



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73140

Entry Year 2025

Acreage: 2,683

County Arenac

Management Area: Gladwin Lake Plain

Stand Examiner: Steve Nyhoff

Legal Description:

T19N R5E Sec 13, 14, 22 - 24; T19N R6E Sec 17 - 20

Identified Planning Goals:

Vegetation management in the Gladwin Lake Plain management area (MA) (Figure 4.32.1) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Rifle River, a designated natural river north of the city of Omer; the Lame Duck Foot Access Area, a high conservation value area; several wildlife area floodings; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen and red pine. Wildlife habitat management objectives include perpetuating early successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use, trash dumping and increased recreational pressure.

Soil and topography:

Most of this compartment is flat, low, and wet, except the western portion of the compartment along the Rifle River. The river has a high floodplain, so it rarely sees extensive flooding. The soils along the river are rich and have sufficient drainage to support northern hardwoods. Lake Huron is 2 miles to the south.

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

Wigwam Bay State Game Area lies just to the south of this compartment. The surrounding private land is mostly forested and has been subdivided into 10-to-20-acre parcels. Many of the parcels along M-23, Conrad Rd., Arenac State Rd., and M-65 are residential properties. The Town of Omer is just to the west of the compartment. The land to the southwest is heavy to farmland.

Unique Natural Features:

The Michigan Natural Features Inventory (MNFI) database indicated one species with the status of State Special Concern in the areas. Mitigation measures will be determined from the MNFI abstract for the organism and will be incorporated into the prescriptions for the timber harvests that may potentially affect the organism.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The Rifle River flows through the compartment. The portion of the river north of Omer is classified as a Natural River. The rest of it does not have the same restrictions. There are also several man-made drains that cut through the compartment and flow into the Rifle River. The portion of the river in this compartment is heavily fished in the spring during the sucker season. Any management activity should be designed to avoid any increase in erosion and sedimentation.

Wildlife Habitat Considerations:

The compartment contains a variety of habitat types suitable for many wildlife species. The compartment includes the Rifle River and adjacent large lowland complexes. These lowlands support various waterfowl, reptiles, amphibians, and their predators including raccoon, bobcat, mink, and Great Blue Heron. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Many birds stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redbreasted vireo, white throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The compartment is easily accessible to hunters via Conrad Road or State Road.

Mineral Resource and Development Concerns and/or Restrictions

An active quarry producing sand & gravel and/or crushed limestone exists two miles northwest of the compartment.

Potential exists for the same resources within the compartment, but wetlands could inhibit surface mining. Some minor oil & gas production has occurred around Sec 10, T19N-R6E, but there has been no recent well activity in this area and sparse leasing of State-owned mineral rights. Potential for additional oil & gas development in the compartment is considered low at this time. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

Because over 60% of the compartment is lowland, there is limited access to most of it. The only exception is sections 22 and 23. These sections have more upland, and Conrad and Arenac State Roads run through the area. This upland area is bisected by the Rifle River, but there is access from both sides. A gate at the southeast edge of section 23 has done much to control past ORV and vehicle abuses of the area, although ORV abuse continues to be an issue.

Survey Needs:

There are monuments at 11 of the 43 corners in the compartment. An additional 3 monuments are useful in setting corners. Of the 27 treatments in this compartment this year of entry, 2 have all corners, 8 do not have all needed corners but can be mitigated, and 17 aren't adjacent to private land. Ten stands are factor limited because survey corners are needed. 11 corners are needed to put in blue line on currently treatments without needed mitigating measures. 13 additional corners would permit removal of limiting factors on 10 stands. 32 corners are needed to place monuments on all corners in the compartment.

Recreational Facilities and Opportunities:

There are no designated recreational facilities within this compartment. However, the Rifle River is heavily used by canoes and kayaks. Anglers also use the river extensively especially during the spring sucker season. Hunting is another popular recreational activity throughout the compartment.

Fire Protection:

Most of the compartment is lowland and has a low potential to carry fire unless there is a moderate or greater drought. The ash has died off which has opened the canopy to allow greater access for sunlight and wind. This could increase fire behavior if a fire did get started. This is mainly in sections 18 and 19. The jack pine bog complex could carry a fire under the right conditions. Much of the compartment has poor access which will limit firefighting activity. The upland areas in the western portion of the compartment have a greater potential for fire, but there is also better access.

