



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54022

Entry Year 2020

Acreage: 1,517

County Montmorency

Management Area: Avery Hills

Revision Date: 2018-05-30

Stand Examiner: Dale Parris

Legal Description:

T30N R02E Sections 1, 22, 23, 25, 26, & 27

Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Avery Hills Management Area (AHMA) 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 AHMA, specific to Compartment 22, indicated that the aspen and oak covertypes be of focus for harvest for the purpose of balancing the age classes of these covertypes across the Management Area (MA). Wildlife, recreation, aesthetics, adjacent stands, and the larger landscape were considered in all management decisions.

Soil and topography:

The soil information detailed below was taken from the Soil Survey of Montmorency County, Michigan put out by the USDA/NRCS in conjunction with other entities.

The soil in northern most 40 acres of Compartment 22 is dominated by the Millersburg-Klackling-Graycalm complex (well drained, well drained, somewhat excessively drained, respectively). This 40 acres is composed of steep to rolling hills.

The two north-central parcels of Compartment 22 near Lake Fifteen are dominated by Tawas-Lupton mucks (very poorly drained) in the lowland areas and Grayling sand (excessively drained) in the upland areas. The lowland areas are flat and the upland areas have rolling hills.

The body of Compartment 22 is mostly upland forest with rolling to occasionally steep hills. This upland soil is dominated by the Millersburg-Klackling-Graycalm complex (well drained, well drained, somewhat excessively drained, respectively). In other upland areas the Graycalm soil exists on its own outside the complex. The flat lowland soil adjacent to Crooked Creek is Tawas-Lupton mucks (very poorly drained). The slightly rolling upland soil to the east of Crooked Creek is excessively well drained Rubicon sand.

The southeast portion of Compartment 22 is composed of rolling hills with soil dominated by the Klackling sand (well drained).

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

About a fifth of the Compartment 22 boundary is adjacent to more State of Michigan land. The rest of ownership adjacent to the Compartment 22 blocks is a mix of residential and large acre recreational hunting type properties.

Unique Natural Features:

A 93-acre parcel of Compartment 22 situated to the southwest of Lake Fifteen has a portion of the Thunder Bay River running southwest to northeast through its west end. This portion of the Thunder Bay River is designated a cold-water stream. This portion of the Thunder Bay River is interesting in that it divides up in to a number of parallel running streams before it comes back into a single flow of water as it heads towards Lake fifteen.

Crooked Creek flows slowly north through the east end of the main body of Compartment 22. Morning Star Lake is a small 2.5-acre natural lake that sits just west of Crooked Creek in Compartment 22.

Healthy lowland conifer forests surround the Thunder Bay River and Crooked Creek. Healthy lowland conifer forest is also present along the south shore of Lake Fifteen.

Archeological, Historical, and Cultural Features:

The Natural Heritage Database (NHD) showed that there are no known archaeological sites within Compartment 22.

As part of the NHD, the Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website

listed 4 species that are of concern that have been recorded as being historically present in or around Compartment 22. The grizzled skipper (*Pyrgus Wyandot*), a butterfly, is a special concern species that was reported within or near Compartment 22 in 1941. Alleghany plum or sloe plum (*Prunus umbellata*), a thorny shrub, is a state and federal special concerns species that was documented as being in or around Compartment 22 in 1930. Ram's head lady slipper or ram's head orchid (*Cypripedium arietinum*), is a state special concern species that was last reported in or around Compartment 22 in 2003. The common loon (*Gavia immer*) is a state threatened species and has historically been spotted in Morning Star Lake and Lake Fifteen.

Special Management Designations or Considerations:

The Fisheries Division of the Michigan DNR needs to be consulted regarding all forest management that takes place near the Thunder Bay River which is designated as a cold-water stream where it is flowing through Compartment 22. 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. Heterobasidion Root Disease (HRD) needs to be considered in managing red pine dominated stands.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Sections 1, 22-23, & 25-27, T30N-R2E, Montmorency County

An inactive state-owned sand/gravel pit is located in Section 1. The CRC showed interest in leasing this pit (Tower Pit/Big Tower Road) but changed their minds. An active pit on private land exists several miles to the west. There is some additional sand & gravel potential within the compartment. Glacial drift is too thick in this area for bedrock non-metallic mineral potential. Most state-owned mineral rights in this area are currently leased, and the area has been extensively developed for Antrim Shale gas. There is not much potential for additional future Antrim wells. 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:

Compartment 22 is composed of 5 separate blocks of land. The northern most 40 acres is about 1 mile north of downtown Atlanta and a quarter mile east of M33 at the east end of and accessible via Big Tower Road. These 40 acres are currently being leased to the township and are therefore off limits to the public.

A 160-acre parcel of Compartment 22 sits adjacent to the south end of Lake Fifteen. These 160 acres are accessible from Ryan Road. An additional 90-acre parcel of Compartment 22 sits just southwest of Lake Fifteen and has no public access. A 200-acre block of Compartment 22 sits a quarter mile south of County Road 487 and east of Morningstar Lake Road. This 200 acres is accessible via forest roads off of Morningstar Road. The final and largest portion (1,010 acre) of Compartment 22 sits south and east of County Road 489 and southwest of Crooked Lake. Access is from forest roads branching from County Road 489.

Survey Needs:

Surveys may be needed in the following sections: T30N R02E Sections 1, 22, 23, and 26. Further investigation will need to be completed to verify the need at each location before any survey requests are made.

Recreational Facilities and Opportunities:

The LP4/LP9 snowmobile trail goes through Compartment 22 North-South along its eastern edge. Briley Township cross country ski trails go through the north eastern most 40 acres of Compartment 22. Compartment 22 has opportunities for hunting whitetail deer, ruff grouse, bear, squirrel, coyote, and turkey within season and with the proper license(s). A boat launch access point is present at the south end of Lake Fifteen.

Fire Protection:

In the case of a wildland fire, response to Compartment 22 will be from the Atlanta DNR office as well as the Tri-Township Fire Department.

Additional Compartment Information:

The following reports from the Inventory are attached:

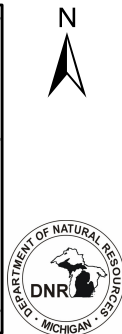
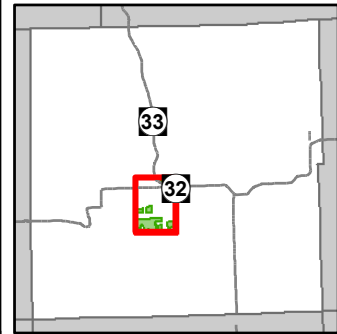
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

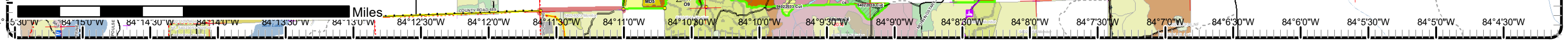
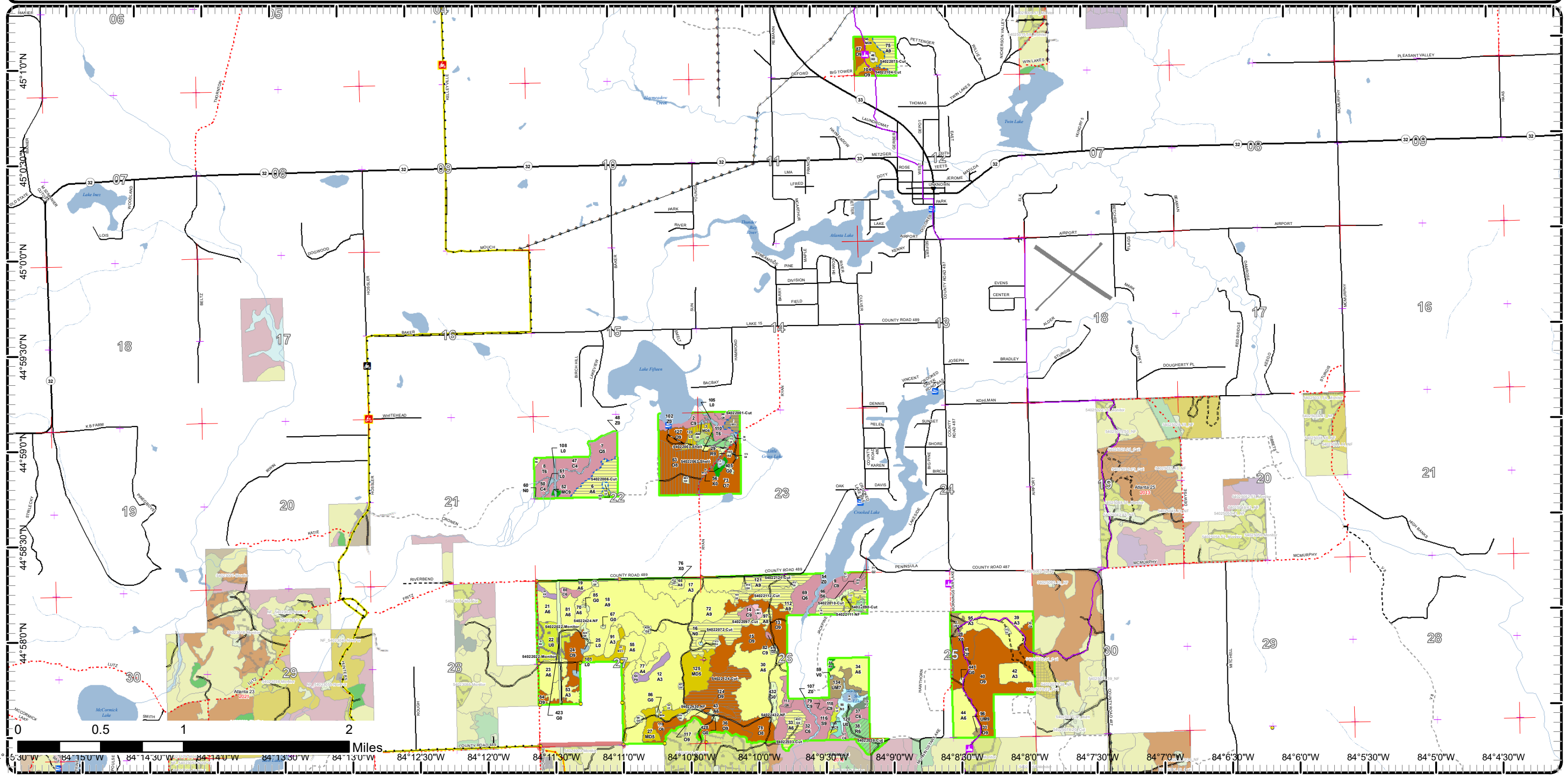
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

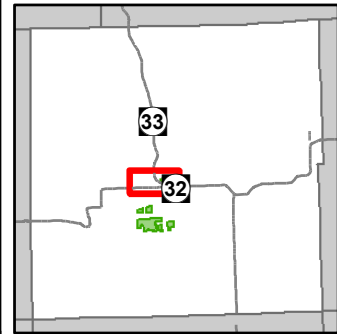
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 T30N, R02E, Sec. 1, 22, 23, 25-27
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 Unit: Atlanta
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 YOE: 2020
 Acres: 1,517 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 10/2/2018
 Map Phase: Post-Review



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- Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Secondary Forest Road
- == DNR - Forest Access Route
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- Federal / State / County - Paved Road
- - - County - Gravel Road
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- ORV License
- ORV License & Trail Permit
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- Lakes and Rivers All
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- Powerline
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
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- 790 - Other Bare/Sparsely Vegetated
- Lakes

