



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54026

Entry Year 2020

Acreage: 762

County Montmorency

Management Area: Thunder Bay Outwash

**Revision Date:** 2018-05-07

**Stand Examiner:** Dale Parris

**Legal Description:**

T30N R04E Sections 5, 6, 7, & 9

**Identified Planning Goals:**

All harvests have been prescribed following the direction indicated in the Thunder Bay Outwash Management Area (TBOMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The timber analysis completed on the TBOMA, specific to Compartment 26, indicated that the lowland aspen covertepe be of focus for harvest for the purpose of balancing the age classes of this covertepe across the Management Area (MA). Wildlife, recreation, aesthetics, adjacent stands, and the larger landscape were considered in all management decisions.

**Soil and topography:**

Compartment 26 is dominated by poorly drained flat lowland terrain. The uplands are only slightly higher in elevation than the lowland areas, and the upland areas commonly have pockets of lowland shrub scattered throughout.

The soils in Compartment 26, as detailed in the Montmorency Soil Survey, are as follows in order of decreasing dominance. Deford muck (poorly drained), Deford-Au Gres-Croswell complex (poorly drained, somewhat poorly drained, moderately well drained – respectively), Allendale-Dorval-Blue Lake complex (somewhat poorly drained, very poorly drained, well drained – respectively), Tawas-Lupton mucks (very poorly drained), Croswell sand (moderately well drained)

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

Compartment 26 is composed of 4 separate parcels. A portion of the northern boundary of the largest parcel of Compartment 26 is adjacent to more State of Michigan owned land. The remainder of the land adjacent to Compartment 26 is recreational, larger acreage, hunting type properties.

**Unique Natural Features:**

The main covertypes in Compartment 26 in order of decreasing acreage are aspen, mixed swamp conifer, lowland aspen, lowland cedar, upland mixed, spruce-fir, and lowland mixed forest. The aspen covertepe commonly has pockets of lowland shrub throughout.

The portion of Miller Creek that runs through the western edge of the main body of Compartment 26 is designated a Cold-Water Stream/High Priority Trout Stream Special conservation Area (SCA).

**Archeological, Historical, and Cultural Features:**

The Natural Heritage Database (NHD) did show there to be known archaeological sites within Compartment 26. Contact the State Historical Preservation Office (SHPO) for more info.

As part of the NHD the Michigan Natural Features Inventory (MNFI), at the Michigan State University Extension website, did not list any special concern, threatened, or endangered species as being historically present within Compartment 26. Miller Creek, running through and near Compartment 26, has the Cold-Water Stream/High Priority Trout Stream Special Conservation Area (SCA) designation. The area within 300 feet of Miller Creek is an SCA where forest management undergoes more scrutiny on a case by case basis for the protection of Miller Creek and its surrounding habitat.

**Special Management Designations or Considerations:**

The Fisheries Division of the Michigan DNR needs to be consulted when conducting forest management within 300 feet of Miller Creek within Compartment 26. Rutting and the disturbance of underground water flow needs to be considered when managing forests in and around sensitive lowland soils. Oak wilt needs to be taken into consideration in harvests that take place in and adjacent to stands that contain oak.

**Watershed and Fisheries Considerations:**

## **Wildlife Habitat Considerations:**

## **Mineral Resource and Development Concerns and/or Restrictions**

Sections 5-7 & 9, T30N-R4E, Montmorency County

An active sand/gravel pit is located just over one mile to the north. Sand & gravel development potential within the compartment may be limited due to extensive wetlands. Glacial drift is too thick in this area for bedrock non-metallic mineral potential. Some state-owned mineral rights within the compartment are currently leased, and the area has been extensively developed for Antrim Shale gas. There does appear to be some potential for additional future Antrim wells, but most of the state land in the compartment is classified as non-development. There is no known oil and gas potential from other formations in this area. There is no known metallic mineral potential in this part of the state.

## **Vehicle Access:**

Vehicle access to the main body of Compartment 26 is limited to forest road access from Miller Road to the north. The southwest most 136 acres of Compartment 26 is accessible via a forest trail that runs through it off of M32. The southeast most 90-acre portion of Compartment 26 is accessible from M32, and the northeast 69 acres has no legal access for public users.

## **Survey Needs:**

A harvest prescribed for T30N R04E Section 5 in Compartment 88 could potentially require a survey to find survey corners necessary for constructing timber sale boundaries adjacent to private land.

## **Recreational Facilities and Opportunities:**

Compartment 26 does not contain any DNR designated recreation trails. Compartment 26 has opportunities for hunting whitetail deer, ruff grouse, bear, coyote, and turkey within season with the proper license(s).

## **Fire Protection:**

In the case of a wildland fire, response to Compartment 26 will be from the Atlanta DNR office as well as the Hillman Fire Department.

## **Additional Compartment Information:**

### **The following reports from the Inventory are attached:**

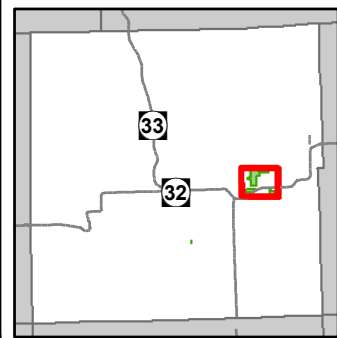
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

