	18.4	3	Immature	N/A	
	Canopy Species	% Cover	Size Class	DBH Age					
	Red Maple	20	Sapling	1					
	Quaking Aspen	20	Sapling	1 3					
	Bigtooth Aspen	50	Sapling	1 3					
	Balsam Fir	5	Sapling	4					
	White Pine	5	Log/Pole	12					
4	4130 - Aspen			Sapling Well	85.3	3	Immature	N/A	
	Canopy Species	% Cover	Size Class	DBH Age					
	Red Maple	20	Sapling	1					
	Quaking Aspen	20	Sapling	1 3					
	Bigtooth Aspen	50	Sapling	1 3					
	Balsam Fir	5	Sapling	4					
	White Pine	5	Log/Pole	12					
5	4130 - Aspen			Sapling Well	9.3	3	Immature	N/A	
	Canopy Species	% Cover	Size Class	DBH Age					
	Red Maple	20	Sapling	1					
	Quaking Aspen	20	Sapling	1 3					
	Bigtooth Aspen	50	Sapling	1 3					
	Balsam Fir	5	Sapling	4					
	White Pine	5	Log/Pole	12					
6	42200 - Natural White Pine			Sawtimber Well	4.7	76	81-110	N/A	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Maple	5	Pole	8	Red Maple	Medium	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	20	Pole/Log	8					
	White Pine	75	Pole/Log	8 76					

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 border="1"> <thead> <tr> <th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr> </thead> <tbody> <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> </tbody> </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,																																																
	<table border="1"> <thead> <tr> <th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr> </thead> <tbody> <tr> <td>Sugar Maple</td><td>45</td><td>Pole/Log</td><td>8</td><td>80</td></tr> <tr> <td>Red Maple</td><td>10</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr> <td>Basswood</td><td>15</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr> <td>Beech</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr> <td>Bigtooth Aspen</td><td>15</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr> <td>White Pine</td><td>5</td><td>Log</td><td>10</td><td></td></tr> <tr> <td>Black Cherry</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	45	Pole/Log	8	80	Red Maple	10	Pole/Log	8		Basswood	15	Pole/Log	8		Beech	5	Pole/Log	8		Bigtooth Aspen	15	Pole/Log	8		White Pine	5	Log	10		Black Cherry	5	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr> </thead> <tbody> <tr> <td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr> <tr> <td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	5 - 10 feet	5 - 10 feet	Red Maple	Low	Variable	Variable	
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Red Maple	Low	Variable	Variable																																																				
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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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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White Pine	15	Log/XLog	14																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Balsam Fir	Low	5 - 10 feet	5 - 10 feet																																																				
White Pine	Low	5 - 10 feet	5 - 10 feet																																																				

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 scattered 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.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size		
	Red Maple	25	Pole/Log	8	Beech	High	5 - 10 feet	5 - 10 feet		
	Red Oak	60	Log/XLog	14 101	Ironwood	Medium	5 - 10 feet	5 - 10 feet		
	White Pine	10	Log/Pole	13	White Pine	Medium	5 - 10 feet	5 - 10 feet		
	Red Pine	5	Log/Pole	13	Red Maple	Low	5 - 10 feet	5 - 10 feet		
					Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet		
29	6229 - Mixed Lowland Shrub				None	7.6			No	
31	42110 - Planted Red Pine				Poletimber Well	15.0	71	171-200	N/A	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size		
	Red Maple	5	Log/Pole	12	Beech	Medium	5 - 10 feet	5 - 10 feet		
	Red Oak	5	Log/XLog	14						
	Red Pine	90	Pole	8 71						
32	42260 - Natural Pine, Mixed Deciduous				Sawtimber Well	38.1	60	81-110	N/A	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size		
	Red Maple	10	Pole/Sap/Log	8 60	White Pine	Medium	5 - 10 feet	5 - 10 feet		
	Red Oak	10	Log/Pole	12						
	Quaking Aspen	15	Pole/Log	9 60						
	White Pine	55	Log/Pole	10 60						
	Red Pine	10	Log/Pole	12						
35	4122 - Oak, Pine				Sawtimber Medium	45.5	103	51-80	N/A	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size		
	Red Oak	70	Log/Pole	13 103	White Pine	Low	5 - 10 feet	5 - 10 feet		
	White Pine	25	Log/Pole/Sap	10 106	Red Maple	Medium	5 - 10 feet	5 - 10 feet		
	Red Pine	5	Log/Pole	12	Bigtooth Aspen	Medium	5 - 10 feet	5 - 10 feet		
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.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size		
	White Pine	100	Log/Pole	12 116	Balsam Fir	Low	5 - 10 feet	5 - 10 feet		
					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