Additional Compartment Information:

Stand 103 has been heavily damage by ORV. The site was degraded leaving exposed sand in 85% of the stand. Stand 114 has also been heavily damaged by ORVs by the making of illegal trails. They crisscross the stand. The access comes from the private land to the north and from the south where they are going around the existing gate.

The following reports from the Inventory are attached:

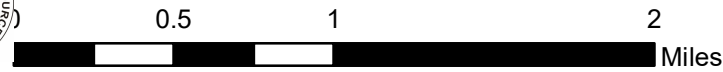
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

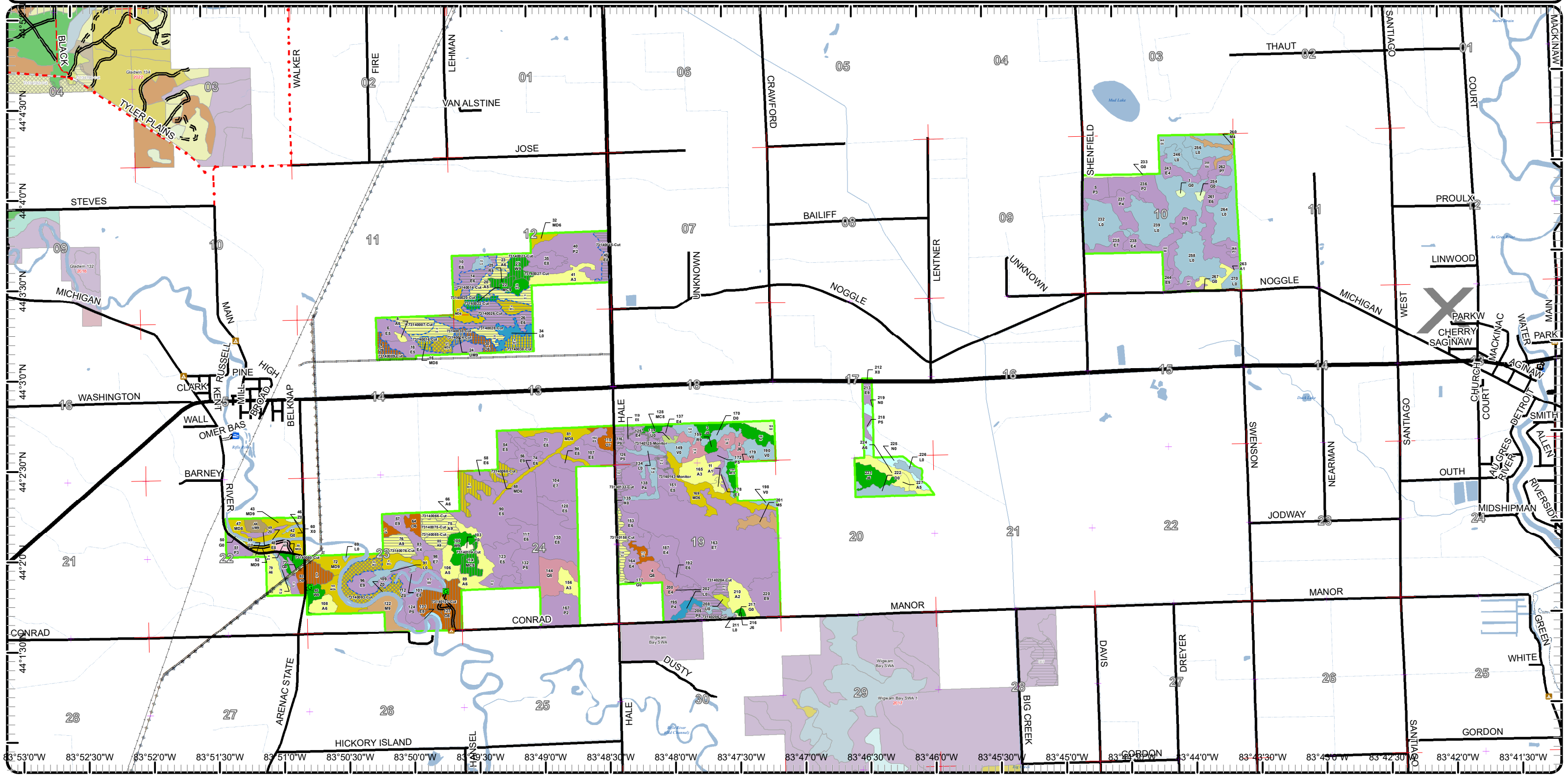
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 140
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 T19N-R06E Sec. 17-20
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 Unit: Gladwin
 Mgmt Area: Gladwin Lake Plain
 YOE: 2025
 Acres: 2682.9 GIS Calculated
 Examiner: Steve Nyhoff
 Map Revised: 5/24/2023
 Map Phase: Pre-Review