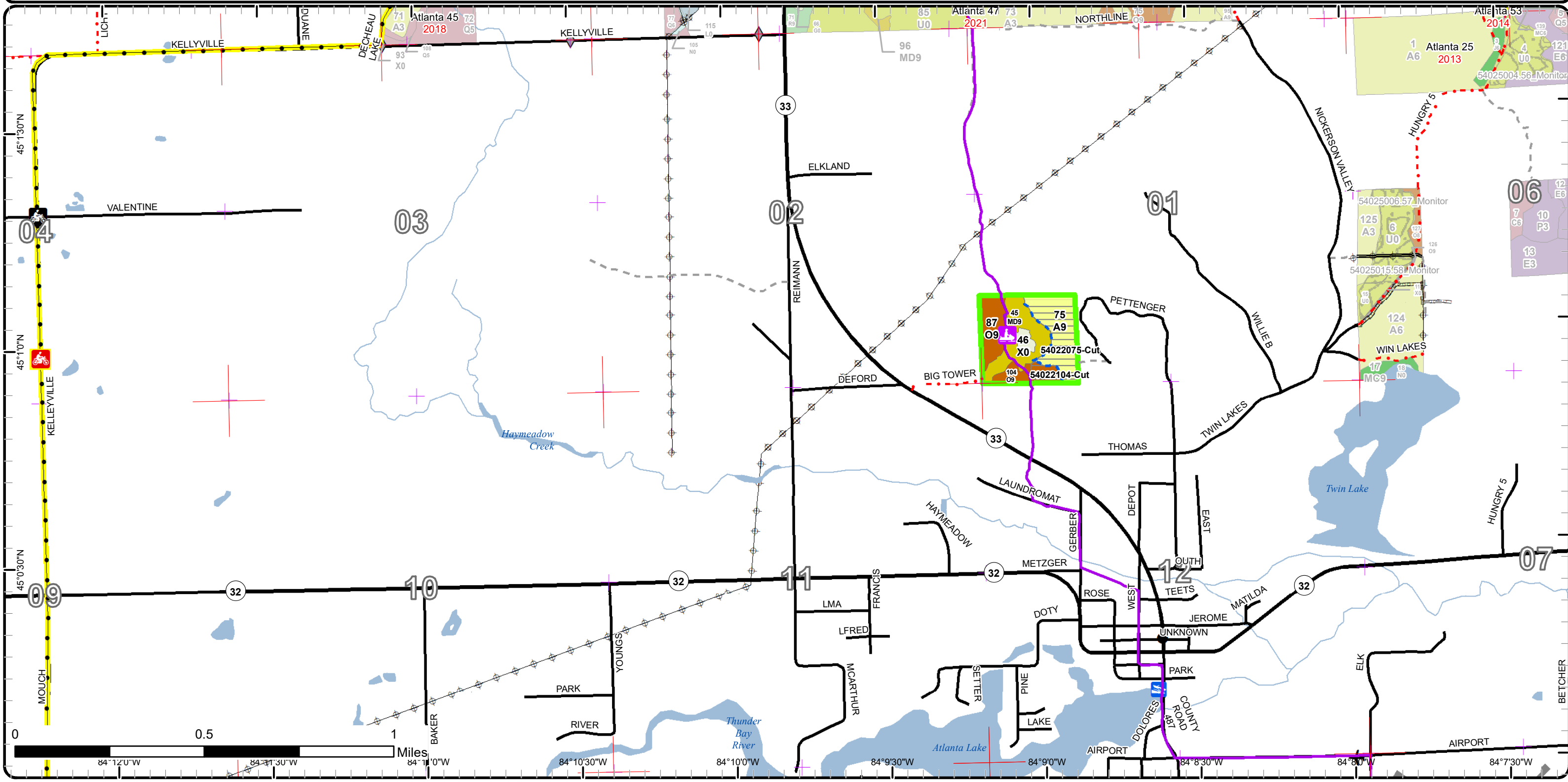


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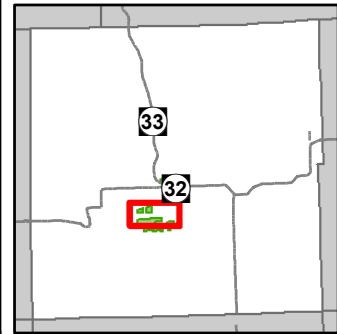
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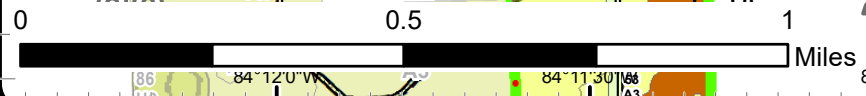
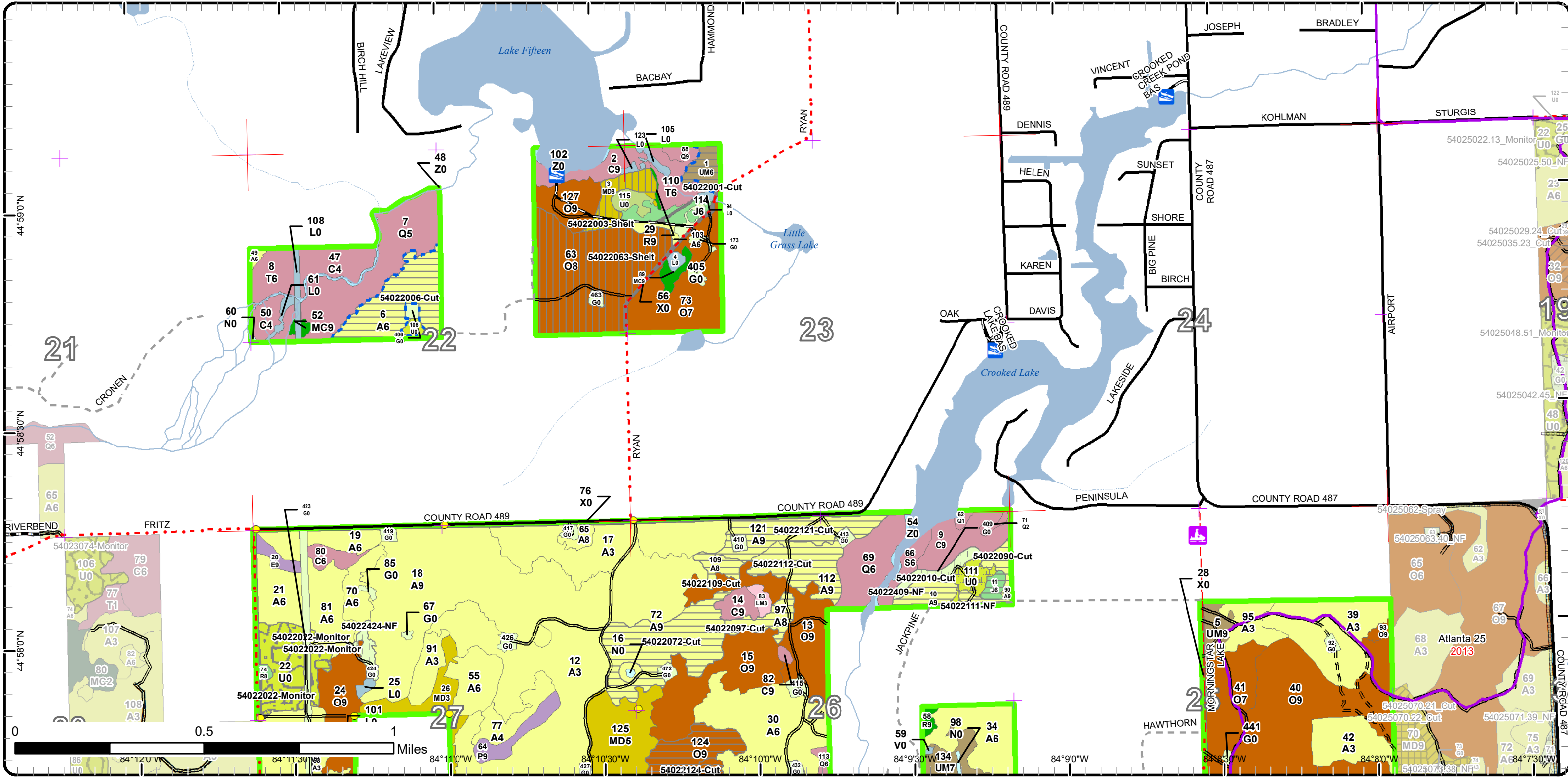


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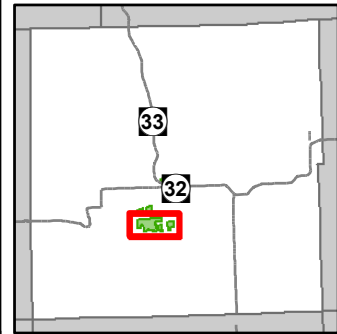


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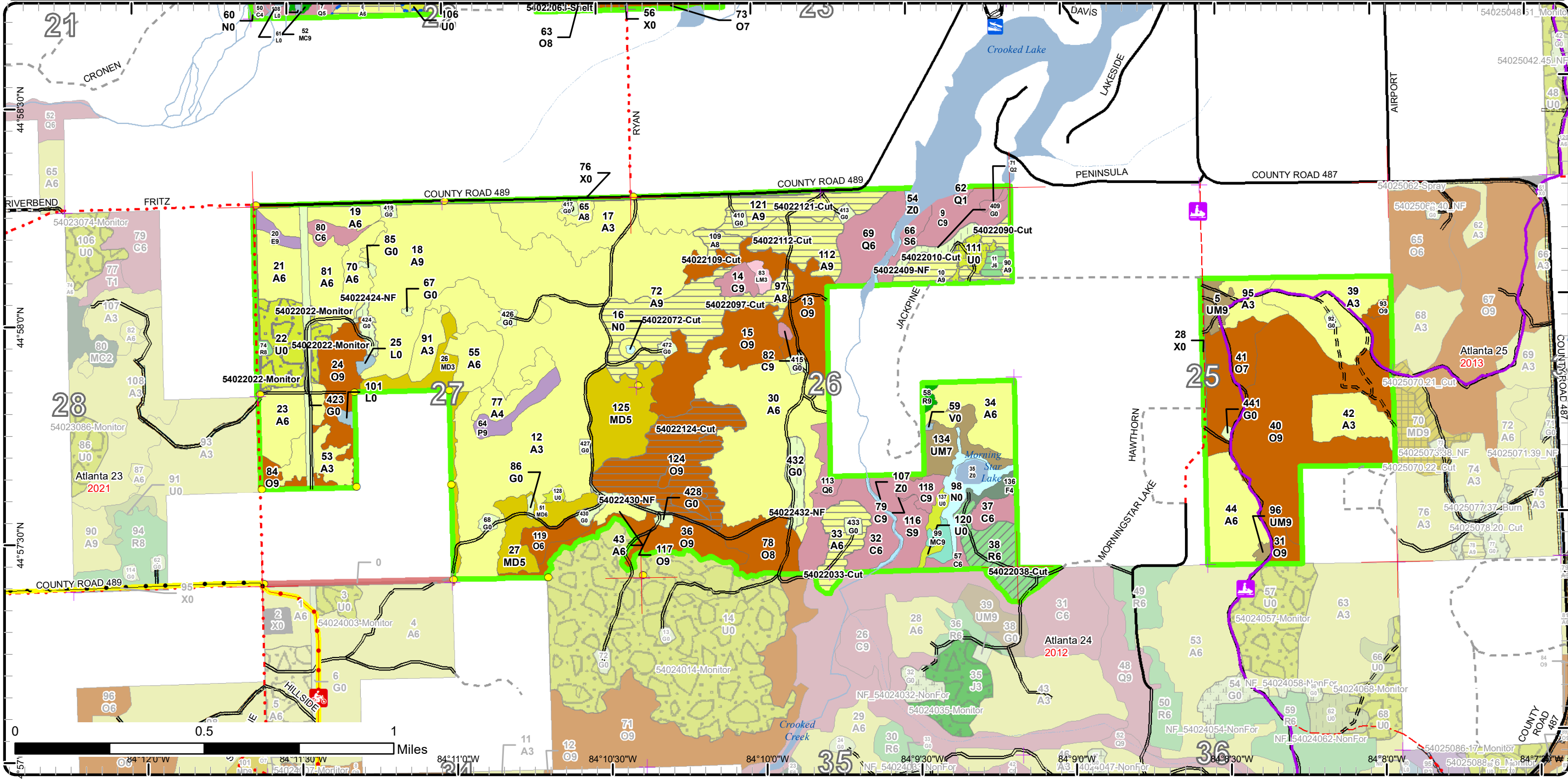


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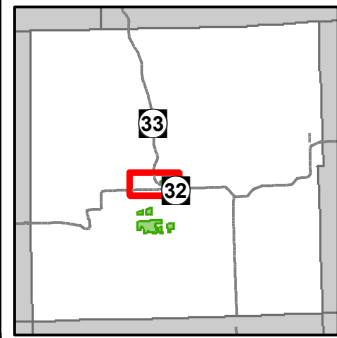


