



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54025

Entry Year 2023

Acreage: 1,696

County Montmorency

Management Area: Avery Hills

Revision Date: 2021-05-20

Stand Examiner: Dale Parris

Legal Description:

T30N R03E Sections 5, 6, 19, 20, 30, 31, and 32

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 most prevalent covertypes in the AHMA for the 2023 Year of Entry (YOE) are the aspen, lowland conifer, oak, and northern hardwood covertypes. As such, for the purpose of balancing the age class acre distributions of these covertypes across the Management Area (MA), forest management during the 2023 YOE in the AHMA will focus on these covertypes. Wildlife, recreation, aesthetics, adjacent stands and the larger landscape were considered in all management decisions.

Soil and topography:

To the north, off of Hungry 5 Road, Compartment 25 has two parcels of land totaling approximately 150 acres. The uplands are dominated by the Millersburg-Klacking-Graycalm complex (well drained, well drained, somewhat excessively drained, respectively) and areas of Graycalm sand only. These uplands are characterized by slightly to moderately rolling hills. The lowland areas are comprised mostly of the poorly drained Wakeley muck and Histosol - Aquent soils.

The other 4 polygons of land (totaling approx. 1,500 acres) that make up the remainder of Compartment 25 are south of M32 and a couple miles southeast of downtown Atlanta. These areas are mostly upland and are similar in soil composition. The topography of these uplands is slightly rolling to rolling hills with moderate slopes. Only a few small acreage pockets of lowland are present. The upland soils in these 4 polygons are Klacking sand (well drained), Graycalm sand (somewhat excessively drained), and losco sand (somewhat poorly drained). The sparse lowland areas are dominated by the very poorly drained Tawas-Luption muck and Deford muck (poorly drained).

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.

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

Compartment 25 is surrounded by private land on all sides. Most of this property is large acreage recreational property with and without residential homes. Downtown Atlanta, MI is to the west of Compartment 25 that has parcels north and south of M32.

Unique Natural Features:

Aside from its natural beauty, Compartment 25 does not have and Unique Natural Features that stand out. Aspen is the most dominate covertype in Compartment 25. Oak is the second most dominate covertype. A variety of other small acreage pockets of mostly upland covertypes make up much of the remaining acreage. Sparse lowland pockets are present. Oil well pads are scattered throughout the landscape.

Archeological, Historical, and Cultural Features:

The State Historic Preservation Office (SHPO) did not have areas of concern within Compartment 25.

Special Management Designations or Considerations:

The Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website had record of 7 species historically being in and near Compartment 25 that require consideration when implementing forest management strategies. These species are the Red-shouldered hawk (*Buteo lineatus*; state threatened species), Wood turtle (*Glyptemys insculpta*, state special concerns species), Pickerel frog (*Lithobates palustris*, state special concerns species), Blanding turtle (*Emydoidea blandingii*, state special concerns species), Common loon (*Gavia immer*, state threatened species), Bald eagle (*Haliaeetus leucocephalus*; state special concerns species), and Ram's head lady slipper, also called ram's head orchid (*Cypripedium arietinum*, state special concern species).

The Natural Heritage Database (NHD) had no record of Ecological Reference Area (ERA), Special Conservation Area (SCA) or High Conservation Value Area occurrences in Compartment 25.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits are in the vicinity, but there is sand & gravel potential in the compartment on the uplands. Surface mine development could be limited due to oil & gas infrastructure (well pads and pipelines). This area has been developed for and is producing gas from the Antrim Shale. All State-owned mineral rights are currently leased and held by production. Due to the persistent low price of natural gas, there is unlikely to be any additional Antrim development in the compartment in the near future, and there does not appear to be significant potential for hydrocarbon production from other proven formations. There is no known metallic mineral potential in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

The northern 150 acres of Compartment 25 north of M32 is accessible via Hungry 5 Road and Twin Lakes Trail. The southern 1,500 acres of the compartment has good access from County Road 487 and the system of county roads in the area. Forest trails on state land that branch off these county roads will take hunters and recreationalists to within a reasonable walking distance of most areas within Compartment 131 that are south of M32.

Survey Needs:

For the purpose of conducting timber sales and maintaining legal private/state land boundary posting locations, there may be a need for property line surveys within Compartment 25. Further investigation will be needed to determine the extent to which these surveys are required.

Recreational Facilities and Opportunities:

Hunting opportunities are available within Compartment 25 in season with a valid license. Wildlife viewing opportunities are also present. Snowmobile trail 4/9 runs through Compartment 25 in the central parcels southwest of the City of Atlanta, MI. All regulations set forth by the Michigan Department of Natural Resources are to be adhered to by hunters and recreationalists.

Fire Protection:

In the case of a wildland fire, response to Compartment 25 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:

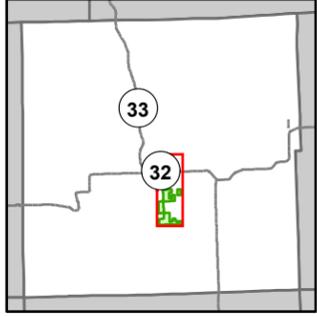
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

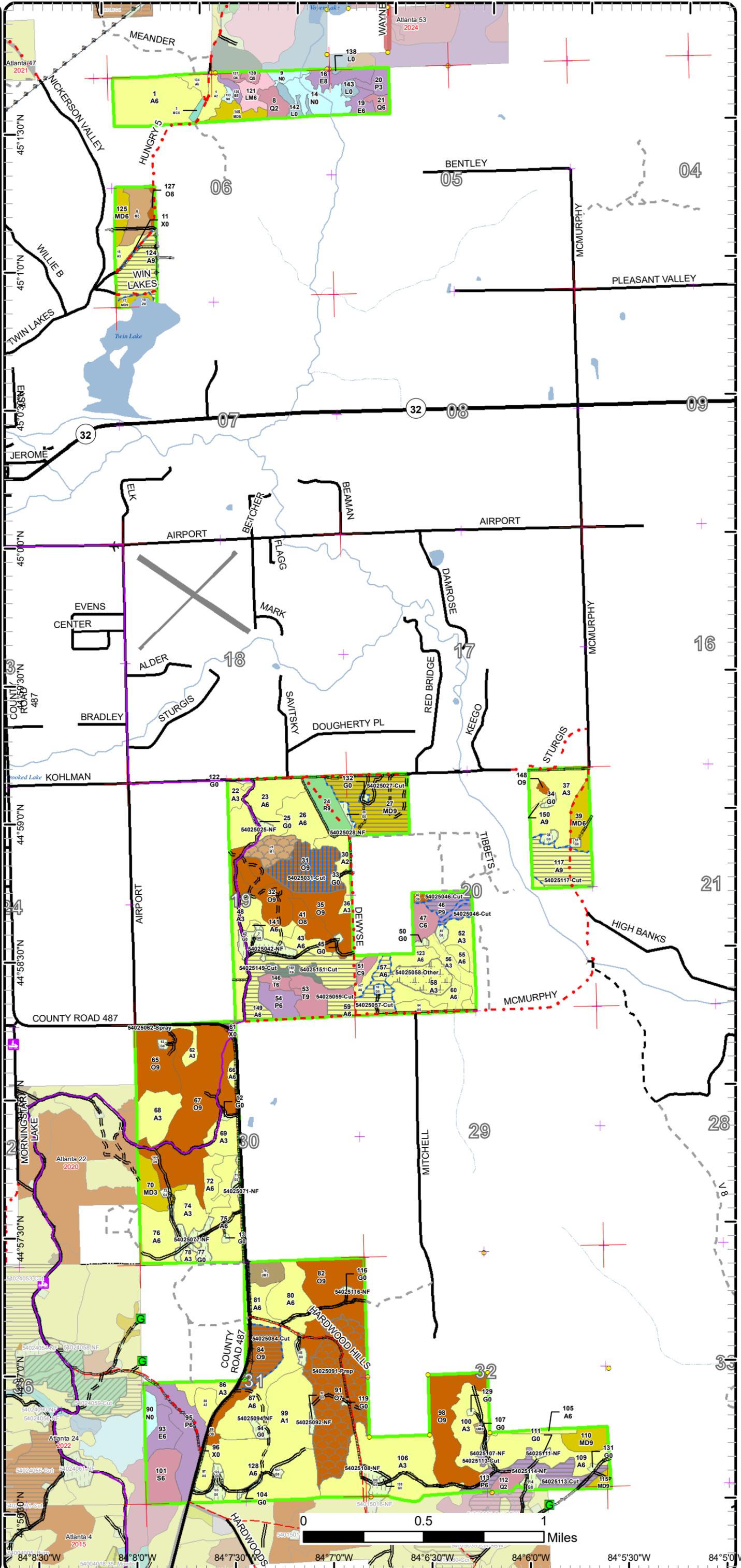
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 25
 T30N, R03E, Sec. 5, 6, 19, 20, 30-32
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Avery Hills
 YOE: 2023
 Acres: 1696.4 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 10/7/2021
 Map Phase: Post-Review

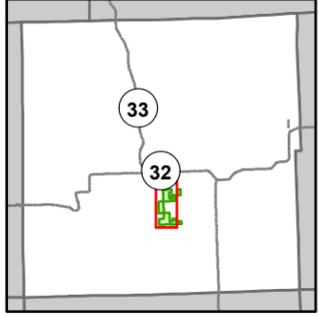


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Designated Snowmobile Trails
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Airport
- Gate
- Bridges
- Pipeline
- Powerline
- Fence
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 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
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

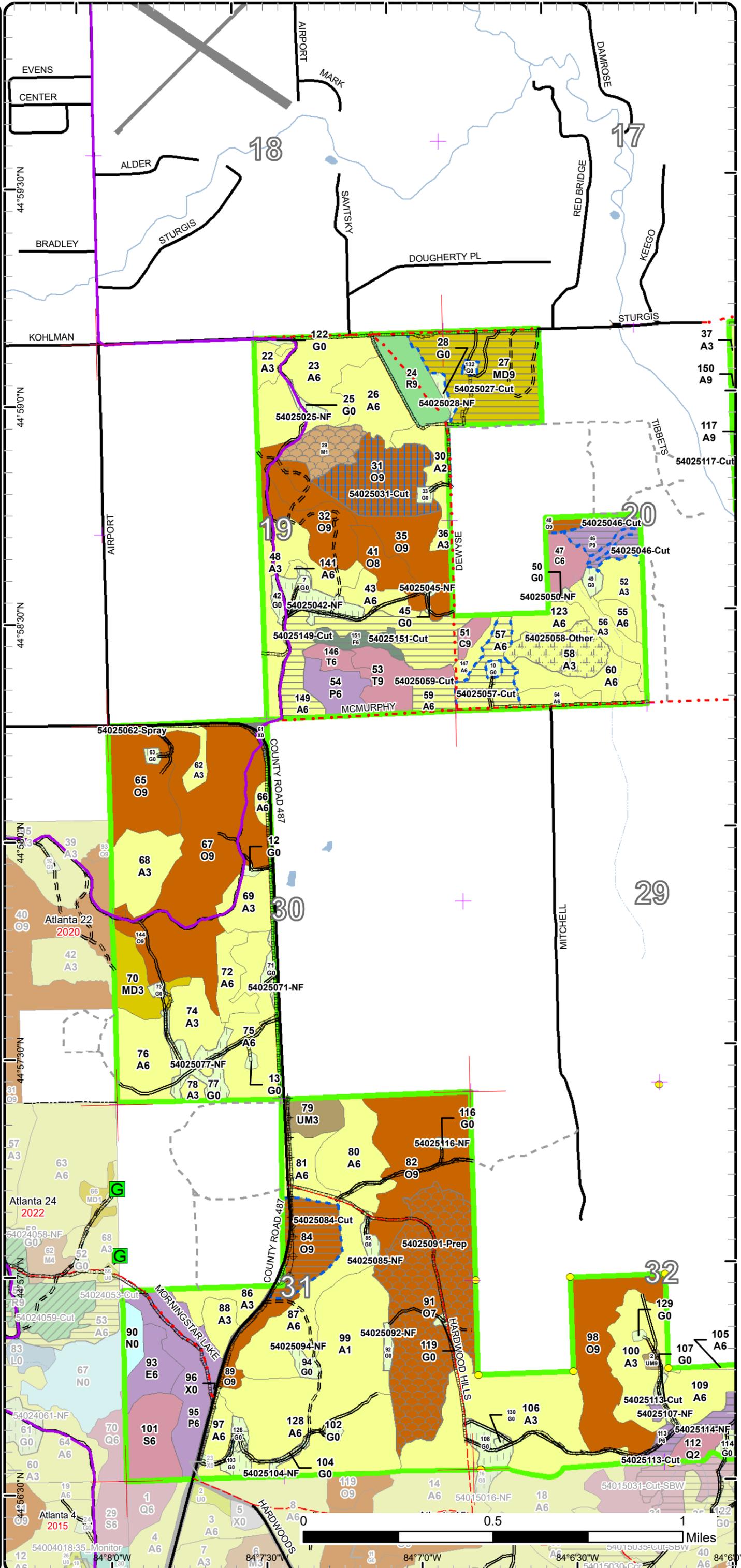


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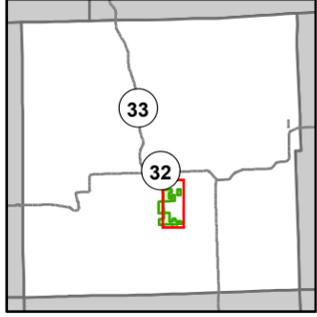