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.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	13	Pole	6		Red Maple	Low	Variable	Variable
	Quaking Aspen	10	Log	14		Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
	Balsam Fir	2	Pole	6					
	Northern White Cedar	25	Pole/Sapling	6					
	Tamarack	40	Log/Pole	12	91				
	White Pine	10	Log/XLog	14					
45	4110 - Sugar Maple Association	Poletimber Well	29.9	88	81-110	N/A	Thinned 30 some years ago. Looked like an aspen removal		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	85	Pole/Log	8	88	Ironwood	Medium	10 - 20 feet	10 - 20 feet
	Basswood	10	Pole	8		Sugar Maple	Medium	10 - 20 feet	10 - 20 feet
	Beech	5	Pole	8					
46	4110 - Sugar Maple Association	Sawtimber Well	2.3	89	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	80	Log/Pole	12	89	Ironwood	Medium	10 - 20 feet	10 - 20 feet
	Red Maple	10	Log/Pole	12		Beech	Medium	5 - 10 feet	5 - 10 feet
	Basswood	5	Log/Pole	10					
	Beech	5	Log/Pole	10					
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			
	Canopy Species	% Cover	Size Class	DBH	Age				
	Red Maple	15	Sapling	1	6				
	Quaking Aspen	50	Sapling	1	6				
	Bigtooth Aspen	20	Sapling	1	6				
	White Pine	10	Sapling/Pole	4					
	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	
	Canopy Species	% Cover	Size Class	DBH	Age			
	Red Maple	10	Sapling/Pole	4				
	Quaking Aspen	20	Pole/Sapling	5	37			
	Bigtooth Aspen	55	Pole/Sapling	6	37			
	Balsam Fir	5	Sapling	4				
	White Pine	10	Log/Pole/Sap	10				
55	6128 - Lowland Coniferous, Mixed Deciduous		Sawtimber Well	24.2	136	111-140	N/A	
	Canopy Species	% Cover	Size Class	DBH	Age			
	Red Maple	25	Log/Pole	13				
	Yellow Birch	5	Log/Pole	12				
	Quaking Aspen	5	Log/Pole	10				
	Black Spruce	5	Pole	6				
	Northern White Cedar	10	Pole	8	136			
	White Pine	10	Log/Pole/XLog	13	136			
	Hemlock	40	Log/Pole	13	136			
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
	Canopy Species	% Cover	Size Class	DBH	Age			
	White Pine	85	Log/Pole	13	116			
	Red Pine	15	Log/Pole	13	116			
59	4130 - Aspen		Poletimber Well	18.5	37	81-110	N/A	
	Canopy Species	% Cover	Size Class	DBH	Age			
	Red Maple	10	Sapling/Pole	4				
	Paper Birch	5	Sapling/Pole	4				
	Quaking Aspen	30	Pole	6	37			
	Bigtooth Aspen	50	Pole	6	37			
	White Pine	5	Log/Pole	10				
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.
	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			