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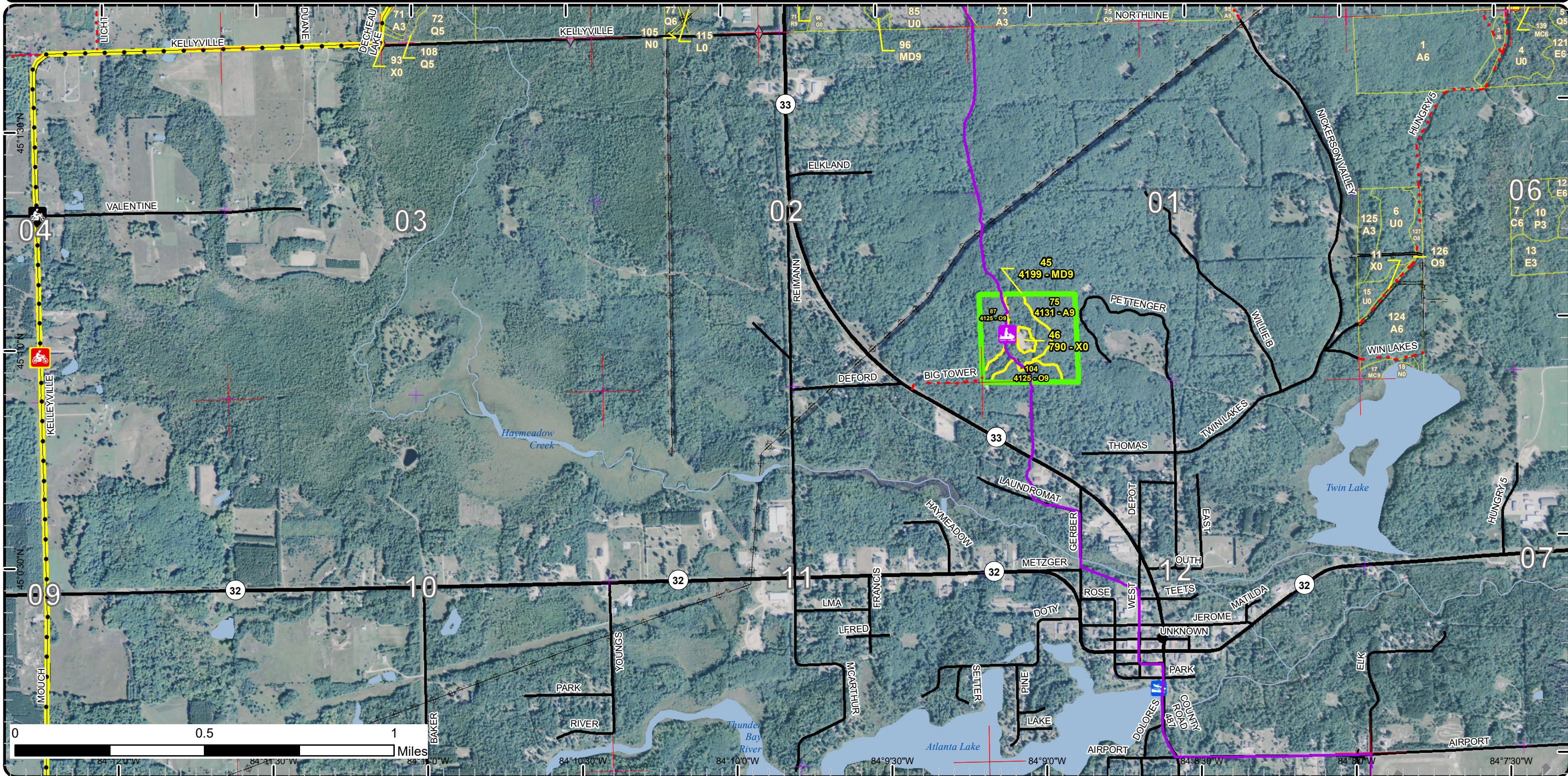


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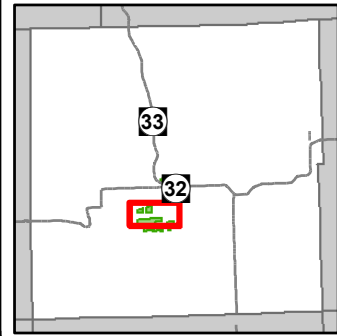


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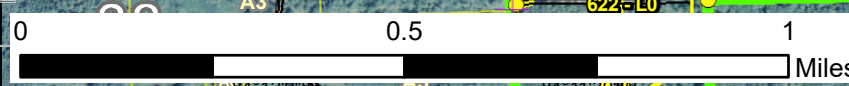
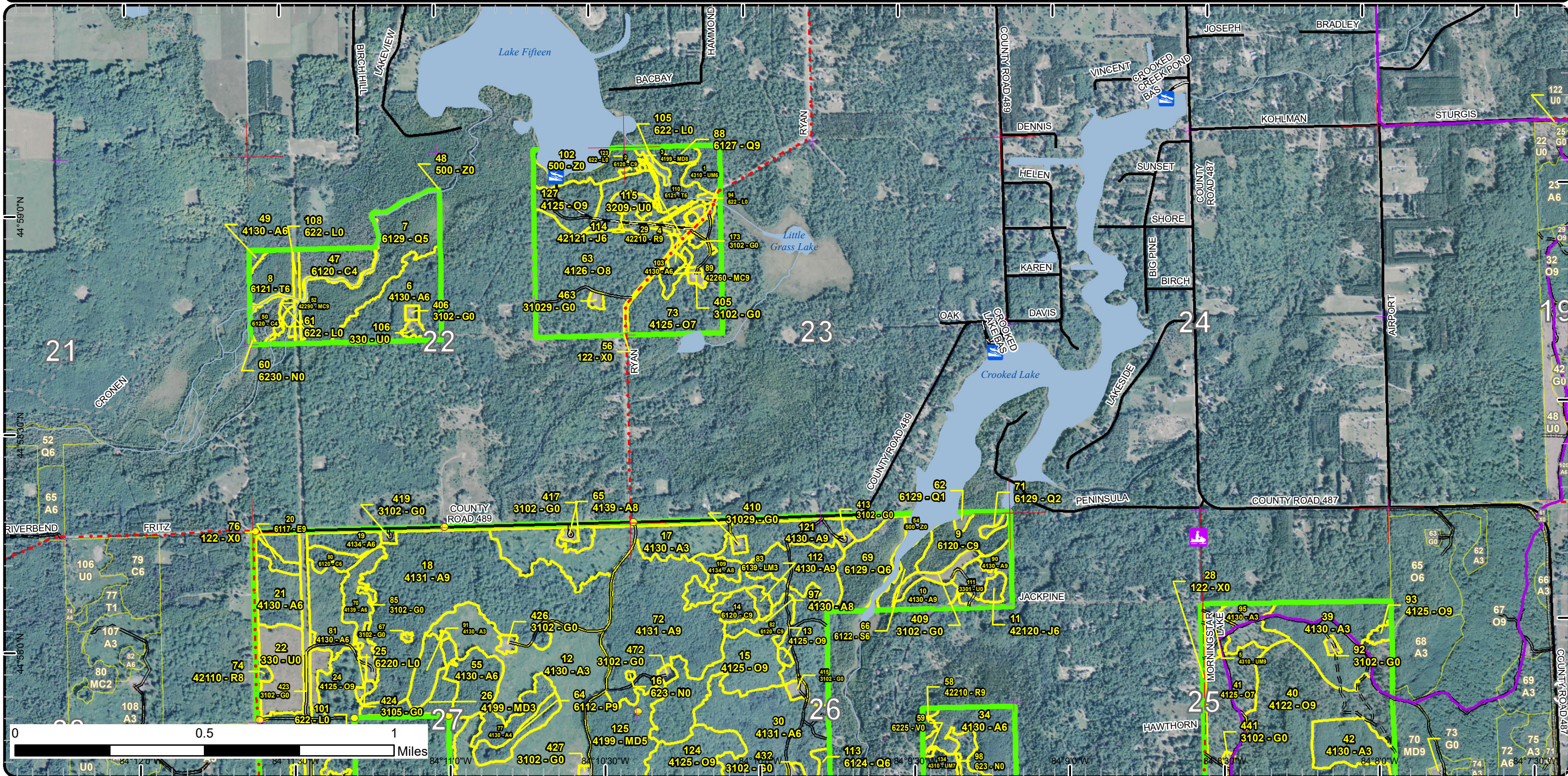
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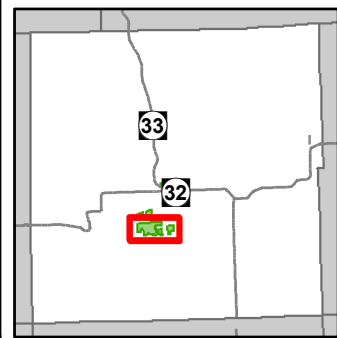
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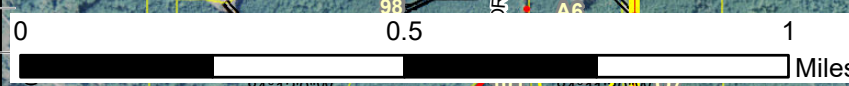
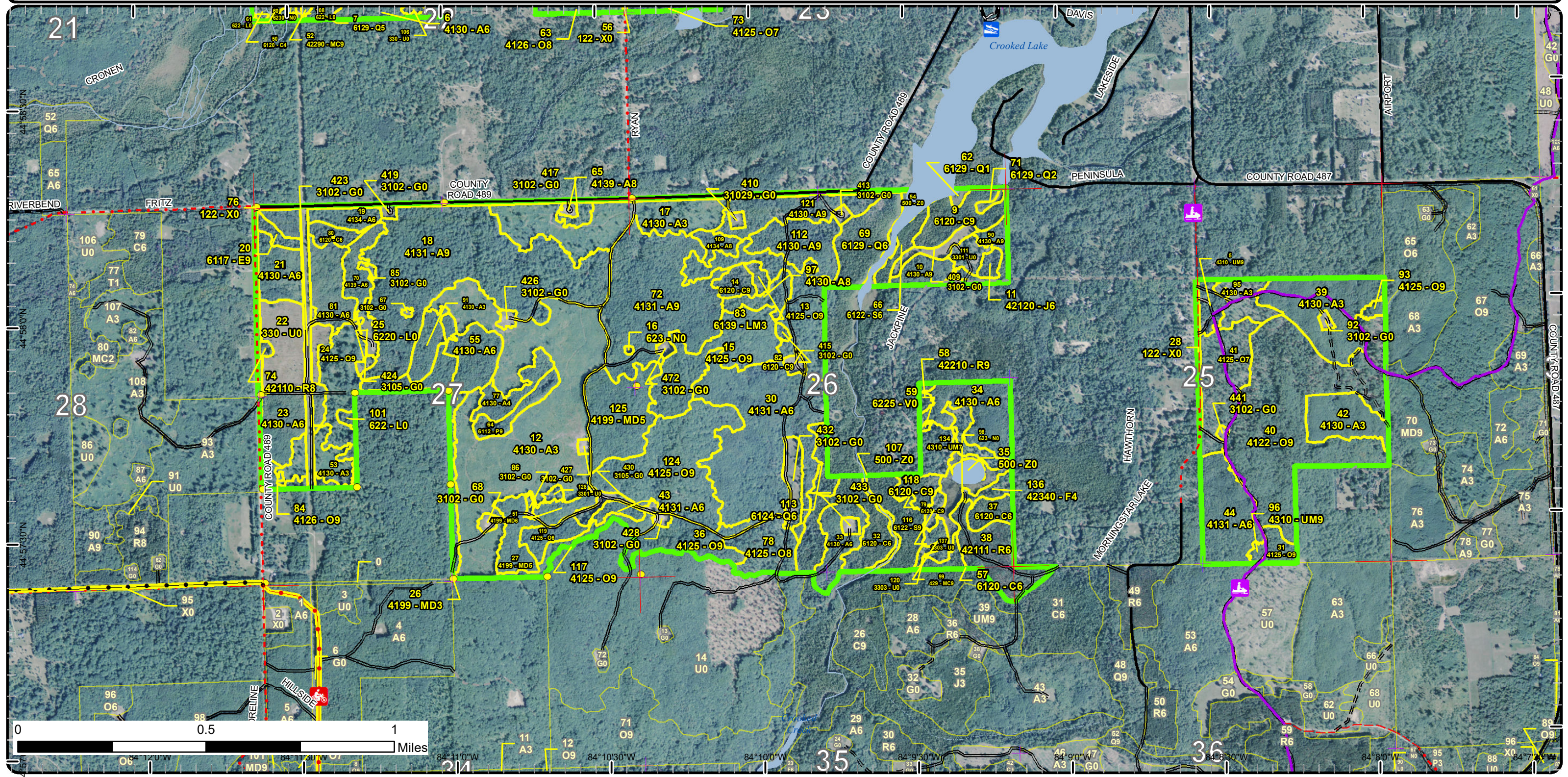
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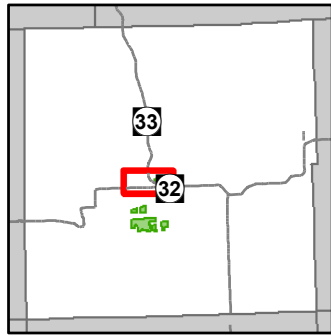
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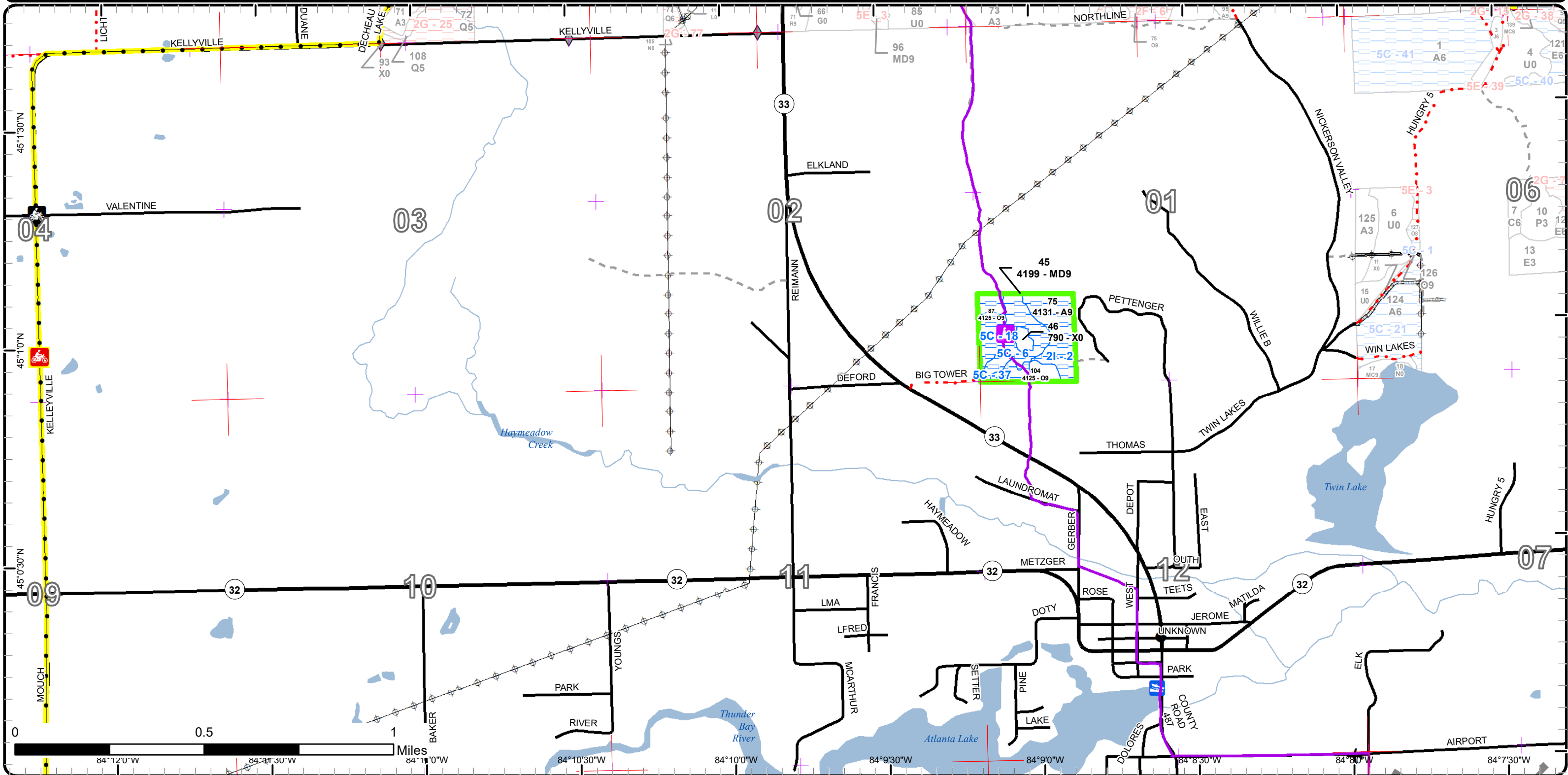
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Special Conservation Areas & Site Conditions Map