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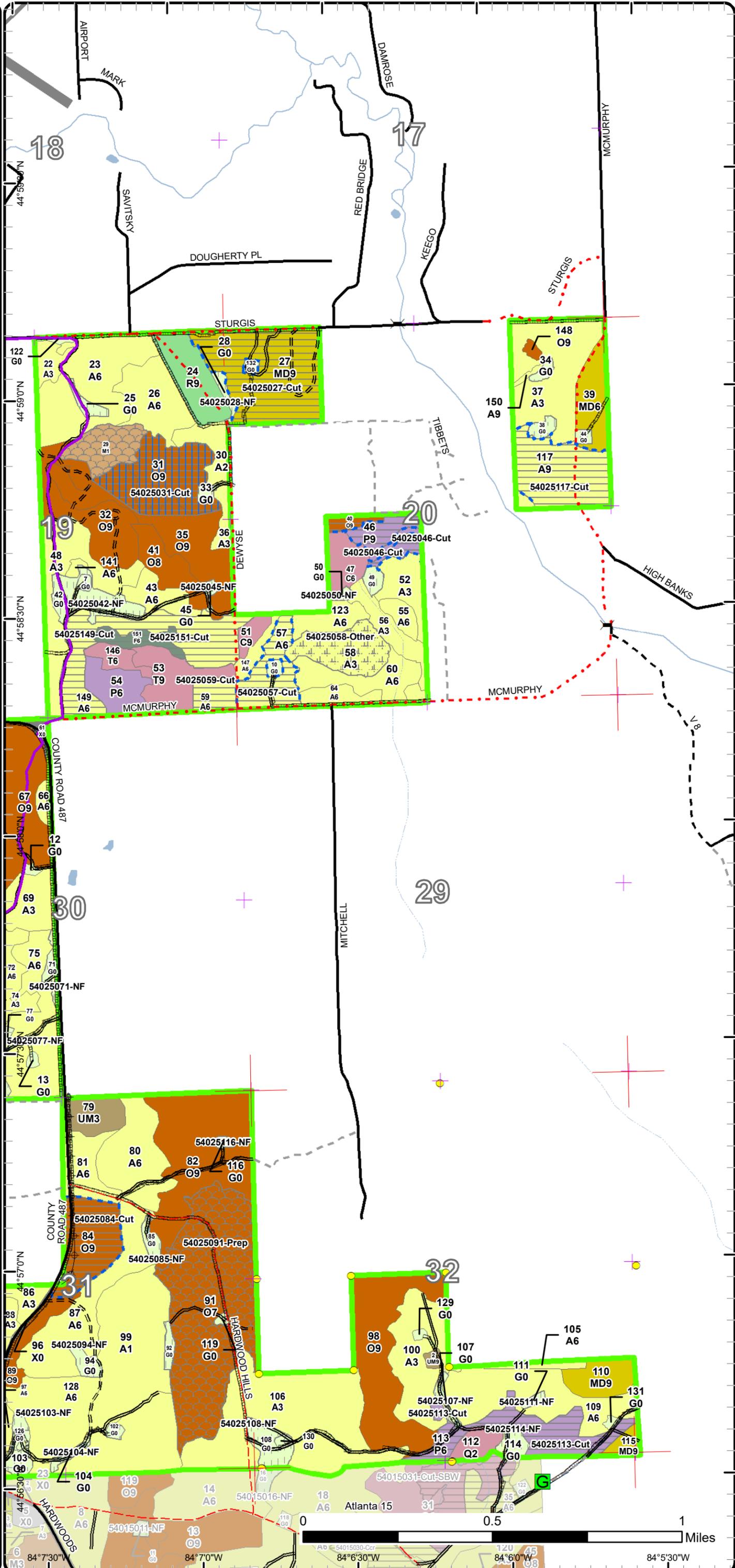


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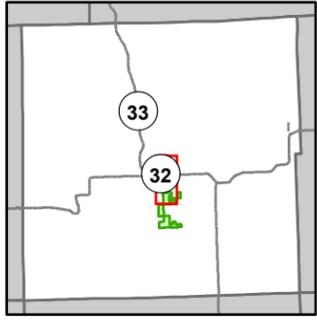
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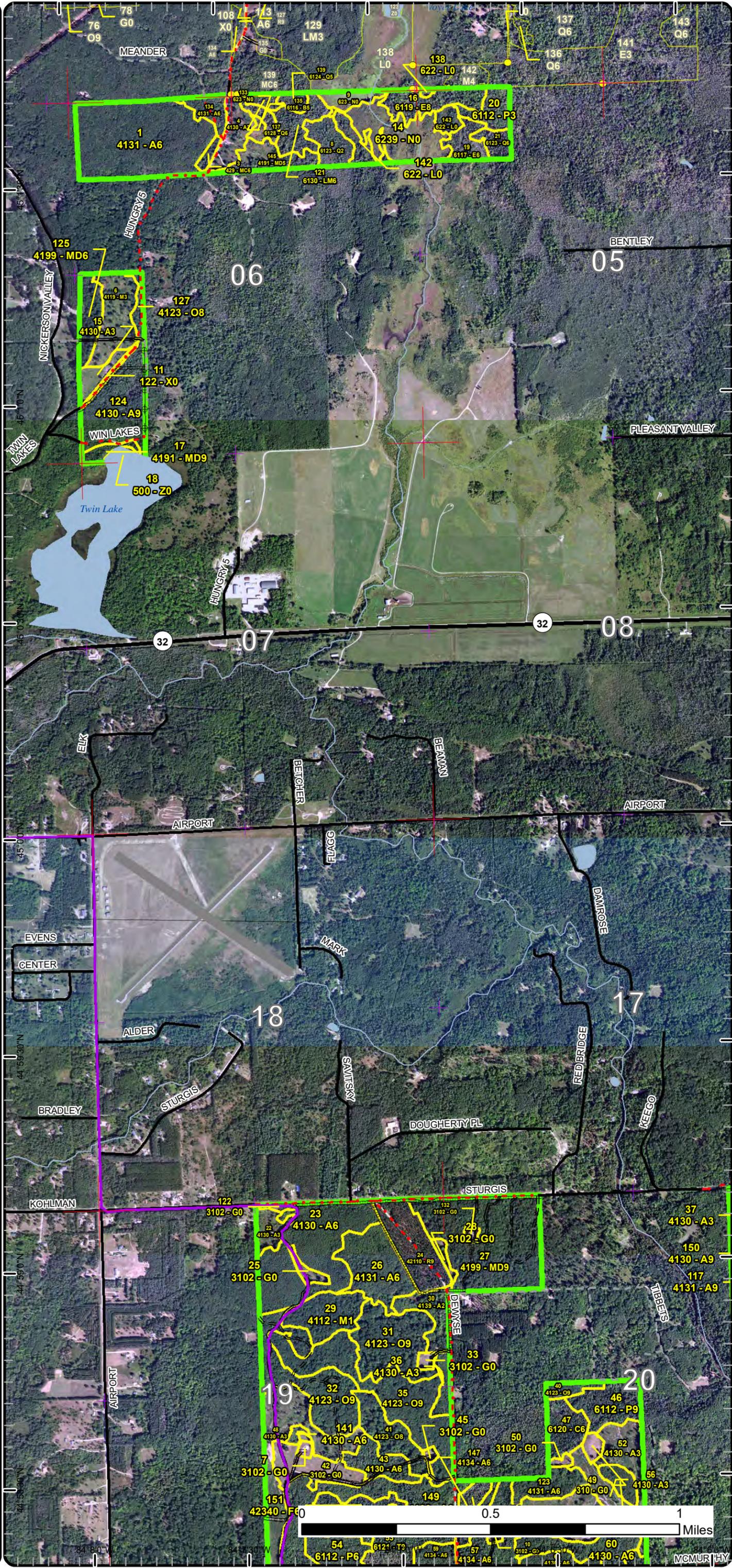
84°7'30"W 84°6'30"W 84°6'0"W 84°5'30"W

Stand Boundary Map

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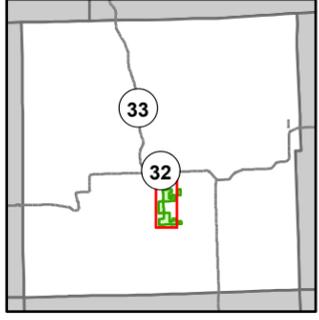


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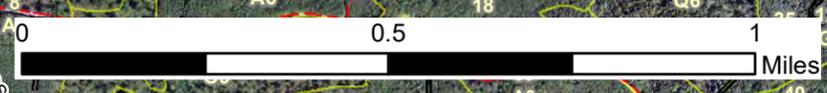
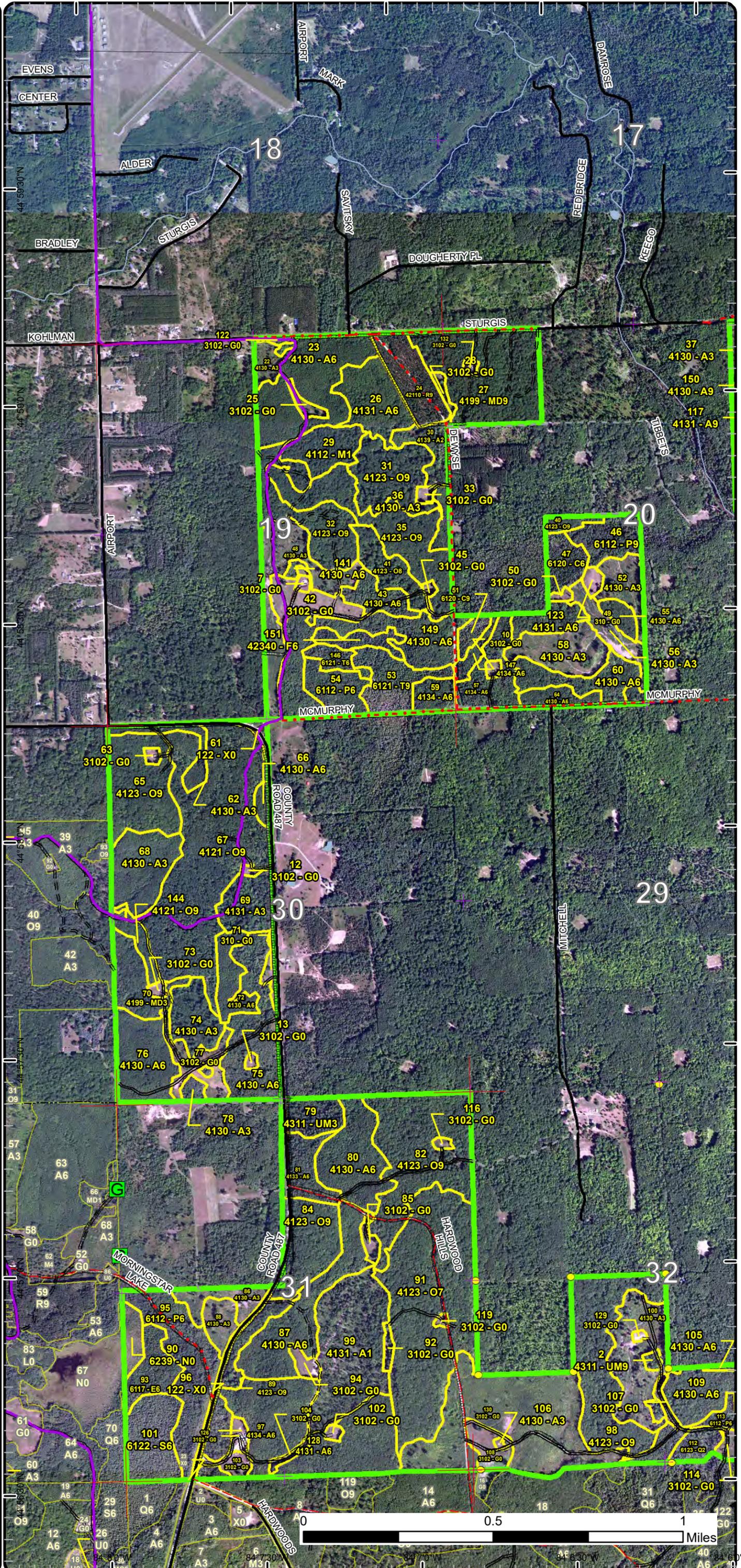


