



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54098

Entry Year 2022

Acreage: 431

County Alpena

Management Area: Alpena Lake Plain

Revision Date: 2020-05-18

Stand Examiner: Dale Parris

Legal Description:

T31N R05E Sections 14, 22, 23, 24, and 29

Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Alpena Lake Plains Management Area (ALPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The most prevalent covertypes in the ALPMA for the 2022 Year of Entry (YOE) are the aspen, cedar, lowland conifers, lowland aspen/balsam, and lowland deciduous covertypes. As such, for the purpose of balancing the age class acre distributions of these covertypes across the Management Area (MA), forest management during the 2022 YOE in the ALPMA will focus on these covertypes. Wildlife, recreation, aesthetics, adjacent stands and the larger landscape were considered in all management decisions.

Soil and topography:

Compartment 98 is broken up into 4 parcels of land. There is a 40 acre parcel to the southwest, a 240 acre parcel located centrally, a 133 acre parcel to the east, and a 21 acre parcel to the north. These acreages are approximations.

Overall, the topography of Compartment 98 is flat with a few softly rolling hills in the upland area on east side of the eastern most parcel of the compartment. Greater than 70 percent of Compartment 98 is comprised of soils that are of the poorly drained classes, with the remainder being moderately well drained to excessively drained.

The soil in the southwest 40 acre parcel of Compartment 98 is Lupton muck (very poorly drained).

The soil in the central 240-acre parcel of the compartment is the Wakeley-Tacoda complex (somewhat poorly drained, very poorly drained). This parcel has a narrow strip of Ausable muck bordering the banks of Jewett Creek which runs from the southwest to northeast through this piece of state land.

The eastern most 133 acres is about 70 percent upland soils. These soils are the Ossineke fine sandy loam (moderately well drained), Tacoda sand (somewhat poorly drained), Rubicon sand (excessively drained), and the Zimmerman loamy fine sand (excessively drained).

The soil in the northern 21 acres of Compartment 98 is mainly the Thunderbay very fine sandy loam (poorly drained).

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

Compartment 98 is situated between Hillman, MI to the west and Lachine, MI to the east. Only the southern 40-acre parcel lies south of M-32. The compartment is mostly bordered by large parcel recreational property. Some minor areas border other state land.

Unique Natural Features:

The James Farm was historically located at the east end of Compartment 98. The Michigan DNR has planted corn on the historic James Farm grounds in the past but is no longer doing so. A walleye rearing pond is used at the north end of the historic James Farm on an intermittent basis. When used, the walleye are released into the Thunderbay River immediately adjacent to the rearing pond.

Archeological, Historical, and Cultural Features:

The State Historic Preservation Office (SHPO) did not have areas of concern within Compartment 98.

Special Management Designations or Considerations:

The Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website combined with the Natural Heritage Database had record of 1 species historically being in and/or near Compartment 98 that requires consideration when implementing forest management strategies. This species is the male fern (*Dryopteris filix-mas*).

The Natural Heritage Database had no record of Special Conservation Area (SCA), Ecological Reference Area (ERA), or High Conservation Value Area occurrences in Compartment 98.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is part of a large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of cedar and wetland complexes as well as openings provide food and cover for multiple species at a variety of age classes. Wildlife considerations for this compartment primarily focused on managing early successional habitat where opportunity exists; protecting the biological integrity in lowland systems; and enhancing habitat conditions by allowing for opportunity for mesic and lowland conifer maintenance and restoration, as well as snag and coarse-woody debris enhancement. Restoration and invasive species removal of the "James Farm" is a key wildlife habitat improvement project for the area. 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

T31N-R5E, Sections 14, 22-24, & 29, Alpena County

The nearest active sand/gravel pit is approximately three miles away, and sand & gravel potential within the compartment appears to be limited. Antrim Shale gas production is occurring one mile south of the compartment and slightly farther to the west. The Antrim Shale is thin or absent beneath the compartment, so the potential for additional Antrim wells within the compartment is slim. There is no known hydrocarbon potential from any other proven formations in this area. There is currently no mineral leasing activity in the compartment. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

The southwest 40 acres of Compartment 98 is accessible along its east edge from Paul Road. There is no public vehicle access to the central 240 acre parcel of the compartment. The nearest access roads to these 240 acres is from Keetch and Hawley Roads to the south where permission to continue north would need to be granted by private landowners. The north 21 acre parcel of Compartment 98 is not vehicle accessible. The East 133 acre parcel of the compartment is accessible from James Road to the south.

Survey Needs:

Currently, there is no need for property corner surveys.

Recreational Facilities and Opportunities:

Rabbit, grouse, whitetail deer, turkey, duck, squirrel, and black bear hunting opportunities are available in Compartment 98 in season with a valid license. Fishing and wildlife viewing opportunities are also present.

Fire Protection:

In the case of a wildland fire, response to Compartment 98 will be from the Alpena and Atlanta DNR offices as well as the Green Township and Hillman Township Fire Departments.