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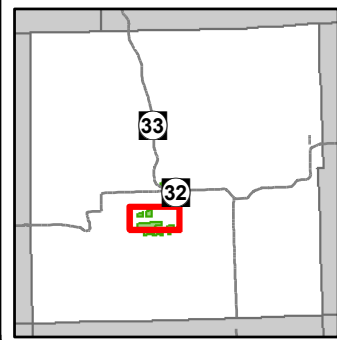


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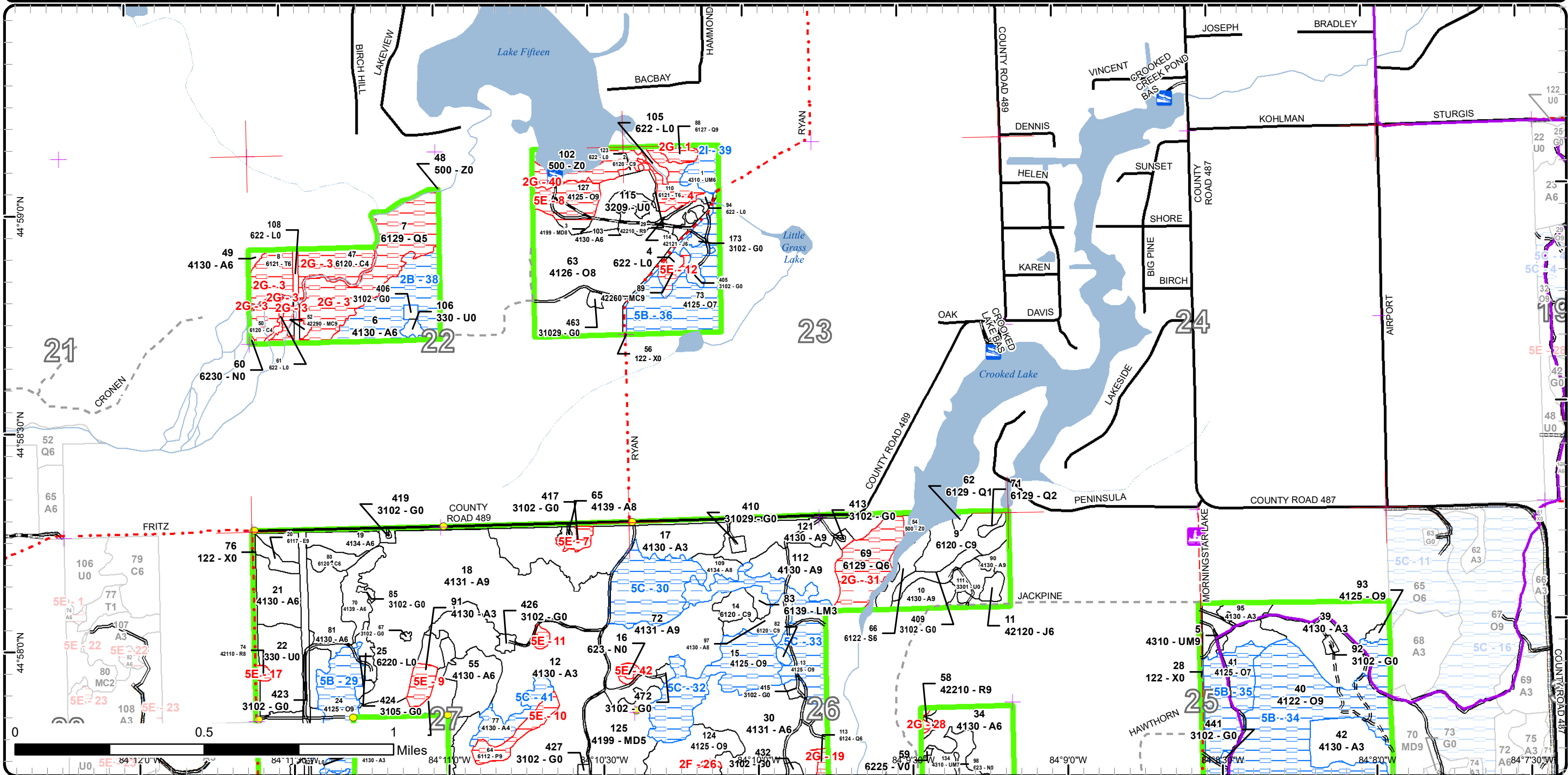
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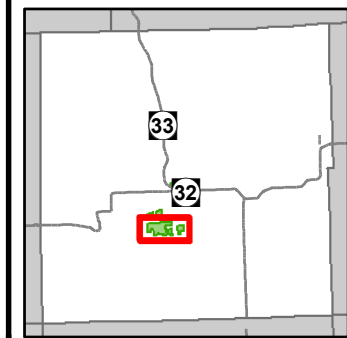


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- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Boating Access Site
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality

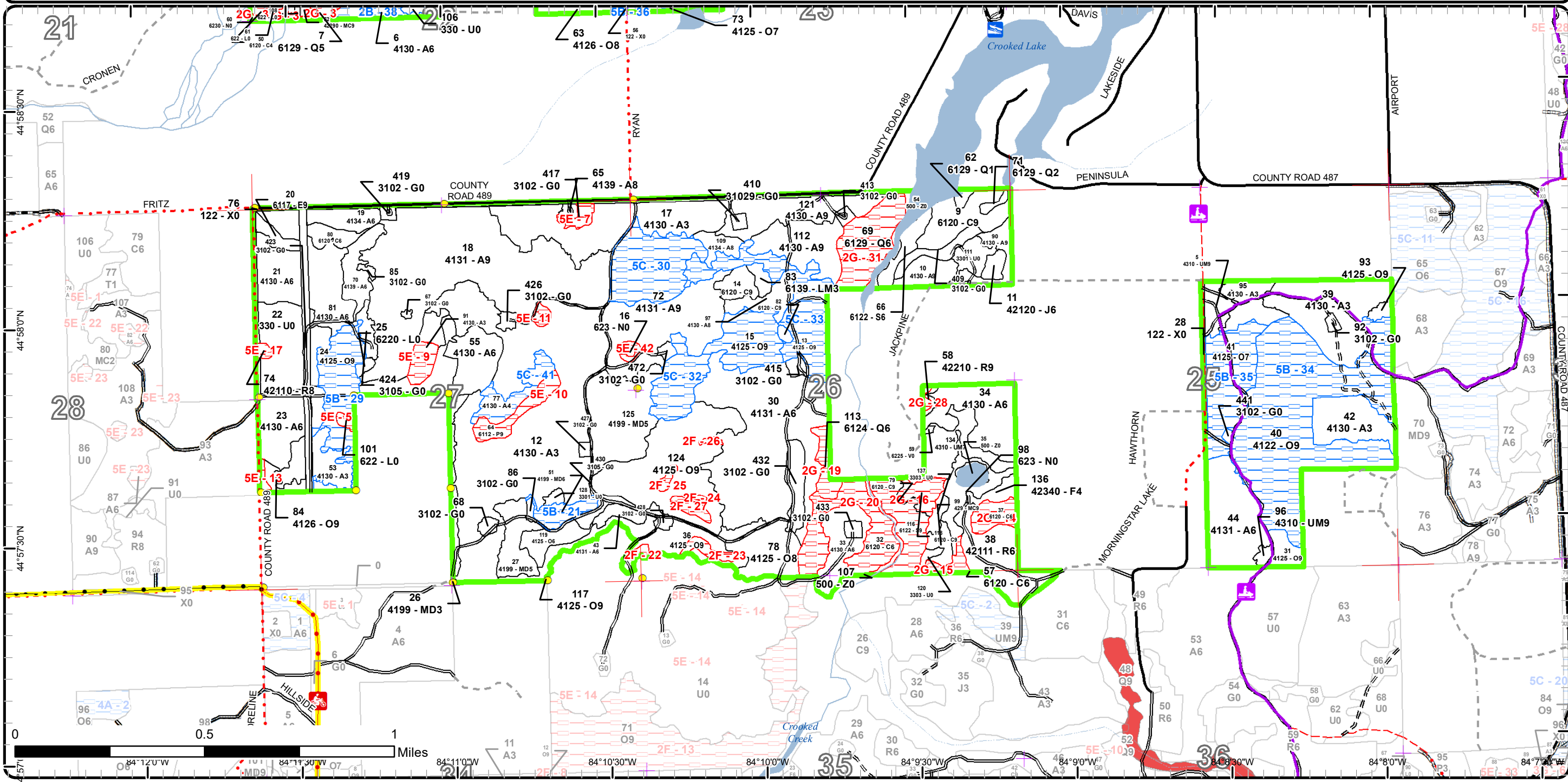


Special Conservation Areas & Site Conditions Map

Compartment: 22
 T30N, R02E, Sec. 1, 22, 23, 25-27
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Avery Hills
 YOE: 2020
 Acres: 1,517 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 10/2/2018
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🏍️ Motorcycle Trails (DNR License)
- 🛷 Snowmobile Trails
- ORV License
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- 🚤 Boating Access Site
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- ⚡ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 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)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams