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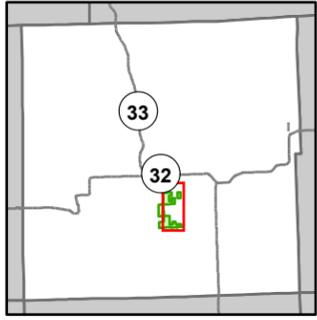


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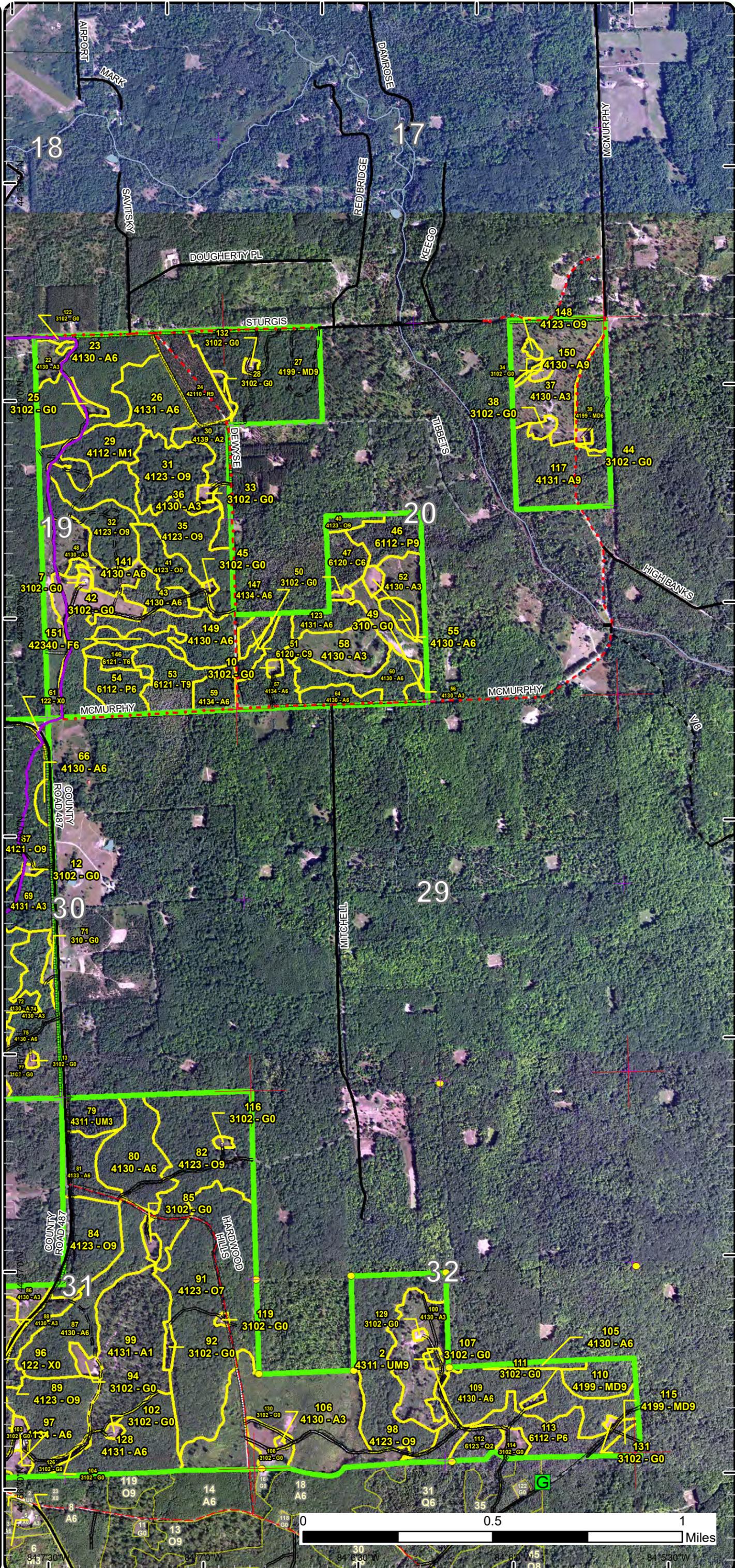


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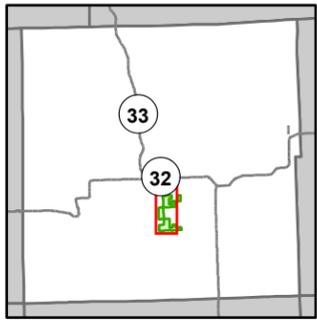


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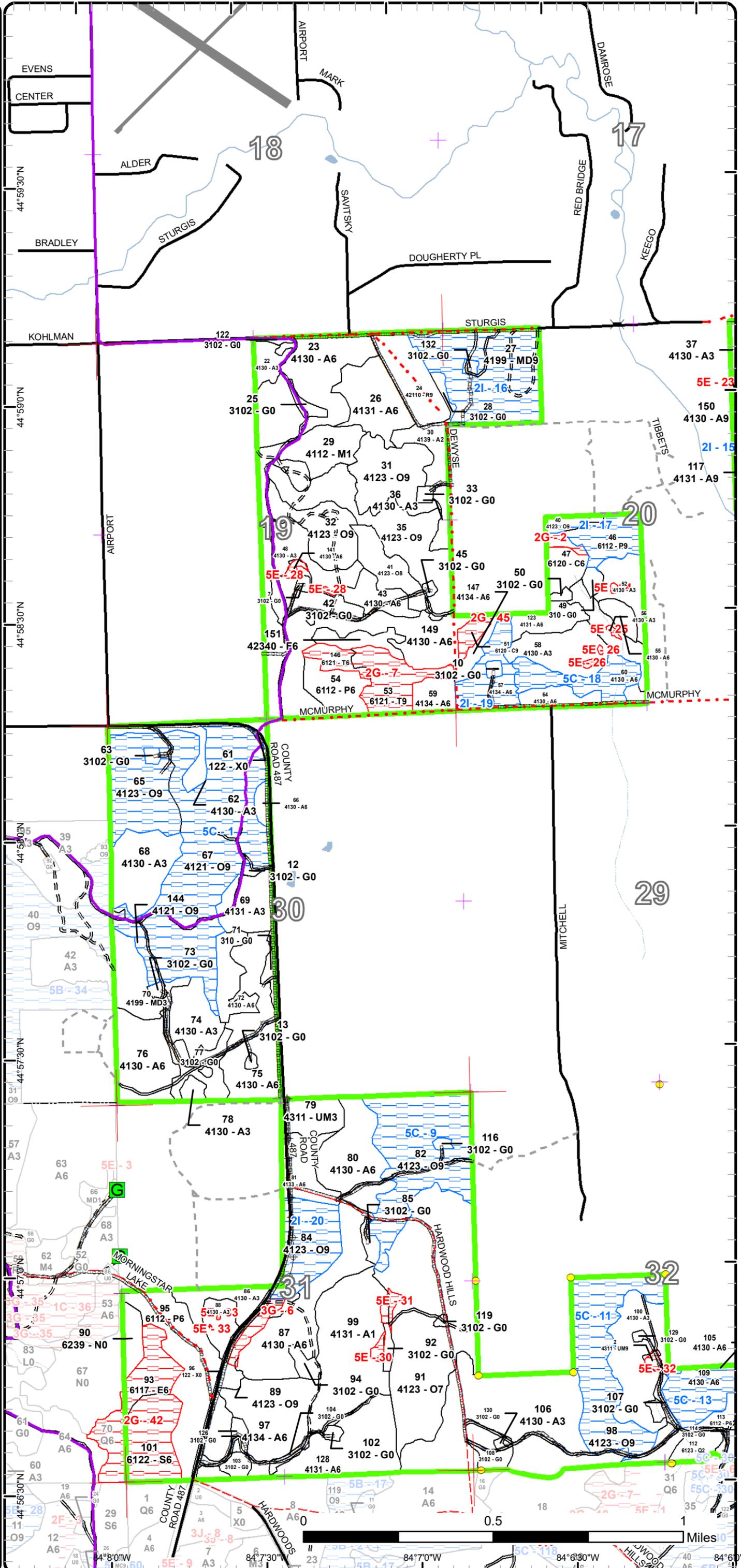


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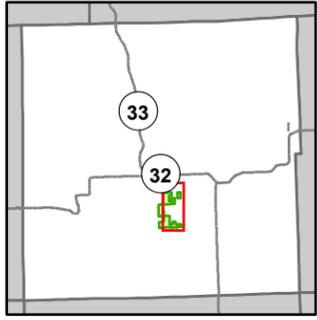


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- G** Compartment Boundary
- G** Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- G** Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
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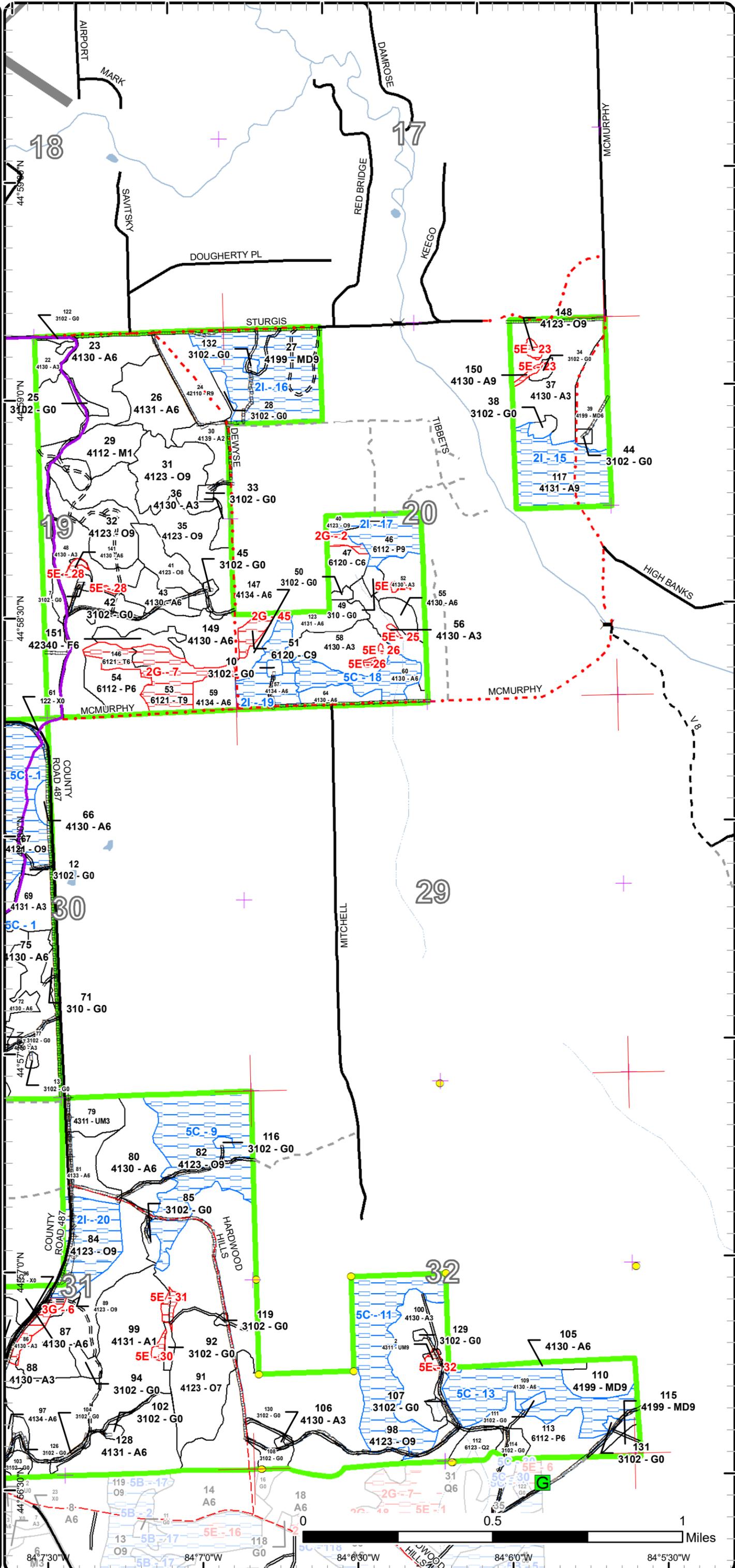


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Report 1 – Total Acres by Cover Type and Age Class



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	259	26	78	80	244	98	0	15	0	0	0	0	0	0	0	0	0	800
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	4	0	0	13
Herbaceous Openland	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Lowland Aspen/Balsam Poplar	0	0	0	6	42	0	36	0	0	0	0	0	0	0	0	0	0	0	84
Lowland Conifers	0	0	0	0	6	0	6	7	0	0	0	0	2	0	0	0	0	0	21
Lowland Deciduous	0	0	0	0	11	0	0	6	0	0	10	0	0	0	0	0	0	0	27
Lowland Mixed Forest	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
Marsh	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	14	0	0	21	0	0	0	8	3	3	43	0	0	0	0	0	10	101
Northern Hardwood	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Oak	0	0	0	0	0	0	0	0	0	5	131	250	27	0	0	0	0	0	413
Paper Birch	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Tamarack	0	0	0	0	0	0	0	5	0	0	0	0	0	15	0	0	0	0	20
Upland Conifers	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	10	0	0	0	0	0	0	1	0	0	0	0	0	0	0	11
Upland Spruce/Fir	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	124	299	26	94	160	244	148	34	35	8	164	293	38	15	0	4	0	10	1695



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 25

Year of Entry: 2023

Acres of Harvest

Total Compartment Acres: 1,696

Commercial Harvest - 98
 Harvests with Site Condition - 141
 Next Step Harvest - 79
 Habitat Cut - 80

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	102	0	0	0	0	0	0	0	0	102
Lowland Aspen/Balsam Poplar	34	0	0	0	0	0	0	0	0	34
Mixed Upland Deciduous	43	0	0	0	0	0	0	0	0	43
Oak	24	0	0	29	0	0	0	0	0	53
Upland Spruce/Fir	6	0	0	0	0	0	0	0	0	6
Total	210	0	0	29	0	0	0	0	0	239

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	239	92	0	0	0	1	0	16	55	403
Next Step	80	83	41	0	0	83	373	124	0	783
Total	319	175	41	0	0	83	373	140	55	1185



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

25	54025025-NF	2.2	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

27	54025027-Cut	43.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	105	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Specs: Clear-cut with retention.