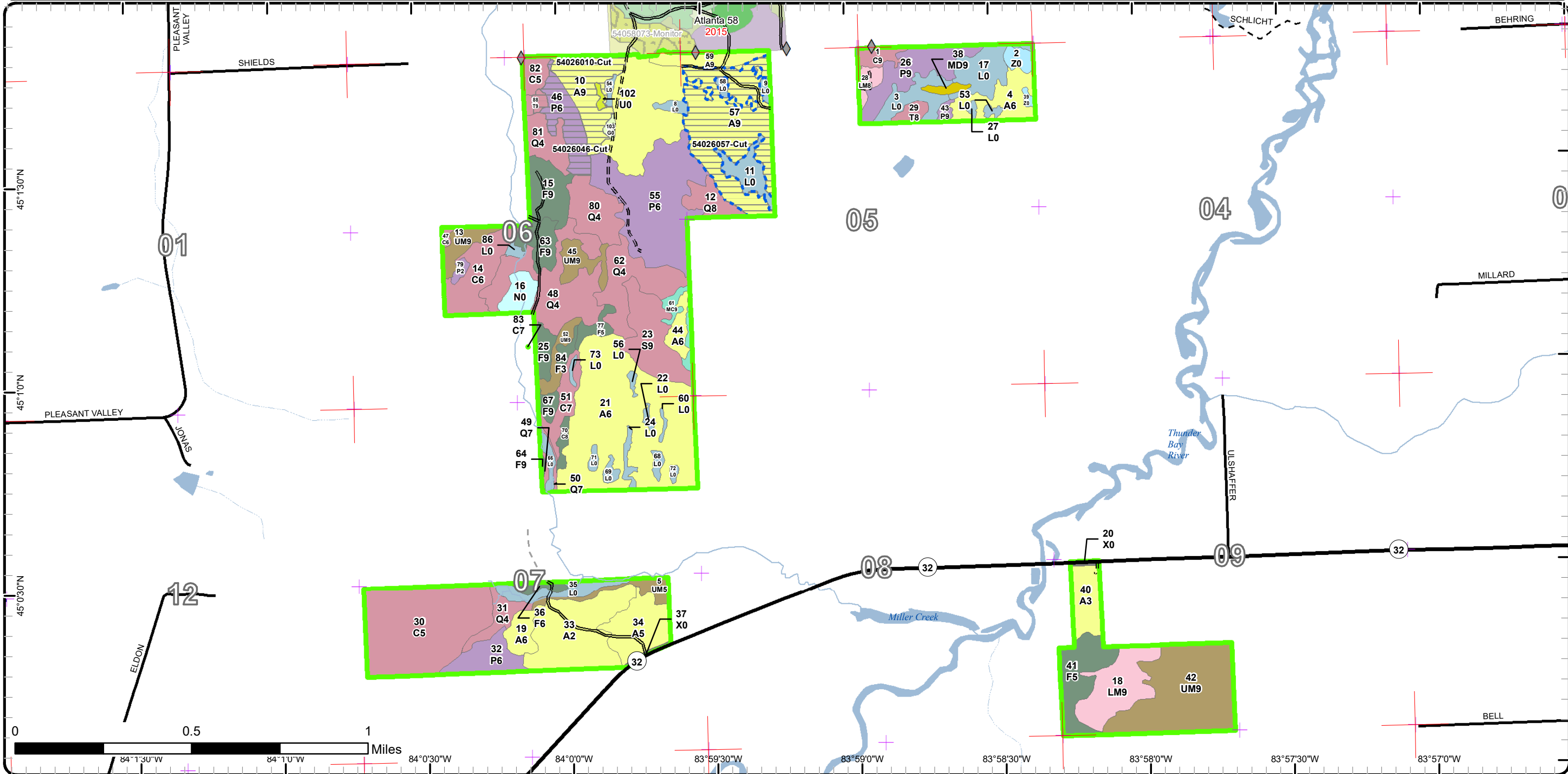
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 26  
 T30N, R04E, Sec. 5-7, 9  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Thunder Bay  
 Outwash  
 YOE: 2020  
 Acres: 762 GIS Calculated  
 Examiner: Dale Parris  
 Map Revised: 10/2/2018  
 Map Phase: Post-Review