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	162	0	95	0	208	132	6	52	0	13	0	0	0	0	0	0	0	668
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Bog	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cedar	0	0	0	0	0	0	0	0	0	37	9	0	24	5	5	0	0	0	79
Herbaceous Openland	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Jack Pine	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	7
Low-Density Trees	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	2	0	0	0	57	0	2	0	0	0	0	0	0	0	61
Lowland Deciduous	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Lowland Mixed Forest	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Spruce/Fir	0	0	0	0	0	0	0	5	0	13	0	0	0	0	0	0	0	0	17
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	0	14	0	10	25	0	0	0	19	5	0	0	0	0	0	0	73
Natural Mixed Pines	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	4
Oak	0	0	0	0	0	6	0	0	0	60	39	282	0	0	0	0	0	0	386
Red Pine	0	0	0	0	0	0	18	0	0	3	0	1	0	0	0	0	0	0	21
Tamarack	0	0	0	0	0	0	0	8	9	0	0	0	0	0	0	0	0	0	17
Upland Conifers	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	0	0	20	0	0	0	6	0	0	0	0	0	0	25
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Spruce/Fir	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total	144	162	0	111	2	229	184	45	121	116	82	294	24	5	5	0	1	0	1518



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 22

Total Compartment Acres: 1,517

Commercial Harvest - 221
 Harvests with Site Condition - 44
 Next Step Harvest - 60
 Habitat Cut - 60

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	136	0	0	0	0	0	0	0	0	136
Jack Pine	2	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	8	0	0	0	0	8
Oak	43	0	0	0	53	0	0	0	0	95
Red Pine	0	0	0	0	0	18	0	0	0	18
Upland Mixed Forest	6	0	0	0	0	0	0	0	0	6
Total	186	0	0	0	60	18	0	0	0	265

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	265	0	0	0	0	0	20	0	23	308
Next Step	60	8	0	0	53	0	247	0	0	367
Total	325	8	0	0	53	0	266	0	23	675



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
1	54022001-Cut	5.7	4310 - Pine, Oak Mix	Poletimber Well	102	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:** **Survey Needed**

Prescription Clear-cut.

Specs:

Retain all oak and pine regeneration.

Mark legacy red pine along the lowland west edge of the stand out of the sale.

Retain and protect all white oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of pine, oak, aspen, and red maple.

Other Comment:

Make an attempt to ammend these acres to the Quercus Basra sale to the south.

Retention is not necessary due to the small size of the stand.

Proposed Start Date: 8 /10/2018

3	54022003-Shelt	7.8	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	97	51-80	Harvest	Shelterwood	412 - Oak Types	Even-Aged	Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Shelterwood. Protect oak and pine advanced regeneration.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Scarification; Harvest, Clearcut with Retention

Treatments:

Acceptable Regen: Acceptable regeneration is any combination of oak, maple, pine or aspen.

Other Comment:

Percent to Treat = 100%

Scarify if needed to promote oak, pine regeneration.

Proposed Start Date: 6 /20/2016

6	54022006-Cut	24.8	4130 - Aspen	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:** **Unknown Access**

Prescription Clear-cut with retention.

Specs:

Retain 3-10% of the stand in multiple pockets around large crowned mast producing oak.

Do not cut any pine to promote future stand diversity.

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, pine, and oak.

Other Comment:

Proposed Start Date:

10/1 /2019



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	54022010-Cut	5.7	4130 - Aspen	Sawtimber Well	73	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Clearcut with retention.Specs:

Place retention around the two legacy oak to the west.

Protect pine and oak regeneration where present.

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, oak, balsam fir, and pine.OtherComment:Proposed Start Date:

10/1 /2019

11	54022011-Cut	2.3	42120 - Planted Jack Pine	Poletimber Well	54	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clearcut.Specs:

Retention is not necessary due to the small size of the stand.

Protect all pine and oak regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of aspen, pine, red maple, and oak.OtherComment:Proposed Start Date:

10/1 /2019

22	54022022- Monitor	19.8	330 - Low-Density Trees	Nonstocked			Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Perform a year 3 regen survey.Specs:Next StepTreatments:Acceptable Regen: Acceptable regeneration is a fully stocked stand of red pine.OtherComment:Proposed Start Date:

4 /1 /2019



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
33	54022033-Cut	11.4	4130 - Aspen	Poletimber Well	47	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Clear-cut with retention.Specs:

Place the retention around the sparse oak.

Protect the pine and oak regeneration.

Do not harvest any pine to promote future stand diversity.

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 Acceptable regeneration is a medium to well stocked stand of aspen, red maple, balsam fir, oak, and pine.Regen:OtherComment:Proposed Start Date: 10/1 /2019

38	54022038-Cut	18.4	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	59	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Thin down to 120 BA taking no more than 1/3 of the preharvest BA. Leave the large crowned oak and red maple so not to damage the residual red pine.Specs:Next StepTreatments:Acceptable This is not a regeneration harvest.Regen:OtherComment:Proposed Start Date: 10/1 /2019

63	54022063-Shelt	52.5	4126 - White, Black, N. Pin Oak	Sawtimber Medium	83	51-80	Harvest	Shelterwood	412 - Oak Types	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Shelterwood oak. Leave retention near campground. Cut aspen, maple, jack pine. Leave all RP, WP, and hemlock, if present. Winter harvest.Specs: Protect oak and pine regeneration.Next Step Burn, Understory; Monitoring, Natural Regen (Re-Inventory); Harvest, Clearcut with RetentionTreatments:Acceptable Any mix of regeneration is acceptable, however, OAK REGENERATION CAN BE 6' TO 10' HIGH AND IS OFTEN TOO THICK TO DRIVE ANRegen: ELAN THROUGH.Other

Percent to Treat = 100%. Burn after harvest.

Comment:Proposed Start Date: 6 /20/2016



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
72	54022072-Cut	31.9	4131 - Aspen, Oak	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Clear-cut with retention.Specs:

Retain 3-10% of the stand in pockets around larger crowned mast producing oak, favoring white oak.

Retain all pine (advanced regeneration included; this is mostly a few scattered legacy type red pine.)

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, oak, red maple, and pine.Other Comment:

The long term retention/BMP already mapped around the vernal pond is 4% retention as the stand is mapped pre-ground work.

Proposed Start Date: 10/1 /2019

75	54022075-Cut	13.1	4131 - Aspen, Oak	Sawtimber Well	99	141-170	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**Prescription Clear-cut with retention.Specs:

Protect all pine regeneration to promote future stand diversity.

Do not harvest any of the sparse amount of pine in the overstory.

Place retention around the very large crowned oak present.

Include the "Dead and Down Creation, Grouse" log Specification 5.2.4.4 in the sale contract.

Include specs 6.2.2 and 6.2.3 to protect those recreating on ski and snowmobile trails.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of aspen, oak, and pine.Other Comment:

There are very large crowned oak mast trees present. Consider placing retention around these large crowned oak after cruising.

Proposed Start Date: 10/1 /2019

90	54022090-Cut	5.2	4130 - Aspen	Sawtimber Well	73	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clearcut with retention.Specs:

Protect oak and pine legacy trees present where present.

Protect pine and oak regent where present.

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, oak, and pine.Other Comment:Other Comment:Other Comment:Proposed Start Date: 10/1 /2019



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
97	54022097-Cut	6.4	4130 - Aspen	Sawtimber Medium	75	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Clear-cut.Specs:

Retention is not necessary due to the small size of the stand.

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 medium to well stocked stand of aspen, balsam fir, red maple, and oak.Other Comment:Other Comment:Proposed Start Date: 10/1 /2019

104	54022104-Cut	2.3	4125 - Black, N. Pin Oak	Sawtimber Well	92	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clear-cut.Specs:

Retention is not necessary due to the small size of the stand.

Protect all pine regeneration, where present, to promote future stand diversity.

Do not harvest any of the sparse amount of pine in the overstory.

Include specs 6.2.2 and 6.2.3 to protect those using the ski and snowmobile trails.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of oak, aspen, and red maple with some pine.Other Comment:Other Comment:Proposed Start Date: 10/1 /2019

109	54022109-Cut	3.9	4134 - Aspen, Spruce/Fir	Sawtimber Medium	61	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clear-cut.Specs:

Retention is not necessary due to the small size of the stand.

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 stockng of aspen, oak, pine, spruce, paper birch, red maple, and balsam fir.Other Comment:Other Comment:Proposed Start Date: 10/1 /2019



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
111	54022111-NF	5.2	3301 - Low Density Deciduous Trees	Nonstocked	104	Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	320 - Upland Shrub		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription 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:

Proposed Start Date: 10/1 /2019

112	54022112-Cut	16.3	4130 - Aspen	Sawtimber Well	70	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear-cut with retention.

Specs:
Leave 3-10% retention in pocket(s).

Protect all pine and oak regeneration to promote future stand diversity.

Protect all legacy pine and oak if and where present.

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

Other
Comment:

Proposed Start Date: 10/1 /2019

121	54022121-Cut	17.0	4130 - Aspen	Sawtimber Well	70	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear-cut with retention.

Specs:
Leave 3-10% retention in pocket(s).

Protect all pine and oak regeneration to promote future stand diversity.

Protect all legacy pine and oak if and where present.

Retain all red pine to improve visual from County Road 489.

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

Other
Comment:

Proposed Start Date: 10/1 /2019



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
124	54022124-Cut	40.2	4125 - Black, N. Pin Oak	Sawtimber Well	103	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear-cut with retention. Retain 3-10% of the stand.

Specs:

Use the pockets marked out of the stand for being too steep to harvest as retention.

The treatment may further reduce in size if areas with southern and western aspects are identified as being erosion and/or regeneration risks, and are therefore marked out of the stand during set up.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is a mix of oak, aspen, and red maple.

Regen:

Other Southern and eastern aspects exist at the southwestern corner of the stand that should be marked out of the treatment if deemed erosion and/or
Comment: regeneration risks.