Place retention in multiple pockets around large crown mast producing oak while making the retention representative of the overall stand composition.

Protect pine and oak advanced regeneration for future mast and stand diversity.

Include 2" spec. (This is important for minimizing red maple sapling retention.)

Protect all legacy red pine and white pine.

Require the producer to pile oak tops/treetops on and around stumps of harvested oak to protect the oak stump sprouts from browse.

Perform year 1 and year 3 post-harvest oak stump sprout regeneration checks to assess the effectiveness of slash against browse.

Require a short wood operation to protect advanced pine/oak regeneration and for top placement on and around oak stumps.

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

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of red maple, oak, aspen, and/or white pine.

Other Comment: Red maple will be more dominate in the future stand than what is desirable.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

28	54025028-NF	1.7	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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29	54025029-Prep	12.4	4112 - Maple, Beech, Cherry Association	Sapling Poor	4	Immature	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	No
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Prescription Plant to red pine.

Specs:

The initial step is set to be roller chopping.

The roller chop start date will be determined based on the the harvest date of Stand 31 to the east.

Planting prep is to be completed in tandem with adjacent Stand 29 to the west.

The order of approved next steps can vary.

Next Step SitePrep, Roller Chopping; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Treatments: Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Other, Pre-Commercial Thinning - Han

Acceptable Regen: Acceptable regeneration is a fully stocked stand of red pine with minor components of other species.

Other Comment: An assessment completed on the regeneration of this stand in April of 2021 during the 2023 YOE inventory determined that this stand regenerated to a poor to medium stocking of red maple with trace oak and sparse other regeneration.

Site Condition

Proposed Start Date: 10/1 /2022

31	54025031-Cut	28.9	4123 - Red Oak	Sawtimber Well	107	51-80	Harvest	Seed Tree with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Seed tree with retention.

Specs:

Retain 10-20 BA of oak with open grown characteristics, scattered, to facilitate an under planting of red pine. The scattered oak can be an inconsistent mosaic.

Plant to red pine.

Require a one year contract with no extensions.

Require a winter harvest from November 1 through March 31 to promote vigor of retained oak.

Use the 6" stump spec.

Chipping is preferred but, if tops are not chipped, all portions of the tops over 4 inches in diameter must be cut in to lengths of 4 feet or less.

Slash height shall not exceed 2 feet and shall be spread out evenly throughout the harvest area. Encourage the producer to vary their forwarding path for driving over and further breaking up tops.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant; Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Han

Acceptable Regen: Acceptable regeneration is a well stocked stand of planted red pine, with minor components of other native species.

Other Comment: Consider slope/contour as it relates to trenching and planting when marking in the southern boundary of the harvest and when retaining oak.

Planting prep is to be completed in tandem with adjacent Stand 29 to the west.

The long term goal for this stand is harvesting the red pine canopy and releasing oak advanced regeneration for a conversion back to oak.

Site Condition

Proposed Start Date: 9 /20/2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<p>33 54025033-NF 1.3 3102 - Grass Nonstocked NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No</p> <p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>
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<p>34 54025034-NF 1.3 3102 - Grass Nonstocked NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No</p> <p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>
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<p>38 54025038-NF 2.0 3102 - Grass Nonstocked NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No</p> <p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>
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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
40 54025040-Cut	3.0	4123 - Red Oak	Sawtimber Well	95	81-110	Harvest	Clearcut	414 - Other Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Acceptable regeneration is any medium stocked mix of red maple, balsam fir, aspen, and/or oak. <u>Other Comment:</u> The southern edge of the stand is on a slope. There is enough room at the bottom of the slope for equipment to maneuver. Some of the large oak will need to be felled over the harvest line into the stand to the south due to leaning that way. <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2022</p>										
42 54025042-NF	11.4	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
44 54025044-NF	1.1	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<p>45 54025045-NF 0.8 3102 - Grass Nonstocked NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No</p> <p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>

<p>46 54025046-Cut 10.1 6112 - Lowland Aspen Sawtimber Well 58 51-80 Harvest Clearcut with Retention 6117 - Lowland Deciduous, Mixed Coniferous Even-Aged No</p> <p><u>Prescription Specs:</u> Clear-cut with retention. Protect the legacy white pine and red pine. Place stand representative retention around the stream as directed by the fisheries biologist. Harvest in dry summer or frozen winter. Include the 5.2.4.4 "Dead and Down" grouse spec requiring one full tree to be felled and left on the ground for every 2 acres.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any mix of aspen, red maple, spruce, paper birch, and balsam fir.</p> <p><u>Other Comment:</u> It would be helpful for the producer if they can get private access to the north end of the stand, otherwise the stream will need some type of bridge. An EGLE permit will be needed for the bridge across the stream.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>

<p>49 54025049-NF 2.0 310 - Herbaceous Openland Nonstocked NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No</p> <p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>
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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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50	54025050-NF	1.0	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may 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:

Site Condition

Proposed Start Date: 10/1 /2022

57	54025057-Cut	14.8	4134 - Aspen, Spruce/Fir	Poletimber Well	76	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clear-cut with retention.
Specs:

Mark to retain 2-3 large crown seed producing white pine per acre where they exist.

Protect all white pine legacy trees.

Place retention around healthy large crown mast producing oak while making the retention stand representative as a whole.

Include the 5.2.4.4 "Dead and Down" grouse spec requiring one full tree to be felled and left on the ground for every 2 acres.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is any medium to well stocked mix of aspen, balsam fir, red maple, oak, and/or white pine.

Regen:

Other Do not mark skinny minimally crowned white pine for retention.

Comment:

The healthy large crown mass producing oak within the stand are minimal and tend to be at the north end of the stand.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

58	54025058-Other	16.4	4130 - Aspen	Sapling Well	7	Immature	Other	Other	413 - Aspen	Even-Aged	No
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Prescription This treatment is to accept the regeneration as is.

Specs:

Next Step
Treatments:

Acceptable Acceptable regeneration is a well stocked stand of aspen with the presence of other native species.

Regen:

Other The acceptable regeneration decided on at the 2013 YOE Compartment Review was the following: "-acceptable regeneration is a mix of oak and aspen". The oak component of the regeneration was minimal to non-existent. The aspen are at a full stocking.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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59	54025059-Cut	6.2	4134 - Aspen, Spruce/Fir	Poletimber Well	45	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Retain any white pine/white pine regeneration present to promote future stand diversity.

Include the 5.2.4.4 "Dead and Down" grouse spec requiring one full tree to be felled and left on the ground for every 2 acres.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of aspen, red maple, white pine,

Other

There are large legacy white pine along DeWyse Rd that should be considered for retention or removal when this stand is harvested. These are potential hazard trees.

Site Condition

Proposed Start Date: 10/1 /2022

62	54025062-Spray	0.5	4130 - Aspen	Sapling Well	26		Pesticide	Hand Application	413 - Aspen	Even-Aged	No
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Prescription Eradicate all Black Locust within stand utilizing the cut-stump method.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen:

Other

The original approval was granted by variance on July 21, 2017. The most recent approval was through the 2023 Compartment Review Process.

Comment:

Partially implemented in the summer of 2017.

Site Condition

Proposed Start Date: 10/1 /2022

63	54025063-NF	1.0	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may 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:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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71	54025071-NF	2.9	310 - Herbaceous Openland	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

73	54025073-NF	1.0	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

77	54025077-NF	11.0	3102 - Grass	Nonstocked	Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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84	54025084-Cut	21.2	4123 - Red Oak	Sawtimber Well	107	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Clear-cut with retention.

Specs: Protect all red pine and white pine to promote future stand diversity.

Require the producer to place slash high and wide centered over harvested oak stumps with the goal of making the slash impenetrable by deer.

Repeat 1-year post-harvest oak stump sprout regeneration checks to assess the effectiveness of slash against deer browse until oak recruitment is complete.

Post "No Firewood Collection" signs post-harvest for keeping slash in place over oak stumps.

Require a short wood operation to protect pine regeneration and for placement of tops on and around oak stumps.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked stand of red maple, oak, aspen, white pine, and/or red pine.

Other Comment:

The retention of pine will enhance the view from County Road 487 and will provide vertical/species diversity.

Record the height of the oak on a yearly basis. Document the level of protection provided to oak stump sprouts by piled slash/tops. Make note of changes that can be made to improve oak regeneration success in future harvests.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

85	54025085-NF	2.3	3102 - Grass	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may 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:

Site Condition

Proposed Start Date:

Survey Needed

10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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91	54025091-Prep	79.5	4123 - Red Oak	Sawtimber Poor	108	1-50	SitePrep	Roller Chopping	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Specs: Roller chop to set back the woody competition to oak regeneration during the active growing season outside of the April 15 to July 15 period when oak is most susceptible to oak wilt.

Follow the roller chop with a clear-cut with retention.

Require a one year contract with no extensions.

Require a winter harvest between November 1 and March 31.

Require the producer to place slash high and wide centered over harvested oak stumps with the goal of making the slash impenetrable by deer.

Repeat 1-year post-harvest oak stump sprout regeneration checks to assess the effectiveness of slash against deer browse until oak recruitment is complete.

Post "No Firewood Collection" signs post-harvest for keeping slash in place over oak stumps.

Acceptable regeneration, post subsequent harvest, is a mix of oak, red maple, and other native species. Oak must be 25 percent of the future canopy for the harvest to be a success.

Next Step Treatments: Monitoring, Artificial Regen(1yr); Harvest, Clearcut

Acceptable Regen: Acceptable regeneration, post subsequent harvest, is a mix of oak, red maple, and other native species. Oak must be 25 percent of the future canopy for the harvest to be a success.

Other Comment: Record the height of the oak on a yearly basis. Document the level of protection provided to oak stump sprouts by piled slash/tops. Make note of changes that can be made to improve oak regeneration success in future harvests.

Site Condition

Proposed Start Date: 10/1 /2021

92	54025092-NF	1.7	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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94	54025094-NF	2.8	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

102	54025102-NF	1.1	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

103	54025103-NF	4.4	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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104	54025104-NF	1.7	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

107	54025107-NF	2.0	3102 - Grass	Nonstocked	Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

108	54025108-NF	6.5	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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111 54025111-NF 1.0 3102 - Grass Nonstocked Unspec NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No

Prescription Opening may 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:

Site Condition

Proposed Start Date: 10/1 /2022

113 54025113-Cut 24.0 6112 - Lowland Aspen Poletimber Well 59 51-80 Harvest Clearcut with Retention 6112 - Lowland Aspen Even-Aged No

Prescription Clear-cut with retention.

Specs:

Place the retention around the few large crown mass producing oak while making the retention stand representative.

Include the 5.2.4.4 "Dead and Down" grouse spec requiring one full tree to be felled and left on the ground for every 2 acres.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is any medium to well stocked mix of aspen, balsam fir, red maple, and/or oak.

Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

114 54025114-NF 3.3 3102 - Grass Nonstocked Unspec NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No

Prescription Opening may 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:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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116	54025116-NF	0.8	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Opening may 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:

Site Condition

Proposed Start Date: 10/1 /2022

117	54025117-Cut	27.1	4131 - Aspen, Oak	Sawtimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clear-cut with retention.
Specs:

- Protect white pine regeneration (and oak if present) to promote future stand diversity.
- Place retention in multiple pockets around large crown oak mast trees while making the retention stand representative.
- Require the producer to place slash high and wide centered over harvested oak stumps with the goal of making the slash impenetrable by deer.
- Repeat 1-year post-harvest oak stump sprout regeneration checks to access the effectiveness of slash against deer browse until oak recruitment is complete.
- Post "No Firewood Collection" signs post-harvest for keeping slash in place over oak stumps.
- Require a short wood operation to protect advanced pine/oak regeneration and for top placement on and around oak stumps.
- Include the 5.2.4.4 "Dead and Down" grouse spec requiring one full tree to be felled and left on the ground for every 2 acres.