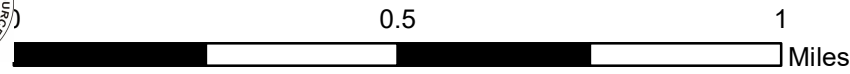
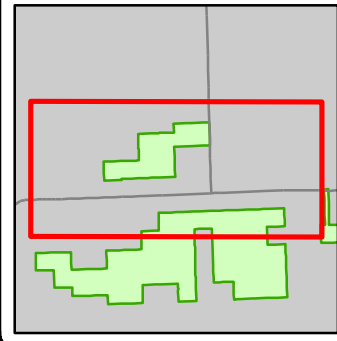


- Miris Corners
- Remonumented Section Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Active Railroads
- ▲ Berms
- ⬮ Gate
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- ⬮ Culvert
- ▲ Campground
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- Lakes and Rivers
- Pipeline
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- ⬮ Compartment Boundary
- ⊗ Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
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- 710 - Sand/Soil

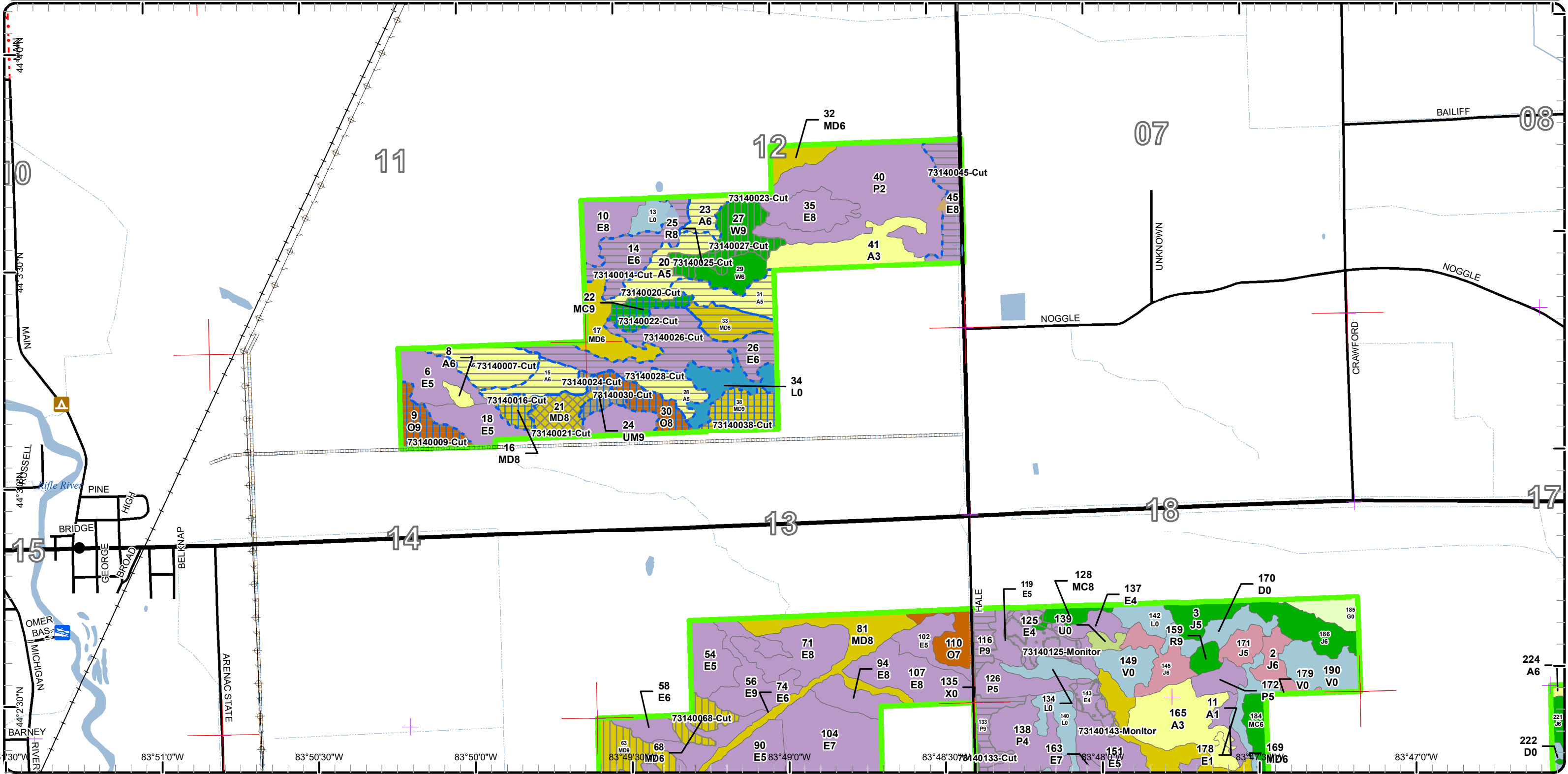


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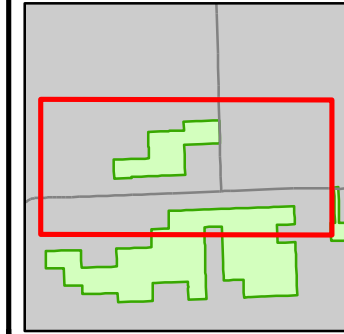


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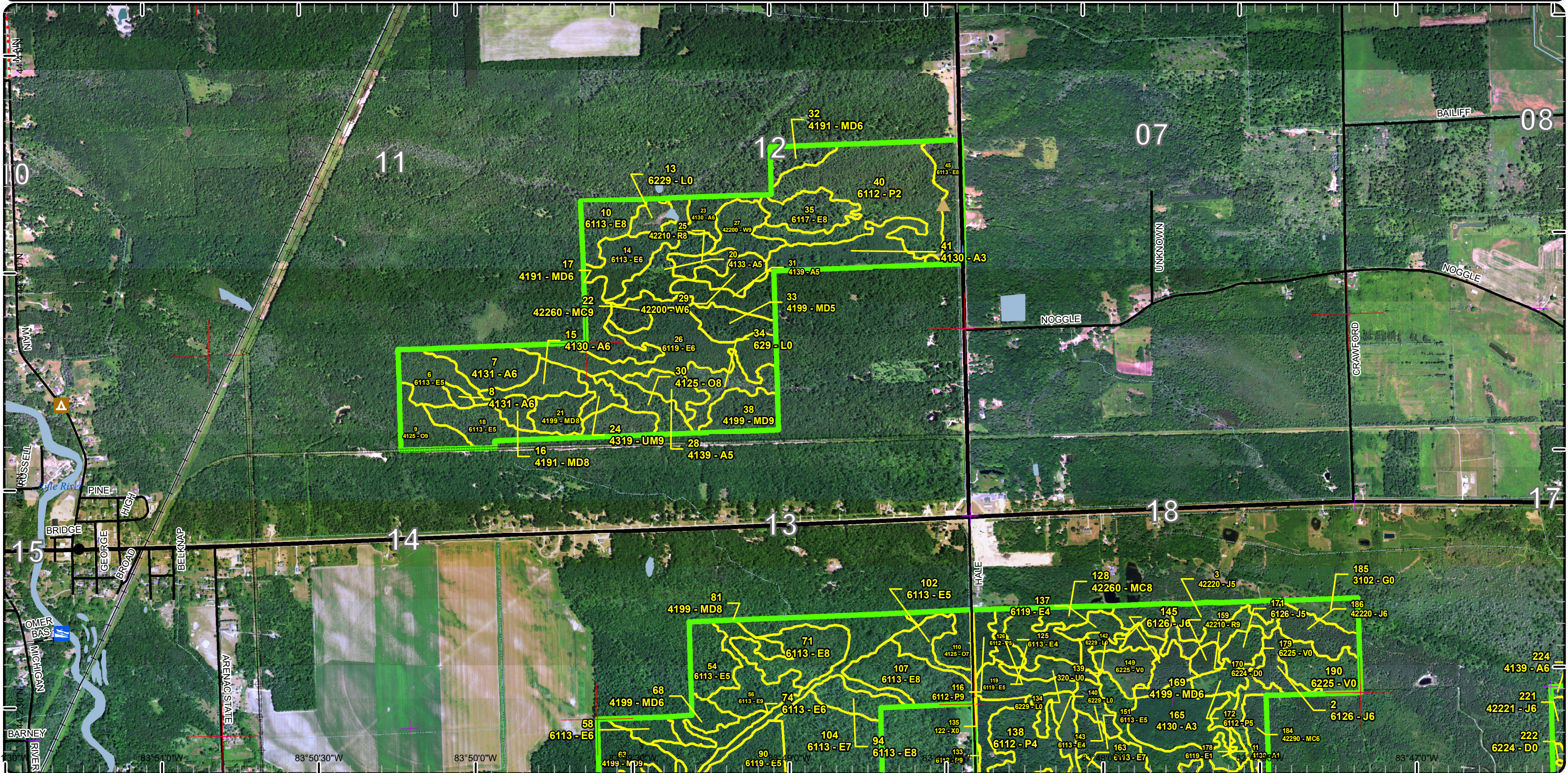