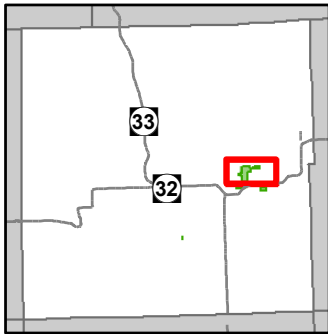


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

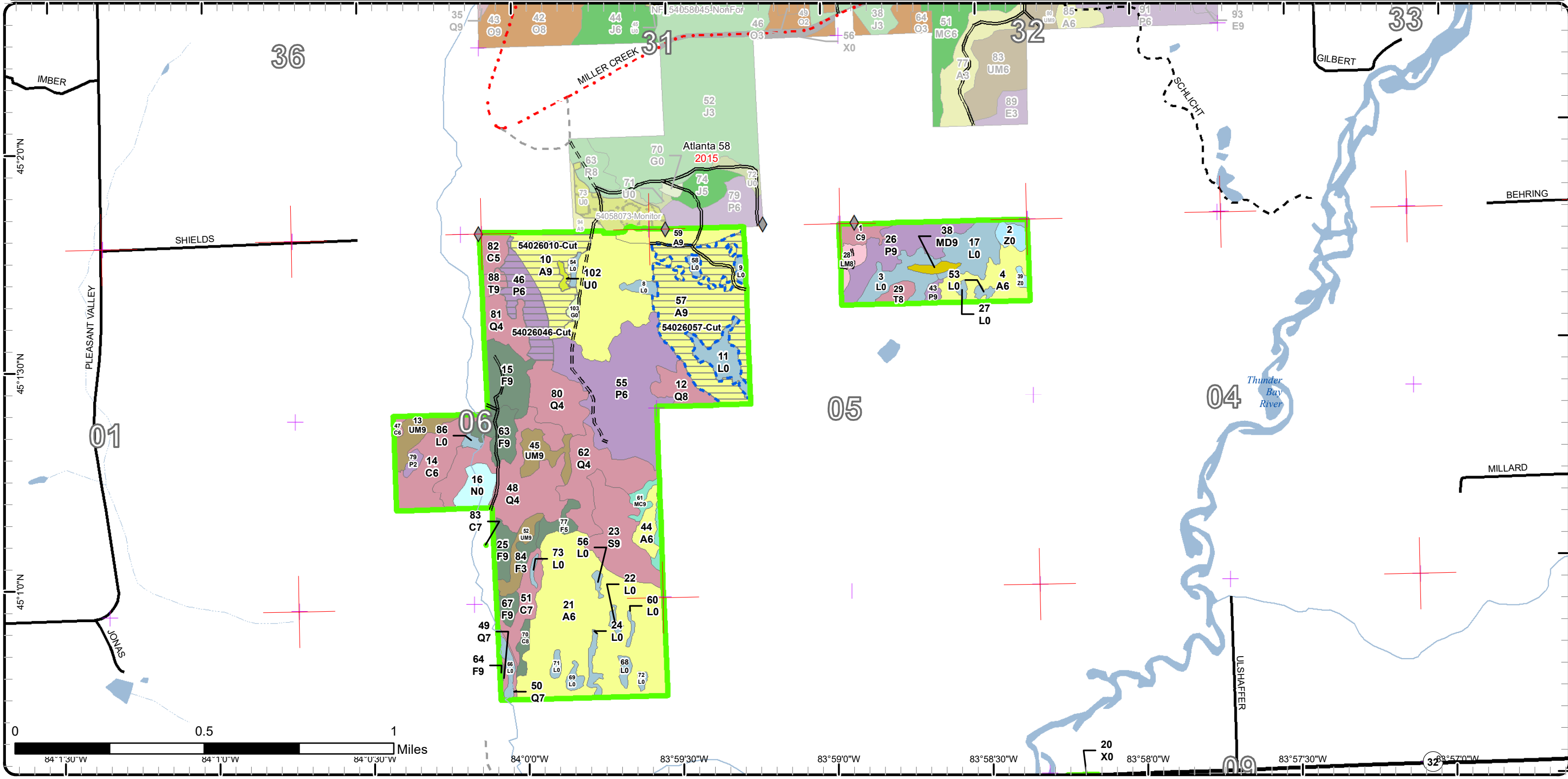


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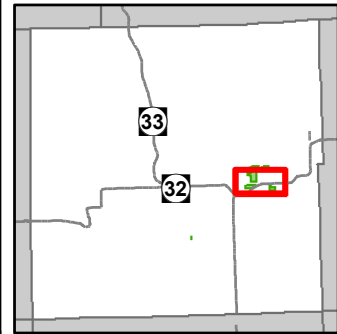
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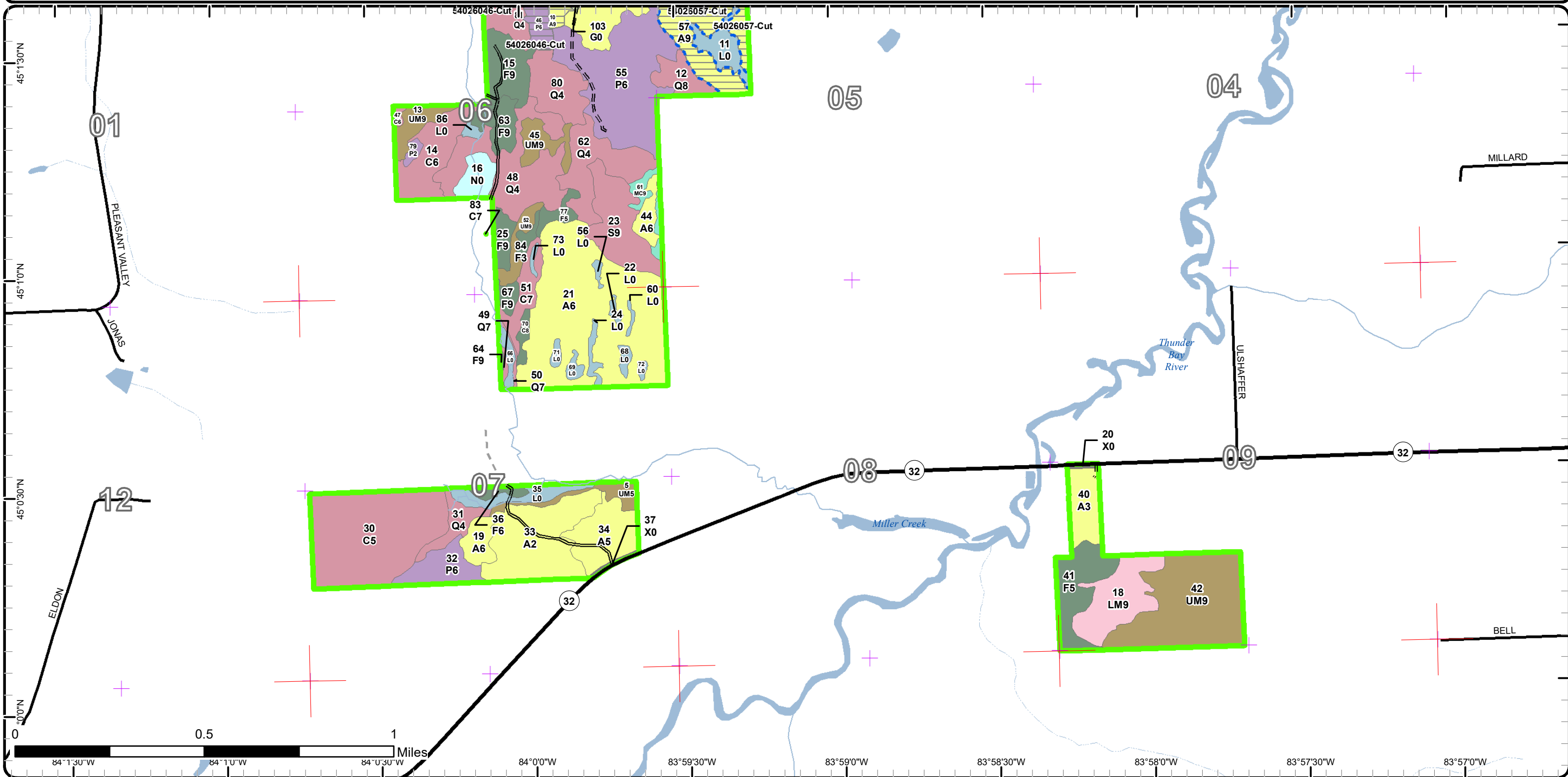


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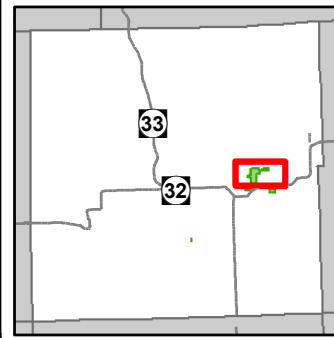
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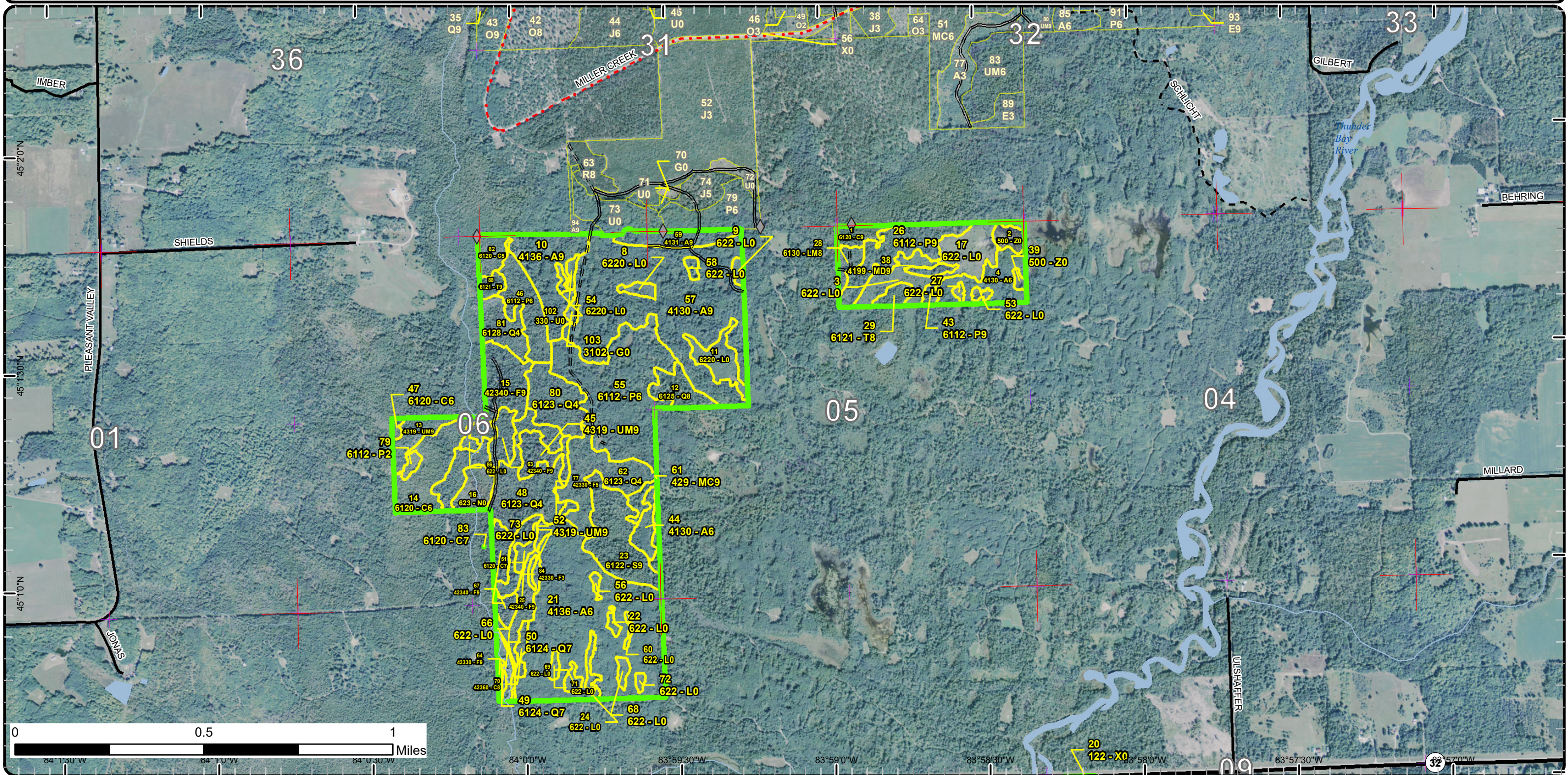