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

Acceptable Acceptable regeneration is any medium to well stocked mix of aspen, red maple, oak, and/or white pine.
Regen:

Other Record the height of the oak on a yearly basis. Document the level of protection provided to oak stump sprouts by piled slash/tops. Make
Comment: note of changes that can be made to improve oak regeneration success in future harvests.

Follow the fisheries biologist recommendations for harvesting near this portion of the Thunder Bay River. The current stand boundary was approved by the fisheries biologist.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
124 54025124-Cut	21.3	4130 - Aspen	Sawtimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <p>Place retention pocket(s) around large crowned oak mast producing oak while making the retention stand representative.</p> <p>Protect all red pine and white pine to promote future stand diversity.</p> <p>Include the 5.2.4.4 "Dead and Down" grouse spec requiring one full tree to be felled and left on the ground for every 2 acres.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, pine and/or oak.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
149 54025149-Cut	32.8	4130 - Aspen	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <p>Mark 1-3 red pine and/or white pine per acre for retention, where present, to promote future stand diversity.</p> <p>Protect all white pine and red pine regeneration to promote future stand diversity.</p> <p>Include the 5.2.4.4 "Dead and Down" grouse spec requiring one full tree to be felled and left on the ground for every 2 acres.</p> <p>Include recreational trail specs to protect both the snowmobile trail and its users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, balsam fir, paper birch, and/or white pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
151 54025151-Cut	6.3	42340 - Upland Spruce/Fir	Poletimber Well	59	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u></p> <p>Mark 1-3 red pine and/or white pine per acre for retention, where present, to promote future stand diversity.</p> <p>Protect all white pine and red pine regeneration, if and where present, to promote future stand diversity.</p> <p>Include recreational trail specs to protect both the trails and its users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium stocked mix of aspen, black spruce, jack pine, red pine, white pine, red maple, and/or tamarack.</p> <p><u>Other Comment:</u> Retention is not necessary due to the small size of the stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment
Name

Acres

Stand
CoverType

Size
Density

Stand
Age

BA
Range

Treatment
Type

Treatment
Method

Cover Type
Objective

Age
Structure

Habitat
Cut

Total Treatment
Acreage Proposed: 416.1

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 25
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				2I	5C	2G	3G	5A	5E	
800	640	154		6	Aspen	64	90		0			6
12	7	0		6	Cedar			6				
78	78	0		0	Herbaceous Openland							0
84	72	12		0	Lowland Aspen/Balsam Poplar	12						
21	17	0		4	Lowland Conifers			4		0		
27	0	10		17	Lowland Deciduous		10	17				
9	2	0		7	Lowland Mixed Forest			6		0		
8	8	0		0	Lowland Shrub							
19	0	0		19	Lowland Spruce/Fir			19				
29	29	0		0	Marsh							
102	58	43		0	Mixed Upland Deciduous	43		0				0
26	26	0		0	Northern Hardwood							
414	175	233		7	Oak	24	209		4			3
3	0	0		3	Paper Birch			3		0		
16	16	0		0	Red Pine							
20	0	0		20	Tamarack			20				
2	2	0		0	Upland Conifers							
11	10	0		1	Upland Mixed Forest							1
6	6	0		0	Upland Spruce/Fir							
7	7	0		0	Urban							
2	2	0		0	Water							
1,696	1,155	452		89	Total Forested Acres	144	308	75	4	0		10
	68%	27%		5%	Relative Percent							

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	121	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 25
Year of Entry: 2023

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 6							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3G: Other Influence zones - See comments	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 25
Year of Entry: 2023

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	2I: Survey needed	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Further investigation of records and on the ground will need to take place to see if a survey is needed for proper set-up of harvest boundaries.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 25
Year of Entry: 2023

15	Available	2I: Survey needed	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Further investigation of records and on the ground will need to take place to see if a survey is needed for proper set-up of harvest boundaries.							
16	Available	2I: Survey needed	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Further investigation of records and on the ground will need to take place to see if a survey is needed for proper set-up of harvest boundaries.							
17	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Further investigation of records and on the ground will need to take place to see if a survey is needed for proper set-up of harvest boundaries.							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Further investigation of records and on the ground will need to take place to determine if a survey is needed for proper set-up of harvest boundaries.							
20	Available	2I: Survey needed	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Further investigation of records and on the ground will need to take place to determine if a survey is needed for proper set-up of harvest boundaries.							
23	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 25
Year of Entry: 2023

24	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Timber Sale Name: Peach Fuzz Aspen; Timber Sale Number: 54-005-13.							
30	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Timber Sale Name: Lemon Q-Tip Aspen; Sale Number: 54-006-13.							
33	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 25
Year of Entry: 2023

39	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 4- added due to size of past treatment being over 10 acres							
42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4131 - Aspen, Oak	Poletimber Well	42.9	51	81-110	N/A	Four concrete monuments survey corners mark the western edge of the stand. There are quality oak in this stand that grew along with the aspen. These oak are from seed.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	7		Red Maple		Medium	Variable	Sapling
Red Oak		30	Log/Pole	10		Witch Hazel		Medium	5 - 10 feet	Tall Shrub
White Oak		3	Log	15		Serviceberry (Juneberry)		Low	Variable	Sapling
Bigtooth Aspen		62	Pole/Log	8	51					
2	4311 - Pine, Aspen Mix	Sawtimber Well	1.2	90	81-110	N/A	This is long term retention from Timber Sale Name: Lemon Q-Tip Aspen; Sale Number: 54-006-13.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		50	XLog/Log	21	90	Ironwood		High	Variable	Sapling
Quaking Aspen		35	Log	12						
Red Maple		5	Log	13						
Red Oak		10	XLog/Log	18						
3	429 - Mixed Upland Conifers	Poletimber Well	1.7	51	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		5	Log/Pole	12		Balsam Fir		Low	Variable	Sapling
Bigtooth Aspen		15	Pole/Log	9		Red Maple		Low	Variable	Sapling
Jack Pine		44	Pole	7	51	Serviceberry (Juneberry)		Low	Variable	Sapling
Balsam Fir		25	Pole	8		White Oak		Low	Variable	Sapling
White Pine		5	Log	12						
Red Maple		1	Log	12						
White Oak		5	Pole/Sapling	5						
4	4130 - Aspen	Sapling Medium	7.9	6	Immature	N/A	The harvest of this stand was completed in December Of 2014 as part of Timber Sale Name: Crudivore Oak Mix; Sale Number: 54-007-13. All red pine, white pine, and oak were retained with an average of 5 BA. -Regen survey 10/17/2019. Regen looked excellent, slam dunk.			
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		82	Sapling	1	6					
Red Oak		5	Log	12						
White Pine		10	Log	12						
Red Pine		1	XLog	22						
White Oak		1	XLog	19						
Balsam Fir		1	Sapling	2						
6	4119 - Mixed Northern Hardwoods	Sapling Well	13.6	7	1-50	N/A	The harvest of this stand was completed in December Of 2014 as part of Timber Sale Name: Crudivore Oak Mix; Sale Number: 54-007-13. The sparse pine and cherry were retained along with 20 BA of oak. -found FIA plot in stand			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		20	Log	16	98	Witch Hazel		Low	5 - 10 feet	Tall Shrub
Red Oak		10	Sapling	1		Blackberry/Raspberry		High	5 - 10 feet	Tall Shrub
Red Maple		63	Sapling	1	7					
Bigtooth Aspen		5	Sapling	1	7					
White Pine		2	Sapling/Pole	1						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
7	3102 - Grass	Nonstocked	0.9			Managed Opening	This is a producing gas well pad. 20' by 30' building present																																						
8	6123 - Lowland Fir	Sapling Medium	7.2	64	1-50	N/A	This stand is too wet to harvest. This stand is unproductive forest land.-stagnant growth due to high watertable-inventory in winter																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>65</td> <td>Sapling</td> <td>3</td> <td>64</td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>20</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	65	Sapling	3	64	Black Spruce	5	Pole	7		Northern White Cedar	5	Sapling	3		Tamarack	5	Pole	6		Black Ash	20	Sapling	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Full</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Full	5 - 10 feet	Tall Shrub				
Canopy Species	% Cover	Size Class	DBH	Age																																									
Balsam Fir	65	Sapling	3	64																																									
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Sub-Canopy Species	Density	Avg. Height	Size																																										
Tag Alder	Full	5 - 10 feet	Tall Shrub																																										
9	623 - Emergent Wetland	Nonstocked	3.9			No																																							
10	3102 - Grass	Nonstocked	1.1	0			This is a producing gas well pad.																																						
11	122 - Road/Parking Lot	Nonstocked	1.1			No	Hungry 5 Road																																						
12	3102 - Grass	Nonstocked	0.8	0			This is a producing gas well pad.																																						
13	3102 - Grass	Nonstocked	0.7		Immature	No	This is a producing gas well pad.																																						
14	6239 - Mixed Emergent Wetland	Nonstocked	17.9			No																																							
15	4130 - Aspen	Sapling Well	4.2	7	Immature	N/A	The harvest of this stand was completed in December Of 2014 as part of Timber Sale Name: Crudivore Oak Mix; Sale Number: 54-007-13. The sparse pine and cherry was retained.																																						
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Canopy Species	% Cover	Size Class	DBH	Age																																									
Bigtooth Aspen	74	Sapling	1	7																																									
Red Maple	20	Sapling	1																																										
Red Oak	5	Sapling	1	7																																									
White Pine	1	Sapling	3																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16 6119 - Mixed Lowland Deciduous Forest Sawtimber Medium 10.1 97 Unspecified N/A -great stand for wildlife- plenty of cavity trees mixed with conifer and white oak and beech coming in

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	14	97	Red Maple	Medium	Variable	Sapling
Basswood	5	Log/Pole	10		Beech	Low	Variable	Sapling
Paper Birch	5	Log/Pole	11		White Oak	Low	Variable	Sapling
Quaking Aspen	32	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	10	Pole	8		Black Ash	Medium	Variable	Sapling
White Spruce	5	Log/Pole	12		Quaking Aspen	Low	Variable	Sapling
White Pine	3	Log	15					

17 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 2.6 83 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	7		Red Maple	High	Variable	Sapling
Red Oak	20	XLog/Log/Pole	18		Red Oak	Medium	Variable	Sapling
White Pine	10	Log/XLog	17		White Pine	Low	Variable	Sapling
Jack Pine	23	Log/Pole	12	83	Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	27	Log	12	83				

18 500 - Water Nonstocked 1.8 Immature No

19 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 5.7 65 Unspecified N/A -newly aquired

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole/Sap/Log	8	65	Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	25	Log	12		Black Ash	Medium	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6					
Northern White Cedar	15	Log/Pole	11					

20 6112 - Lowland Aspen Sapling Well 6.2 28 Unspecified N/A -clearcut a while back, appear to have left some aspen for cavity trees

