



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54027

Entry Year 2022

Acreage: 1,146

County Montmorency

Management Area: Thunder Bay Outwash

Revision Date: 2020-05-19

Stand Examiner: Doug Tyran

Legal Description:

T30N, R3E, Sec. 24 & 25; T30N, R4E, Sec. 19, 20, 21, 22, 29 & 30

Identified Planning Goals:

Maintain aspen on suitable sites.

Soil and topography:

This flat, poorly drained compartment feeds into the Thunder bay River. Soils are mucks and sands. There are 834 acres in wetland and PArVCo.

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

The compartment is mostly surrounded by private hunting land.

Unique Natural Features:

One or more occurrences have been reported for this compartment.

Archeological, Historical, and Cultural Features:

None Reported.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

No special considerations exist for this compartment.

Wildlife Habitat Considerations:

This compartment contains bottom land of the Thunder Bay River, a mix of swamp and lowland types, aspen, and a minor upland hardwood component. The swamp and lowlands provide habitat for a variety of waterfowl along with cover for black bear and bobcat. The area has high deer populations and is within the Deer Management unit 452 (Core bovine Tuberculosis area). Habitat components of aspen and cedar provide food and cover for multiple species at a variety of age classes. We are working to maintain a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no known economic use for the Coldwater Shale. Gravel pits are located all around this area with potential on the uplands. This area has been drilled and is producing gas from the Antrim Shale. There is potential for additional Antrim Shale development.

Vehicle Access:

Roads to be closed are shown on the compartment map as closed or abandoned.

Survey Needs:

Need a survey for a possible trespass in stand 34 to verify ownership boundary.

Recreational Facilities and Opportunities:

Primarily hunting.

Fire Protection:

Adequate.

Additional Compartment Information:

The following reports from the Inventory are attached:

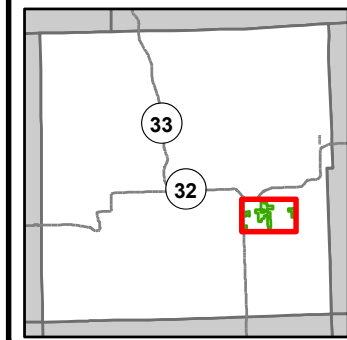
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

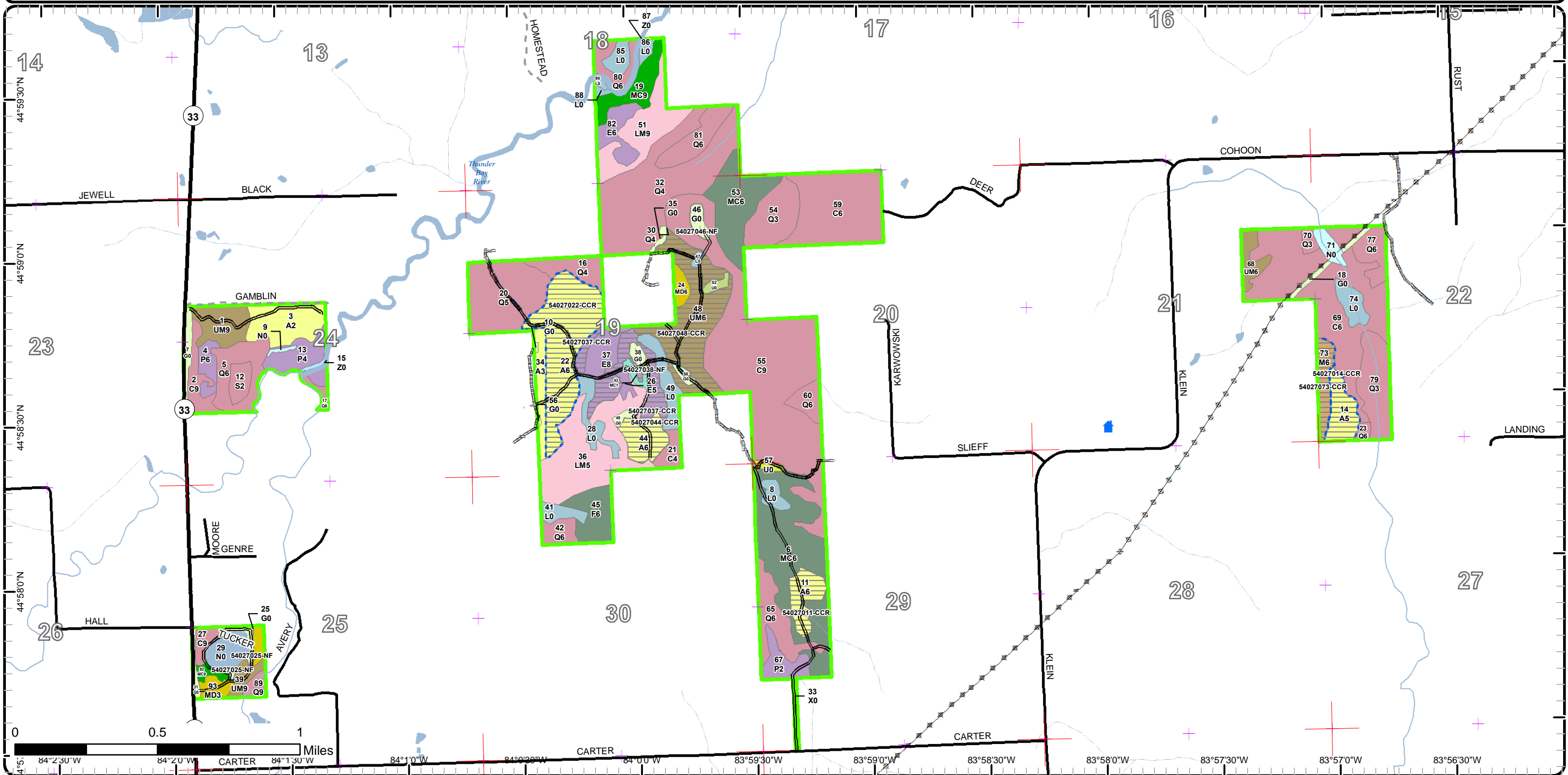
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 27
 T30N, R03E, Sec. 24, 25
 T30N, R04E, Sec. 18-22, 29, 30
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2022
 Acres: 1,146 GIS Calculated
 Examiner: Doug Tyran
 Map Revised: 10/22/2020
 Map Phase: Post-Review

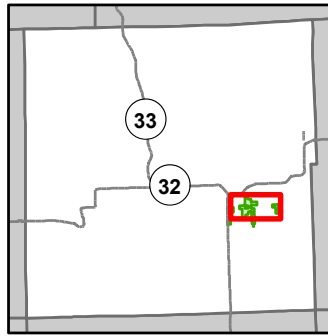


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Private - Dirt / Gravel Road
- House
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Opening Maintenance
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot

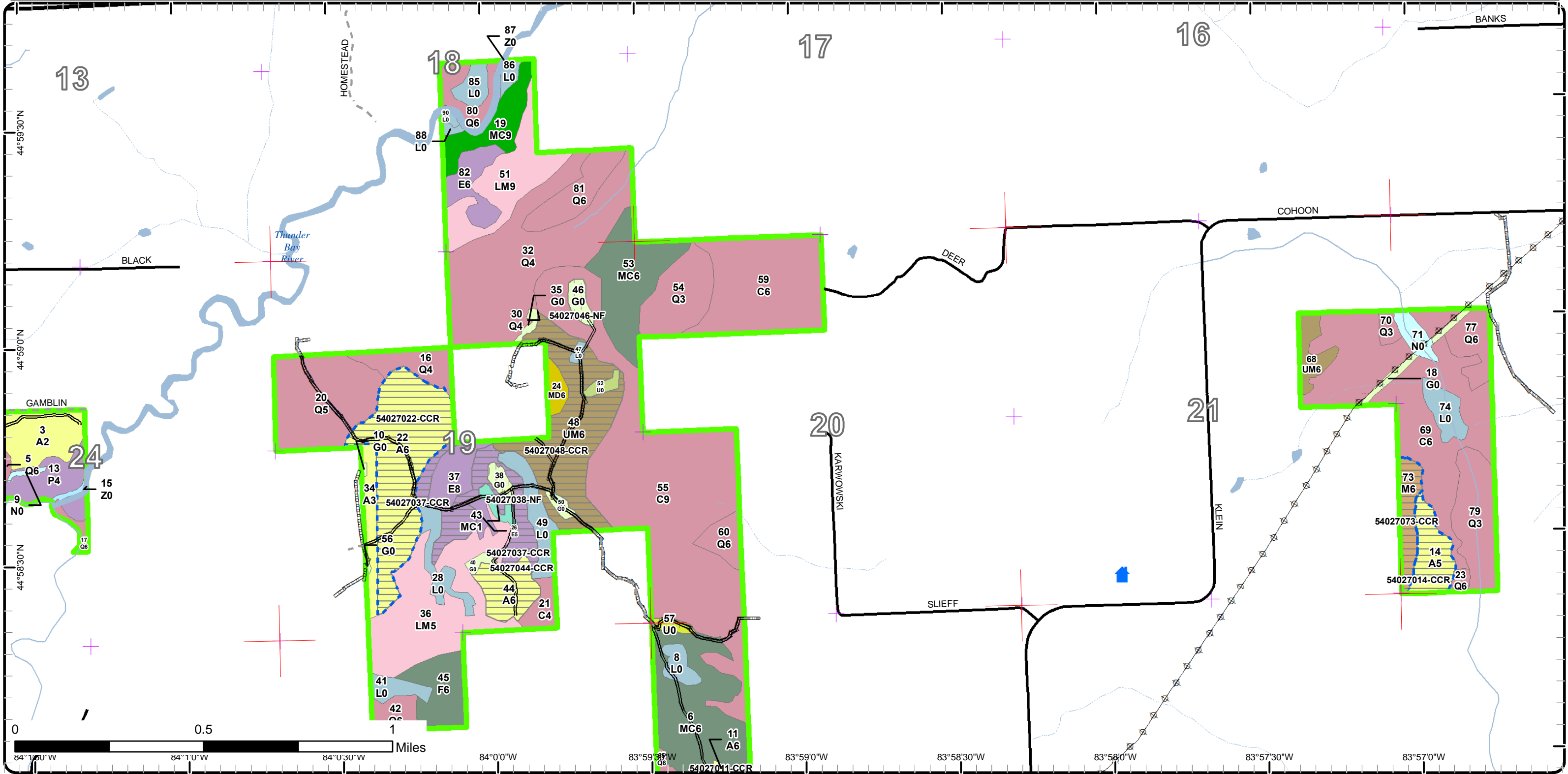


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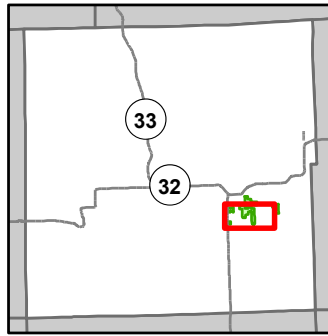


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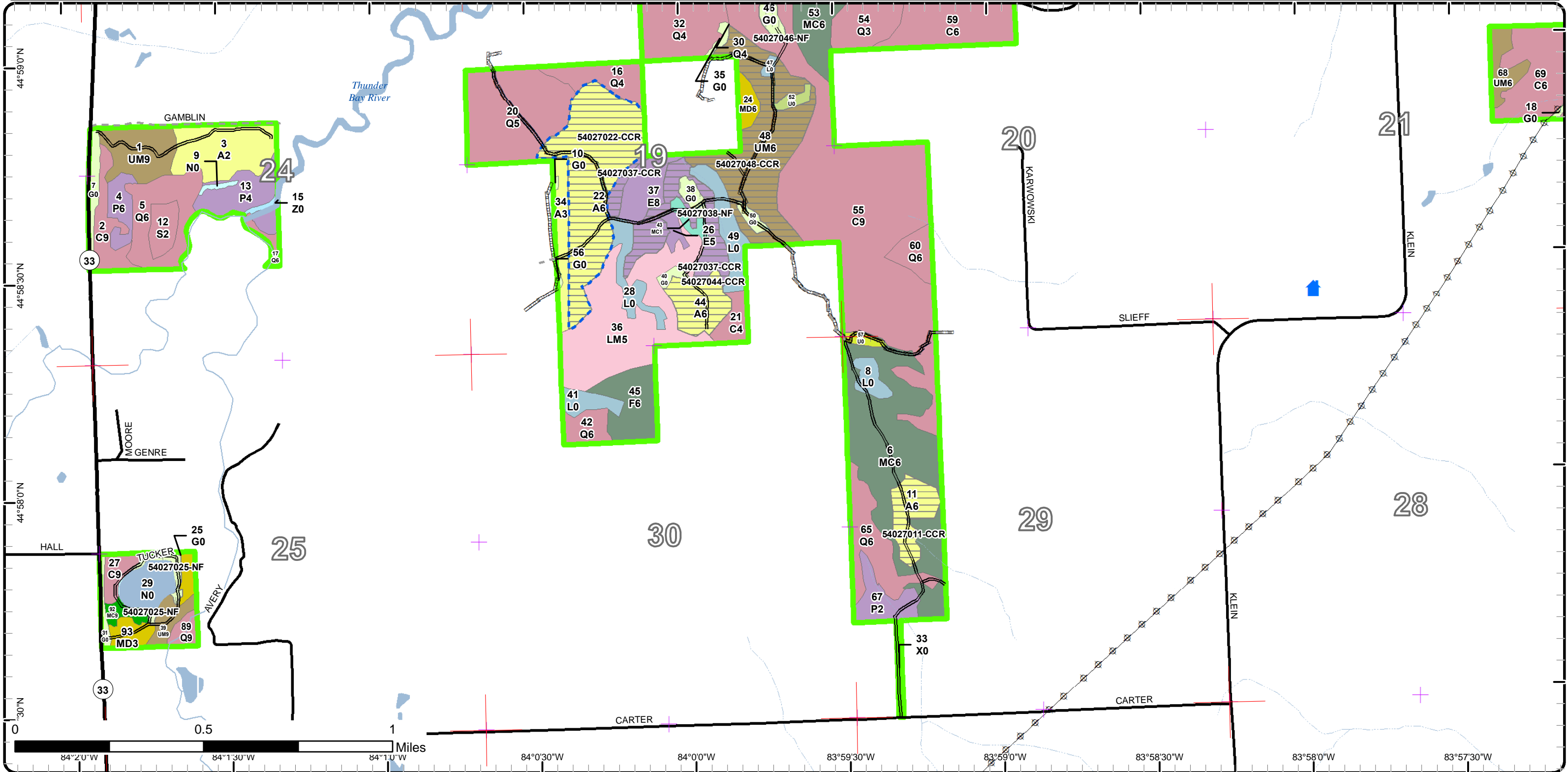