# Stand Boundary Map

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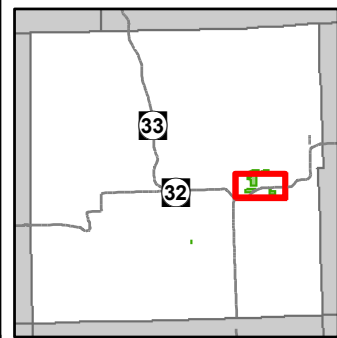
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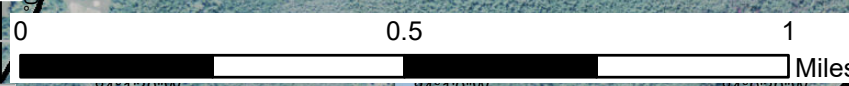
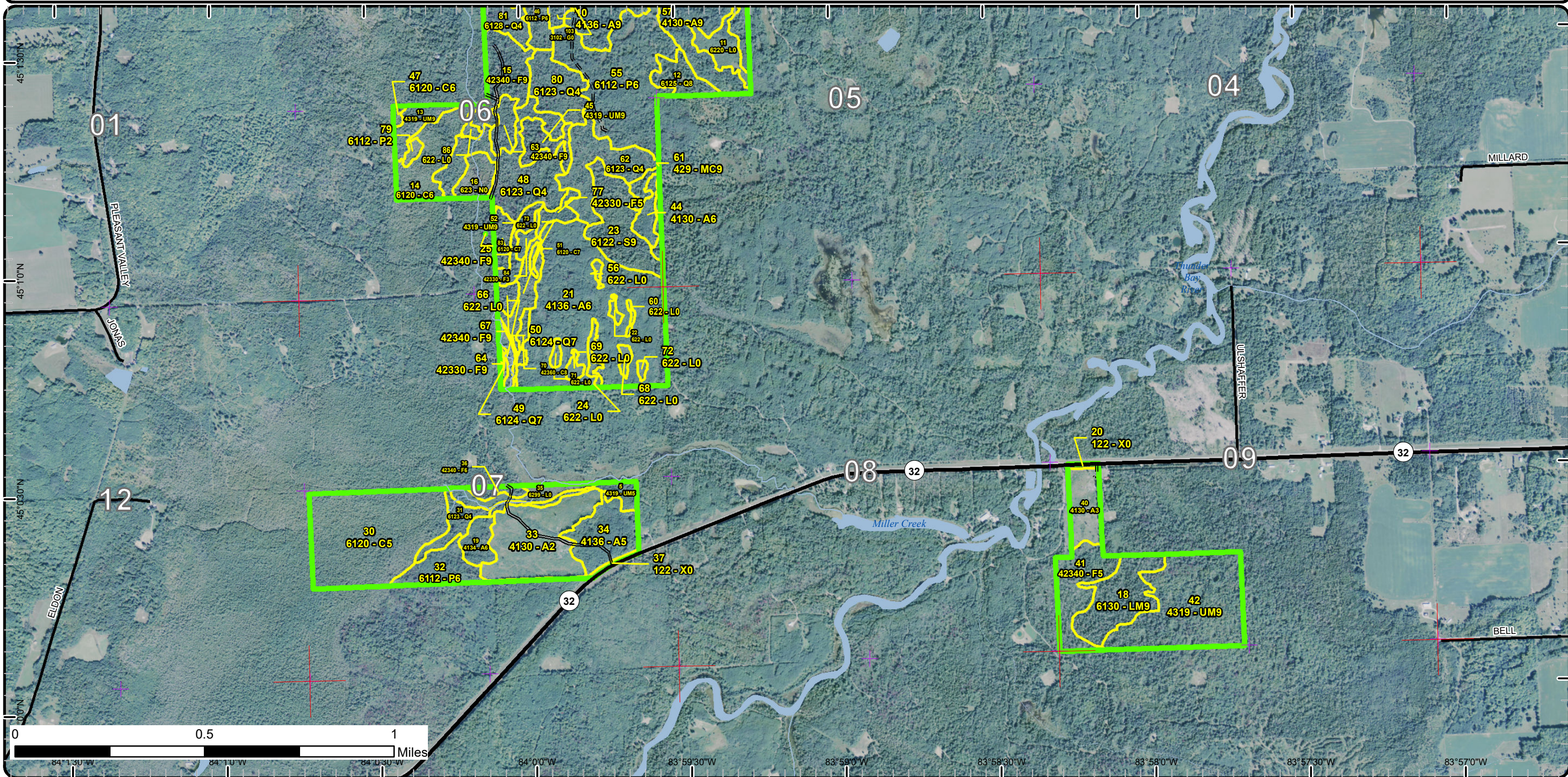


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84°13'0"W    84°10'0"W    84°0'0"W    83°59'30"W    83°59'0"W    83°58'30"W    83°58'0"W    83°57'30"W    83°57'0"W