Additional Compartment Information:

Compartment 98 is composed of 4 parcels of land as detailed in the "Soil and Topography" section. The Thunderbay River borders the three northern most parcels. Access for recreation on these three parcels may be obtained via the river.

The following reports from the Inventory are attached:

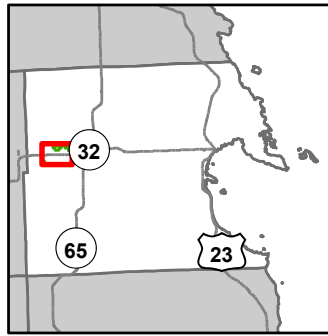
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

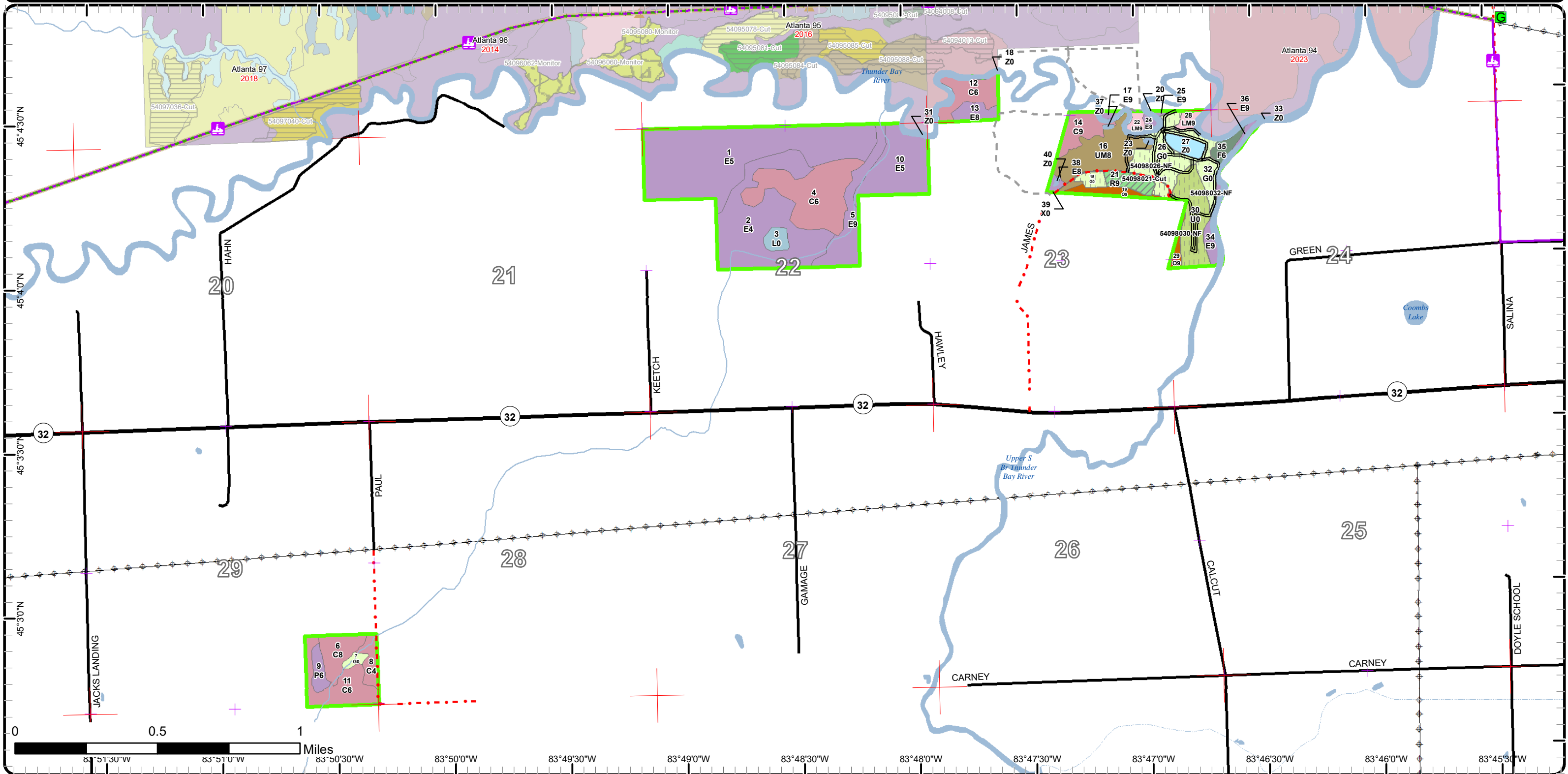
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 98
 T31N, R05E, Sec. 14, 22-24, 29
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2022
 Acres: 431 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 10/22/2020
 Map Phase: Post-Review