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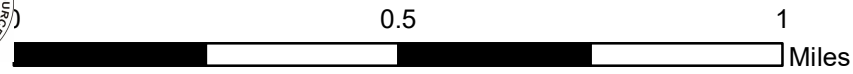
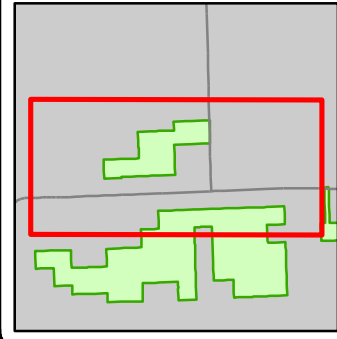


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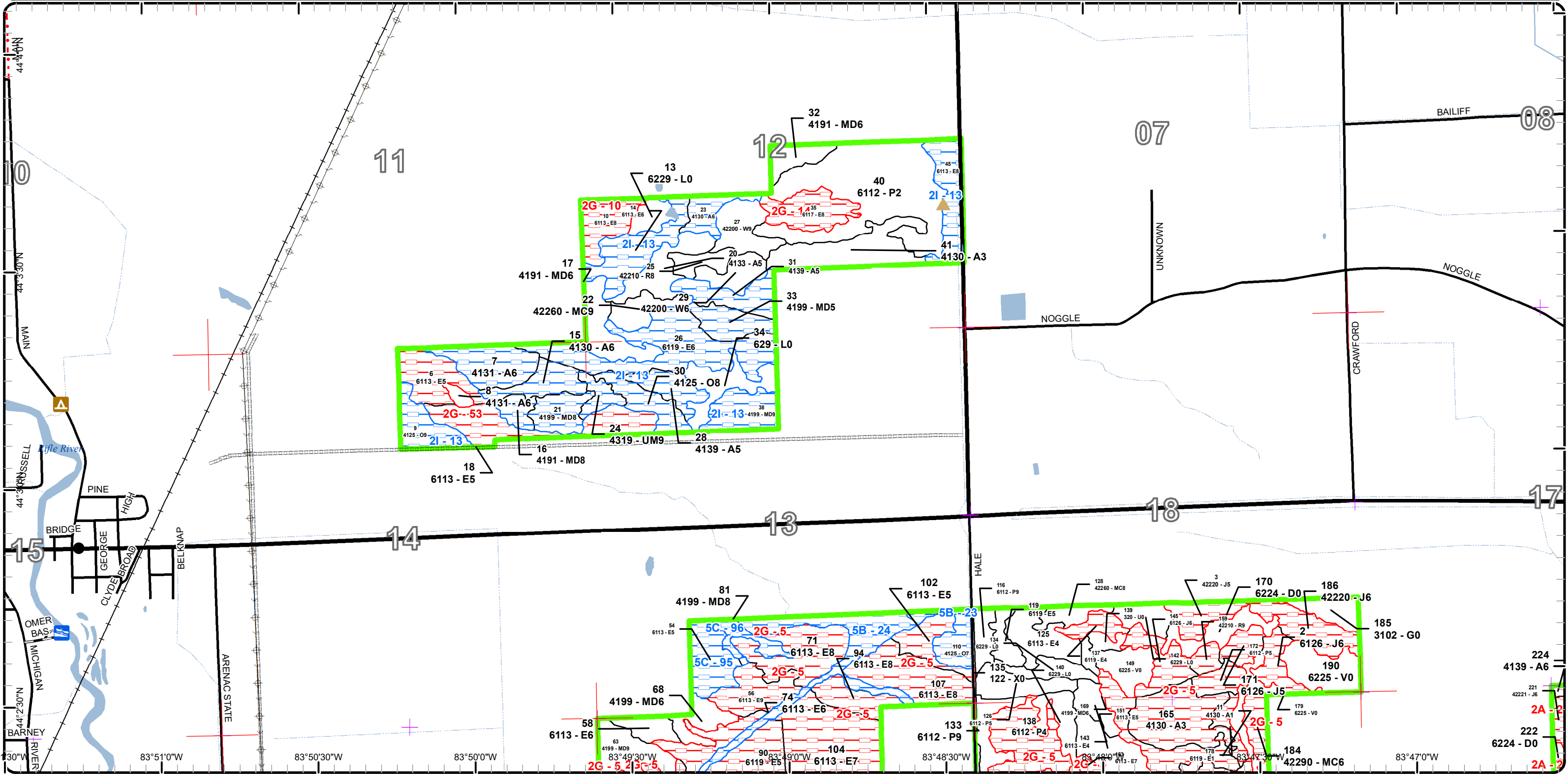