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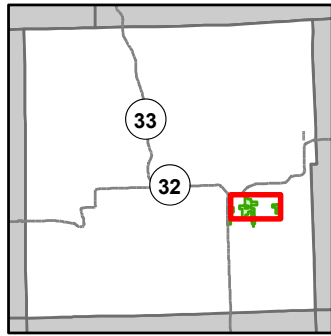


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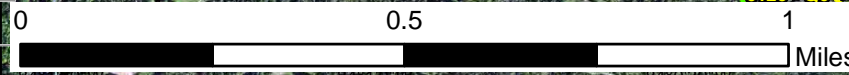
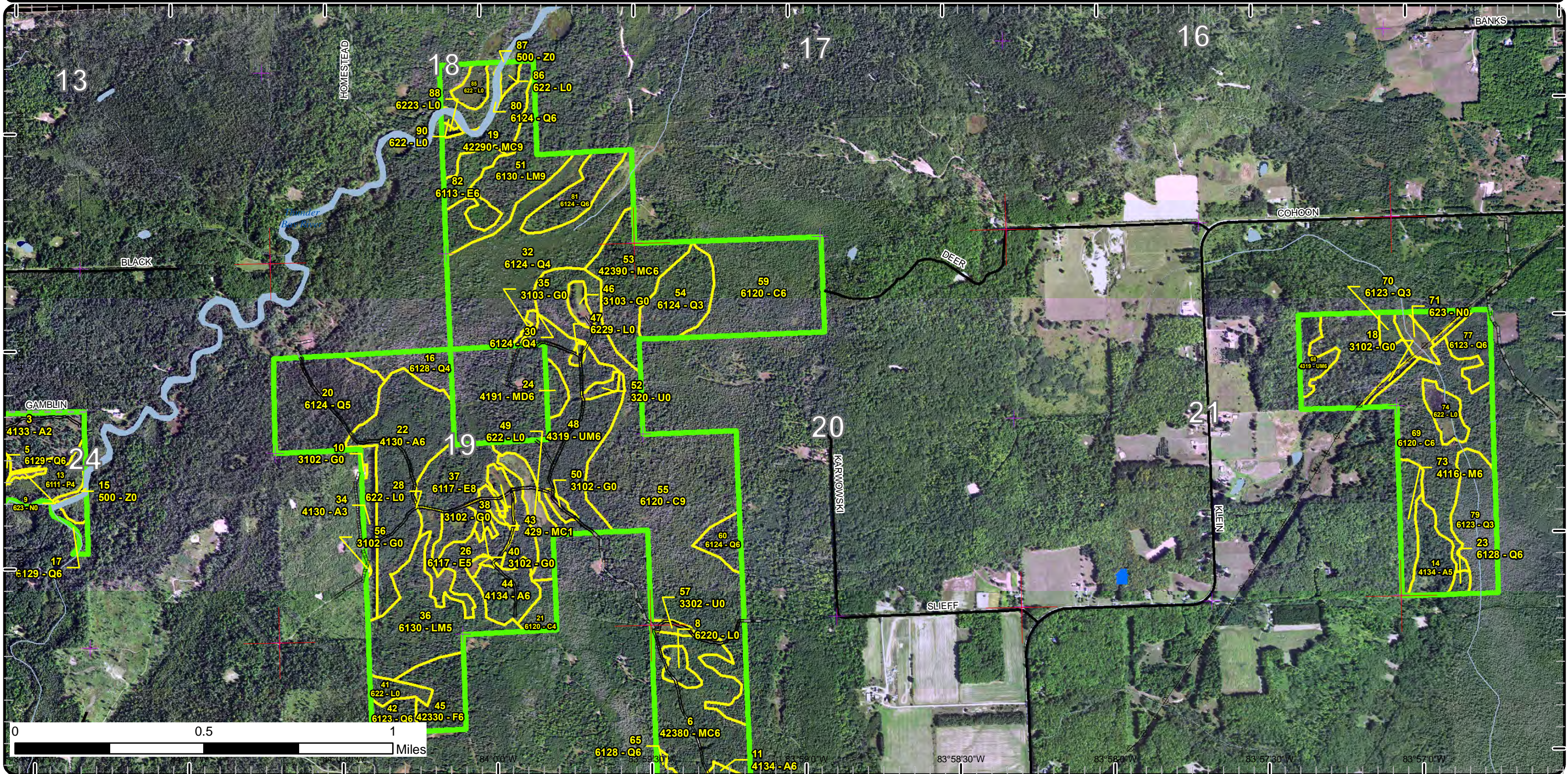