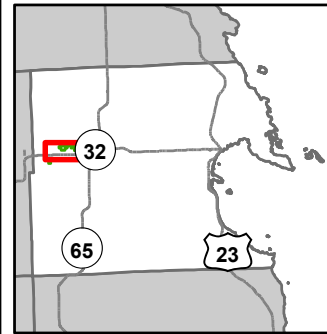


- | | | |
|--|-------------------------------------|-----------------------------|
| — Miris Corners | — Lake/Pond | ■ 310 - Herbaceous Openland |
| ⊕ Remonumented Section Corners | — Perennial River | ■ 320 - Upland Shrub |
| --- Counties | — Lakes and Rivers | ■ 500 - Water |
| == DNR - Secondary Forest Road | ⊕ Powerline | ■ 622 - Lowland Shrub |
| == Federal / State Highway | ▭ Compartment Boundary | |
| == Federal / State / County - Paved Road | ▨ Thinning (Crown, Low, Systematic) | |
| -.- County - Gravel Road | ▭ Opening Maintenance | |
| - - Private - Dirt / Gravel Road | ■ 412 - Oak Types | |
| 🏠 Snowmobile Trails | ■ 421 - Planted Pines | |
| — Designated Hiking Trails | ■ 423 - Other Upland Conifers | |
| — Designated Bicycle Trails | ■ 430 - Upland Mixed Forest | |
| — Designated Snowmobile Trails | ■ 611 - Lowland Deciduous Forest | |
| — Designated Rail Trail | ■ 612 - Lowland Coniferous Forest | |
| — Intermittent Stream | ■ 613 - Lowland Mixed Forest | |
| | ■ 122 - Roads/Parking Lot | |

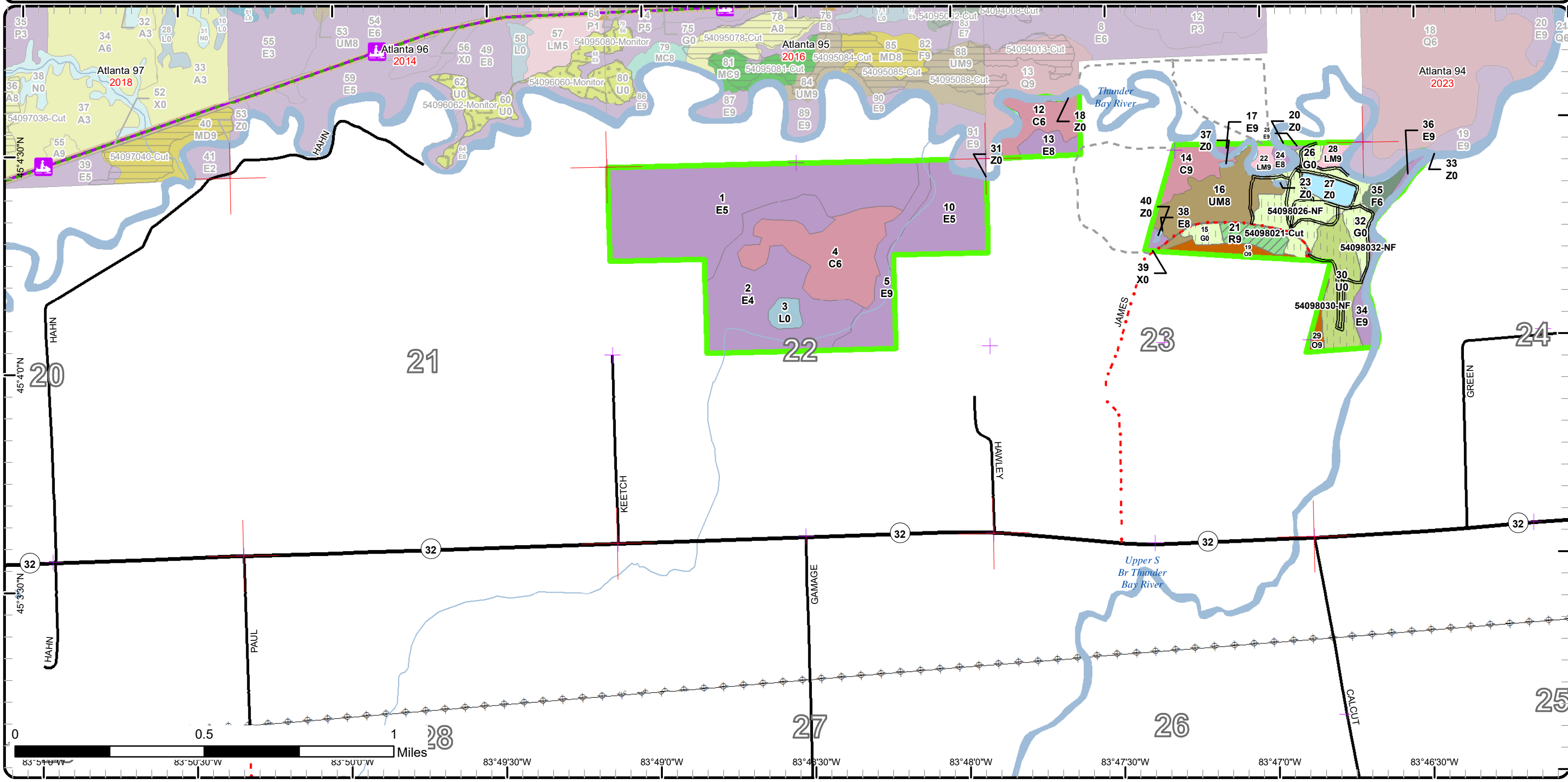


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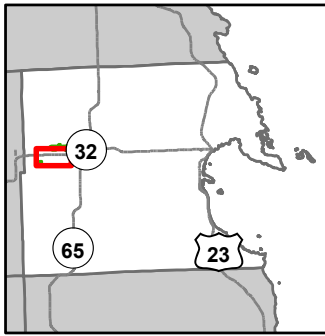