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.	
	Canopy Species	% Cover	Size Class	DBH	Age				
	Sugar Maple	2	Pole	6					
	Red Maple	10	Sapling	1	6				
	Red Oak	3	Pole/Log	8					
	Quaking Aspen	20	Sapling	1	6				
	Bigtooth Aspen	50	Sapling	1	6				
	Balsam Fir	5	Pole/Sapling	5					
	White Pine	10	Log/Pole	10					
68	4139 - Aspen, Mixed Deciduous		Sapling Well	27.7	16	Immature	N/A	Stand was cut with Maple Creek Aspen 610440701. Small uncut island by wet spot on west end and scattered 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				
70	4130 - Aspen		Sapling Well	38.0	6	Immature	N/A	Cut 2020 as part of 153 Thayer Block, 61-125-17. Left white pine and balsam fir < 4" dbh.	
	Canopy Species	% Cover	Size Class	DBH	Age				
	Red Maple	15	Sapling	1	6				
	Quaking Aspen	30	Sapling	1	6				
	Bigtooth Aspen	40	Sapling	1	6				
	Balsam Fir	5	Sapling/Pole	4					
	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		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	45	Pole	6	63	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
	Quaking Aspen	35	Pole	6	63				
	Balsam Fir	10	Pole	6					
	Northern White Cedar	5	Pole	6					
	White Pine	5	Pole	8					

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.	
	Canopy Species	% Cover	Size Class	DBH	Age				
	Red Pine	100	Pole/Log	9	61				
84	4136 - Aspen, Mixed Conifer		Poletimber Well	10.5	61	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
	Red Maple	25	Pole	8	61	Red Maple	Medium	5 - 10 feet	5 - 10 feet
	Quaking Aspen	20	Pole	8	61	Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
	Bigtooth Aspen	35	Pole/Log	9	61				
	Balsam Fir	15	Pole/Sapling	6	61				
	White Pine	5	Pole/Log	9	86				
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.	
	Canopy Species	% Cover	Size Class	DBH	Age				
	Red Maple	25	Sapling	1					
	Yellow Birch	1	Log/Pole	10					
	Quaking Aspen	10	Sapling	1	5				
	Bigtooth Aspen	38	Sapling	1	5				
	Balsam Fir	5	Pole	6					
	Northern White Cedar	5	Pole/Log/Sap	6					
	White Pine	1	Log/Pole	12					
	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		
	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					

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.	
	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					
88	6229 - Mixed Lowland Shrub		None	1.7			No		
90	42111 - Planted Red Pine, Mixed Deciduous		Sapling Well	19.6	27	Immature	N/A		
	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					
93	4134 - Aspen, Spruce/Fir		Poletimber Well	15.9	61	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
	Red Maple	15	Pole/Log	8	61	Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
	Quaking Aspen	15	Pole/Log	8	61	Red Maple	Medium	5 - 10 feet	5 - 10 feet
	Bigtooth Aspen	30	Pole/Log	9	61				
	Balsam Fir	25	Pole/Sapling	7	61				
	White Pine	15	Pole/Log	8	86				
94	4319 - Mixed Upland Forest		Sapling Well	43.2	17	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age				
	Red Maple	20	Sapling	3					
	Red Oak	5	Sapling	2					
	White Oak	5	Sapling	2					
	Bigtooth Aspen	10	Sapling	3					
	Red Pine	50	Sapling	2	17				
	Black Cherry	10	Sapling	2					

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 2022 Thinned in 1998	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	82	Log	12	89			Beech	Low	10 - 20 feet	10 - 20 feet
	Red Maple	4	Log	12				Ironwood	High	10 - 20 feet	10 - 20 feet
	Basswood	2	Log/Pole	10							
	Beech	3	Log	14							
	White Pine	2	Log/Pole	12							
	Black Cherry	3	Log	12							
	Ironwood	4	Pole	6							
97	4191 - Mixed Upland Deciduous with Conifer		Sapling Well		6.3	30	Immature	N/A			
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	1	Sapling/Pole	4				Beech	Low	10 - 20 feet	10 - 20 feet
	Red Maple	30	Sapling/Pole	3	30			Ironwood	High	10 - 20 feet	10 - 20 feet
	Red Oak	5	Sapling/Pole	3							
	White Oak	4	Sapling/Pole	3							
	Bigtooth Aspen	5	Sapling/Pole	3							
	White Pine	5	Pole/Sap/Log	6							
	Jack Pine	15	Sapling/Pole	4							
	Black Cherry	15	Sapling/Pole	4	30						
	Ironwood	20	Sapling/Pole	3							
99	42290 - Natural Mixed Pine		Poletimber Well		10.7	41	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	5	Pole/Sapling	6				Beech	Low	5 - 10 feet	5 - 10 feet
	Red Oak	10	Pole/Sap/Log	5				Ironwood	High	5 - 10 feet	5 - 10 feet
	White Oak	5	Pole/Sapling	6							
	Balsam Fir	10	Pole/Sapling	6							
	Red Pine	20	Pole/Sapling	5							
	Jack Pine	50	Pole/Sapling	6	41						
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.	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	White Pine	5	Pole	8				Black Cherry	Low	10 - 20 feet	10 - 20 feet
	Red Pine	95	Pole/Log	8	60			Beech	Low	< 5 feet	< 5 feet
								Red Maple	Low	5 - 10 feet	5 - 10 feet