Stand Boundary Map

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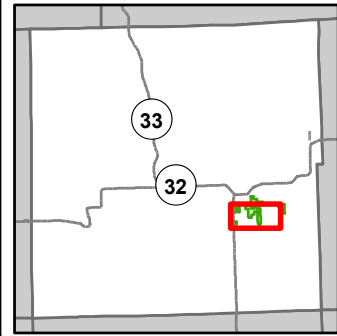
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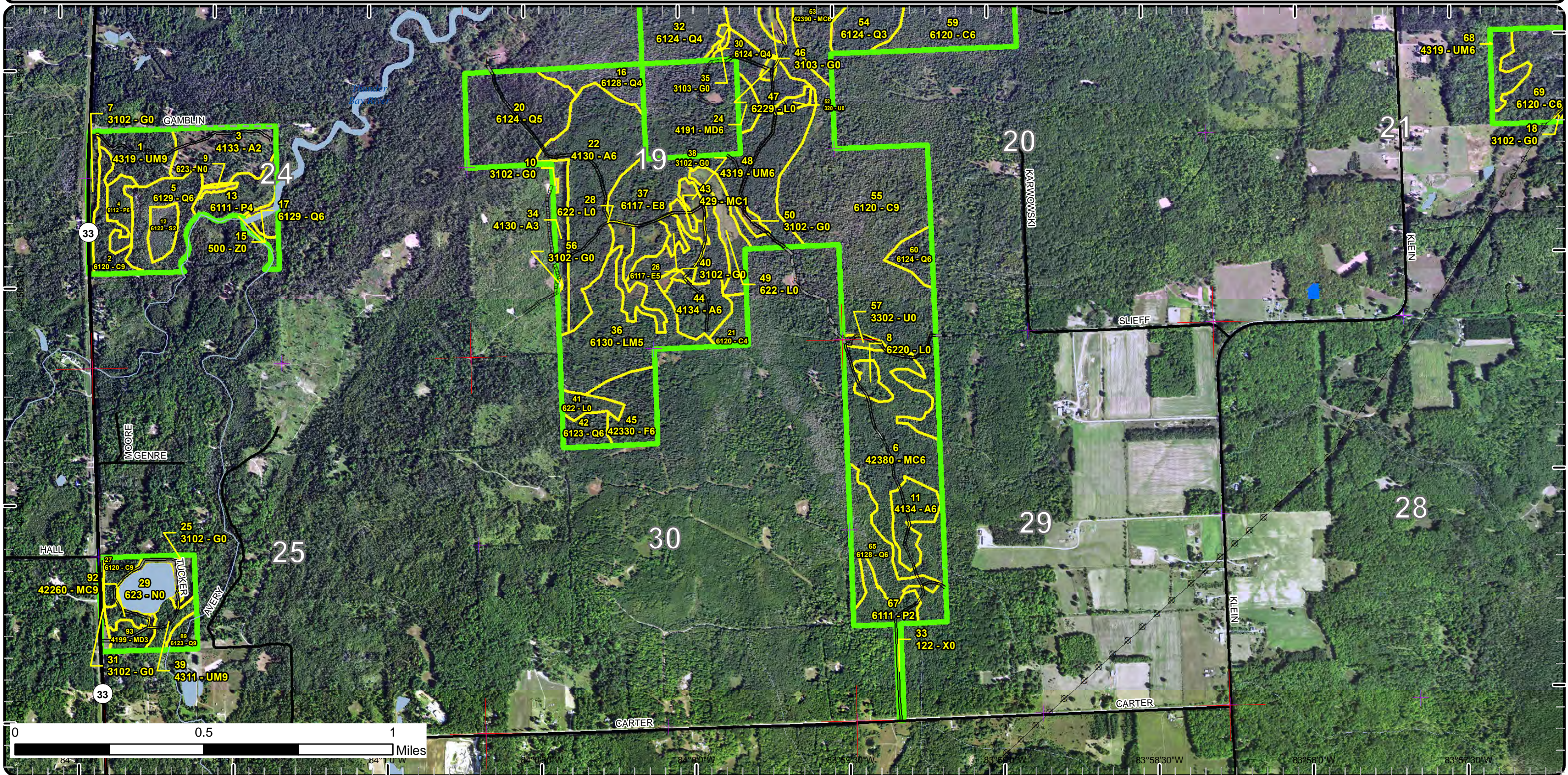
84°0'0" W 83°59'30" W 83°58'30" W 83°58'0" W 83°57'30" W 83°57'0" W

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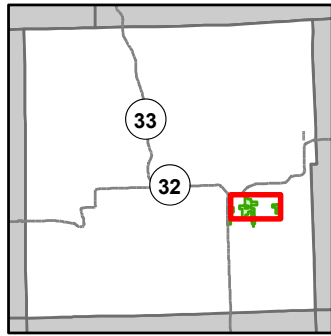


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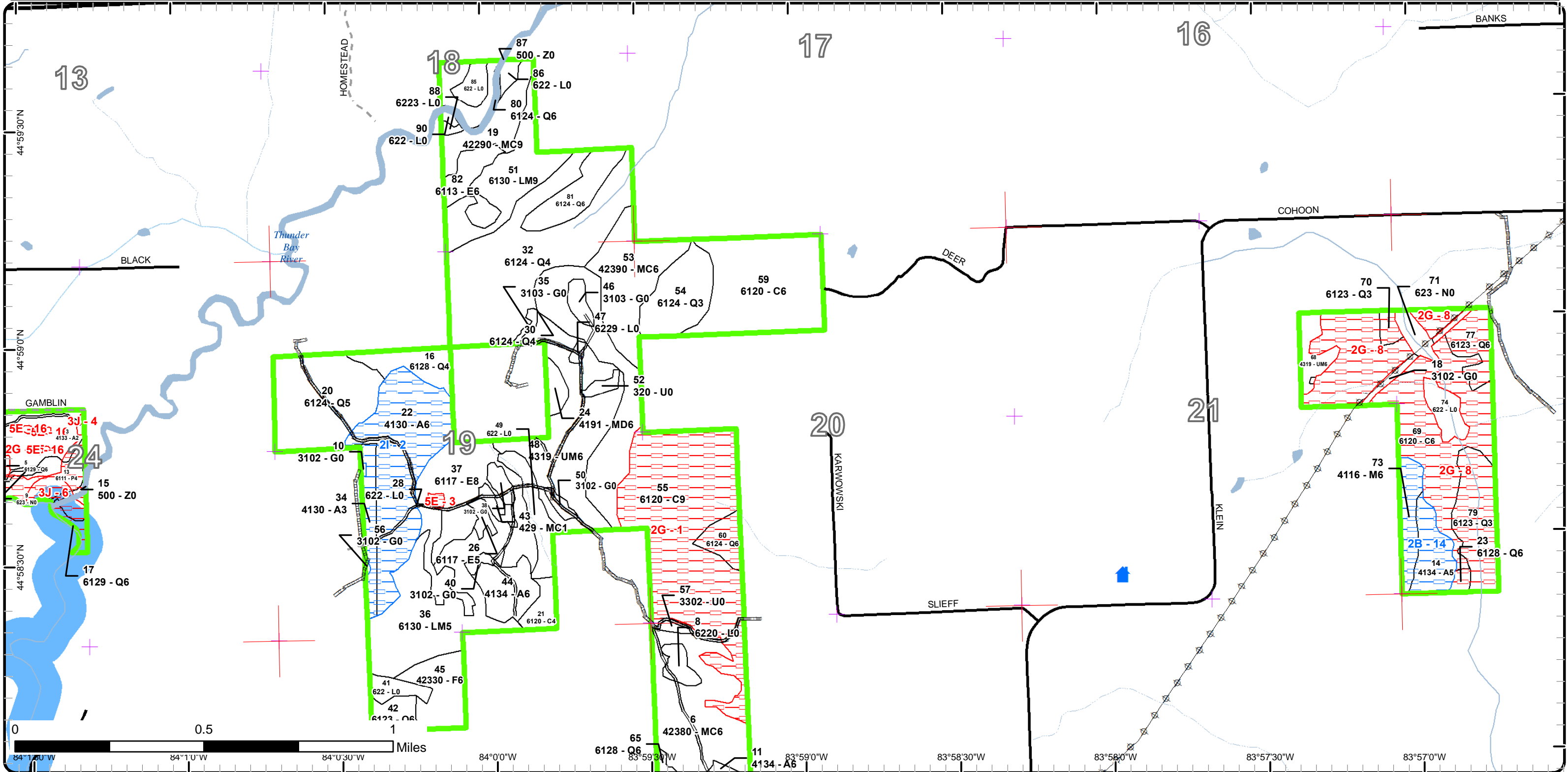