- Miris Corners
- + Remonumented Section Corners
- Counties
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- Snowmobile Trails
- - - Designated Hiking Trails
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- Designated Snowmobile Trails
- Berms
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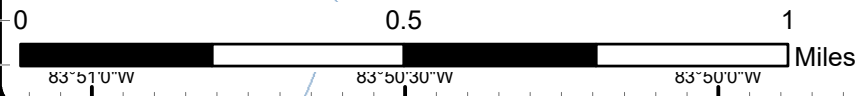
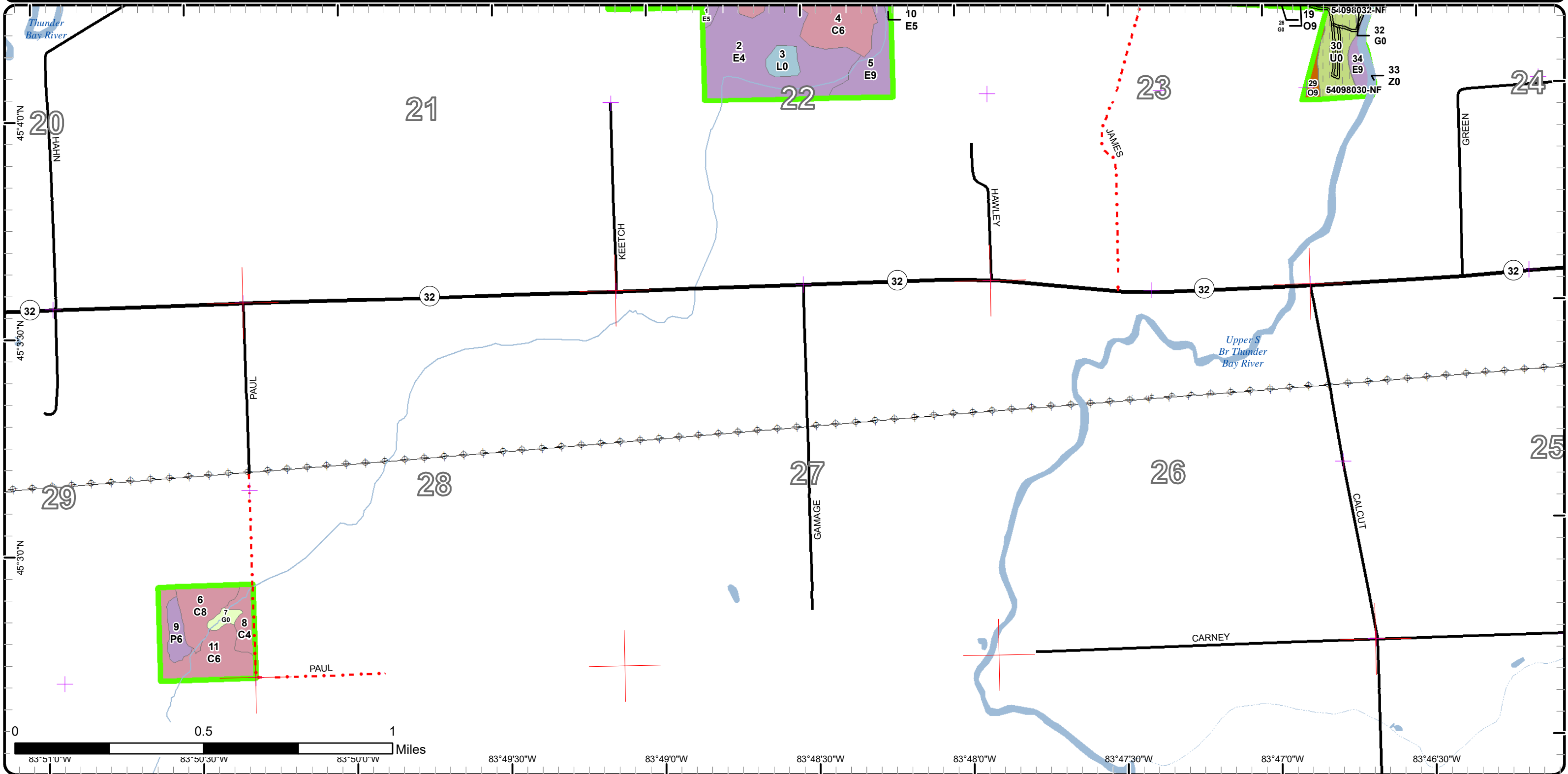