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			
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	20	Pole/Sapling	6				White Pine	Low	< 5 feet	< 5 feet
	White Pine	50	Pole/Log/Sap	8	63			Black Cherry	Low	5 - 10 feet	5 - 10 feet
	Black Cherry	30	Pole/Sapling	6							
102	4130 - Aspen		Poletimber Well		24.5	53	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	5	Pole	6				Red Maple	Medium	>20 feet	>20 feet
	Red Maple	15	Pole	6				Ironwood	Low	>20 feet	>20 feet
	Quaking Aspen	10	Pole/Log	8				Beech	Low	5 - 10 feet	5 - 10 feet
	Bigtooth Aspen	50	Pole/Log	8	53						
	White Pine	10	Pole/Log	9							
	Black Cherry	10	Pole	6							
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.	
	Canopy Species	% Cover	Size Class	DBH Age							
	Red Maple	10	Sapling	1							
	Beech	5	Sapling	1							
	Quaking Aspen	25	Sapling	1	8						
	Bigtooth Aspen	50	Sapling	1	8						
	White Pine	5	Log	10							
	Black Cherry	5	Sapling	1							
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.	
	Canopy Species	% Cover	Size Class	DBH Age							
	Red Maple	10	Pole	6							
	Bigtooth Aspen	30	Log	12							
	White Pine	60	Log/XLog	14	93						
106	4130 - Aspen		Sapling Well		19.3	29	Immature	N/A			
	Canopy Species	% Cover	Size Class	DBH Age							
	Red Maple	15	Sapling/Pole	4							
	Quaking Aspen	25	Sapling/Pole	4	29						
	Bigtooth Aspen	50	Sapling/Pole	4	29						
	White Pine	5	Log	12							
	Black Cherry	5	Sapling	2							