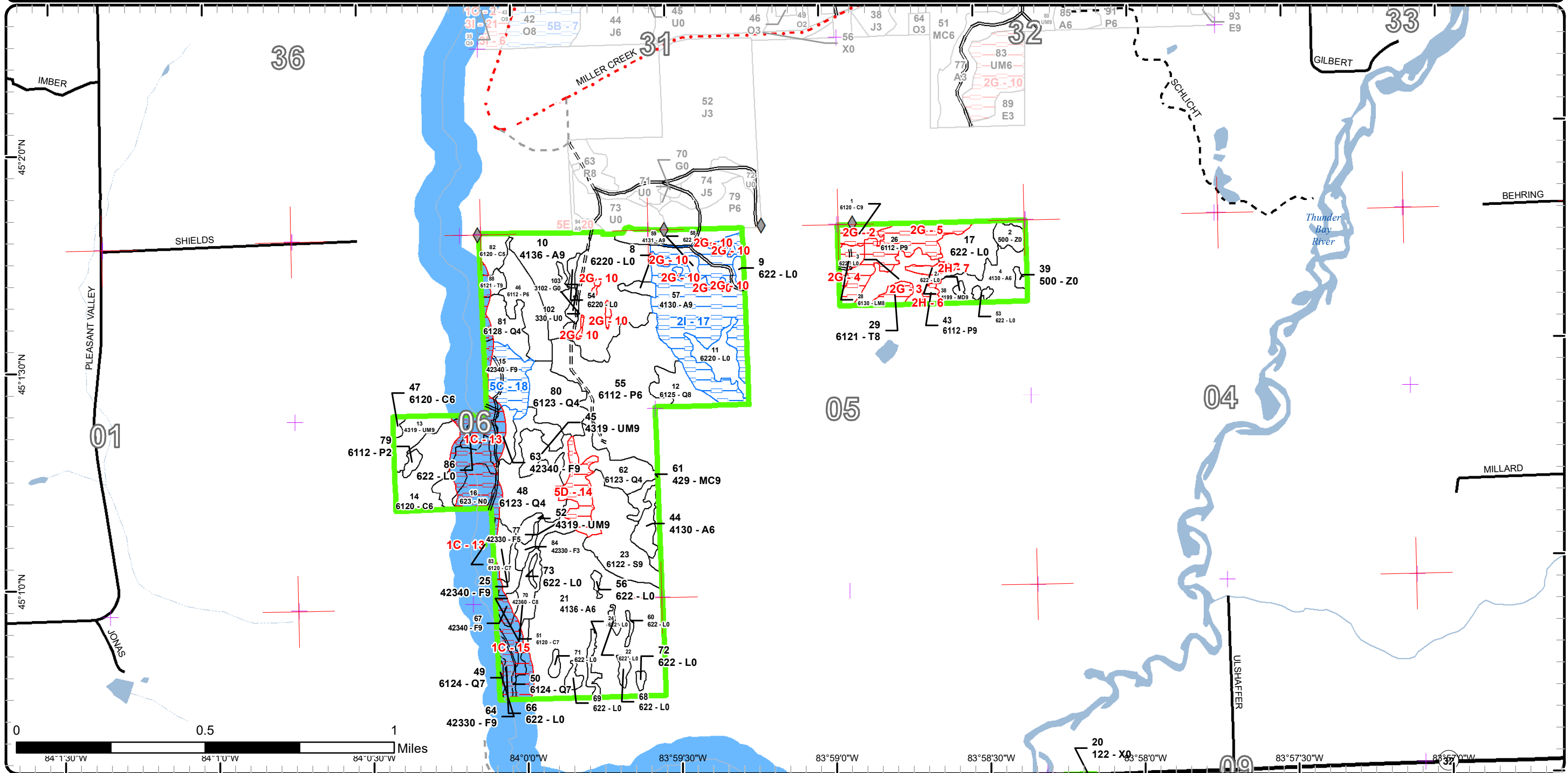


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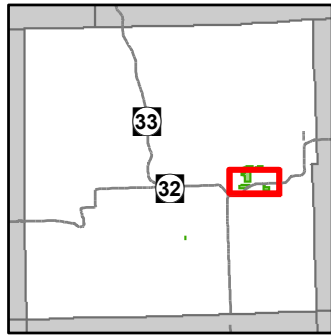
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



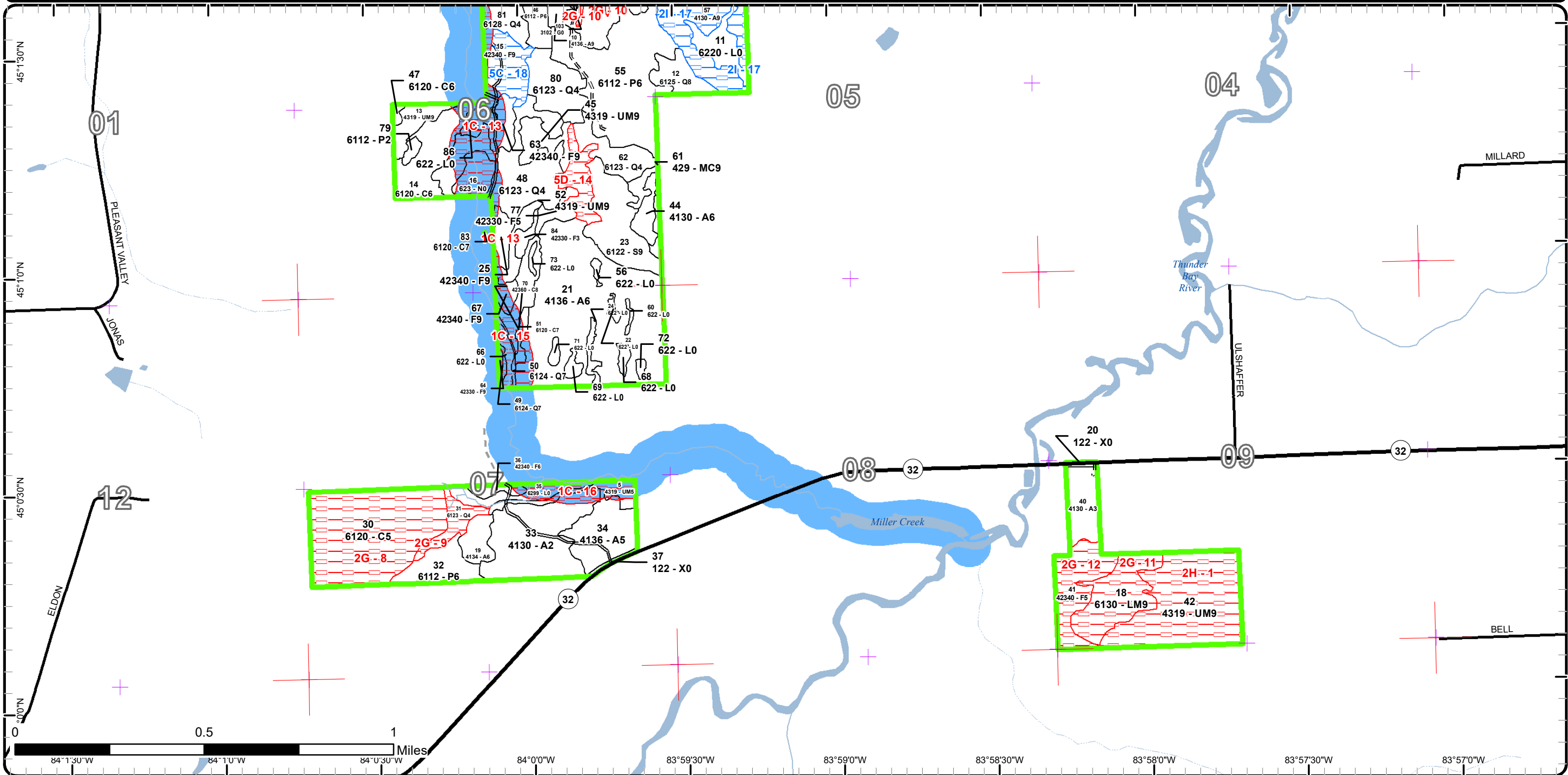


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Report 1 – Total Acres by Cover Type and Age Class



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	42	0	88	10	42	80	0	0	0	0	0	0	0	0	0	0	0	261
Cedar	0	0	0	0	0	0	0	0	0	17	55	7	0	4	2	0	0	0	85
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	0	0	12	46	29	1	0	0	0	0	0	0	0	0	0	0	88
Lowland Conifers	0	0	0	0	26	6	29	23	2	0	0	0	0	0	0	0	0	0	86
Lowland Mixed Forest	0	0	0	0	0	0	0	3	0	20	0	0	0	0	0	0	0	0	23
Lowland Shrub	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Tamarack	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	0	6	56	0	5	0	0	0	0	0	0	0	0	67
Upland Spruce/Fir	0	0	0	0	2	0	20	10	6	15	0	0	0	0	0	0	0	0	51
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>68</b>	<b>42</b>	<b>0</b>	<b>88</b>	<b>50</b>	<b>94</b>	<b>168</b>	<b>98</b>	<b>28</b>	<b>57</b>	<b>57</b>	<b>7</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>760</b>





## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 26

Total Compartment Acres: 762

Commercial Harvest - 33  
 Harvests with Site Condition - 45  
 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	64	0	0	0	0	0	0	0	0	64
Lowland Aspen/Balsam Poplar	13	0	0	0	0	0	0	0	0	13
Tamarack	1	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>78</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	78	0	0	0	0	0	0	0	0	78
Next Step	0	0	0	0	0	0	78	0	0	78
<b>Total</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>156</b>





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	Approval Status
10	54026010-Cut	18.5	4136 - Aspen, Mixed Conifer	Sawtimber Well	43	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clear-cut with retention. Retain 3-10% of the stand in pockets. Favor placing retention around healthy large crowned oak while keeping the retention stand representative. Include 2" spec. Do not harvest any red pine or cedar. Mark no more than 3 white pine per acre to promote future stand diversity. Retain all white pine legacy trees. Include the "Dead and Down Creation, Grouse" log Specification 5.2.4.4 in the sale contract.