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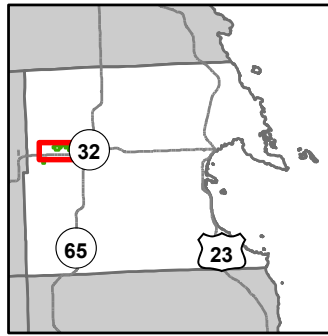


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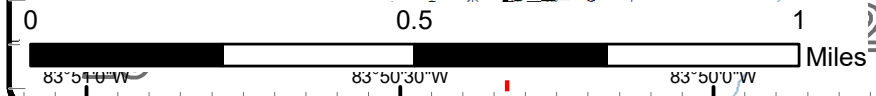
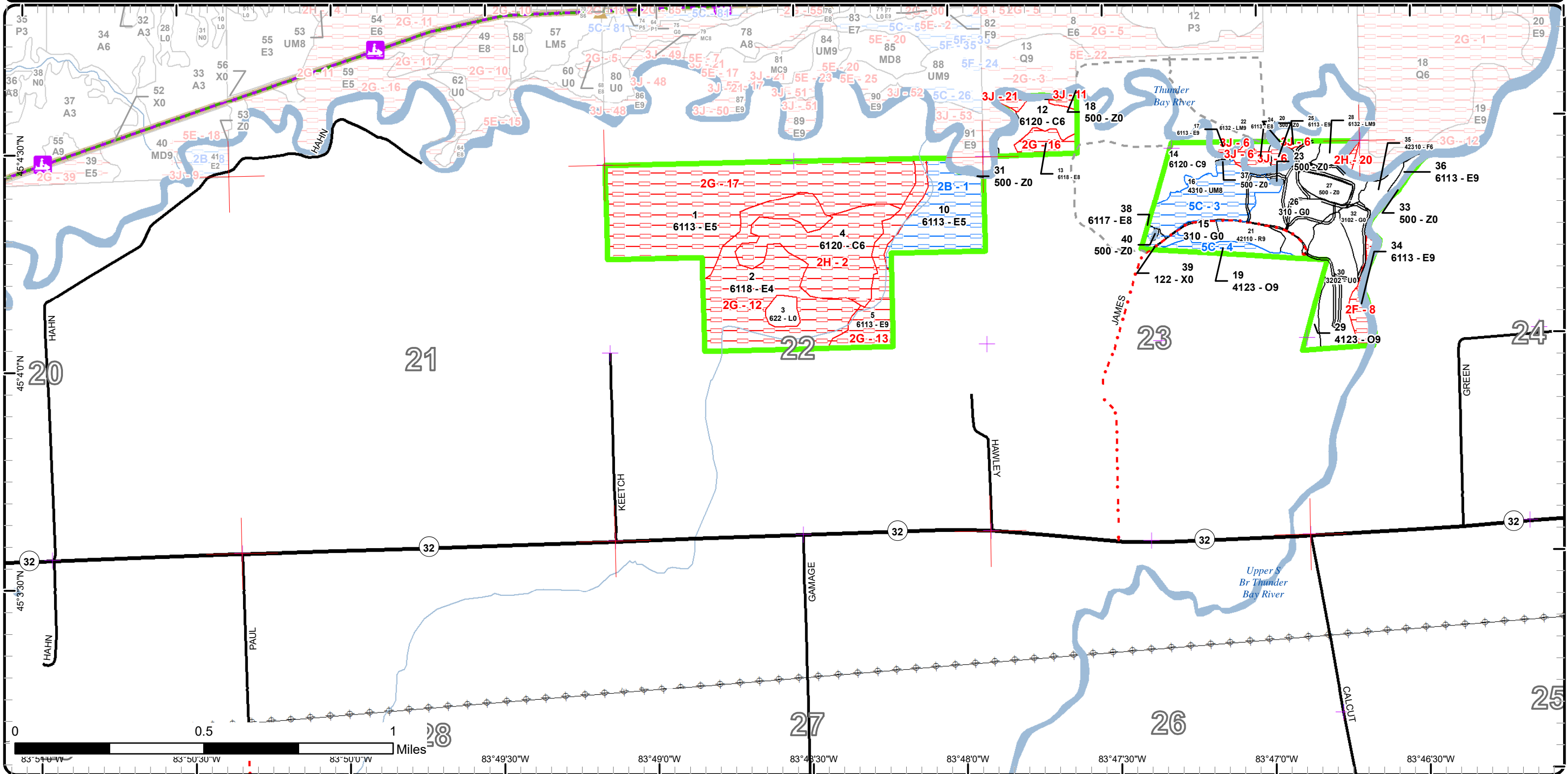


Special Conservation Areas

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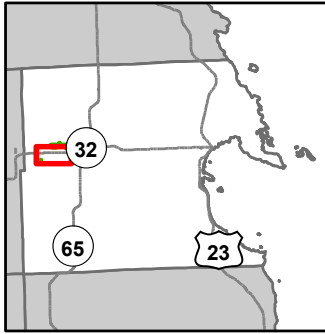
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 - Designated RailTrail
 - ▲ Berms
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers
 - Powerline
 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
 - 3J: Water quality / BMPs (stream, river, or lake)
 - Stand Boundaries
- 5C: Delay treatment for age/size class diversity or exceptional site quality
 2F: Too steep
 2G: Too wet (sensitive soils, does not include access issues)
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)