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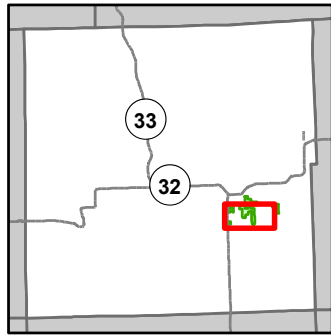


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

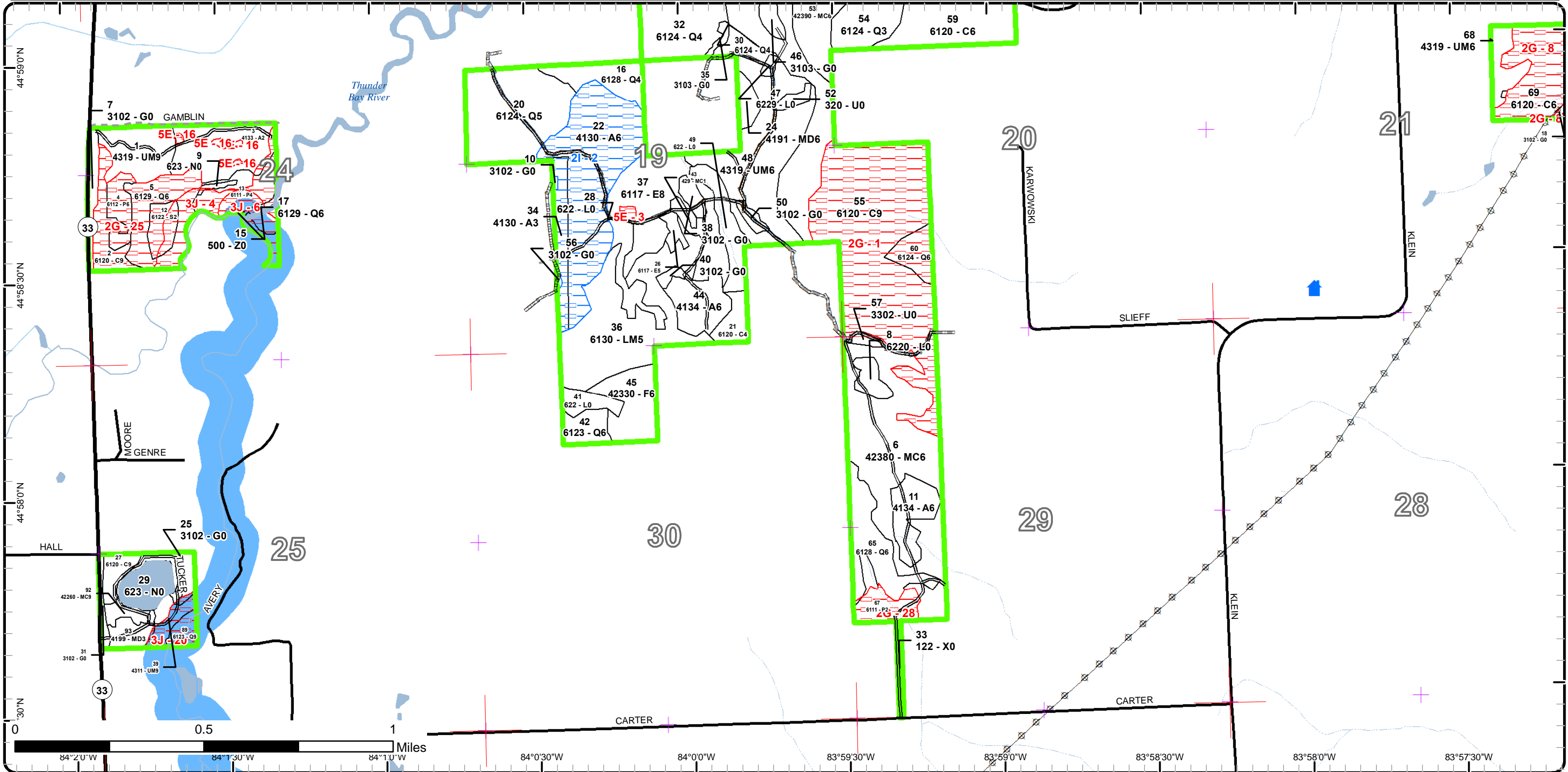


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Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Doug Tyran : Examiner

Compartment 27 Year of Entry 2022



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	32	0	0	0	0	77	0	13	0	0	0	0	0	0	0	0	0	122
Cedar	0	0	0	0	0	0	0	0	6	50	0	75	0	141	5	0	0	0	277
Herbaceous Openland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	0	6	10	15	0	0	0	0	0	0	0	0	0	0	31
Lowland Conifers	0	0	0	0	3	0	86	33	63	0	4	48	11	0	0	0	19	0	267
Lowland Deciduous	0	0	0	0	0	0	0	0	11	33	2	0	0	0	0	0	0	0	46
Lowland Mixed Forest	0	0	0	0	0	0	27	50	0	0	0	0	0	0	0	0	0	0	77
Lowland Shrub	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Marsh	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	8	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	12
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	3	0	15	0	0	0	18
Northern Hardwood	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Upland Conifers	0	3	0	0	0	31	61	0	0	0	0	0	0	0	0	0	0	0	94
Upland Mixed Forest	0	0	0	0	0	8	48	16	6	0	0	0	0	0	0	0	0	0	78
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Spruce/Fir	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	97	43	0	0	3	45	319	134	99	83	6	129	14	141	20	0	19	0	1151



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 27

Total Compartment Acres: 1,146

Commercial Harvest - 95
 Harvests with Site Condition - 75
 Next Step Harvest - 13
 Habitat Cut - 13

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	90	0	0	0	0	0	0	0	0	90
Lowland Deciduous	22	0	0	0	0	0	0	0	0	22
Northern Hardwood	10	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	48	0	0	0	0	0	0	0	0	48
Total	170	0	0	0	0	0	0	0	0	170

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	170	0	0	0	0	0	0	0	12	182
Next Step	13	0	0	0	0	0	157	0	0	170
Total	183	0	0	0	0	0	157	0	12	353



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:

11	54027011- CCR	11.8	4134 - Aspen, Spruce/Fir	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, leave 3-10% area retention. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, spruce, fir & red maple. <u>Regen:</u></p> <p><u>Other</u> Harvest during dry or frozen conditions. Consider leaving retention near seeps/streams or leave out of treatment if necessary. Add <u>Comment:</u> grouse/hare log spec.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
14	54027014- CCR	12.9	4134 - Aspen, Spruce/Fir	Poletimber Medium	79	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, leave 3-10% area retention. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, red maple, balsam fir, spruce & cedar. <u>Regen:</u></p> <p><u>Other</u> Do not cut cedar, consider putting retention around cedar pockets, or leave out of sale. Add grouse/hare log spec. <u>Comment:</u> Best access through 7-UP camp via private road.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
22	54027022- CCR	52.1	4130 - Aspen	Poletimber Well	57	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, leave 3-10% area retention. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, red maple, balsam fir, & spruce <u>Regen:</u></p> <p><u>Other</u> Harvest during dry or frozen conditions. Add grouse/hare log spec. <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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25 54027025-NF 3.6 3102 - Grass Nonstocked NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No

Prescription Specs: Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

37 54027037-CCR 22.4 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 87 1-50 Harvest Clearcut with Retention 6117 - Lowland Deciduous, Mixed Coniferous Even-Aged No

Prescription Specs: Clearcut these edges to regenerate along with the adjacent treatments. Leave 3-10% area retention.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Aspen, red maple, spruce & fir.