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

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of aspen, red maple, paper birch, balsam fir, spruce, oak, and white pine.

Other Comment: The larger lowland shruba areas have already been marked out of the treatment.

Proposed Start Date: 10/1 /2019

46	54026046-Cut	12.8	6112 - Lowland Aspen	Poletimber Well	58	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut with retention. Retain 3-10% of the stand in pockets(s). Do not cut any cedar. Do not cut any white pine if present. Favor placing retention around lower ground areas while making sure the retention is stand representative. Include the "Dead and Down Creation, Grouse" log Specification 5.2.4.4 in the sale contract. Harvest in dry summer or frozen winter.

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

Acceptable Regen: Acceptable regeneration is a medium to low stocked stand of aspen, balsam fir, red maple, and spruce..

Other Comment: The acreage will likely be substantially reduced when areas that are too wet area marked out of the harvest

Proposed Start Date: 10/1 /2019

57	54026057-Cut	45.1	4130 - Aspen	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Clear-cut with retention. Retain 3-10% of the stand in pockets(s). Do not cut any pine or cedar. Favor placing retention around healthy large crowned oak trees will keeping the retention stand representative. Include the "Dead and Down Creation, Grouse" log Specification 5.2.4.4 in the sale contract.

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

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of aspen, balsam fir, red maple, white pine, red maple, spruce, and paper birch.

Other Comment: The largest lowland shrub pockets that are not mapable by standards have been excluded from the harvest area.

Proposed Start Date: 10/1 /2019

88	54026088-Cut	1.4	6121 - Tamarack	Sawtimber Well	93	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut. Retention is not necessary due to the small size of the stand. Do not harvest any cedar

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

Acceptable Regen: Acceptable regeneration is a medium to low stocking of tamarack, balsam fir, spruce, cedar, red maple, and/or aspen.

Other Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment Acreage Proposed: 77.8**



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 26  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
261	199	45	17
85	25	0	60
1	1	0	0
1	1	0	0
89	71	0	18
85	61	0	24
23	0	0	23
54	47	0	7
20	20	0	0
6	0	0	6
2	0	0	2
5	1	0	4
4	4	0	0
66	19	0	48
52	14	10	27
2	2	0	0
4	4	0	0
760	470	55	235
	62%	7%	31%

### Dominant Site Conditions

	Availability for Management			Dominant Site Condition	Dominant Site Conditions							
	Acres Available	Acres Available With Condition	Acres Not Available		2I	5C	1C	2G	2H	5D	5E	
261	199	45	17	Aspen	45		5	4				8
85	25	0	60	Cedar			6	54				
1	1	0	0	Herbaceous Openland								
1	1	0	0	Low-Density Trees								
89	71	0	18	Lowland Aspen/Balsam Poplar				16	1			
85	61	0	24	Lowland Conifers			10	6		9		
23	0	0	23	Lowland Mixed Forest				23				
54	47	0	7	Lowland Shrub			7					
20	20	0	0	Lowland Spruce/Fir								
6	0	0	6	Marsh			6					
2	0	0	2	Mixed Upland Deciduous					2			
5	1	0	4	Tamarack			1	3				
4	4	0	0	Upland Conifers								
66	19	0	48	Upland Mixed Forest			4		43			
52	14	10	27	Upland Spruce/Fir		10	11	16				
2	2	0	0	Urban								
4	4	0	0	Water								
760	470	55	235	Total Forested Acres	45	10	50	123	46	9	8	
	62%	7%	31%	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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	43	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
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2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	3	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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7	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	6	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	4	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	20	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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12	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	1C: Other dept or div proc/practices	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Priority Trout Stream 100 m Buffer							
14	<b>Unavailable</b>	5D: Unproductive Forest Land	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	1C: Other dept or div proc/practices	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Priority Trout Stream 100 m Buffer							
16	<b>Unavailable</b>	1C: Other dept or div proc/practices	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Priority Trout Stream 100 m Buffer							
17	<b>Available</b>	2I: Survey needed	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Atlanta Mgt. Unit**  
**Dale Parris : Examiner**

**Compartment: 26**  
**Year of Entry: 2020**

18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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