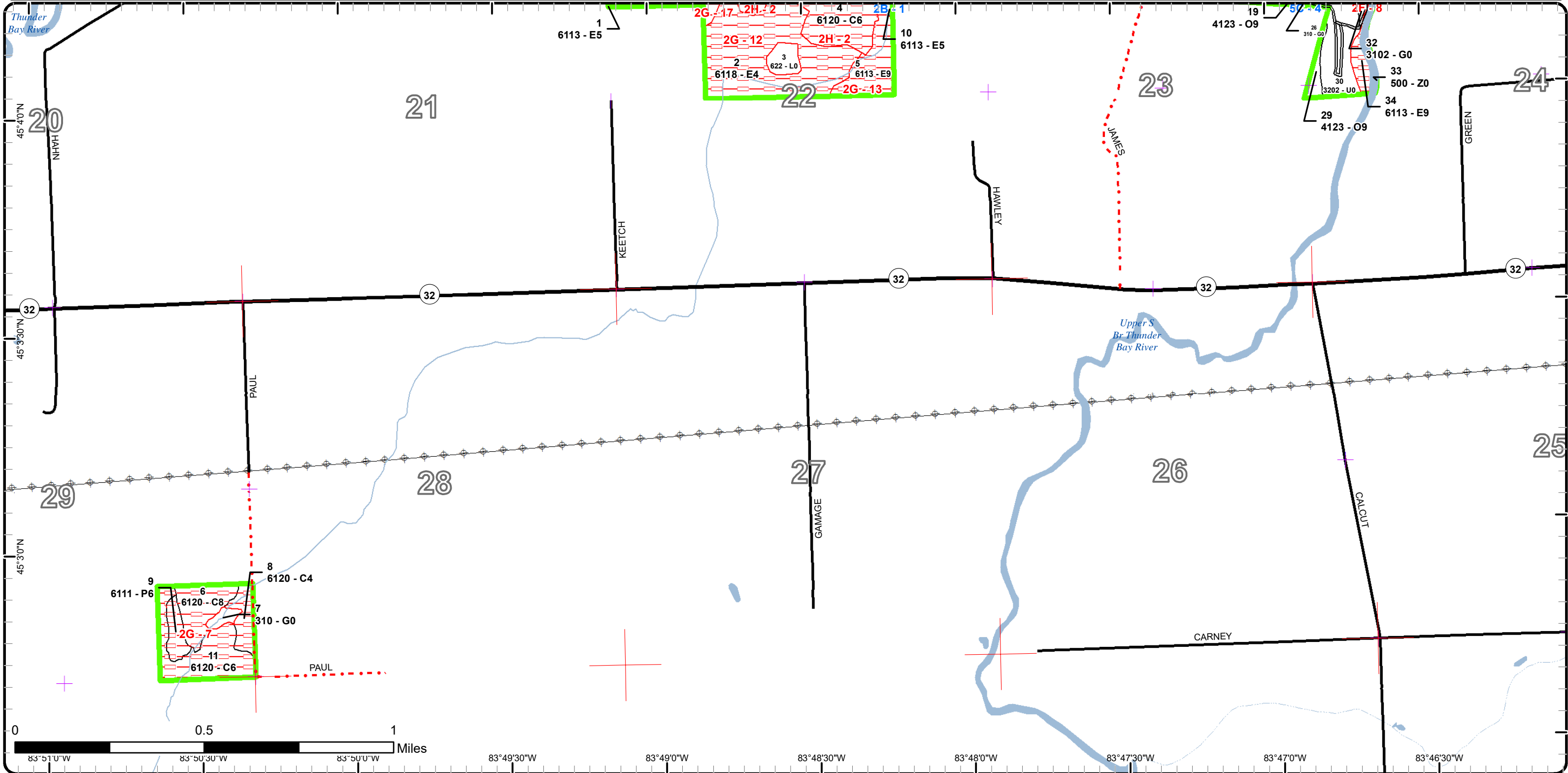
83°51'0"W 83°50'30"W 83°50'0"W 83°49'30"W 83°49'0"W 83°48'30"W 83°48'0"W 83°47'30"W 83°47'0"W 83°46'30"W

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Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment 98 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
Cedar	0	0	0	0	0	0	0	0	0	0	61	20	13	0	0	0	0	0	94
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Lowland Deciduous	0	0	0	0	58	0	0	0	0	0	153	0	0	0	0	0	0	0	211
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0	5
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Oak	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Red Pine	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24
Upland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Upland Spruce/Fir	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Total	76	0	0	0	58	0	0	14	0	0	248	20	13	0	3	0	0	0	432



Report 2 – Treatment Summary

Atlanta Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 98
Total Compartment Acres: 431

Commercial Harvest - 6
 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
Red Pine		0	0	0	0	6	0	0	0	0	6
	Total	0	0	0	0	6	0	0	0	0	6