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	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Balsam Fir	20	Pole	7				Tag Alder	Medium	5 - 10 feet	5 - 10 feet
	Black Spruce	10	Pole	8				Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
	Northern White Cedar	70	Pole	7	97						
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.	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	8	Log/Pole	10	106			Red Maple	Low	5 - 10 feet	5 - 10 feet
	Red Maple	70	Pole/Log	9	106			Beech	Low	5 - 10 feet	5 - 10 feet
	Basswood	5	Log/Pole	10	106			Ironwood	Low	10 - 20 feet	10 - 20 feet
	Bigtooth Aspen	15	Sapling	1	8						
	White Pine	2	Log/Pole	12	106						
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.	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Red Pine	100	Pole/Log	9	62			White Pine	Low	5 - 10 feet	5 - 10 feet
								Beech	Medium	5 - 10 feet	5 - 10 feet
								Red Maple	Low	5 - 10 feet	5 - 10 feet
116	6132 - Mixed Lowland Forest with Cedar		Poletimber Well		6.1	116	111-140	N/A		Lowland area with drainage	
	Canopy Species	% Cover	Size Class	DBH Age							
	Red Maple	20	Log/Pole	12							
	Yellow Birch	5	Pole	8							
	Basswood	5	Log/Pole	12							
	Bigtooth Aspen	24	Log/Pole	12							
	Northern White Cedar	21	Pole/Log	9							
	Hemlock	25	Log/Pole	10	116						
117	4139 - Aspen, Mixed Deciduous		Sapling Medium		33.5	29	Immature	N/A			
	Canopy Species	% Cover	Size Class	DBH Age							
	Red Maple	15	Sapling	1							
	White Oak	5	Sapling	4							
	Quaking Aspen	25	Sapling	4	29						
	Bigtooth Aspen	25	Sapling/Pole	4	29						
	White Pine	10	Pole/Log	8	61						
	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.
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Maple	15	Sapling	1						
	Red Oak	3	Pole/Log	8						
	Quaking Aspen	30		2	17					
	Bigtooth Aspen	40	Sapling	3	17					
	White Pine	10	Sapling	1						
	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.
	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						
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.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species Density Avg. Height Size				
	Sugar Maple	80	Log/Pole	10	93	Bigtooth Aspen	Low	< 5 feet	< 5 feet	
	Red Maple	5	Pole/Log	8		Beech	Medium	5 - 10 feet	5 - 10 feet	
	Basswood	5	Log	14		Balsam Fir	Trace	Variable	Variable	
	Red Oak	5	Log/Pole	12		Ironwood	Medium	5 - 10 feet	5 - 10 feet	
	Black Cherry	5	Pole	8						
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.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species Density Avg. Height Size				
	Sugar Maple	46	Pole/Log	9	87	Beech	Medium	5 - 10 feet	5 - 10 feet	
	Basswood	45	Pole/Log	9		Ironwood	Low	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	6	Sapling	1	6					
	Black Cherry	3	Pole	9						
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.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species Density Avg. Height Size				
	Red Maple	5	Pole/Log	9		Balsam Fir	High	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	65	Pole/Log	8	66					
	Balsam Fir	25	Pole/Sapling	7						
	Northern White Cedar	5	Pole	7						

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.
	Canopy Species	% Cover	Size Class	DBH Age			
	Red Maple	10	Pole	8			
	Quaking Aspen	70	Pole	9	56		
	Balsam Fir	10	Pole	8			
	White Pine	5	Log/Pole	10			
	Black Cherry	5	Pole	8			
142	4211 - Planted Red Pine	Unspecified	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 5/2/2024 2023 - Stand was Skidder Site Prep Sprayed (Round Up Pro, Oust, and Arsenal) 2022 - Stand was trenched 2022 - Stand Was Roller Chopped 6/29/2022 Final 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
	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		
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).
	Canopy Species	% Cover	Size Class	DBH Age			
	Red Maple	20	Sapling	1			
	Bigtooth Aspen	60	Sapling	1	8		
	White Pine	20	Log/Pole	10			
150	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	17.8	87	51-80	N/A	Drainage running through stand
	Canopy Species	% Cover	Size Class	DBH Age			
	Red Maple	20	Pole/Log	9			
	Quaking Aspen	20	Pole/Log	9			
	Balsam Fir	10	Pole	6			
	Black Spruce	15	Pole	5			
	Northern White Cedar	25	Pole	7	87		
	Tamarack	5	Pole	6			
	White Pine	5	Log/Pole	10			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
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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153	4130 - Aspen	Sapling Well	34.9	30	Immature	N/A	Left all the oak and hemlock																																														
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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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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			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	45	Log/Pole	12	86	White Pine	Low	5 - 10 feet	5 - 10 feet
	Basswood	5	Log/Pole	12		Beech	Medium	5 - 10 feet	5 - 10 feet
	Beech	5	Log/Pole	10					
	Bigtooth Aspen	25	Log/Pole	12					
	White Pine	15	Log/Pole	12					
	Hemlock	5	Log/Pole	10					
158	500 - Water	None	1.9			No	PART OF LONG LAKE		
161	411 - Northern Hardwood	Poletimber Well	33.7	106	81-110	N/A	No legal access		
162	61119 - Lowland Aspen/Balsam Poplar (OI)	Poletimber Well	51.7	61	81-110	N/A	No access		
163	413 - Aspen	Poletimber Well	3.0	76	81-110	N/A	No legal access		
168	413 - Aspen	Poletimber Well	2.8	69	81-110	N/A			
170	6229 - Mixed Lowland Shrub	None	25.5			No			
171	6224 - Treed Bog	None	1.7			No	Scattered white pine seeding in.		
173	6112 - Lowland Aspen	Sawtimber Well	6.2	69	81-110	N/A			
174	4130 - Aspen	Poletimber Well	8.9	37	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age				
	Red Maple	15	Sapling	3					
	Quaking Aspen	30	Pole	6	37				
	Bigtooth Aspen	50	Pole	6	37				
	Black Cherry	5	Sapling	2					