Other Comment: Harvest during dry or frozen conditions. Retention already designated in site conditions layer. 1 Acre, Approx. 4.5%

Site Condition

Proposed Start Date: 10/1 /2021

38 54027038-NF 3.0 3102 - Grass Nonstocked NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No

Prescription Specs: Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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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
44 54027044-CCR	13.0	4134 - Aspen, Spruce/Fir	Poletimber Well	59	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, leave 3-10% area retention. <u>Specs:</u> <u>Next Step</u> Harvest, Clearcut with Retention <u>Treatments:</u> <u>Acceptable</u> Aspen, spruce, fir, & red maple <u>Regen:</u> <u>Other</u> Harvest during dry or frozen conditions. Add grouse/hare log spec. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
46 54027046-NF	3.5	3103 - Rubus-Fern	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices <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> 10/1 /2021</p>										
48 54027048-CCR	47.8	4319 - Mixed Upland Forest	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, leave 3-10% area retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, spruce, fir, & red maple. <u>Regen:</u> <u>Other</u> Harvest during dry or frozen conditions. Add grouse/hare log spec. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
57 54027057-NF	2.1	3302 - Low Density Conifer Trees	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	320 - Upland Shrub		No
<p><u>Prescription</u> Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices <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> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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73	54027073-CCR	10.2	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest stand (regenerate species & salvage beech), leave 3-10% area retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of Aspen, Maple, & Basswood.

Regen:

Regeneration dominated by Aspen would also be acceptable.

Other Add grouse/hare log spec. Consider using retention to create a wildlife corridor.

Comment:

Best access through 7-UP camp via private road.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2021

Total Treatment 182.4
Acreage Proposed:

Report 4 – Site Conditions

Atlanta Mgt. Unit
Doug Tyran : Examiner

Compartment: 27
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2B	2I	2G	3J	5E
121	44	75	2	Aspen	13	62		1	1
277	98	0	178	Cedar			178		
26	26	0	0	Herbaceous Openland				0	
2	2	0	0	Low-Density Trees					
31	4	0	27	Lowland Aspen/Balsam Poplar			15	13	
265	191	0	74	Lowland Conifers			62	12	
46	45	0	1	Lowland Deciduous					1
77	77	0	0	Lowland Mixed Forest					
46	46	0	0	Lowland Shrub					
6	0	0	6	Lowland Spruce/Fir			4	2	
15	15	0	0	Marsh				0	
12	12	0	0	Mixed Upland Deciduous				0	
18	18	0	0	Natural Mixed Pines					
10	0	10	0	Northern Hardwood	10				
94	94	0	0	Upland Conifers					
76	73	0	4	Upland Mixed Forest				4	0
2	2	0	0	Upland Shrub					
16	16	0	0	Upland Spruce/Fir					
2	2	0	0	Urban					
3	2	0	1	Water				1	
1,146	767	85	295	Total Forested Acres	23	62	259	34	2
	67%	7%	26%	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	2G: Too wet (sensitive soils, does not include access issues)	100	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Available	2I: Survey needed	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-Term retention for the immediate adjacent Lowland deciduous/mixed coniferous harvest (Stand 37).							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cold water stream .							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Priority trout stream.							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	117	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	2B: Unknown if access through adjacent landowner(s) is possible	23	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Doug Tyran : Examiner

Compartment: 27
Year of Entry: 2022



16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Priority trout stream.							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet cedar swamp. Pit and mound topography with sphagnum.							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	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