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
Quaking Aspen	15	Log	14		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	35	Sapling	4	28	Black Ash	Medium	Variable	Sapling
Balsam Poplar	15	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
21	6123 - Lowland Fir	Poletimber Well	3.8	52	Unspecified	N/A	-newly aquired -it appears that wood from cut to north was forwarded south through this stand and a landing was created in the adjacent opening																																																			
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22	4130 - Aspen	Sapling Well	4.9	6	Immature	N/A	A walk-through regeneration check was completed on this stand during the 2023 YOE Inventory. The regeneration was approved based upon what was agreed to at the 2013 YOE Compartment Review. This stand was harvested in October of 2014 as part of Timber Sale Name: Crowd Control Oak; Timber Sale Number: 54-010-13. A few oak were retained.																																																			
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23	4130 - Aspen	Poletimber Well	35.1	47	81-110	N/A	All aspen, oak, red maple, and paper birch were harvested from this stand in 1974 per W5-674 FTP.																																																			
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24	42110 - Planted Red Pine	Sawtimber Well	16.2	65	111-140	N/A	2023 YOE Inventory BA Measurements: (80, 120, 140, 130, 120, 120, 130, 100, 100, 120) This stand will likely see another thinning before it sees a final harvest. A thinning of this stand to 110 BA was completed in April of 2016 as part of Timber Sale Name: Don't Shoot Red Pine; Timber Sale Number: 54-003-13 -Row thinned in 93, Mark thinned 2005, Mark thinned 4/15/16 (res. BA 111)																																																			
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25	3102 - Grass	Nonstocked	2.2			Managed Opening	This opening was created per a 1977 FTP. Inventory 2013 Notes: -a fair amount of garbage is being dumped in this opening (see OFS)																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
26	4131 - Aspen, Oak	Poletimber Well	18.2	48	51-80	N/A	The oak is most prevalent in the southwestern half of the stand. This stand is the same age as the aspen to the west but this stand is on dryer less nutrient rich soil. There is more oak and there is slightly smaller diameter aspen in this stand. There are trace amounts of white pine and jack pine in the canopy. There are scattered log-sized oak throughout the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Pole/Sapling	6		Red Maple		
Red Oak		20	Pole/Sap/Log	7		Red Oak		
Bigtooth Aspen		75	Pole/Sapling	7	48	White Pine		
						Density	Avg. Height	Size
						High	Variable	Sapling
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27	4199 - Other Mixed Upland Deciduous	Sawtimber Well	43.3	105	81-110	N/A	The white pine regeneration and white pine in the canopy is most prevalent at the east end of the stand. The aspen are spread out in pockets.-aspen, jp, rm, ro, and rm removed in 1973-fair amount of adv oak regen, 20-30ft (10-20% coverage) tall needing release-more open oak stand with pine coming in subcanopy	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Pole/Sapling	7		Red Maple		
Red Oak		47	Log/XLog/Pole	14	105	Red Oak		
Bigtooth Aspen		20	Log/Pole	11	48	White Pine		
White Pine		5	Log/Pole	11		Red Pine		
Red Pine		3	Log/Pole/XLog	14		Serviceberry (Juneberry)		
Jack Pine		5	Pole	7				
						Density		Avg. Height
						High	>20 feet	Sapling
						Medium	>20 feet	Sapling
						Low	Variable	Sapling
						Trace	Variable	Sapling
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28	3102 - Grass	Nonstocked	1.7			Managed Opening	This is a grass opening that is slowly growing over with pine tree seedlings.	
29	4112 - Maple, Beech, Cherry Association	Sapling Poor	12.4	4	Immature	N/A	The regeneration in the stand is almost exclusively from red maple stump sprouts. Very little-trace amounts of oak stump sprouts were present. The harvesting of this stand was completed in July of 2017 as part of Sale Name: Crowd Control Oak; Sale Number: 54-010-13. Pine and white oak were retained. One oak per acre was retained. 2013 YOE Inventory Notes: -traces of oak regen but most are suppressed -ro 80 ft-86 yrs- 60 -ro 84ft-87 yrs- 65 -si- 62 (average site)	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		3	Sapling	1				
Red Pine		1	Sapling	1				
Red Oak		1	Sapling	1				
Red Maple		93	Sapling	1	4			
Red Oak		2	Log/XLog	16				
30	4139 - Aspen, Mixed Deciduous	Sapling Medium	8.2	26	1-50	N/A	This stand is constructed of various inclusion pockets. There are inclusion packets of sapling, pole, and log size trees.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		30	Pole/Sapling	5	26			
Red Maple		40	Sapling	3	26			
Red Oak		5	Sapling	3				
Black Cherry		5	Sapling/Pole	4				
Bigtooth Aspen		10	Log	11				
Red Maple		5	Log/Pole	11				
Red Oak		5	Log	14				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
31	4123 - Red Oak	Sawtimber Well	21.6	107	51-80	N/A	This stand and another 40 acres to the south had all merchantable aspen, red maple, and paper birch removed in 1994 as Timber Sale Name: Dewyse Road Oak; Timber Sale Number: 54-061-93. Inventory YOE 2013 Notes: -broke out stand due to density change -loaded with rm and hazel -lower oak residual stocking, mostly mast trees																																					
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32	4123 - Red Oak	Sawtimber Well	24.0	106	81-110	N/A	2023 YOE Inventory BA Measurements: (140, 170, 80, 70, 110, 70, 120, 120). 2013 YOE Inventory Notes: -ro 74ft and 93 yrs- 50 -87ft and 99yrs- 65 -87ft and 96yrs- 65 -si- 60 -no-low adv oak regen -rm and aspen were cut during 1974 -fairly open subcanopy in some areas and full of rm in others -less overall rm sapling coverage (40-50% coverage) than adjacent oak stand to east -average quality oak -more of a component of 6-7 inch rm and aspen																																					
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33	3102 - Grass	Nonstocked	1.3				This is a producing gas well pad.																																					
34	3102 - Grass	Nonstocked	1.3			Managed Opening	close road.																																					
35	4123 - Red Oak	Sawtimber Well	33.4	109	51-80	N/A	These are high-quality oak. Little if any epicormic branches have occurred since the thinning. The red oak stump sprouts look to have been eaten back to the point where most of it is dead. The red maple have been browsed but not as hard as the oak. The only significant regeneration from the thinning is in the form of red maple stump sprouts. The thinning of this stand to 72 BA was completed in November of 2017 as of 2017 as part of Sale Name: Crowd Control Oak; Sale Number: 54-010-13. 2013 YOE Inventory Notes -thinning to 72 BA complete 11/13/17 -ro 86ft and 99 yrs- 64 -ro 95ft and 99 yrs- 75 -ro 95ft and 101 yrs- 75 -si- 71 (average-high si)																																					
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36	4130 - Aspen	Sapling Well	3.8	27	Unspecified	N/A	This stand was harvested in the spring of 1993 as part of Timber Sale Name: McMurphy Rd. Block; Timber Sale Number: 54-002-93.																																					
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37	4130 - Aspen	Sapling Well	33.4	6	Immature	N/A	All red pine, white pine, and 1-2 oak per acre were retained in a harvest of this stand in September of 2014 as part of Timber Sale Name: Peach Fuzz Aspen; Timber Sale Number: 54-005-13. The retained white pine add great diversity to the stand. The retained oak appear to be healthy and will add mast for wildlife.																																					
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38	3102 - Grass	Nonstocked	2.0			Managed Opening	The berms around the edge were probably pushed up when this field was created. There are large 22 plus inch DBH oak; mainly along the edges of the stand. OLD DUMP-COVERED. Rather uneven. Trash around the edges in places. Close roads.																																					
39	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.5	32	51-80	N/A	Aspen rings were difficult to count. Different ages were found on aspen, red maple, and oak. (The harvest records indicate that all aspen, paper birch, cherry, and oak were harvested from this stand from 1979-80. This does not match the ages in the stand.)																																					
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40	4123 - Red Oak	Sawtimber Well	3.0	95	81-110	N/A	These are very large higher quality oak.																																					
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41	4123 - Red Oak	Sawtimber Medium	11.3	107	1-50	N/A	2023 YOE Inventory BA Measurements: (40, 40, 50, 20, 70, 70, 80). The basal area tends to be higher at the east end of the stand. 2013 YOE Inventory Notes:-broke stand out due to density change-stand had all red maple and aspen cut out in 1995																																					
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Witch Hazel	Medium	5 - 10 feet	Tall Shrub																																									
42	3102 - Grass	Nonstocked	11.4			Managed Opening	This opening was created per a 1977 FTP.																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	4130 - Aspen	Poletimber Well	8.2	35	51-80	N/A	These are fairly healthy aspen. The diameter of the aspen is highly variable.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Sapling/Pole	4		Red Maple	High	Variable	Sapling
Quaking Aspen		90	Pole	7	35	Cherry (spp.)	Low	Variable	Sapling
Balsam Fir		5	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
						White Pine	Low	Variable	Sapling
						Serviceberry (Juneberry)	Low	Variable	Sapling
44	3102 - Grass	Nonstocked	1.1				This is a producing gas well pad.		
45	3102 - Grass	Nonstocked	1.0				This is a producing gas well pad.		
46	6112 - Lowland Aspen	Sawtimber Well	11.8	58	51-80	N/A	There are wet spots throughout the stand. There is a stream flowing through the center of the stand west-east that has cedar along it's edges most of the way.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole	11		Balsam Fir	High	Variable	Sapling
Paper Birch		5	Log/Pole	10		Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		35	Pole/Log	9	58	Hawthorn (spp.)	Low	Variable	Tall Shrub
Bigtooth Aspen		20	Pole/Log	9					
Balsam Fir		15	Pole	7					
White Spruce		10	Log/Pole	12					
Northern White Cedar		5	Log	15					
47	6120 - Lowland Cedar	Poletimber Well	8.6	112	141-170	N/A	The north end of the stand is extremely wet and is somewhat of an inclusion pocket. A narrow stream runs W-E through the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
White Spruce		5	Log	12					
Northern White Cedar		80	Pole/Log/Sap	8	112				
Tamarack		5	Pole	7					
Black Spruce		5	Pole/Log	8					
48	4130 - Aspen	Sapling Well	24.5	7	Immature	N/A	This stand was harvested in October of 2014 as part of Timber Sale Name: Peach Fuzz Aspen; Timber Sale Number: 54-005-13. All Oak were retained.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		40	Sapling	1	7				
White Pine		3	Sapling	1					
Black Cherry		10	Sapling	1					
Red Maple		5	Sapling	1	7				
Red Oak		2	Log/Pole/XLog	12					
Bigtooth Aspen		40	Sapling	1	7				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
49	310 - Herbaceous Openland	Nonstocked	2.0			Managed Opening																																							
50	3102 - Grass	Nonstocked	1.0			Managed Opening																																							
51	6120 - Lowland Cedar	Sawtimber Well	3.6	145	81-110	N/A	There is a narrow three to four foot wide stream running through the stand. This stand is too wet to harvest.																																						
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52	4130 - Aspen	Sapling Well	10.1	7	Immature	N/A	All red pine, white pine, and oak were retained in this stand in a harvest completed in October of 2014 as part of Timber Sale Name: Peach Fuzz Aspen; Timber Sale Number: 54-005-13.																																						
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53	6121 - Tamarack	Sawtimber Well	15.4	120	111-140	N/A	This stand goes from tamarack dominance in the north to cedar dominance in the south. This stand is too wet to harvest. A small 4-6 foot wide stream flows through the east arm of the stand.																																						
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54	6112 - Lowland Aspen	Poletimber Well	11.4	35	1-50	N/A	The central region of this stand is to wet the harvest. Based on timber sale records a clear-cut took place in this stand in 1986 as part of Timber Sale Name: Crawling Low Block; Timber Sale Number 54-057-83. Inventory 2013 YOE Notes: -the wet areas did not regenerate well, and no cedar regen.																																						
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55	4130 - Aspen	Poletimber Well	4.1	27	1-50	N/A	This stand was harvested in the spring of 1993 as part of Timber Sale Name: McMurphy Rd. Block; Timber Sale Number: 54-002-93.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	4130 - Aspen	Sapling Well	9.2	7	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		45	Sapling	1	7		
Quaking Aspen		45	Sapling	1	7		
Black Cherry		5	Sapling	1			
Balsam Fir		5	Sapling	1			
57	4134 - Aspen, Spruce/Fir	Poletimber Well	14.9	76	81-110	N/A	The aspen at the north end of the stand are younger but are still ready for harvest. The aspen, red maple, paper birch, ash, and oak were harvested from this stand, with the exception of a few acres in the SW corner, in 1974. Oak having ten inch stump diameters or greater were retained on ridge tops.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		8	Log/Pole	11			
Quaking Aspen		45	Log	11	76		
Balsam Fir		30	Pole	7			
White Pine		2	Log	12			
Bigtooth Aspen		15	Pole	8			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		High	Variable	Sapling			
58	4130 - Aspen	Sapling Well	16.4	7	Immature	N/A	This stand was harvest in September of 2014 as part of Timber Sale Name: Peach Fuzz Aspen; Timber Sale Number: 54-005-13. Scattered oak were retained.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		1	Log	12			
Red Oak		1	XLog/Log	20			
Balsam Fir		10	Sapling	1			
Bigtooth Aspen		88	Sapling	1	7		
59	4134 - Aspen, Spruce/Fir	Poletimber Well	6.2	45	51-80	N/A	There is trace white pine in the stand and there is one very large white spuce in the northwest corner of the stand. Between 1972 and 1978 all aspen, paper birch, red maple, and balsam fir were harvested from this stand per FTP records.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		5	Pole	7			
Quaking Aspen		20	Pole	7	45		
Balsam Fir		35	Pole/Sapling	6			
Bigtooth Aspen		40	Pole	7	45		
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Low	Variable	Sapling			
Balsam Fir		Medium	Variable	Sapling			
60	4130 - Aspen	Poletimber Well	14.5	48	51-80	N/A	There is trace white pine in the over story. This is a healthy stand of aspen. The treatment history below is accurate to what is on the ground. The aspen, red maple, paper birch, ash, and oak were harvested from this stand, with the exception of a few acres to the SE, in 1974. Oak having ten inch stump diameters or greater were retained on ridge tops.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		5	Pole/Log	9			
Red Oak		5	XLog	20			
Quaking Aspen		10	Pole/Log	8			
Bigtooth Aspen		75	Pole/Log	8	48		
Balsam Fir		5	Pole/Log	8			
Sub-Canopy Species		Density	Avg. Height	Size			
White Ash		Low	Variable	Sapling			
Balsam Fir		High	Variable	Sapling			
Serviceberry (Juneberry)		Low	Variable	Tall Shrub			
61	122 - Road/Parking Lot	Nonstocked	2.2			No	County Road 487 and surrounding open area.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
62	4130 - Aspen	Sapling Well	7.0	26		N/A	Trees with a merchantable stick in this stand were harvested in the early fall of 1994 as part of Timber Sale Name: Blue Light Special; Timber Sale Number: 54-046-93. Oak and marked red pine and white pine were retained.																																																	
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63	3102 - Grass	Nonstocked	1.0				This is a producing gas well pad.																																																	
64	4130 - Aspen	Poletimber Well	7.7	27	1-50	N/A	This stand was harvested in the spring of 1993 as part of Timber Sale Name: McMurphy Rd. Block; Timber Sale Number: 54-002-93.																																																	
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65	4123 - Red Oak	Sawtimber Well	27.4	111	111-140	N/A	Inventory YOE 2023 BA Measurements: (120, 140, 110) There are pockets dominated by aspen. There are trace legacy white pine. -traces of white oak -hill along e1/2 of stand 40-55% slope																																																	
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66	4130 - Aspen	Poletimber Well	2.6	26	Immature	N/A	This small pocket of aspen is growing fast due to the high levels of sunlight. The stand has canopy species diversity along its edge. The scotch pine need to be removed. Trees with a merchantable stick in this stand were harvested in the early fall of 1994 as part of Timber Sale Name: Blue Light Special; Timber Sale Number: 54-046-93. Oak and marked red pine and white pine were retained.																																																	
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67	4121 - Oak, Aspen	Sawtimber Well	88.3	90	81-110	N/A	Inventory YOE 2023 BA Measurements: (120, 60, 90, 90, 150, 120, 140, 90) This is medium to high quality oak. This stand was thinned from 2004 to 2005 as part of Timber Sale Name: Poison Oak; Timber Sale Number: 54-004-03. Inventory 2013 YOE Notes: -some veneer red oak -some internal rot/conks showing on small amt (5%) of bta internal rot appearing in bta clones -some epicormic branching on oaks from past thinning -no adv oak regen																																												
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68	4130 - Aspen	Sapling Well	20.0	26	1-50	N/A	There is trace white pine and red pine in the canopy. Trees with a merchantable stick in this stand were harvested in the early fall of 1994 as part of Timber Sale Name: Blue Light Special; Timber Sale Number: 54-046-93.																																												
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69	4131 - Aspen, Oak	Sapling Well	12.9	14	1-50	N/A	Scattered red oak, red maple, and white oak were retained at less than 50 BA during the last harvest. The harvest of this stand was completed in 2004 to 2005 as part of Timber Sale Name: Poison Oak; Timber Sale Number: 54-004-03.																																												
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70	4199 - Other Mixed Upland Deciduous	Sapling Well	13.7	4	1-50	N/A	The oak stump sprouts present have experienced heavy browse. A harvest on this stand was completed in August of 2017, leaving 30 BA of stand representative species. The harvest was part of Sale Name: Crowd Control Oak; Sale Number: 54-010-13.																																												
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71	310 - Herbaceous Openland	Nonstocked	2.9			No	OI- used as log landing in the past--some thornapple to west and clumps of witch hazel																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
72	4130 - Aspen	Poletimber Well	10.0	37		N/A	All trees with a merchantable stick were harvested from this stand in 1984 as part of Timber Sale Name: County Road 487 Block; Timber Sale Number: 54-047-83.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		85	Pole	7	37	Red Maple		Medium	Variable	Sapling
Red Maple		10	Sapling/Pole	4		Serviceberry (Juneberry)		Low	10 - 20 feet	Tall Shrub
Red Oak		5	Pole/Sapling	5		Witch Hazel	Low	5 - 10 feet	Tall Shrub	
73	3102 - Grass	Nonstocked	1.0			Managed Opening	This is a producing gas well pad.			
74	4130 - Aspen	Sapling Well	12.8	14	Immature	N/A	The harvest of this stand was completed in 2004 to 2005 as part of Timber Sale Name: Poison Oak; Timber Sale Number: 54-004-03.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		20	Sapling	3						
Red Oak		5	Log	14						
Red Oak		1	Sapling	1						
Quaking Aspen		32	Sapling/Pole	4						
Bigtooth Aspen		42	Sapling/Pole	4	14					
75	4130 - Aspen	Poletimber Well	29.0	36	1-50	N/A	Scattered log sized white pine, red maple, and oak are present. This is very poor quality aspen, especially in the southern third of the stand. The white pine regeneration is focused in the south half of the stand. All trees with a merchantable stick were harvested from this stand in 1984 as part of Timber Sale Name: County Road 487 Block; Timber Sale Number: 54-047-83.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
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Red Oak		5	Pole	7		Serviceberry (Juneberry)		Medium	Variable	Tall Shrub
Quaking Aspen		70	Pole	6	36	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		10	Pole/Sapling	6		Oak (spp.)	Low	Variable	Sapling	
White Oak		1	Sapling/Pole	4		White Pine	Low	Variable	Sapling	
Black Cherry		2	Sapling/Pole	4						
Jack Pine		2	Pole	6						
76	4130 - Aspen	Poletimber Well	21.1	26	Immature	N/A	The aspen are healthy and are growing fast. Trees with a merchantable stick in this stand were harvested in the early fall of 1994 as part of Timber Sale Name: Blue Light Special; Timber Sale Number: 54-046-93.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
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White Oak		1	Sapling	3		White Oak	Low	Variable	Sapling	
Black Cherry		2	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling	
77	3102 - Grass	Nonstocked	11.0		Immature	Managed Opening				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
78	4130 - Aspen	Sapling Well	2.7	3	Immature	N/A	A harvest of this stand was completed with the retention of scattered pine and oak in October of 2017 as part of Sale Name: Crowd Control Oak; Sale Number: 54-010-13.																																																									
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79	4311 - Pine, Aspen Mix	Sapling Well	9.7	26	51-80	N/A	The aspen and red maple are mostly suppressed. The red pine diameter growth increased tremendously after the Harvest was done in 1994. Trees with a merchantable stick in this stand were harvested in the early fall of 1994 as part of Timber Sale Name: Blue Light Special; Timber Sale Number: 54-046-93. Oak and marked red pine and white pine were retained.																																																									
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80	4130 - Aspen	Poletimber Well	23.9	47	51-80	N/A	This is a very healthy stand of bigtooth aspen.																																																									
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81	4133 - Aspen, Mixed Pine	Poletimber Well	12.2	47	51-80	N/A	Legacy Oak and white pine are present. The north half of the stand is upland mixed forest with a consistent but lesser aspen presence and the southern half of the stand is dominant to aspen.																																																									
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82	4123 - Red Oak	Sawtimber Well	47.7	107	1-50	N/A	Scattered pockets of log sized aspen are present. These are medium or better quality oak. There is trace pine in the canopy. New stand added.																																																									
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84	4123 - Red Oak	Sawtimber Well	21.2	107	51-80	N/A	The center of the stand only showed about 5% aspen.																																												
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85	3102 - Grass	Nonstocked	2.3		Immature		This is a producing gas well pad.																																												
86	4130 - Aspen	Sapling Well	8.4	6	Immature	N/A	The harvest on this stand was completed in December of 2014 as part of Timber Sale Name: Lemon Q-Tip Aspen; Sale Number: 54-006-13. The sparse amount of red pine, white pine, and 1 oak/acre were retained.																																												
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87	4130 - Aspen	Poletimber Well	30.0	36	1-50	N/A	There are stretches in the middle of the stand dominate to red maple and oak with minimal aspen. The sale that this stand was harvested with was TCRed in August of 1985 as Timber Sale Name: Good Couch Block; Timber Sale Number: 54-044-83.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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89 4123 - Red Oak Sawtimber Well 7.6 107 51-80 N/A -left as buffer from aspen cc to east, mostly oak and some aspen