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**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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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	General Comments:
1	6120 - Lowland Cedar	Sawtimber Well	3.9	125	171-200	This stand is large diameter, healthy cedar dominated.
4	4130 - Aspen	Poletimber Well	12.5	25	1-50	This stand was harvested in 1993 as part of Timber Sale Name: Hardy's Short 40 Sale; Sale No.: 54-030-93-02. Lowland shrub pockets are mixed in. The oak with any size to them are not growing well in this soil and the look unhealthy with much dieback in their crowns.
5	4319 - Mixed Upland Forest	Poletimber Medium	5.7	55	51-80	OPIC - FMD: Hold ten yrs due to small diameters, age and travel corridor. Scattered spruce and Pine
10	4136 - Aspen, Mixed Conifer	Sawtimber Well	18.5	43	81-110	Sparse legacy white pine should be protected during harvest. Lowland shrub pockets and small pools of water are scattered throughout. A 9.5" DBH quaking aspen aged at 43 years. According to timber sale records the 40 acres that is T30N R04E Section 6 E2 NE was cleared of trees with a merchantable stick in 1980 (Contract No. 80-20) giving a quarter of this stand an age of 37 years as of 2017. The southern approx. 40 acres of this stand was cleared of trees with a merchantable stick between 1981 and 1985 as part of Timber Sale No. 54-082-80-01. In the NE corner of this stand 15 acres was cleared of trees with a merchantable stick in 1982 (Contract No. 96-80).
12	6125 - Lowland Black Spruce, Jack Pine	Sawtimber Medium	7.2	36	51-80	The age of the trees in this stand vary highly within species with the exception of jack pine. This is a nice diversity pocket.
13	4319 - Mixed Upland Forest	Sawtimber Well	6.2	65	81-110	
14	6120 - Lowland Cedar	Poletimber Well	16.4	80	141-170	This stand is dominate to balsam fir in the north and south regions of the stand where cedar is less dominate but has a larger average diameter.
15	42340 - Upland Spruce/Fir	Sawtimber Well	14.9	80	81-110	This stand is ready for harvest if reachable.
18	6130 - Fir, Aspen, Maple	Sawtimber Well	19.7	89	51-80	Various ties of shrubs cover 90% of the understory. This stand is too wet and isolated to harvest. There is a consistent layer of balsam fir sapling to pole sized trees in the understory/supressed canopy of this stand. The lack of much red maple is what separates this stand from the one to the east.
19	4134 - Aspen, Spruce/Fir	Poletimber Well	5.7	37	1-50	A run-off runs through the center of the stand from NW to SE (45 feet wide on average). The run-off is lined with pole sized balsam poplar and dead black ash.
21	4136 - Aspen, Mixed Conifer	Poletimber Well	75.1	26	1-50	This stand was clear-cut in 1992 as part of Timber Sale Name: Miller Poor Block; Sale No. 54-030-90-01.(OPIC - FMD: stand looks good, several small L-types scattered through-out stand.)
23	6122 - Black Spruce	Sawtimber Well	19.5	70	81-110	There is a 1 acre pocket dominated by pole to small log sized white pine in the west-central portion of the stand. A majority of the forest floor is covered with moss. The density of the timber lessens the further north you go in the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	42340 - Upland Spruce/Fir	Sawtimber Well	4.4	61	51-80	This stand has a consistent density of large pole to small log sized fir and spruce with the center of the stand dominated by log sized white pine. Legacy white pine are present in this stand.
26	6112 - Lowland Aspen	Sawtimber Well	16.3	56	51-80	This stand has pockets of lowland shrub throughout. This stand would possibly be harvestable during a dry season if access could be gained.
28	6130 - Fir, Aspen, Maple	Sawtimber Medium	3.3	61	51-80	There is a high ridge through the center. The rest of the stand had shallow standing water throughout. This stand is too wet to harvest. There is much standing and fallen ash throughout the low areas. Trees vary in size throughout the stand due to forest succession.
29	6121 - Tamarack	Sawtimber Medium	2.8	67	1-50	Stand was full of water and frozen over in February of 2018. The water was likely about a foot deep on average.
30	6120 - Lowland Cedar	Poletimber Medium	50.2	95	81-110	Standing water was present throughout the stand in February of 2018. Moss covers much of the forest floor. The NW survey corner is present. There are three 6" DBH witness trees present. One of these witness trees has fallen and points toward the corner. The approximate survey corner was estimated and points were averaged. A 7" DBH cedar aged at approximately 107 years at the north end of the stand and a 10" DBH cedar at the south end aged at 83 years. The cedar at the south end (10") are larger in DBH than the cedar at the north end (7"). OPIC - FMD: east edge of stand is Q/C/L type.
31	6123 - Lowland Fir	Poletimber Poor	6.1	46	1-50	This stand is too wet to harvest. This stand was likely harvested with the stand to the southeast and did not regenerate well. Various shrub species fill the underscore. OPIC - FMD: Tag-alder brush with scattered timber.
32	6112 - Lowland Aspen	Poletimber Well	11.2	37		There are higher ground veins running through the east end of the stand. The western most point is a 1+ acre pocket of sapling red maple.
33	4130 - Aspen	Sapling Medium	30.6	7	Immature	OPIC - FMD: Clear Cut: Leave 3 % retention in any wet areas. Follow fish recommendations for buffer to north, include this area in retention. Leave any oak. Acceptable regen is any mix of aspen or hdwd. Final harvest (clearcut) completed by June, 2011. Timber sale number 54-031-10-01, sale name "Double Trouble Aspen." This stand was Payment Unit #1 of the sale. Purchased by T.R. Timber Company.
34	4136 - Aspen, Mixed Conifer	Poletimber Medium	15.8	44	1-50	In 1974, 18 acres of this stand was manually cleared in a non-commercial treatment to promote aspen regeneration.  OPIC - FMD: Hold ten yrs due to small diameters, age and travel corridor. Scattered spruce and Pine
36	42340 - Upland Spruce/Fir	Poletimber Well	2.5	55	51-80	OPIC - FMD: Hold stand 10 yrs and treat with stand 34.
38	4199 - Other Mixed Upland Deciduous	Sawtimber Well	1.8	65	81-110	The age of this stand amongst species is quite variable.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4130 - Aspen	Sapling Well	10.5	7	Immature	OPIC - FMD: Clear cut as much of stand as possible with sale in stand 33. Clear Cut, leave any oak if present and 1 small retention pocket out by M33. No other retention needed because stands to south will likely never be treated. Acceptable regen will be any mix of conifer or hwd. Final harvest (clearcut) completed in June, 2011. Timber sale number 54-031-10-01, sale name "Double Trouble Aspen." This stand was Payment Unit #2 of the sale. Purchased by T.R. Timber Company.
41	42340 - Upland Spruce/Fir	Poletimber Medium	16.5	50	51-80	This stand is a continuous mix of upland timber pockets and lowland shrub veins that cannot reasonably be mapped out separately. Each upland pocket has different tree species composition. The varying upland to lowland mix of land in this stand makes it unharvestable and undesirable for harvest.
42	4319 - Mixed Upland Forest	Sawtimber Well	43.3	64	81-110	Pockets of lowland shrub are present throughout. There is a consistent layer of balsam fir sapling to pole sized trees in the understory/supressed canopy throughout most of this stand. The presence of red maple and somewhat higher ground is what separates this stand from the one to the west. Minor acreage lowland shrub pockets are mixed in throughout.
43	6112 - Lowland Aspen	Sawtimber Well	1.4	61	51-80	This was left over from the stand that was harvested to the east.
44	4130 - Aspen	Poletimber Well	4.4	34	1-50	
45	4319 - Mixed Upland Forest	Sawtimber Well	6.6	67	51-80	The aspen are dying out of the canopy. The balsam fir are dying once they get past 6" in DBH.
46	6112 - Lowland Aspen	Poletimber Well	12.8	58	51-80	This is a borderline log stand based on the rules of forest inventory.
47	6120 - Lowland Cedar	Poletimber Well	0.9	80	111-140	The forest floor is covered with moss and water pockets.
48	6123 - Lowland Fir	Poletimber Poor	29.4	57	1-50	
49	6124 - Lowland Spruce-Fir	Sawtimber Poor	0.8	77	81-110	OPIC - FMD: Miller creek runs through stand.
50	6124 - Lowland Spruce-Fir	Sawtimber Poor	0.9	77	81-110	OPIC - FMD: Miller creek runs through stand.
51	6120 - Lowland Cedar	Sawtimber Poor	7.4	108	51-80	This stand has a consistent understory of balsam fir with tag alder where it is more wet. Cedar are the major species in the canopy. Taller portions of the balsam fir of sapling to small pole size is recorded as part of the canopy. This stand is too wet to harvest.
52	4319 - Mixed Upland Forest	Sawtimber Well	4.6	83	81-110	The age of the trees in this stands are highly variable within and across species. The bottom portion of the stand is dominated by aspen. Red maple is present throughout but becomes more dominate as you move north in the stand. Scattered legacy pine are present throughout this stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	6112 - Lowland Aspen	Poletimber Well	45.6	43	51-80	This timber is the same age as adjacent aspen stands but is much smaller in diameter.
57	4130 - Aspen	Sawtimber Well	80.3	51	81-110	Lowland shrub pockets and waterholes are present throughout. Much of the forest subcanopy has a caving of various types of shrubs.
59	4131 - Aspen, Oak	Sawtimber Well	7.8	46	81-110	This stand is borderline between the log and pole stand criteria. Lowland shrub pockets and waterholes are present throughout. This stand could be mapped in with the stand to the south but it was separated out due to its oak, red maple, and mixed conifer components. If left unharvested this would make a nice wildlife travel corridor.
61	429 - Mixed Upland Conifers	Sawtimber Well	4.3	55	81-110	There are some really fast growing white pine in this stand.
62	6123 - Lowland Fir	Poletimber Poor	18.6	38	1-50	This stand is mostly too wet and unproductive for harvest. Veins and pockets of tag alder are present throughout. This stand was harvested with the stand to the north but did not regenerate well.
63	42340 - Upland Spruce/Fir	Sawtimber Well	5.2	75	81-110	This stand has a very constant mix of species throughout.
64	42330 - Upland Fir	Sawtimber Well	0.5	77	111-140	This is a thin strip that went unharvested between the lowland Miller Creek corridor to the east and the harvest to the west.
67	42340 - Upland Spruce/Fir	Sawtimber Well	2.6	65	81-110	These spruce are fast growing. The stand is healthy overall with some canopy tree fallout.
70	42360 - Upland Cedar	Sawtimber Medium	2.0	134	111-140	This is a nice pocket of upland cedar. Most of the cedar in this compartment is in lowland stands that hold water seasonably.
77	42330 - Upland Fir	Poletimber Medium	3.3	61	81-110	
79	6112 - Lowland Aspen	Sapling Medium	1.3	33	1-50	
80	6123 - Lowland Fir	Poletimber Poor	13.6	67	1-50	This stand is mostly unproductive. The aspen are 5" in DBH at 33 years old and they are already dying. About 20% of the balsam fir have one or two sticks but most are sub-merchantable. Lowland shrub of various species dominate the understory. The occasional log sized cedar and pine tree is present.
81	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	8.8	67	1-50	The northern 2 acres of this stand is dominated by sparse pockets of log sized cedar much of which is dead standing. This stand has varying BA throughout with pockets of lowland shrub. This is a borderline pole to log stand based on inventory standards. This is borderline unproductive forest land.