Proposed Start Date: 10/1 /2019

409	54022409-NF	4.4	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Next StepTreatments:AcceptableRegen:OtherComment:

Proposed Start Date: 10/1 /2019

424	54022424-NF	3.1	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Next StepTreatments:AcceptableRegen:OtherComment:

Proposed Start Date: 10/1 /2019



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
430	54022430-NF	4.0	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

432	54022432-NF	6.4	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 307.8**

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 22
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2B	2I	5B	5C	2F	2G	5E	
667	588	70	9	Aspen	25	13		33				9
2	2	0	0	Bare/Sparsely Vegetated								
0	0	0	0	Bog								
79	23	0	57	Cedar						57		
48	48	0	0	Herbaceous Openland								
7	7	0	0	Jack Pine								
31	31	0	0	Low-Density Trees								
6	0	0	6	Lowland Aspen/Balsam Poplar								6
61	2	0	59	Lowland Conifers						59		
3	3	0	0	Lowland Deciduous								
2	2	0	0	Lowland Mixed Forest								
10	9	0	1	Lowland Shrub								1
18	5	0	12	Lowland Spruce/Fir						12		
9	9	0	0	Marsh								
73	43	30	0	Mixed Upland Deciduous			19	11				
4	1	0	3	Natural Mixed Pines								3
386	144	224	19	Oak			159	65	8			11
21	20	0	2	Red Pine						1		1
16	0	0	16	Tamarack						16		
3	3	0	0	Upland Conifers								
25	19	6	0	Upland Mixed Forest		6						
3	3	0	0	Upland Shrub								
3	3	0	0	Upland Spruce/Fir								
20	20	0	0	Urban								
20	20	0	0	Water								
1,517	1,004	330	184	Total Forested Acres	25	19	178	108	8	145		31
	66%	22%	12%	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)	2	Unspecified	Unspecified	Unspecified	Unspecified

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Comments:							
2	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	58	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Much of this site condition is within 300 feet of a portion of the Thunder Bay River that is designated as a cold water stream by the Fisheries Division of the Michigan DNR. Due to this being a cold water stream, forest management within 300 feet of the river's edge should be minimized as not to promote beaver damming, sedimentation, and water warming. All forest management within 300 feet of this portion of the Thunder Bay River should be approved by the Fisheries Division of the MI DNR.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Timber Sale No.: 54-001-11-01; Timber Sale Name: Finally...Aspen. The retention that was most representative of the original stand is along the outer edge of the lowland shrub.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for Sale Name: Astro Aspen; Sale No.: 54-003-10-01.							
8	Unavailable	5E: Long-Term Retention	10	1D: Interest Group / Neighbor	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for Timber Sale Name: Vernacular Aspen; Timber Sale No. 54-007-10-01							
10	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for Timber Sale Name: Vernacular Aspen; Timber Sale No. 54-007-10-01. This stand has two wide vernal ponds at both ends with a narrowing lowland vernal pond type area that stretches the length of the stand connecting the wider vernal ponds at the ends.							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for Timber Sale Name: Vernacular Aspen; Timber Sale No. 54-007-10-01							
12	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from the surrounding stand to the east. Timber Sale Name: Quercus Basura; Sale No. 54-008-10-01.							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Timber Sale No.: 54-001-11-01; Timber Sale Name: Finally...Aspen. This retention was not shown in the timber sale map but it does exist and was required here along County Road 489 per the prescription agreed upon at compartment review.							

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for Timber Sale Name: 489 Powerline Pine; Timber Sale No.: 54-004-10-01.							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Due to the oak that were retained in the canopy during the last harvest this stand is being flagged for harvest. Wait for the pole size timber to increase in diameter before harvesting.							
22	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition was GPSed while walking its perrimeter, therefore it should not be deleted or altered unless other on the ground observatoins deem it necessary.							
23	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition was GPSed while walking its perrimeter, therefore it should not be deleted or altered unless other on the ground observatoins deem it necessary.							
24	Unavailable	2F: Too steep	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition was GPSed while walking its perrimeter, therefore it should not be deleted or altered unless other on the ground observatoins deem it necessary.							
25	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This west facing aspect is too steep and too dry to harvest. Harvesting here would cause regeneration and erosion issues. This site condition was GPSed while walking its perrimeter, therefore it should not be deleted or altered unless other on the ground observatoins deem it necessary.							

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26	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition was GPSed while walking its perrimeter, therefore it should not be deleted or altered unless other on the ground observatoins deem it necessary.							
27	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This south to southwest facing aspect is too steep and too dry to harvest. Harvesting here would cause regeneration and erosion issues. This site condition was GPSed while walking its perrimeter, therefore it should not be deleted or altered unless other on the ground observatoins deem it necessary.							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A shelterwood type harvest was completed on this stand in 2012. Hold this stand until the regeneration is merchantable.							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5B: Maintain for regeneration purposes	87	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A shelterwood type harvest was completed on this stand in 2013.							
36	Available	5B: Maintain for regeneration purposes	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was shelterwood harvested in 2015.							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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38	Available	2B: Unknown if access through adjacent landowner(s) is possible	25	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4310 - Pine, Oak Mix	Poletimber Well	5.7	102	51-80	This stand has rolling hills and an even distribution of canopy species throughout.
2	6120 - Lowland Cedar	Sawtimber Well	8.6	85	141-170	This stand is a riparian area to Lake Fifteen. The cedar vary in size throughout. Large, tall, healthy tamarack are growing here. A narrow 2 foot wide creek flows through this stand from south to north and into Lake Fifteen at the west end of this stand. OPIC - FMD: CEDAR AROUND SOUTH END OF LAKE 15. Boat access site.
3	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	8.1	97	51-80	
5	4310 - Pine, Oak Mix	Sawtimber Well	5.4	61	51-80	This stand was not part of the adjacent harvests to the south and to the west. This stand could be expanded into Stand 41 to the south to encompass the area dominated by white pine for future forest management.
6	4130 - Aspen	Poletimber Well	24.8	47	51-80	The aspen is diminishing in quality. There are residual log sized oak, white pine, and red maple that were retained during the last harvest. The harvest records indicate that this stand was harvested in 1981, but in May 2018 the coring of 7 and 8 inch DBH aspen both gave ages of 47 indicating a harvest date of 1971. (In 1981 residual aspen was removed in the southeastern most 2/3 of the stand to improve stand reproduction.) OPIC - FMD: FAIR AMOUNT OF UPLAND RED MAPLE (E1, E2) AT LOWER ELEVATIONS.)
7	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	34.7	75	111-140	The forest floor is covered in moss throughout. The size of the trees vary in conjunction with slight variances in soil moisture and elevation. Log to pole sized tamarack are dominate along the northeast edge of the stand. This stand is too wet to harvest. There are two half acre mixed upland forest pockets toward the east end of this stand. The east upland mixed pocket has some mast producing hybrid oak and white oak. The west upland mixed upland pocket has legacy white pine and red pine. There is a 12-15 feet wide creek flowing south to north west of the powering at the west edge of the stand.
8	6121 - Tamarack	Poletimber Well	8.6	75	51-80	This is an edge call from the south side of the Thunder Bay River.
9	6120 - Lowland Cedar	Sawtimber Well	13.6	84	81-110	OPIC - FMD: SAWLOG CEDAR IN COUPLE AREAS. Crooked creek through stand.
10	4130 - Aspen	Sawtimber Well	6.5	73	81-110	This stand is overdue for harvest. It was prescribed for a restart during the 2010 YOY, but it was never harvested.
11	42120 - Planted Jack Pine	Poletimber Well	2.3	54	51-80	The jack pine grew extremely fast for the first 20 years then slowed down to adding an eight inch of DBH each year after that. The jack pine are already dying and falling out of the canopy at a fairly fast rate.
12	4130 - Aspen	Sapling Well	108.0	6	Immature	All trees were harvested, with the exception of red and white pine, in this stand in 2012 as part of Timber Sale Name: Vernacular Aspen; Timber Sale No. 54-007-10-01.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4125 - Black, N. Pin Oak	Sawtimber Well	26.3	101	81-110	The very west lobe of the stand has oak that average 14" in DBH. The south-central narrow portion of the stand has a ravine with what appears to be an intermittent creek. The area immediately east and west of the creek is a lower quality of mixed upland of deciduous where the oak is the least dense.
14	6120 - Lowland Cedar	Sawtimber Well	4.5	120	141-170	OPIC - FMD: SAWLOG CEDAR IN COUPLE AREAS.
15	4125 - Black, N. Pin Oak	Sawtimber Well	28.5	99	81-110	The average diameter in the western third of the stand for hybrid oak is 10", indicating that it was harvested with adjacent stands but is oak dominate. The NE portion of the stand on a northern aspect, has higher quality oak at a higher density and could use a crown thinning.
17	4130 - Aspen	Sapling Well	35.0	6	1-50	All trees in this stand, except for a scattering of oak and conifer, were harvested from this stand from 2012-2013 as part of Timber Sale Name: Astro Aspen; Timber Sale No. 54-003-10-01.
18	4131 - Aspen, Oak	Sawtimber Well	95.1	46	51-80	In much of the northern portion of this stand all aspen, red maple, jack pine, paper birch, misc. hardwood, and multiple stem oak with a merchantable stick were harvested from this stand in 1978. A 7.5" DBH bigtooth aspen aged at 46 years in April of 2018. The red maple in the stand are concentrated where the oak retention was the highest. This red maple is suppressed and growing under the oak canopy where there was not enough sunlight to grow aspen.
19	4134 - Aspen, Spruce/Fir	Poletimber Well	9.7	27	51-80	The aspen are somewhat unhealthy due to lack of sunlight. All trees with a merchantable stick, with the exception of oak, were harvested in this stand in 1991 as part of Timber Sale Name: M. K. 489; Timber Sale No.: 54-013-90-01.
20	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	2.8	86	81-110	This stand is a nice diverse wildlife travel corridor. Legacy white pine and red pine are scattered throughout.
21	4130 - Aspen	Poletimber Well	11.5	27	1-50	All trees with a merchantable stick, with the exception of select oak in the west half, were harvested in this stand in 1991 as part of Timber Sale Name: M. K. 489; Timber Sale No.: 54-013-90-01. (OPIC - FMD: Mix of A3 and P3.)
23	4130 - Aspen	Poletimber Well	15.6	27	1-50	There is heavy deer browsing on the red maple. The stand looks to be in good health. Hopefully some of the white oak can hang on to be part of the canopy. The white pine are mostly at the north end. This stand was clear-cut in 1991 as part of Timber Sale Name: 489 Two Line; Timber Sale No.: 54-012-90-01. Hawthorn was protected during the harvest.
24	4125 - Black, N. Pin Oak	Sawtimber Well	20.9	101	51-80	This stand was harvested with the exception of oak in 2012 as part of Timber Sale Name: Finally Aspen; Timber Sale No. 54-001-11-01.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4199 - Other Mixed Upland Deciduous	Sapling Well	14.2	21	1-50	The western arm of the stand is mostly lowland. A 5" DBH aspen age at 25 years. A 4" DBH paper birch age at 21 years. This stand was clear-cut in 1991 as part of Timber Sale Name: 489 Two Line; Timber Sale No.: 54-012-90-01. Hawthorn was protected during the harvest.
27	4199 - Other Mixed Upland Deciduous	Poletimber Medium	9.9	47	51-80	The oak in this stand are looking like they will mature to have medium quality sawlogs. The aspen occur in pockets. The aspen and oak are doing well and the red maple are mostly suppressed.
29	42210 - Natural Red Pine	Sawtimber Well	0.5	100	111-140	This is a line of naturally grown red pine on an upland lowland edge.
30	4131 - Aspen, Oak	Poletimber Well	66.2	51	51-80	There are rolling hills throughout. There is trace cedar.
31	4125 - Black, N. Pin Oak	Sawtimber Well	4.3	103	81-110	There is still heavy browse on some of the regeneration in this stand but most of the regeneration is now past browse height. The oak are of low to medium quality and are healthy.
32	6120 - Lowland Cedar	Poletimber Well	20.0	113	141-170	The BA is highly variable throughout the stand as is the DBH of the cedar. The dense balsam fir is difficult to walk in many areas. This stand is too wet to harvest. The forest floor is moss covered throughout.
33	4130 - Aspen	Poletimber Well	11.4	47	1-50	This stand was likely cleared of aspen, birch, oak, and red maple in 1971 based on what could be deciphered from old timber records. That would put the stand age at 47 as of 2018. The age was verified in the stand. (OPIC - FMD: Ridge in swamp, gas pad at end. Some red pine in o.s.)
34	4130 - Aspen	Poletimber Well	19.9	45	51-80	The pine are more dense in the west end of the stand, but they are relatively sparse throughout. There is a very sparse amount of log sized oak in this stand and they are spread out. Access to this stand would have to be through private land with granted permission.
36	4125 - Black, N. Pin Oak	Sawtimber Well	15.6	104	81-110	Most of this stand is on the side of a northern aspect slope with some western aspect at the west end. Some of the stand is likely to steep to harvest using standard harvesting machinery.
37	6120 - Lowland Cedar	Poletimber Well	5.3	136	141-170	This stand is too wet to harvest. OPIC - FMD: SAWLOG CEDAR IN COUPLE AREAS. Some W.P. in overstory.
38	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	18.4	59	111-140	2020 YOY BA Measurements: (190, 90, 150, 100, 250, 150). This stand was machine planted to red pine at 700 red pine per acre in the fall of 1959. In 2018 an 11" DBH red pine gave an age of 53; 6 years younger than the planting date suggests. There are inclusion pockets of mixed upland forest at the north and south ends of the stand. OPIC - FMD: -third row thin completed 2/2014- Morning Star Pine 54-018-12-01. res ba was estimated, no actual record found in sale docs.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4130 - Aspen	Sapling Well	29.1	24	Immature	<p>The western half of the stand is less diverse being dominated by aspen with red maple. The eastern half of this stand is somewhat more diverse with some hybrid oak, white oak, and and white pine, but still dominated by aspen. This stand is on the verge of growing into pole timber size. This stand looks fairly healthy.</p> <p>This stand was harvested in 1994 with Timber Sale Name: Morningstar - Once Removed; Timber Sale Number: 54-032-92-01.</p> <p>(OPIC - FMD: A3 WITH AN O2 UNDERSTORY. RDR, hill climb, 024-54-60-07)</p>
40	4122 - Oak, Pine	Sawtimber Well	86.6	103	81-110	<p>The dominance of red pine varies in the canopy throughout this oak stand. Scattered and sparse legacy red pine are present. A majority of the regeneration has not made it past browse height due to heavy deer browsing. Based on adjacent areas that were clear-cut, the regeneration will eventually make it past browse height to form a medium to well stocked stand. The oak regeneration will suffer due to it being preferred browse. 2018 YOE Inventory BA Measurements: (90, 80, 100,</p> <p>All of the aspen and red maple as well as marked trees were harvested from this stand from 2011-2015 as part of Timber Sale Name: Big Time Oak; Timber Sale No. 54-009-10-01. The residual BA could not be found in the documentation.</p> <p>In 2002, 7.8 acres of full and partial 1.3 acre five spot squares were clear cut with all oak and pine regeneration protected. There is a total of 8 locations that make up these 7.8 acres. This was Timber Sale Name: Darach Morning Star; Sale Number: 54-031-00-01. The regeneration in these five spot locations is substantially farther along than the regeneration throughout the rest of the stand that was harvested 9 to 13 years later.</p>
41	4125 - Black, N. Pin Oak	Sawtimber Poor	23.0	103	1-50	<p>2018 YOE Inventory BA Measurements: (60, 30, 60, 30, 40). Scattered legacy red pine are present. The regeneration is somewhat sparse in pockets. There is a pocket more dominant to white pine in the northwest. Oak regeneration is somewhat less than desirable but there is some present. The white oak regeneration did better than the hybrid oak regeneration. The hybrid oak regeneration was browsed heavily at the stumps. It appears that most of the hybrid oak regeneration died due to oak browsing over a series of years.</p> <p>All of the aspen and red maple as well as marked trees were harvested from this stand in 2014 as part of Timber Sale Name: Big Time Oak; Timber Sale No. 54-009-10-01. The residual BA could not be found in the documentation.</p>
42	4130 - Aspen	Sapling Well	14.6	24	Immature	<p>This is a healthy aspen stand. Stem exclusion is taking place in this stand. This will be growing into pole stand size soon. This stand was harvested in 1994 with Timber Sale Name: Morningstar - Once Removed; Timber Sale Number: 54-032-92-01.</p>
43	4131 - Aspen, Oak	Poletimber Well	2.9	45	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4131 - Aspen, Oak	Poletimber Well	23.1	42	51-80	There are some pockets in the southern portion of this stand that are more oak dominant. Scattered legacy red pine are present. The stand generally looks healthy.
45	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.7	92	81-110	This is mostly poor quality large crowned oak. Aspen are mostly present in pockets.
47	6120 - Lowland Cedar	Poletimber Poor	10.1	80	1-50	The following comments are taken from Stand 50 to the southwest which looks very similar to this stand in the 2014 CIR imagery: Most of the log and pole sized tamarack are dead. The cedar stayed alive. The cedar are mostly in pockets with sapling tamarack and scattered pole sized tamarack filling in the gaps.
49	4130 - Aspen	Poletimber Well	1.1	47	51-80	Due to lack of access a remote call was made on this stand. The aerial imagery for this stand looks like that of stand 6. Therefore the remote call made on this 1 acre was based on stand 6 data
50	6120 - Lowland Cedar	Poletimber Poor	4.6	80	1-50	Most of the log and pole sized tamarack are dead. The cedar stayed alive. The cedar are mostly in pockets with sapling tamarack and scattered pole sized tamarack filling in the gaps.
51	4199 - Other Mixed Upland Deciduous	Poletimber Well	5.1	102	81-110	This stand must have been thinned in 1975 based on the pole sized aspen, red maple, and oak in the overstory.
52	42290 - Natural Mixed Pine	Sawtimber Well	1.0	150	201+	The red pine and white pine in this stand are very tall. This is a unique stand for the area.
53	4130 - Aspen	Sapling Well	10.3	6	Immature	Scattered mature oak, white pine, and red pine were retained during the last harvest. The retained red pine are of the Legacy type. This stand was harvested with the exception of oak, and some pine in 2012 as part of Timber Sale Name: Finally Aspen; Timber Sale No. 54-001-11-01.
55	4130 - Aspen	Poletimber Well	12.3	46	81-110	There is suppressed balsam fir in the canopy throughout that is topped by the aspen so it does not all translate to the canopy data.
57	6120 - Lowland Cedar	Poletimber Well	2.8	113	141-170	This stand is too wet to harvest.
58	42210 - Natural Red Pine	Sawtimber Well	1.5	81	111-140	The northwest corner of the stand is treed bog. The southern 2/3 of the stand has forest floor covered with sphagnum moss. The eastern edge of the stand is upland. This stand makes for a nice diversity pocket.
62	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	1.2	35	1-50	This stand seasonally floods. The trees are stunted due to a high water table