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	68	Log/XLog/Pole	14	107	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	10	Log/Pole	12		Black Cherry	Low	Variable	Sapling
Red Maple	15	Pole/Log	8		Witch Hazel	High	Variable	Tall Shrub
Red Pine	1	Log	12		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
White Pine	1	Pole	8		White Pine	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
					Red Oak	Trace	10 - 20 feet	Sapling
					Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub

90 6239 - Mixed Emergent Wetland Nonstocked 5.5 No OI- This is a wet, often flooded site. It is a backwater of a flooding caused by beavers on Chadwick Creek. The creek is actually southwest in another compartment. There is marsh grass here, some tag alder, and some conifer on hummucks or higher ground. The outskirts tend to have more balsam fir and lowland aspen. Continue to direct beaver trappers here.

91 4123 - Red Oak Sawtimber Poor 80.1 108 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	90	XLog/Log	19	108	Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Red Pine	10	XLog/Log	18		Red Oak	Trace	< 5 feet	Sapling
					Red Maple	High	< 5 feet	Sapling
					Red Pine	Trace	Variable	Sapling
					Bigtooth Aspen	Low	Variable	Sapling

The remaining oak are of medium to high quality. Epicormic branching was not observed. There is sparse to no oak regeneration. Red pine seedlings are establishing and holding where red pine were retained in the canopy. The red pine regen was 6" tall. The oak regen was in the form of heavily browsed stump sprouts with about 6" remaining.

A shelterwood harvest of this stand was completed in December of 2017 as part of Sale Name: Crowd Control Oak; Sale Number: 54-010-13. 44 BA of oak and pine were retained.

Inventory YOE 2013 Notes:
-removed all RM, Aspen and RO pulp in 1973
-101yrs and 75ft- 49
-101yrs and 91ft- 69
-93yrs and 78ft- 55
-si- 58

92 3102 - Grass Nonstocked 1.7 Managed Opening OI -used log landing to create opening. Close roads.

93 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 11.4 35 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole/Sapling	7	35	Balsam Fir	Medium	Variable	Sapling
Paper Birch	10	Pole	8		Black Cherry	Low	Variable	Tall Shrub
Quaking Aspen	10	Pole/Sapling	5		Tag Alder	High	Variable	Tall Shrub
Balsam Fir	20	Pole/Sapling	6		Serviceberry (Juneberry)	Medium	Variable	Tall Shrub
Balsam Poplar	5	Pole	8					