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Atlanta Mgt. Unit

## Report 7 – Forested Stands

Compartment: 26  
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>82</b>	6120 - Lowland Cedar	Poletimber Medium	4.6	93	51-80	Most of the stand is dense sapling sized balsam fir with a sporadic cedar overstory. The northern edge is more to sapling/pole sized balsam fir and the east edge is scattered large log sized aspen with pole to log sized red maple and aspen.
<b>83</b>	6120 - Lowland Cedar	Sawtimber Poor	0.0	108	51-80	This stand has a consistent understory of balsam fir with tag alder where it is more wet. Cedar are the major species in the canopy. Taller portions of the balsam fir of sapling to small pole size is recorded as part of the canopy. This stand is too wet to harvest.
<b>84</b>	42330 - Upland Fir	Sapling Well	2.0	39	1-50	This stand grew thick after harvest and few stems died. Therefore you have 40 year old trees that are sapling size. This stand is dog hair thick with sapling sized trees.
<b>88</b>	6121 - Tamarack	Sawtimber Well	2.3	93	81-110	





Stand	Cover Type	Acres	Managed Site	General Comments:
2	500 - Water	3.1	No	This area is flooded with marsh grass around the edge. There is a long beaver dam dividing Stands 17 and 2. The stream like flow of water across the dam is from west to east. Even so there is not much pooling of water in Stand 17
3	622 - Lowland Shrub	9.2	No	Portions of the stand are heavy to sapling ash that will most likely die in the near future due to EAB.
8	6220 - Alder/willow	1.8	No	This is mostly tag alder with scattered balsam fir and balsam poplar. Pockets are forested with sapling to pole sized aspen but overall this is lowland shrub.
9	622 - Lowland Shrub	1.1	No	This is tag alder and various other shrubs and scattered sparse timber.
11	6220 - Alder/willow	7.4	No	OPIC - FMD: Miller creek runs through stand. (Could also use limiting factor 3J. See locked comments--RGB, 2009.04.22)
16	623 - Emergent Wetland	6.2	No	Miller Creek runs through this stand . There is very little living in this stand in terms of trees or shrubs. This stand was mostly under 1-2 feet of water in March of 2018. Where there were small spots of high ground, grass was growing. This stand most have flooded out in the last 10 years. The result is standing dead fir, spruce, cedar, and ash.
17	622 - Lowland Shrub	11.5	No	This stand is lowland shrub with a core dominated my grass. The grass area is marsh. Dead standing snags are present throughout. The northeast corner is more dense shrub with scattered pole to sapling sized aspen. There is a long beaver dam dividing Stands 17 and 2. The stream like flow of water across the dam is from west to east. Even so there is not much pooling of water in Stand 17.
20	122 - Road/Parking Lot	0.7	No	M-33 and cleared right-of-way
22	622 - Lowland Shrub	0.8	No	This is tag alder and other various shrubs with scattered timber.
24	622 - Lowland Shrub	1.9	No	This is tag alder and other various shrubs with scattered timber.
27	622 - Lowland Shrub	0.7	No	
35	6299 - Lowland Shrub (OI)	6.8	No	OPIC - FMD: Tag-alder brush with scattered timber.
37	122 - Road/Parking Lot	1.0	No	M-32
39	500 - Water	0.9	No	This stand was harvested in 1993 as part of Timber Sale Name: Hardy's Short 40 Sale; Sale No.: 54-030-93-02. Since the harvest this portion has been flooded out by beaver. This small area is flooded and has dead and dying sapling sized aspen. Lowland shrub pockets the center.
53	622 - Lowland Shrub	0.9	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
54	6220 - Alder/willow	1.1	No	
56	622 - Lowland Shrub	0.7	No	This is tag alder and other various shrubs with scattered timber.
58	622 - Lowland Shrub	1.0	No	There is a log sized white pine pocket in the center. Scattered sapling to pole sized red maple and paper birch are present throughout.
60	622 - Lowland Shrub	0.6	No	This is tag alder and other various shrubs with scattered timber.
66	622 - Lowland Shrub	2.3	No	Miller creek runs through this lowland shrub. There is dead ash throughout the canopy.
68	622 - Lowland Shrub	1.3	No	This is tag alder and other various shrubs with scattered timber.
69	622 - Lowland Shrub	1.4	No	This is tag alder and other various shrubs with scattered timber.
71	622 - Lowland Shrub	1.0	No	This is tag alder and other various shrubs with scattered timber.
72	622 - Lowland Shrub	0.7	No	This is tag alder and other various shrubs with scattered timber.
73	622 - Lowland Shrub	0.7	No	This is tag alder and other various shrubs with scattered timber.
86	622 - Lowland Shrub	1.1	No	This is lowland shrub with sparse timber.
102	330 - Low-Density Trees	0.8	No	This stand is being taken over by sapling balsam poplar at the north end. This is all upland. Scattered tag alder is present in light amounts. According to old FTP records this stand was cleared of stumps and planted to grass in 1979.
103	3102 - Grass	1.1	No	This stand is slowly growing over with trees and tag alder. This would make a nice stand for a wildlife food plot if reasonably accessible. According to old FTP records this stand was cleared of stumps and planted to grass in 1979.(OPIC - FMD: Old G-type filling in with brush and trees.)