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4126 - White, Black, N. Pin Oak	Sawtimber Medium	52.5	83	51-80	A 12" and a 15" DBH hybrid oak both aged at 80+3 = 83 years of age. Based on the marked sale the prescribed shelterwood will leave 10-50 BA of hybrid and white oak. OPIC - FMD: Mix of oak, aspen and jack pine, aspen is small in spots and mature in others. OAK REGENERATION CAN BE 6' TO 10' HIGH AND IS OFTEN TOO THICK TO DRIVE AN ELAN THROUGH. Winter harvest to protect understory. Any mix of regeneration is acceptable. Leave retention closer to the old campground. Burn after harvest.
64	6112 - Lowland Aspen	Sawtimber Well	6.5	56	81-110	This stand has two wide vernal ponds at both ends with a narrowing lowland vernal pond type area that stretches the length of the stand connecting the wider vernal ponds at the ends.
65	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	2.3	45	51-80	
66	6122 - Black Spruce	Poletimber Well	5.3	65	81-110	This stand is too wet to harvest.
69	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	17.3	79	141-170	The cedar look healthy. A majority of the stand has an open understory. This stand is too wet to harvest.
70	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.9	45	81-110	This is a healthy aspen stand with a consistent layer of suppressed balsam fir in the understory of the northern third of the stand. Mature oak were retained in the central region of the stand where there is suppressed red maple in the understory and little aspen.
71	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	1.1	38	1-50	
72	4131 - Aspen, Oak	Sawtimber Well	57.1	51	81-110	The aspen are healthy as is the stand overall. Legacy red pine are scattered throughout. To the west in the stand the oak tend to have an average DBH of around 12 inches. The eastern and norther portions of the stand tend to have the larger oak.
73	4125 - Black, N. Pin Oak	Sawtimber Poor	28.2	104	1-50	As can be seen from the imagery, this stand is a combination of inclusion pockets. Dense aspen regeneration pockets can be found throughout the oak and pine that were retained at shelterwood densities during the last harvest. The regeneration in this stand is adequate and best where the heaviest harvesting was done. Where the harvesting was light there remains pole to sapling sized oak and pine that was advanced regeneration from pre-harvest. A layer of sedges grass covers the forest floor. The oak shelterwood harvest of this stand was completed on 6/17/15. Timber Sale Name: Quercus Basura; Timber Sale No. 54-008-10-01. All aspen, jack pine, and red maple were harvested along with marked trees. All red pine and white pine retained.
74	42110 - Planted Red Pine	Sawtimber Medium	0.8	85	141-170	This is retention from the harvest to the east.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	4131 - Aspen, Oak	Sawtimber Well	13.1	99	141-170	This is a hilly stand with some slopes being borderline too steep for harvest. There is a sparse amount of legacy type red pine in the overstory. The oak and the aspen grew together after the last harvest. Coring verified that the oak and the aspen are the same age.
77	4130 - Aspen	Poletimber Poor	8.6	56	81-110	This is a healthy aspen stand. The understory is mostly open.
78	4125 - Black, N. Pin Oak	Sawtimber Medium	13.6	103	51-80	This stand was thinned down to 54 BA by harvesting all aspen, red maple, and marked trees from 2012-2014 as Timber Sale Name: Small Time Oak; Timber Sale No. 54-026-10-01. The latest inventory shows that some red maple were missed during the last harvest.
79	6120 - Lowland Cedar	Sawtimber Well	0.1	97	171-200	
80	6120 - Lowland Cedar	Poletimber Well	4.0	96	111-140	This stand has a mostly open understory. The cedar are healthy.
81	4130 - Aspen	Poletimber Well	13.9	27	1-50	OPIC - FMD: Mix of A3 and P3.
82	6120 - Lowland Cedar	Sawtimber Well	0.8	119	111-140	
83	6139 - Mixed Lowland Forest	Sapling Well	2.1	28	1-50	This is a windthrown cedar/aspen stand that is know a sapling stand as a result. There are scattered log sized aspen and cedar in the overstory. The ash are dying at about 2" in DBH due to EAB.
84	4126 - White, Black, N. Pin Oak	Sawtimber Well	3.6	96	1-50	This stand was harvested in 2012 as part of Timber Sale Name: Finally...Aspen; Timber Sale No.: 54-001-11-01. Oak were not harvested during this sale. Some retention was to left along County Road 489. There are portions of the stand that went unharvested during the last cut at the east end of the stand and along County Road 489.
87	4125 - Black, N. Pin Oak	Sawtimber Well	7.4	84	81-110	There is trace amounts of white pine and red pine in the overstory. OPIC - FMD: DNR RADIO TOWER ON OLD FIRE TOWER SITE. SCATTERED RED PINE SAW TIMBER ALONG RIDGETOPS. MOST, BUT NOT ALL RIVINES HAVE TRAILS(snowmobile and township ski trail). NOT GREAT LOGS TREE.
88	6127 - Lowland Pine	Sawtimber Well	2.4	97	111-140	This is a unique natural white pine stand. There is no substantial high ground in this stand. This stand is too wet to harvest.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
89	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	2.6	77	81-110	This stand is long term retention. There are red pine and white pine legacy trees in this stand. Some of this stand was supposed to be harvested with the timber to the east but the producer dropped the sale and timber along the edge of the retention did not get harvested. Within this unharvested piece there was very little volume designated for harvest making its retention acceptable. (Old Compartment Review Retention Details: Retention should be adjacent to stand 4, leaving a mix of conifer, aspen and oak. Any mix of regeneration is acceptable. Leave retention around and near to stand 4.)
90	4130 - Aspen	Sawtimber Well	5.8	73	81-110	This stand is overdue for harvest. It was prescribed for a restart during the 2010 YOY, but it was never harvested.
91	4130 - Aspen	Sapling Well	7.3	43	51-80	This is a healthy aspen stand. There are a couple legacy red pine present. The oak are of medium to high quality and should produce good acorn mast some years.
93	4125 - Black, N. Pin Oak	Sawtimber Well	1.6	92	111-140	The oak regeneration is heavily browsed. The location of this stand, on a ridge top, makes it somewhat hard to reach for harvest. This stand may be a good candidate for long term retention in the future.
95	4130 - Aspen	Sapling Well	8.9	5	1-50	The age found in the stand contradicts the harvesting records. Scattered pole/log sized oak and white pine were retained during the last harvest. The BA of the residual trees post harvest was less than 10 square feet throughout most of the stand. All of the aspen and red maple as well as marked trees were harvested from this stand from 2014-2015 as part of Timber Sale Name: Big Time Oak; Timber Sale No. 54-009-10-01. The residual BA could not be found in the documentation.
96	4310 - Pine, Oak Mix	Sawtimber Well	1.3	61	81-110	Sparse legacy oak and red pine are present. This stand is somewhat of a diversity pocket that has seen mixed management. A couple very large legacy oak are dead. The cause looks like age and not oak wilt, but another look will be taken to verify.
97	4130 - Aspen	Sawtimber Medium	6.4	75	51-80	
99	429 - Mixed Upland Conifers	Sawtimber Well	3.3	62	81-110	This stand is not likely to be harvested due to access issues. There is a half acre quaking aspen inclusion pocket along the western edge of the stand.
103	4130 - Aspen	Poletimber Well	1.8	61	51-80	The aspen in this stand are dying and falling out of the canopy. There are a couple white pine in the overstory. OPIC - FMD: PLANTED A COUPLE ROWS OF JP ALONG LAKE 15 CAMPGROUND ROAD 1978
104	4125 - Black, N. Pin Oak	Sawtimber Well	5.0	92	81-110	OPIC - FMD: DNR RADIO TOWER ON OLD FIRE TOWER SITE. SCATTERED RED PINE SAW TIMBER ALONG RIDGETOPS. MOST, BUT NOT ALL RIVINES HAVE TRAILS(snowmobile and township ski trail). NOT GREAT LOGS TREE.
109	4134 - Aspen, Spruce/Fir	Sawtimber Medium	3.9	61	51-80	Balsam fir is consistent throughout the canopy in a suppressed position.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
110	6121 - Tamarack	Poletimber Well	7.5	65	81-110	This is a health stand of tamarack. Pockets of lowland shrub can be found along the southeast edge.
112	4130 - Aspen	Sawtimber Well	16.3	70	51-80	
113	6124 - Lowland Spruce- Fir	Poletimber Well	4.8	74	81-110	This stand is too wet to harvest. A 4-5' wide creek flows through the southern portion of the stand.
114	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	4.7	43	51-80	The jack pine in the stand aged at 43 years. Some of this stand is planted to jack pine and other parts are natural jack pine. There are two aspen inclusion pockets in this stand to the northwest. (OPIC- FMD: PLANTED A COUPLE ROWS OF JP ALONG LAKE 15 CAMPGROUND ROAD 1978 - on the north side of the road.)
116	6122 - Black Spruce	Sawtimber Well	12.5	85	141-170	This stand is too wet to harvest. The forest floor is covered with moss throughout. The understory balsam fir is very dense in places.
117	4125 - Black, N. Pin Oak	Sawtimber Well	7.0	102	81-110	This is mostly low quality oak wity some medium quality oak in the western third.
118	6120 - Lowland Cedar	Sawtimber Well	5.0	97	171-200	This stand is too wet to harvest.
119	4125 - Black, N. Pin Oak	Poletimber Well	6.3	47	81-110	OPIC - FMD: OI Stand Year Origin was 1971
121	4130 - Aspen	Sawtimber Well	17.0	70	51-80	The red pine is well spread out in the stand. OPIC - FMD: Steep slopes, Some oak saw timber in overstory.
124	4125 - Black, N. Pin Oak	Sawtimber Well	44.4	103	81-110	This stand has an open park like understory. The hybrid oak are of poor quality. This is a very low quality soil site. The slope is to steep to harvest in areas. Regeneration and erosion are of concern in the areas with a dry western and/or southern aspect. The quality of the timber and the amount of understory growth increases on steep northern aspects where soil moisture is at a premium.
125	4199 - Other Mixed Upland Deciduous	Poletimber Medium	24.9	50	81-110	2020 YOE BA Measurements (100, 70, 130, 120). This stand has mostly rolling hills. There is minimal area, if any, that slope would prevent harvesting on. The steeper slopes are generally short making trees reachable from above and below with modern harvesting equipment. This stand is very consistent in its canopy species distribution throughout. The oak and aspen grew together and the oak tend to be of slightly larger diameter than the aspen. Most of the white oak are trees that were retained during the last harvest and therefore are of larger diameter. Some scattered hybrid oak were also retained at the previous harvest. The oak are of medium to high quality, and the stand as a whole is evidence to better than average soil quality.
127	4125 - Black, N. Pin Oak	Sawtimber Well	11.3	102	51-80	This is an older somewhat low density park like stand. There is a drainage running through the east end of the stand. The red pine is concentrated at the east end, east of the drainage.