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 strop 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	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	60	Log/Pole	12	109			Beech	High	Variable	Variable
	Basswood	15	Log	12				Ironwood	High	10 - 20 feet	10 - 20 feet
	Beech	20	Log/Pole	10							
	Black Cherry	5	Pole	6							
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	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	65	Pole/Log	9	109			Beech	Full	5 - 10 feet	5 - 10 feet
	Basswood	25	Log	12				Quaking Aspen	Low	< 5 feet	< 5 feet
	Red Oak	5	Log	12				Ironwood	Full	5 - 10 feet	5 - 10 feet
	Black Cherry	5	Pole	6							
188	4136 - Aspen, Mixed Conifer		Sapling Well		66.1	7	Immature	N/A		2020: Cut in 2019 as 153 Donathan Block, 61-134-17.	
	Canopy Species	% Cover	Size Class	DBH Age							
	Red Maple	10	Sapling	1							
	Quaking Aspen	30	Sapling	2	7						
	Bigtooth Aspen	40	Sapling	2	7						
	Balsam Fir	10	Pole	6							
	Northern White Cedar	5	Pole	8							
	White Pine	5	Log/Pole	10							
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.	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	6	Pole	8				Black Spruce	Low	5 - 10 feet	5 - 10 feet
	Paper Birch	2	Pole	8				Balsam Fir	Medium	Variable	Variable
	Balsam Fir	15	Pole	8							
	Black Spruce	15	Pole	8							
	Northern White Cedar	60	Pole/Log	9	101						
	Tamarack	2	Pole	8							
192	4130 - Aspen		Sawtimber Well		3.7	73	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	10	Log/Pole	10				Sugar Maple	Low	5 - 10 feet	5 - 10 feet
	Bigtooth Aspen	85	Log/Pole	11	73			Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
	Red Pine	5	Pole	8				Beech	Medium	5 - 10 feet	5 - 10 feet

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
	Canopy Species	% Cover	Size Class	DBH	Age		
	Sugar Maple	60	Log/Pole	10	93		
	Red Maple	5	Pole/Log	8			
	Basswood	5	Log	14			
	Red Oak	20	Log/Pole	12			
	Bigtooth Aspen	5	Pole	6			
	Black Cherry	5	Pole	8			
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 componentst reaching pole size. Variable stand. Some parts are more like a young HW stand than aspen.
	Canopy Species	% Cover	Size Class	DBH	Age		
	Sugar Maple	15	Sapling/Pole/Log	4			
	Red Maple	5	Sapling/Pole	4			
	Red Oak	5	Pole/Sapling	5			
	Quaking Aspen	20	Pole	6			
	Bigtooth Aspen	30	Pole	6	38		
	Black Cherry	5	Pole/Sapling	5			
	Ironwood	20	Sapling/Pole	4			
198	4130 - Aspen	Sapling Well	27.2	18	Immature	N/A	Stand final harvested 6/2008 under Taffletown Aspen 078-07-01.
	Canopy Species	% Cover	Size Class	DBH	Age		
	Red Maple	25	Sapling	2	18		
	Quaking Aspen	15	Sapling	3	18		
	Bigtooth Aspen	55	Sapling	3	18		
	Balsam Fir	5	Sapling	3			
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	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	15	Sapling	1	9	Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
	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.
				Sub-Canopy Species	Density	Avg. Height	Size
				Red Pine	Medium	< 5 feet	< 5 feet
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 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.
				Sub-Canopy Species	Density	Avg. Height	Size
				Red Pine	Medium	< 5 feet	< 5 feet