**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
1	4319 - Mixed Upland Forest	Sawtimber Well	15.5	62	111-140	N/A	Mixed stand; aspen and spruce are large. The aspen is nearing the end of its life and has conks. Wet pockets throughout the stand that lean heavier to tag alder, cedar, and the occasional cattail. Most are too small to delineate. Fair amount of snags. The stand becomes drier toward the east; the amount of white pine and red pine increase as well.																																																																
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2	6120 - Lowland Cedar	Sawtimber Well	10.2	125	141-170	N/A	Small streams, seeps, wet hummocky ground; pit and mound microtopography. Ground covered with moss and liverworts. Some cedar is probably older than 124 years.																																																																
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3	4133 - Aspen, Mixed Pine	Sapling Medium	22.0	5	Immature	N/A	Camp site with water well, from previous owner. Bigger aspen may be sixty years old and suppressed from the start. Cut in 2015, left a lot of white pine. Regen check in 2019 as part of inventory. Heavy browse, but the aspen is above the browse line.																																																																
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4	6112 - Lowland Aspen	Poletimber Well	6.4	41	1-50	N/A	This is a wet aspen stand. The aspen are not doing well (high water table). I would not recommend harvesting; not only will a rise in the water table prevent merchantable trees from regenerating, but there is deeper organic muck that will cause troubles for machinery. Per old inventory notes: "A former cedar stand with scattered seeps and flowing drainages."																																																																
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5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	19.1	151	171-200	N/A	Sphagnum hummocks, pit and mound microtopography. Pits look like they are seasonally wet. Snowberry, goldthread, bunchberry, labrador tea, ribes spp. This stand is in a depression. I tried to core the cedar, but the heartwood was decayed; I counted 150 rings, so the cedar is even older than that.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
6	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	61.1	51	1-50	N/A	Trace amounts of red maple, paper birch, red pine, and white pine. For the age of the trees they are small. Seasonally wet pockets, lots of small balsam fir, wet ground and high water table. Not a productive site. Found a single, charred pine stump. .																																							
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7	3102 - Grass	Nonstocked	5.2			No																																								
8	6220 - Alder/willow	Nonstocked	4.5	0		No	Wet area with tag alder and willow. Some trees like tamarack, black spruce, and cedar around the edges.																																							
9	623 - Emergent Wetland	Nonstocked	0.8			No	Mostly cattails, but there are some smaller trees and open water. Larch, black spruce, tag alder, salix.																																							
10	3102 - Grass	Nonstocked	0.3	0	Unspecified																																									
11	4134 - Aspen, Spruce/Fir	Poletimber Well	11.8	56	81-110	N/A	Mixed aspen stand, thicker fir understory.																																							
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Balsam Fir	Full	10 - 20 feet	Sapling																																											
12	6122 - Black Spruce	Sapling Medium	6.0	101	1-50	N/A	Wet, treed bog. Small trees, more widely spaced.																																							
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13	6111 - Lowland Balsam Poplar	Poletimber Poor	14.7	60	51-80	N/A	Wet, floodplain area. Mix of species.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
14	4134 - Aspen, Spruce/Fir	Poletimber Medium	12.9	79	81-110	N/A	Mix of aspen ages and sizes with smaller diameter balsam fir underneath. Balsam fir in the canopy becomes more common toward the north. Lots of coarse woody debris. Aspen is dying out, would benefit from being harvested.																																														
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15	500 - Water	Nonstocked	1.0			No																																															
16	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	11.3	111	1-50	N/A	Very wet, alot of dead black ash																																														
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17	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	2.5	100		N/A	Probably heavy to cedar, as Gilchrist is noted for cedar stands.																																														
18	3102 - Grass	Nonstocked	3.3			No																																															
19	42290 - Natural Mixed Pine	Sawtimber Well	15.1	130	111-140	N/A																																															
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20	6124 - Lowland Spruce-Fir	Poletimber Medium	39.3	70	51-80	N/A	Alot of dead ash, some dead spruce to. Stream flowing through north west portion																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	6120 - Lowland Cedar	Poletimber Poor	5.8	75	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		75	Pole	7	75	Balsam Fir	
Black Spruce		15	Log	11		Tag Alder	
Paper Birch		5	Pole	8		Density	
Balsam Poplar		5	Log	10		Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
22	4130 - Aspen	Poletimber Well	52.1	57	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		76	Pole/Log	9	57	Balsam Fir	
Balsam Fir		15	Pole	5		Cherry (spp.)	
Black Cherry		5	Sapling/Pole	3		Red Maple	
Red Maple		3	Log	11		Black Cherry	
Red Pine		1	Log	12		White Spruce	
						Density	
						Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
						Sapling	
						Sapling	
						Sapling	
23	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	1.8	101	111-140	N/A	Hemlock pocket with other components.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Hemlock		40	Pole/Log	8	101	Balsam Fir	
Quaking Aspen		20	Log/Pole	10		Density	
Balsam Fir		20	Pole/Sapling	5		Avg. Height	
Paper Birch		10	Pole/Log	8		Size	
Northern White Cedar		10	Log	14		Sapling	
24	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.1	60	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		40	Pole/Log	8	60	Balsam Fir	
Quaking Aspen		25	Pole	5	48	Tag Alder	
Balsam Fir		30	Pole	9		Density	
White Spruce		5	Pole	6		Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
25	3102 - Grass	Nonstocked	3.6			No	
26	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	2.4	94	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		40	Pole	9	94	Balsam Fir	
Paper Birch		15	Pole	8		Black Spruce	
Balsam Poplar		5	Pole	7		Tag Alder	
Balsam Fir		40	Sapling/Pole	4	50	Density	
						Avg. Height	
						Size	
						Sapling	
						Sapling	
						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
27	6120 - Lowland Cedar	Sawtimber Well	4.9	135	81-110	N/A	Wet, shrubby cedar stand. Although mostly cedar, there is a pocket of tamarack that runs through the middle of this stand. Tip-up mounds are common. Small patch of larger pine and drier ground in the northeast corner.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		60	Log/Pole	10	135	Tag Alder		
Balsam Fir		10	Pole/Log/Sap	6		Balsam Fir		
White Pine		15	XLog	22		Tamarack		
Red Pine		5	XLog/Log	22		White Pine		
Bigtooth Aspen		5	Log/Pole/XLog	14				
Tamarack		5	Log/Pole	10				
28	622 - Lowland Shrub	Nonstocked	8.1			No		
29	623 - Emergent Wetland	Nonstocked	9.5			No	Cattail marsh.	
30	6124 - Lowland Spruce-Fir	Poletimber Poor	0.0	50	1-50	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		15	Pole	5		Balsam Fir		
Black Spruce		30	Sapling/Pole	3		Tag Alder		
Northern White Cedar		2	Pole	6		Balsam Poplar		
Balsam Fir		43	Pole	5	50	Red Osier Dogwood		
Balsam Poplar		10	Sapling/Pole	4				
31	3102 - Grass	Nonstocked	2.4			No		
32	6124 - Lowland Spruce-Fir	Poletimber Poor	71.5	50	1-50	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		15	Pole	5		Balsam Fir		
Black Spruce		30	Sapling/Pole	3		Tag Alder		
Northern White Cedar		2	Pole	6		Balsam Poplar		
Balsam Fir		43	Pole	5	50	Red Osier Dogwood		
Balsam Poplar		10	Sapling/Pole	4				
33	122 - Road/Parking Lot	Nonstocked	2.1	0		No		
34	4130 - Aspen	Sapling Well	9.6	9	Immature	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		93	Sapling	2	9	Balsam Fir		
Red Pine		2	XLog	20		Cherry (spp.)		
Balsam Fir		5	Pole	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
35	3103 - Rubus-Fern	Nonstocked	1.4		Unspecified	No																																																		
36	6130 - Fir, Aspen, Maple	Poletimber Medium	49.6	65	1-50	N/A																																																		
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37	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	32.8	87	1-50	N/A	braken fern on hummocks, tag alder and water in between.																																																	
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38	3102 - Grass	Nonstocked	3.0			No																																																		
39	4311 - Pine, Aspen Mix	Sawtimber Well	5.6	76	81-110	N/A	Mixed stand, in terms of species, age, and size. There are some larger aspen to the north. The southeast boundary of this stand is where it starts to slope down to Gilchrist Creek. Heavier to white pine near the emergent marsh to the point where I was debating delineating it as a separate stand but didn't due to size. Most of this stand is not harvestable due to BMP buffers on Gilchrist Creek.																																																	
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41	622 - Lowland Shrub	Nonstocked	5.1			No																																																		
42	6123 - Lowland Fir	Poletimber Well	6.6	65	51-80	N/A																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
43	429 - Mixed Upland Conifers	Sapling Poor	2.6	6	Immature	N/A	Old field reverting back to forestland.																																													
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44	4134 - Aspen, Spruce/Fir	Poletimber Well	13.0	59	51-80	N/A																																														
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45	42330 - Upland Fir	Poletimber Well	15.8	60	51-80	N/A																																														
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46	3103 - Rubus-Fern	Nonstocked	3.5		Unspecified	No																																														
47	6229 - Mixed lowland shrub	Nonstocked	1.1		Unspecified	No																																														
48	4319 - Mixed Upland Forest	Poletimber Well	47.8	55	81-110	N/A																																														
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49	622 - Lowland Shrub	Nonstocked	10.8			No	Very wet near road.																																													
50	3102 - Grass	Nonstocked	2.0			No	mostly open grasses with sweet Fern and other herbaceous vegetation. filling in with White Spruce Pine																																													
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52	320 - Upland Shrub	Nonstocked	2.1		Unspecified	No																																																						
53	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	30.5	45	81-110	N/A	mostly spruce/fir, low pockets with cedar dispersed throughout, patch of natural red pine to the north.																																																					
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54	6124 - Lowland Spruce-Fir	Sapling Well	20.7	100	51-80	N/A																																																						
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55	6120 - Lowland Cedar	Sawtimber Well	130.8	121	201+	N/A	Variety of wet areas; some tag alder pockets, some seeps. Mostly looks like high water table. Tip ups more frequent as you move into the stand. Random tag alder and balsam fir thickets. Some quaking aspen, stressed and dying with burls. Cedar sitting on top of water. Trespass activity near the trail; cut cedar and a wood pallet bridge. I cored a few cedars and got 115 and 120 for the ages, but the heartwood of the cedars was decayed, so they were a bit older.																																																					
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56	3102 - Grass	Nonstocked	0.3	0	Unspecified																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
57	3302 - Low Density Conifer Trees	Nonstocked	2.1			No	open upland field with scatered clumps of tamarack.																																											
59	6120 - Lowland Cedar	Poletimber Well	49.9	80	81-110	N/A																																												
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60	6124 - Lowland Spruce-Fir	Poletimber Well	7.1	61	1-50	N/A	This is an odd stand, it is somehow upland and lowland at the same time. High water table, but top of soil and some vegetation on it leads more to upland, but as soon as there's a dip in the ground it's back to lowland. Edge of stand is diverse but plunges into monoculture of spruce as you move inward.																																											
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65	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	18.4	61		N/A																																												
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67	6111 - Lowland Balsam Poplar	Sapling Medium	10.0	55	1-50	N/A	Wet stand, pockets of standing water. Tag alder thicket with small balsam poplar and paper birch. Cattails and grass in some areas.																																											
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68	4319 - Mixed Upland Forest	Poletimber Well	7.5	41	1-50	N/A	Autumn olive. There's a trail that leads to private property.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
69	6120 - Lowland Cedar	Poletimber Well	75.2	101	141-170	N/A	Cedar stand with blowdown pockets in the north. Some straighter, taller cedar with less taper in the north as well. Overall a wet stand, with streams, running water, pools, and seeps. Dwarf horsetail, maidenhair fern, and autumn olive. Marsh grasses and cattails in some areas. The cedar is at least 100 years old; I cored one and could only count 70 years due to decay. Toward the south there's patches of small diameter balsam fir thickets.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		1	Log	12		Balsam Fir		
White Spruce		5	Log	15		Medium		
Northern White Cedar		85	Log/Pole	10	101	10 - 20 feet		
Balsam Fir		9	Pole/Sapling	5		Sapling		
70	6123 - Lowland Fir	Sapling Well	2.7	33	1-50	N/A	Small diameter balsam fir with red maple and balsam poplar. Lots of beaver activity. Presence of chainsawed trees and a path. Water seeping up from ground.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		7	Sapling	4		Balsam Fir		
Balsam Fir		85	Sapling	4	33	White Spruce		
White Spruce		2	Pole/Sapling	5		Red Maple		
Red Maple		3	Sapling	4		Northern White Cedar		
Northern White Cedar		3	Log	12				
71	623 - Emergent Wetland	Nonstocked	4.8			No	Damming as the result of beavers. Talked to the surrounding landowners and they said that three years ago it was drier, but since the beavers have moved in it has become more of a pond. The dam is easily walkable.	
Sub-Canopy Species		Density	Avg. Height	Size				
Cattail spp.		Medium	Unspecified	Non-Wood				
73	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	10.2	52	81-110	N/A	Southern end of stand dominated by aspen, slight transition to hardwoods to the north. Beech bark disease present, and aspen is over-mature, with conks (certain internal rot beginning). Harvest would regenerate this stand and improve forest health. Ash mortality in this stand. A fair amount of autumn olive in the under story. Pit and mound topography, some slight drainage on the south end.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		34	Pole	8	52	Sugar Maple		
Basswood		20	Log	10		High		
Red Oak		1	XLog	18		Low		
Bigtooth Aspen		32	Log/XLog	15	80	Variable		
Beech		10	Pole/Log	8		Low		
Paper Birch		3	Pole/Log	8		Variable		
						Sapling		
74	622 - Lowland Shrub	Nonstocked	7.3			No	South of the beaver flooding, an area of open water surrounded by stunted trees and shrubs.	
77	6123 - Lowland Fir	Poletimber Well	14.4	71	81-110	N/A	I expected the fir would be younger than what I cored. Wet ground, lots of seeps and old conifer stumps. Most of the trees in this stand are small diameter. A railroad grade runs through this stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		60	Pole/Sapling	5	71	White Spruce		
Northern White Cedar		10	Log	11		Low		
White Spruce		5	Pole/Log	8		High		
Quaking Aspen		10	Log/Pole	10		5 - 10 feet		
Paper Birch		10	Pole/Log	10		Sapling		
Red Maple		5	Sapling	4		Balsam Fir		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
79	6123 - Lowland Fir	Sapling Well	22.7	100		N/A	Wet, had to walk on logs. Turned around when the balsam fir and tag alder got too thick. Some large trees over a subcanopy of balsam and tag alder.																																													
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80	6124 - Lowland Spruce-Fir	Poletimber Well	9.1	70	51-80	N/A																																														
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85	622 - Lowland Shrub	Nonstocked	4.9			No																																														
86	622 - Lowland Shrub	Nonstocked	2.2			No																																														
87	500 - Water	Nonstocked	1.8			No																																														
88	6223 - Inundated Shrub Swamp	Nonstocked	0.9			No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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89 6123 - Lowland Fir Sawtimber Well 3.6 90 81-110 N/A Steep slopes down to Gilchrist Creek; wet corridor.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	70	Pole/Sapling	7	90	Balsam Fir	High	10 - 20 feet	Sapling
White Spruce	15	Log/Pole	10		Black Ash	Low	< 5 feet	Sapling
Northern White Cedar	15	Log/Pole	10					