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Atlanta Mgt. Unit

Report 7 – Forested Stands

Compartment: 22
Year of Entry: 2020



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
134	4310 - Pine, Oak Mix	Sawtimber Poor	12.5	68	1-50	This stand is open and park like. The low volume and poor quality of the open grown timber make it undesirable for harvest. Pockets of pole sized hybrid oak and pockets of pole sized shrub like black cherry trees are present. The age and size of trees within species is highly variable. The age of this stand was taken from a 15" DBH red pine.
136	42340 - Upland Spruce/Fir	Poletimber Poor	3.3	62	51-80	The BA is highly variable. The eastern end of the stand is more open, but this stand has open pockets throughout.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	622 - Lowland Shrub	1.1	No	OPIC - FMD: along Ryan Rd.
16	623 - Emergent Wetland	0.3	No	This is a cattail filled water hole with shrub around the edge.
22	330 - Low-Density Trees	19.8		C54-942 Burned on 11/8/2011 Trenched on 8/15/2012 Original Planting on 5/14/2013 Herbicide Application on 8/20/2014 Retrench 8/4/15 New Planting: 4/25/2016 at 989 RP/ac; Actual 933 RP/acre from plot data Replanted: 4/29/2017 stocking = 1124 RP/ac; Actual 1,124 RP/ac per plot data
25	6220 - Alder/willow	1.0	No	This stand is a 50-50 mix of tag alder and swamp type grass.
28	122 - Road/Parking Lot	2.2	No	
35	500 - Water	2.7	No	Morning Star Lake
46	790 - Other Bare/Sparsely Vegetate	1.6	No	Grass was planted but is sparsely coming in. Planted grass is helping control erosion. Area is bowl shaped. OPIC - FMD: SAND PIT. SNOWMOBILES AND ORVS CAUSING EROSION AS THEY CLIMB TO DNR TOWER ON EAST SIDE OF PIT. RDR 027-54-60-07
48	500 - Water	2.4	No	This is the Thunder Bay River.
54	500 - Water	5.8	No	This is the wide part of Crooked Creek.
56	122 - Road/Parking Lot	3.9	No	OPIC - FMD: Ryan Road
59	6225 - Bog	0.3	No	
60	6230 - Cattail	0.2	No	This is cattail over marsh grass with scattered tamarack saplings.
61	622 - Lowland Shrub	1.4	No	This stand is lowland shrub with pole and log sized cedar, balsam poplar, tamarack, and balsam fir scattered throughout.
67	3102 - Grass	0.3	Yes	OPIC - FMD: Small stand two track closed.
68	3102 - Grass	1.3	No	OPIC - FMD: WELL SITE IS D3-27
76	122 - Road/Parking Lot	14.0	No	OPIC - FMD: County Road 489



Stand	Cover Type	Acres	Managed Site	General Comments:
85	3102 - Grass	0.6	Yes	
86	3102 - Grass	0.7	No	This is a small grassy opening with scattered white oak saplings and pockets of raspberry.
92	3102 - Grass	0.9	No	This is an oil well site. There were a couple sapling scotch pine present that were cut down during inventory.
94	622 - Lowland Shrub	0.7	No	This stand is a mixture of lowland shrub, cattail, and water..
98	623 - Emergent Wetland	8.6	No	There are creeks flowing into the stand from the east and the south both having old beaver dams slowing the flow of the water, causing pooling, and widening the stream bed. The eastern arm of the stand is blown down cedar/lowland conifer. The major body of the stand is flooded and marsh like with dead trees killed by the standing water.
101	622 - Lowland Shrub	1.1	No	Even though the canopy of mostly red maple reaches slightly over 25%, for management purposes, this is lowland shrub.
102	500 - Water	6.8	No	OPIC - FMD: LAKE 15
105	622 - Lowland Shrub	1.6	No	This stand is a mix of lowland shrub and tamarack. The tamarack are more dominate in he northern third of the stand. OPIC - FMD: CEDAR AROUND SOUTH END OF LAKE 15. Boat access site.
106	330 - Low-Density Trees	1.3	No	This stand has scattered shrub like black cherry trees and scattered sapling to pole sized oak.
107	500 - Water	2.0	No	Observation made in the center of stand 32: The creek varies between 30-40 feet wide in places. The bottom is sand with silt gathered along its edges.
108	622 - Lowland Shrub	2.3	No	Between Stand 52 there is a small upland herbaceous pocket. The rest of this stand is lowland shrub/marsh.
111	3301 - Low Density Deciduous Tree	5.2	No	This stand is mostly taller shrub like cherry trees that will not be long lived. There is a scattering of oak of all sizes. This a borderline forested stand as the canopy cover approaches 25%. This is not a stand that is desirable for harvest.
115	3209 - Upland Shrub (OI)	3.1	No	This could be called upland shrub, grass, or low intensity trees. The shrubs are black cherry, the ground is covered in sedges grass, and there are scattered log/pole sized oak and red maple.
120	3303 - Mixed Low Density Trees	1.1	No	This stand is low density pine and oak in most areas and it has areas that are treeless upland herbaceous. In 1980 this stand was cleared of trees and planted to grass as part of an effort to increase the amount of grass cover type in Quarter Township.(OPIC - FMD: Access through L-type in past.)



Stand	Cover Type	Acres	Managed Site	General Comments:
123	622 - Lowland Shrub	0.7	No	This is lowland shrub with scattered trees.
128	3301 - Low Density Deciduous Tree	1.1	No	A remote call was made on this 1 acre stand. A visit will need to be made at a later date to take an inventory of this stand.
137	3303 - Mixed Low Density Trees	2.1	No	This stand is low density pine and oak in most areas and it has areas that are treeless upland herbaceous. In 1980 this stand was cleared of trees and planted to grass as part of an effort to increase the amount of grass cover type in Quarter Township.(OPIC - FMD: Access through L-type in past.)
173	3102 - Grass	2.3	No	This is a pocket of grass and low intensity trees with Ryan Road and some forest road running through it. The jack pine OPIC - FMD: PLANTED A COUPLE ROWS OF JP ALONG LAKE 15 CAMPGROUND ROAD 1978
405	3102 - Grass	1.2	No	OPIC - FMD: WELL SITE B1-23, old camper along edge.
406	3102 - Grass	0.9	No	OPIC - FMD: WELL SITE IS B2-22 (WOLVERINE)
409	3102 - Grass	4.4	No	In 1980 this stand was cleared of trees and planted to grass as part of an effort to increase the amount of grass cover type in Quarter Township. (OPIC - FMD: Old pick-up camper along south edge.)
410	31029 - Grass (OI)	1.0	No	OPIC - FMD: WELL SITE.
413	3102 - Grass	1.1	No	OPIC - FMD: WELL SITE. ON NORTH-WEST EDGE OF STAND 9.
415	3102 - Grass	1.6	No	OPIC - FMD: WELL SITE.
417	3102 - Grass	1.0	No	OPIC - FMD: WELL SITE. A4-27
419	3102 - Grass	0.9	No	OPIC - FMD: WELL SITE. A2-27
423	3102 - Grass	9.2	No	OPIC - FMD: Power Line, ORV activity, bermed in several locations (breached). L type in the north.
424	3105 - Mixed Upland Herbaceous	3.1	Yes	Gas well at south end. (State Briley B2-27)
426	3102 - Grass	1.3	No	OPIC - FMD: WELL SITE. INTERIOR TO STAND 12, NEAR NORTH END OF STAND 26. B3-27
427	3102 - Grass	0.8	No	OPIC - FMD: WELL SITE. C4-27



Stand	Cover Type	Acres	Managed Site	General Comments:
428	3102 - Grass	1.0	No	OPIC - FMD: WELL SITE IS D1-26, WOLVERINE.
430	3105 - Mixed Upland Herbaceous	4.0	No	The little reproduction that was present was cleared in 1976 to create and maintain as a wildlife opening. Numerous other small openings (1 to 1.5 acres) were created (to the north) at the same time that don't seem to have lasted.
432	3102 - Grass	6.4	Yes	There are scattered log sized oak along the field edges. OPIC - FMD: Maintained in past, oak.
433	3102 - Grass	1.2	No	OPIC - FMD: WELL SITE. IN STAND 33
441	3102 - Grass	0.6	No	This is an oil well site.
463	31029 - Grass (OI)	1.0	No	OPIC - FMD: WELL SITE B4-22
472	3102 - Grass	1.1	No	OPIC - FMD: WELL SITE.