This stand is too wet to harvest. This stand has red maple on patches of slightly higher ground with mucky patches throughout the stand. The red maple are short and limby.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
94	3102 - Grass	Nonstocked	2.8			Managed Opening	The opening is in excellent shape to be planted, but it does not look like it has been planted in a number of years. This 3 acre opening was created in 1985 per a 1983 FTP.																																																																
95	6112 - Lowland Aspen	Poletimber Well	30.5	35		N/A	The sale that this stand was harvested with was TCRed in August of 1985 as Timber Sale Name: Good Couch Block; Timber Sale Number: 54-044-83. All trees with a merchantable stick were harvested with the exception of oak and red pine.																																																																
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96	122 - Road/Parking Lot	Nonstocked	3.6			No	County Road 487																																																																
97	4134 - Aspen, Spruce/Fir	Poletimber Well	7.6	45	1-50	N/A	There is trace oak , white pine, and red pine in the canopy.																																																																
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98	4123 - Red Oak	Sawtimber Well	40.0	98	51-80	N/A	A majority of the red maple and aspen are resulting regeneration of the 1984 thinning. The oak are well spread out and the overall BA is low. All trees with a merchantable stick with the exception of oak and ash were harvested from the northern 22 acres of this stand in 1984. All aspen and red maple with a merchantable stick in the southern 15 acres of the stand were harvested in 1984. Inventory 2013 YOE Notes: -ParVvb site, high amounts 70-80% coverage of rm in subcanopy -most oak crowns have full release -only dense rm in any canopy gaps -majority of rm under 2 in dbh -lesser amts of witchhazel compared to other oak stands -no adv oak found -rolling terrain																																																																
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99	4131 - Aspen, Oak	Sapling Poor	41.6	6	1-50	N/A	<p>Overall, the regeneration has room to grow. The oak left standing are of medium to high quality and have minimal epicormic branching. White pine are seeding in around and west of the mature white pine retained to the north.</p> <p>The harvest on this stand was completed in November of 2014 as part of Timber Sale Name: Lemon Q-Tip Aspen; Sale Number: 54-006-13. The red pine, white pine, and oak were retained.</p> <p>Inventory 2013 YOE Notes: -many pole & some log red oak have been left, will be a variable stand with many mast oak in future -two-aged once regen survey is complete -cruise residual BA came out to 30BA overall of oak and 5 BA rp and wp, probably 10-20 BA in west half with 40-50 in east half -stand was originally part of stand 128</p>																																										
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100	4130 - Aspen	Sapling Well	25.3	6	Immature	N/A	<p>There is trace white pine and red pine pole-log trees that were retained. The harvest on this stand was completed in November of 2014 as part of Timber Sale Name: Lemon Q-Tip Aspen; Sale Number: 54-006-13. The sparse amount of red pine, white pine, and oak were retained.</p>																																										
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101	6122 - Black Spruce	Poletimber Well	19.2	98	51-80	N/A	<p>There is some diversity in canopy species around the outer edges. The core of the stand is dominated by black spruce. This stand has is hummocky with standing water throughout. This stand is too wet to harvest.</p>																																										
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102	3102 - Grass	Nonstocked	1.1				This is a producing gas well pad.																																										
103	3102 - Grass	Nonstocked	3.6			No																																											
104	3102 - Grass	Nonstocked	1.7			Managed Opening																																											
105	4130 - Aspen	Poletimber Well	3.0	33	Unspecified	N/A																																											
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106	4130 - Aspen	Sapling Well	63.5	8	Immature	N/A	On the ground it does not look like trees that were submerchantable were retained. Very sparse scattered log to X-log size white pine, red pine, and oak were retained. All trees with a merchantable stick were harvested in this stand in the summer of 2013 as part of Timber Sale Name: Picture Day Aspen; Timber Sale No.: 54-033-10.																																																							
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107	3102 - Grass	Nonstocked	2.0		Immature	Managed Opening	This is a grass opening with aspen saplings growing in from the sides.																																																							
108	3102 - Grass	Nonstocked	6.5			Managed Opening	The opening is in excellent shape to be planted, but it does not look like it has been planted in a number of years.																																																							
109	4130 - Aspen	Poletimber Well	32.4	48	81-110	N/A	The aspen are healthy and doing well. Aspen, birch, red maple, and oak were harvested from the west half of this stand in 1973. Clumps of oak at intervals of 400 ft were retained along the lowland edge to the south.																																																							
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110	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.4	98	51-80	N/A	The hardwoods in this stand are of low quality with the exception of the oak which are of medium to high quality.																																																							
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111	3102 - Grass	Nonstocked	1.0		Unspecified	Managed Opening	This food plot has been planted recently. There is a handful of mass-producing oak within the opening but plenty of room for planning.																																																							
112	6123 - Lowland Fir	Sapling Medium	5.8	30	Immature	N/A	This stand has small diameter trees and very little volume. This stand will not be ready for harvest for a long time. Parts of the stand are too wet to harvest. Do not harvest this stand with adjacent stand.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
113	6112 - Lowland Aspen	Poletimber Well	24.0	59	51-80	N/A	There are older aspen in the center of the stand with some slightly younger and slightly smaller diameter aspen at the east and west ends of the stand. The aspen are of low quality and are experiencing decay.																																																								
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114	3102 - Grass	Nonstocked	3.3		Unspecified	Managed Opening	This is a wildlife opening with somewhat low ground in places.																																																								
115	4199 - Other Mixed Upland Deciduous	Sawtimber Well	3.4	97	81-110	N/A	Inventory 2023 BA Measurements: (100, 90, 70, 110). There are quality oak, sugar maple, and red maple in this stand.																																																								
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116	3102 - Grass	Nonstocked	0.8			Managed Opening	This is a producing gas well pad.																																																								
117	4131 - Aspen, Oak	Sawtimber Well	28.2	58	81-110	N/A	All aspen, paper birch, cherry, and oak were harvested from the portion of this stand east of the county road from 1979-80. Inventory 2013 YOE Notes: -aspen and red maple removed in the 60s, so year of origin is for the older oak -part of stand was cut to north for aspen MO																																																								
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119	3102 - Grass	Nonstocked	0.6	0			This is a producing gas well pad.																																																								
121	6130 - Fir, Aspen, Maple	Poletimber Well	8.8	70	51-80	N/A	This stand is too wet to harvest and may be land locked. There is some ground at the south end of the stand that might be harvestable. This is where the majority of the quaking aspen is.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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122 3102 - Grass Nonstocked 1.0 0 No

123 4131 - Aspen, Oak Poletimber Well 8.0 47 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	60	Pole	8	47	Balsam Fir	Medium	Variable	Sapling
Red Oak	20	XLog/Log	19					
Red Maple	10	Pole	6					
Balsam Fir	10	Pole	9					

The prescription that follows is accurate to what's on the ground. The oak that were retained on ridges are large in diameter; healthy with large crowns.

The aspen, red maple, paper birch, ash, and oak were harvested from this stand in 1974. Oak having ten inch stump diameters or greater were retained on ridge tops.

124 4130 - Aspen Sawtimber Well 21.3 58 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	87	Log/Pole	10	58	Red Maple	Full	>20 feet	Sapling
Red Pine	1	XLog/Log	19		Red Pine	Trace	10 - 20 feet	Sapling
Quaking Aspen	5	Log/Pole	10		Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
Red Oak	5	XLog/Log	20		Red Oak	Low	Variable	Sapling
Jack Pine	2	Pole	7		White Pine	Low	Variable	Sapling

125 4199 - Other Mixed Upland Deciduous Poletimber Well 7.6 35 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Pole/Sapling	6	35	Serviceberry (Juneberry)	Low	Variable	Sapling
Red Maple	10	Pole/Sapling	5		White Pine	Low	Variable	Sapling
Red Oak	31	Log/XLog	16	107	Red Pine	Trace	Variable	Sapling
Red Oak	20	Pole/Sapling	5					
Jack Pine	2	Pole	7					
Bigtooth Aspen	32	Pole/Sapling	6	35				

All aspen and jack pine with a merchantable stick were removed from this stand and the stand to the east at a total of 22 acres in 1985 as Timber Sale Name: Gray Dog Block; Timber Sale Number: 54-059-83.

-THINNED 1985--gray dog sale removed aspen and jack pine
-scattered oak
-steep terrain to east

126 3102 - Grass Nonstocked 2.5 No

This is a producing gas well pad.

127 4123 - Red Oak Sawtimber Medium 2.5 107 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	70	Log/Pole/XLog	15	107	Witch Hazel	High	5 - 10 feet	Tall Shrub
Red Maple	10	Sapling/Pole	4					
Bigtooth Aspen	20	Pole/Sapling	6	35				

-THINNED 1985--gray dog sale removed aspen and jack pine-no-low adv oak regen-established subcanopy-very low oak adv regen stocking, blanket of rm in subcanopy-regen mostly aspen with some red maple-most rm over 15-20ft tall-found FIA plot in stand-over 50% of oak BA over 18in dbh-average si oak-left as buffer for road

128 4131 - Aspen, Oak Poletimber Well 52.5 47 51-80 N/A

This is quality, healthy bigtooth aspen and oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	60	Pole/Log	8	47	Red Maple	Medium	Variable	Sapling
Red Maple	15	Pole/Sapling	5		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Red Oak	25	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
129	3102 - Grass	Nonstocked	0.6	0			This is a producing gas well pad.																																		
130	3102 - Grass	Nonstocked	0.6			Managed Opening	This is a producing gas well pad.																																		
131	3102 - Grass	Nonstocked	0.7	0	Unspecified		This is a producing gas well pad.																																		
132	3102 - Grass	Nonstocked	0.9	0			This is a producing gas well pad.																																		
133	623 - Emergent Wetland	Nonstocked	1.4		Immature	No	This portion of the stand did not regenerate and is now mostly cattails.																																		
134	4131 - Aspen, Oak	Poletimber Well	4.8	51		N/A	-may need survey, find corners																																		
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Oak (spp.)	Low	Variable	Sapling																																						
135	6116 - Lowland Birch	Poletimber Medium	2.8	75	1-50	N/A	This stand is too wet to harvest.																																		
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137	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.0	110	81-110	N/A																																			
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Balsam Fir	Low	Variable	Sapling																																						
138	622 - Lowland Shrub	Nonstocked	0.4		Unspecified	No																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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139 6124 - Lowland Spruce-Fir Poletimber Medium 2.1 57 N/A This stand is too wet to harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Sapling	5		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	35	Pole	8	57				
Black Spruce	15	Pole	6					
Northern White Cedar	10	Pole	7					
Balsam Poplar	5	Pole	8					
White Spruce	20	Log/Pole	11					

141 4130 - Aspen Poletimber Well 1.0 48 51-80 N/A This is long term retention from Timber Sale Name: Peach Fuzz Aspen; Timber Sale Number: 54-005-13.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	76	Pole/Log	9	48	White Pine	Medium	Variable	Sapling
Red Maple	20	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Red Oak	1	XLog	20		Red Maple	Medium	>20 feet	Sapling
Black Cherry	1	Pole/Sapling	5					
Red Pine	1	XLog	20					
Balsam Fir	1	Pole	9					

142 622 - Lowland Shrub Nonstocked 5.1 0 Unspecified No

143 622 - Lowland Shrub Nonstocked 2.7 Unspecified No

144 4121 - Oak, Aspen Sawtimber Well 5.1 86 51-80 N/A All oak stump sprouts have been browsed hard. A thinning of this small strip of land was completed in October of 2017. This strip was thinned to 74 BA as part of Sale Name: Crowd Control Oak; Sale Number: 54-010-13.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Log	12		Red Maple	High	5 - 10 feet	Sapling
Red Oak	62	Log/Pole	13	86	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	35	Log/Pole	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	2	Log	15		Red Oak	Trace	< 5 feet	Sapling
					Black Cherry	Low	Variable	Sapling

145 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 8.4 70 1-50 N/A This stand is a combination of inclusion pockets. To the east is where the quaking aspen is mostly located. Central there is a pocket of black spruce. To the north there is a couple acre pocket that was part of a timber sale where only sparse oak were retained and sparse regeneration is growing.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	17		Balsam Fir	Low	Variable	Sapling
White Oak	1	XLog	20		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Black Spruce	15	Pole/Sapling	5		Black Spruce	Low	Variable	Sapling
Balsam Fir	15	Pole	7					
Red Maple	20	Pole/Log	9					
Quaking Aspen	25	Log/Pole	11	70				
White Pine	5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
146	6121 - Tamarack	Poletimber Well	4.9	65	1-50	N/A	This stand is too wet to harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		50	Pole/Log	8		Balsam Fir	
Balsam Fir		50	Pole	7	65	Tag Alder	
						Density	Avg. Height
						Medium	Variable
						Size	Sapling
						Full	5 - 10 feet
							Tall Shrub
147	4134 - Aspen, Spruce/Fir	Poletimber Well	3.8	25	1-50	N/A	This stand was harvested with the exception of cedar in 1986 as part of Timber Sale Name: Crawling Low Block; Timber Sale Number 54-057-83.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Sapling	4		Balsam Fir	
Quaking Aspen		60	Pole/Sapling	5	25		
Balsam Fir		32	Pole/Sapling	5			
White Pine		2	Log	12			
Northern White Cedar		1	Pole/Log	9			
						Density	Avg. Height
						High	Variable
						Size	Sapling
148	4123 - Red Oak	Sawtimber Well	1.1	107	81-110	N/A	This stand is long term retention from the harvest of the surrounding stand in September of 2014 as part of Timber Sale Name: Peach Fuzz Aspen; Timber Sale Number: 54-005-13.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Pole	8		White Pine	
Red Oak		65	XLog/Log	20	107		
Bigtooth Aspen		20	Log/Pole	11	58		
Red Maple		10	Pole	6			
						Density	Avg. Height
						Medium	Variable
						Size	Sapling
149	4130 - Aspen	Poletimber Well	32.8	48	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		15	Pole	7		Balsam Fir	
Red Maple		5	Pole	7		Serviceberry (Juneberry)	
White Pine		1	Log	12		Black Cherry	
Red Oak		1	XLog	22		White Pine	
Quaking Aspen		67	Pole	8	48	Witch Hazel	
Bigtooth Aspen		10	Pole	8	48		
Jack Pine		1	Pole	7			
						Density	Avg. Height
						Medium	Variable
						Size	Sapling
						Low	Variable
						Low	Variable
						Trace	Variable
						Low	5 - 10 feet
							Tall Shrub
150	4130 - Aspen	Sawtimber Well	0.8	58	81-110	N/A	This stand is long term retention from the harvest of the surrounding stand in September of 2014 as part of Timber Sale Name: Peach Fuzz Aspen; Timber Sale Number: 54-005-13.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		70	Log/Pole	11	58	White Pine	
Red Maple		25	Log	11		Red Oak	
Red Oak		5	Log	15		Red Maple	
						Density	Avg. Height
						Medium	Variable
						Size	Sapling
						Low	Variable
						Low	Variable



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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151	42340 - Upland Spruce/Fir	Poletimber Well	6.3	59	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	25	Pole/Log	8		Balsam Fir	High	Variable	Sapling
Quaking Aspen	5	Pole	7		Black Spruce	Low	Variable	Sapling
Balsam Fir	33	Pole	7	59	Tamarack	Low	Variable	Sapling
Tamarack	5	Pole/Log	8					
Black Spruce	29	Pole/Log	8					
Red Pine	1	XLog/Log	18					
White Pine	2	Log/XLog	13					