90 622 - Lowland Shrub Nonstocked 0.9 No

92 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 3.1 116 81-110 N/A Older pine stand with large pine, surrounds wetland. Mature hardwoods growing underneath the pine. Trees growing on hummocks/mounds. Water table is just below surface.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	10	71	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Pine	30	XLog/Log	19	116	Red Oak	High	< 5 feet	Seeding
Balsam Poplar	5	Log	14		White Pine	Medium	Variable	Sapling
White Pine	39	XLog	22	116	Balsam Fir	Medium	Variable	Sapling
White Spruce	1	XLog/Log	20		Black Cherry	Low	< 5 feet	Sapling
Bigtooth Aspen	5	Log	12					
Quaking Aspen	5	Log	12					

93 4199 - Other Mixed Upland Deciduous Sapling Well 8.0 7 Immature N/A Stand was cut in 2013. Large (22") oak leave trees. Autumn olive along trail. Balsam poplar more numerous near the emergent wetland. Raspberry, dewberry, bracken fern, and tag alder. White pine and oak regeneration is doing well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	40	Sapling	1	7	Red Oak	Medium	< 5 feet	Seeding
Quaking Aspen	20	Sapling	1	7				
White Pine	15	Sapling/Pole	4					
Red Pine	1	Sapling/Pole	4					
Red Oak	16	Sapling/Pole/Log	4					
Red Maple	5	Sapling	1					
Balsam Fir	3	Sapling	2					