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		6	0	0	0	0	0	0	0	52	58
	Total	6	0	0	0	0	0	0	0	52	58



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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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Approved Treatments:

15	54098015-NF	3.0	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Remove Autumn Olive through cutting and herbicide treatments. Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

21	54098021-Cut	6.3	42110 - Planted Red Pine	Sawtimber Well	65 141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin the red pine to 120 BA. Do not harvest any more than 1/3 of the red pine BA in any one area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> This is not a regeneration harvest. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

26	54098026-NF	23.4	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Remove Autumn Olive through pulling, cutting and herbicide treatments. Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></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
30 54098030-NF	19.7	3202 - Autumn Olive/Honeysuckle	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Remove Autumn Olive through pulling, cutting and herbicide treatments. Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
32 54098032-NF	5.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Remove Autumn Olive through pulling, cutting and herbicide treatments. Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 57.9

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 98
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions						
		With Condition			2B	5C	2F	2G	2H	3J	
93	19	0		74	Cedar				34	37	3
34	34	0		0	Herbaceous Openland						
4	0	0		4	Lowland Aspen/Balsam Poplar				4		
211	1	29		180	Lowland Deciduous	28	1	5	172		3
5	3	0		2	Lowland Mixed Forest						2
4	4	0		0	Lowland Shrub						
8	3	5		0	Oak		5				
6	6	0		0	Red Pine						
24	0	23		1	Upland Mixed Forest		23				1
20	20	0		0	Upland Shrub						
4	4	0		0	Upland Spruce/Fir						
1	1	0		0	Urban		0				
17	17	0		0	Water		0			0	
431	112	58		262	Total Forested Acres	28	30	5	210	37	9
	26%	13%		61%	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	Available	2B: Unknown if access through adjacent landowner(s) is possible	28	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

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Year of Entry: 2022



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is part of the Thunder Bay River flood plain. The forest here slows seasonal flood water and helps to stabilize soils.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is part of the Thunder Bay River flood plain. The forest here slows seasonal flood water and helps to stabilize soils.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 98
Year of Entry: 2022



12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	90	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is part of the Thunder Bay River flood plain. The forest here slows seasonal flood water and helps to stabilize soils.							