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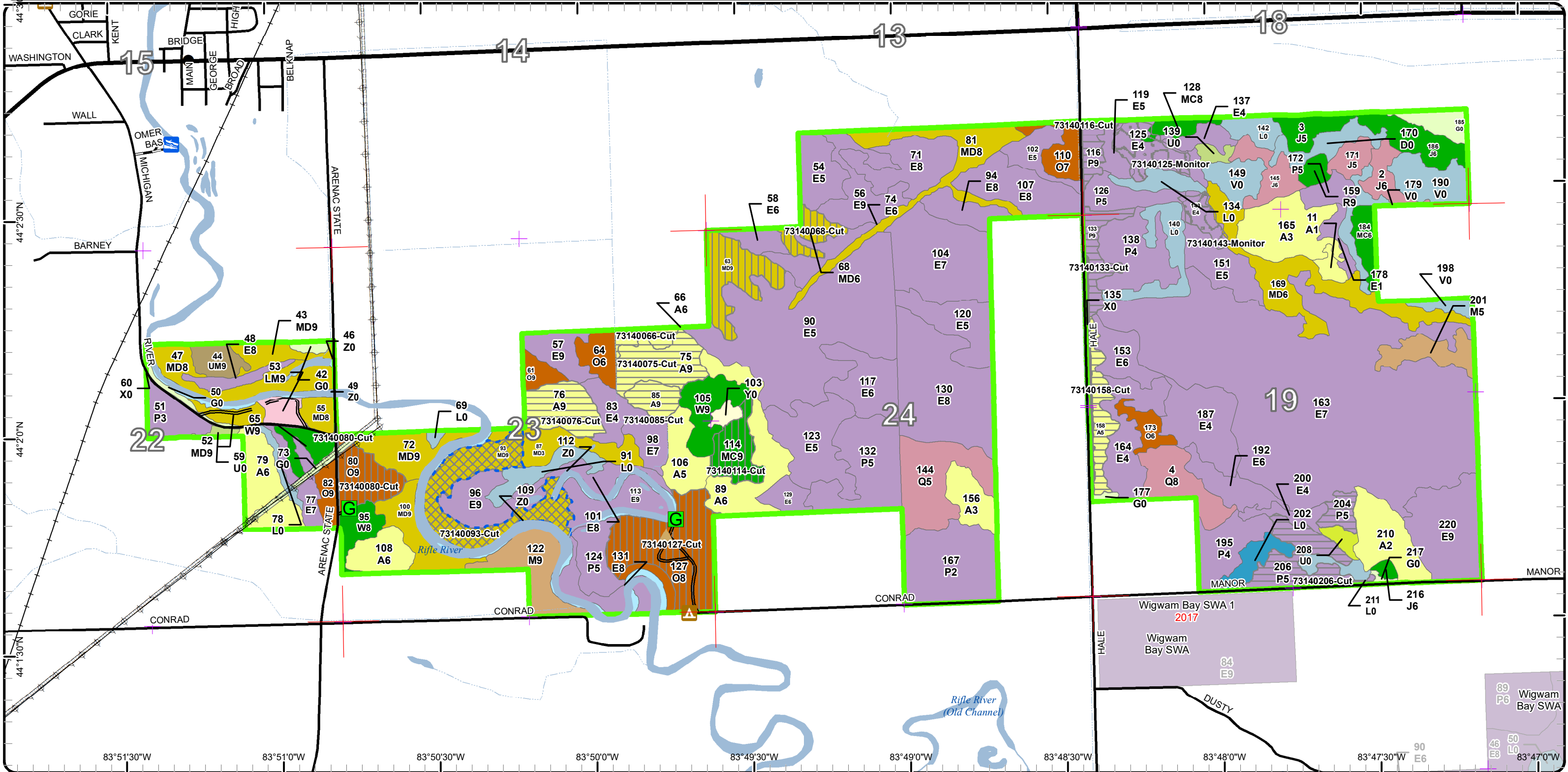


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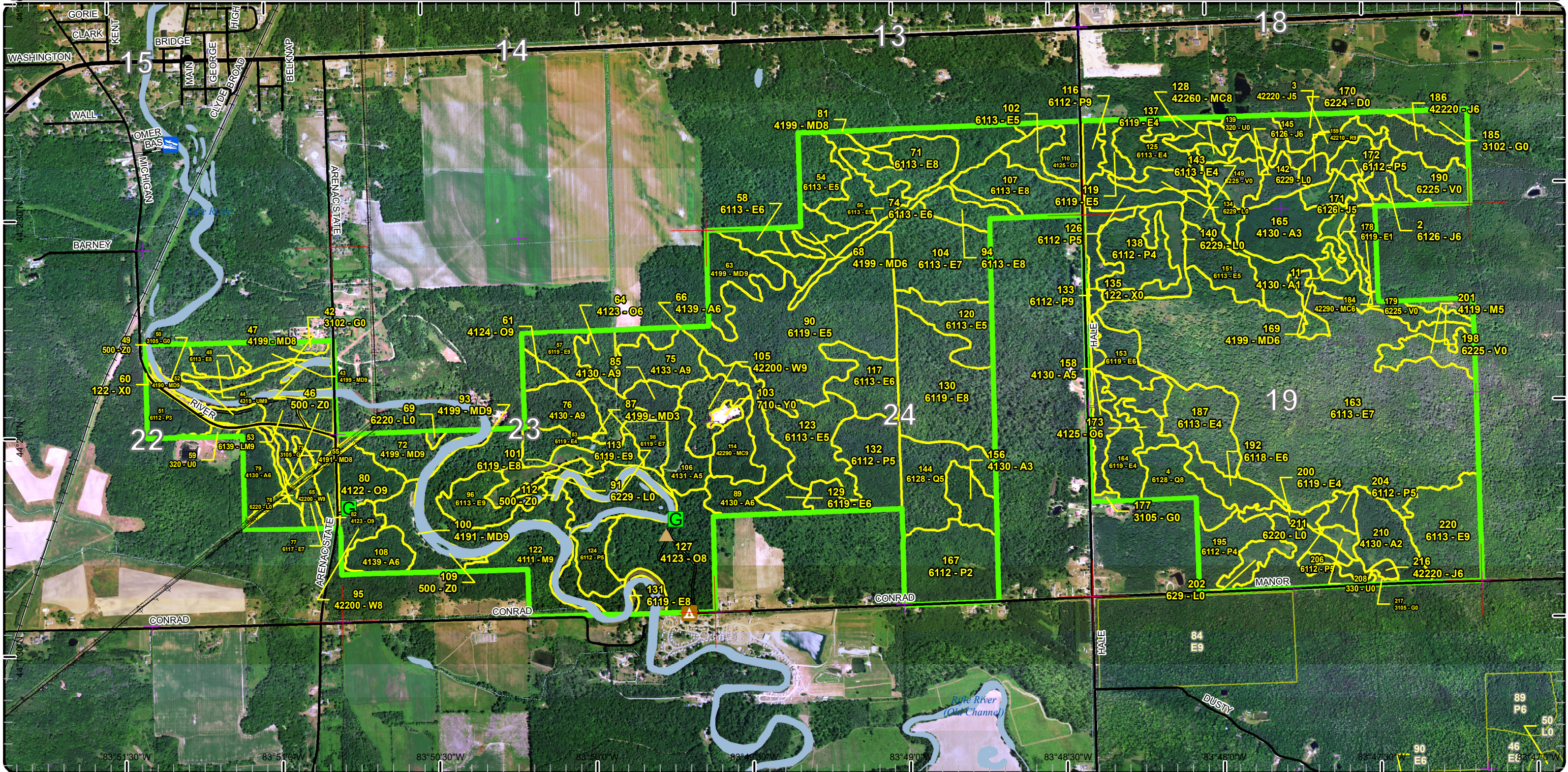