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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
1	6113 - Lowland Maple	Poletimber Medium	89.5	97	Unspecified	N/A	2012 YOE Inventory Comments: There could possibly be a 1 acre trespass in the southeast corner of this stand.																																								
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2	6118 - Lowland Deciduous with Cedar	Poletimber Poor	57.7	36	Unspecified	N/A	Within the west-central area of this stand, 15 acres were cleared of all trees with a merchantable stick from 1982 through 1984.																																								
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3	622 - Lowland Shrub	Nonstocked	4.0		Unspecified	No	This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.																																								
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4	6120 - Lowland Cedar	Poletimber Well	37.2	97	Unspecified	N/A	This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.																																								
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5	6113 - Lowland Maple	Sawtimber Well	19.0	95	111-140	N/A	2012 YOE Inventory Comments: 2 orv stream crossings in this stand and several illegal orv trails. CO's made aware of activity. This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. The 30 percent of black ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 4/5/2010 during the 2012 YOE Inventory.																																				
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6	6120 - Lowland Cedar	Sawtimber Medium	10.4	101	Unspecified	N/A	2012 YOE Inventory Comments: poorly drained, lots of blowdown. creek along southern edge of stand. This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 3/29/2010 during the 2012 YOE Inventory.																																				
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7	310 - Herbaceous Openland	Nonstocked	1.9		Unspecified	No	This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. The current inventory data is based off the information collected by Jeffrey Major during the 2012 YOE Inventory.																																				
8	6120 - Lowland Cedar	Poletimber Poor	5.8	95	Unspecified	N/A	2012 YOE Inventory Comments: very wet, inoperable. lots of tall grass and tag alder. lots of dead snags. This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. The 5 percent of black ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 3/29/2010 during the 2012 YOE Inventory.																																				
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9	6111 - Lowland Balsam Poplar	Poletimber Well	4.3	68	Unspecified	N/A	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>The 20 percent of black ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 4/5/2010 during the 2012 YOE Inventory.</p>																																																						
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10	6113 - Lowland Maple	Poletimber Medium	28.0	97	Unspecified	N/A	<p>2012 YOE Inventory Comments: several illegal orv trails coming from pvt property to the east. CO's made aware of activity.</p> <p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>The 5 percent of black ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 4/5/2010 during the 2012 YOE Inventory.</p>																																																						
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12	6120 - Lowland Cedar	Poletimber Well	12.6	110	Unspecified	N/A	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. The current inventory data is based off the information collected by Jeffrey Major on 4/5/2010 during the 2012 YOE Inventory.</p>																																																						
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15	310 - Herbaceous Openland	Nonstocked	3.0		Unspecified	No	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. The current inventory data is based off the information collected by Jeffrey Major during the 2012 YOE Inventory.</p>																																																																		
16	4310 - Pine, Oak Mix	Sawtimber Medium	23.9	95	81-110	N/A	<p>As of August of 2020 the stand is at about 60 percent canopy. Of that canopy, less than half is red pine. See management notes for more details. Besides the northern most and western most few acres, this stand was thinned in 2007 as part of Timber Sale Name: Stop 98; Timber Sale No.: 54-010-03-01.</p>																																																																		
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17	6113 - Lowland Maple	Sawtimber Well	0.9	95	Unspecified	N/A	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>The 40 percent of black ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 3/23/2010 during the 2012 YOE Inventory.</p>																																																																		
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18	500 - Water	Nonstocked	2.6	0	Unspecified	No	<p>This is the Thunder Bay River.</p>																																																																		
19	4123 - Red Oak	Sawtimber Well	5.2	97	81-110	N/A	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 3/26/2010 during the 2012 YOE Inventory.</p>																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																						
20	500 - Water	Nonstocked	3.3		Unspecified	No																							
21	42110 - Planted Red Pine	Sawtimber Well	6.2	65	141-170	N/A	During the 2022 YOE Inventory BA Measurements were taken: (150, 120, 170, 170, 160, 170, 180, 190, 140). This stand was thinned in 2007 as part of Timber Sale Name: Stop 98; Timber Sale No.: 54-010-03-01. This red pine was thinned in 1993 as part of Timber Sale Name: James Farm Thinning; Timber Sale No.: 54-059-92-01. This is a nice red pine stand. There is lots of autumn olive invading and spreading from adjacent field. Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 4/5/2010 during the 2012 YOE Inventory.																						
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22	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	2.3	95	Unspecified	N/A	This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. The 30 percent of black ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 3/23/2010 during the 2012 YOE Inventory.																						
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23	500 - Water	Nonstocked	0.3		Unspecified	No																							
24	6113 - Lowland Maple	Sawtimber Medium	1.7	95	Unspecified	N/A	This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. The 40 percent of white ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 3/23/2010 during the 2012 YOE Inventory.																						
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25	6113 - Lowland Maple	Sawtimber Well	0.6	95	Unspecified	N/A	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>The 35 percent of white ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 3/23/2010 during the 2012 YOE Inventory.</p>																																
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26	310 - Herbaceous Openland	Nonstocked	23.4		Unspecified	No	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. The current inventory data is based off the information collected by Jeffrey Major during the 2012 YOE Inventory.</p>																																
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27	500 - Water	Nonstocked	4.9		Unspecified	No																																	
28	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	2.9	134	Unspecified	N/A	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>The 20 percent of black ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 4/5/2010 during the 2012 YOE Inventory.</p>																																
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29	4123 - Red Oak	Sawtimber Well	2.7	97	81-110	N/A	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>The 5 percent of white ash was remotely removed from the canopy data (due to EAB tree kill). Other Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 3/26/2010 during the 2012 YOE Inventory.</p>																																
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30	3202 - Autumn Olive/Honeysuckle	Nonstocked	19.7		Unspecified	No	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>The current inventory data is based off the information collected by Jeffrey Major on 4/5/2010 during the 2012 YOE Inventory.</p>																																
31	500 - Water	Nonstocked	0.3	0	Unspecified	No		This is the Thunder Bay River.																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
32	3102 - Grass	Nonstocked	5.5		Unspecified	No	This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. The current inventory data is based off the information collected by Jeffrey Major on 4/5/2010 during the 2012 YOE Inventory.																									
33	500 - Water	Nonstocked	5.0		Unspecified	No																										
34	6113 - Lowland Maple	Sawtimber Well	5.1	95	Unspecified	N/A	2012 YOE Inventory Comments: small stand that borders the Thunder Bay River.																									
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35	42310 - Planted Spruce	Poletimber Well	3.9	65	111-140	N/A	This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.																									
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White Spruce	100	Pole/Log	6	65																												
36	6113 - Lowland Maple	Sawtimber Well	1.4	95	Unspecified	N/A	This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.																									
<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>Red Maple</td> <td>90</td> <td>Log</td> <td>13</td> <td>95</td> </tr> <tr> <td>White Oak</td> <td>10</td> <td>Log</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	90	Log	13	95	White Oak	10	Log	15		<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>Black Ash</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	Low	5 - 10 feet	Sapling	<p>The 30 percent of black ash was remotely removed from the canopy data (due to EAB tree kill). Other estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Jeffrey Major on 3/26/2010 during the 2012 YOE Inventory.</p>					
Canopy Species	% Cover	Size Class	DBH	Age																												
Red Maple	90	Log	13	95																												
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Sub-Canopy Species	Density	Avg. Height	Size																													
Black Ash	Low	5 - 10 feet	Sapling																													
37	500 - Water	Nonstocked	0.3		Unspecified	No																										
38	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	1.3	95	81-110	N/A	Based solely on imagery, this stand looks to be too wet to harvest.																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	122 - Road/Parking Lot	Nonstocked	1.0		Unspecified	No	<p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>The current inventory data is based off the information collected by Jeffrey Major during the 2012 YOE Inventory.</p>
40	500 - Water	Nonstocked	0.3	0	Unspecified	No	