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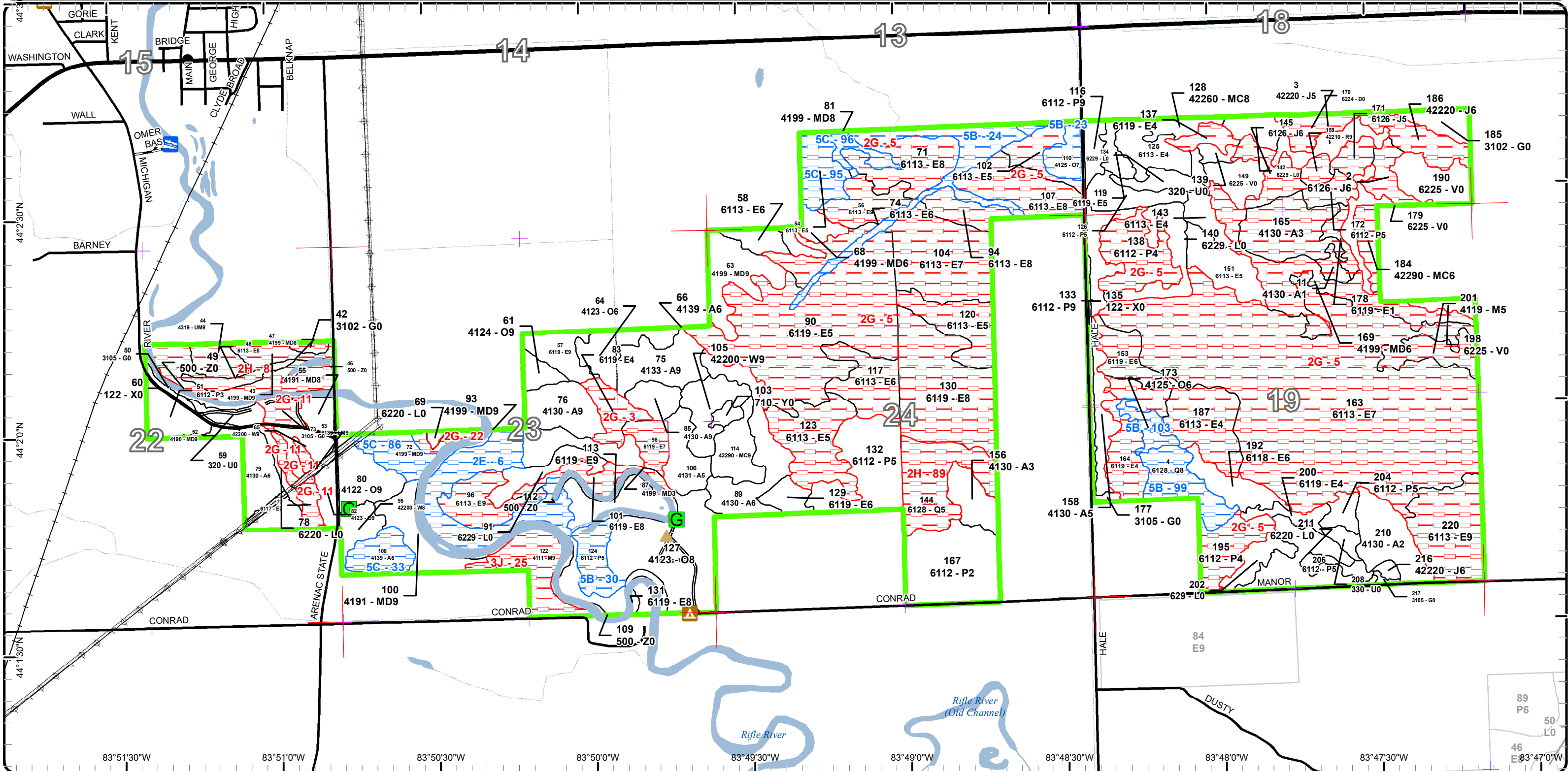


Special Conservation Areas

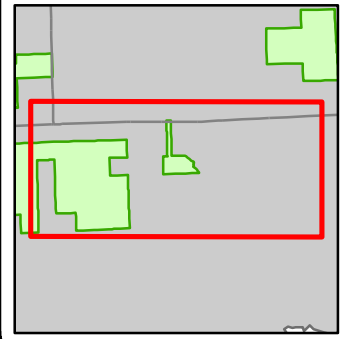
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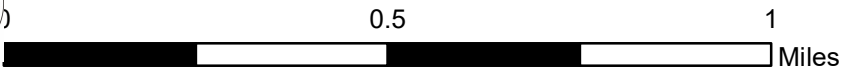
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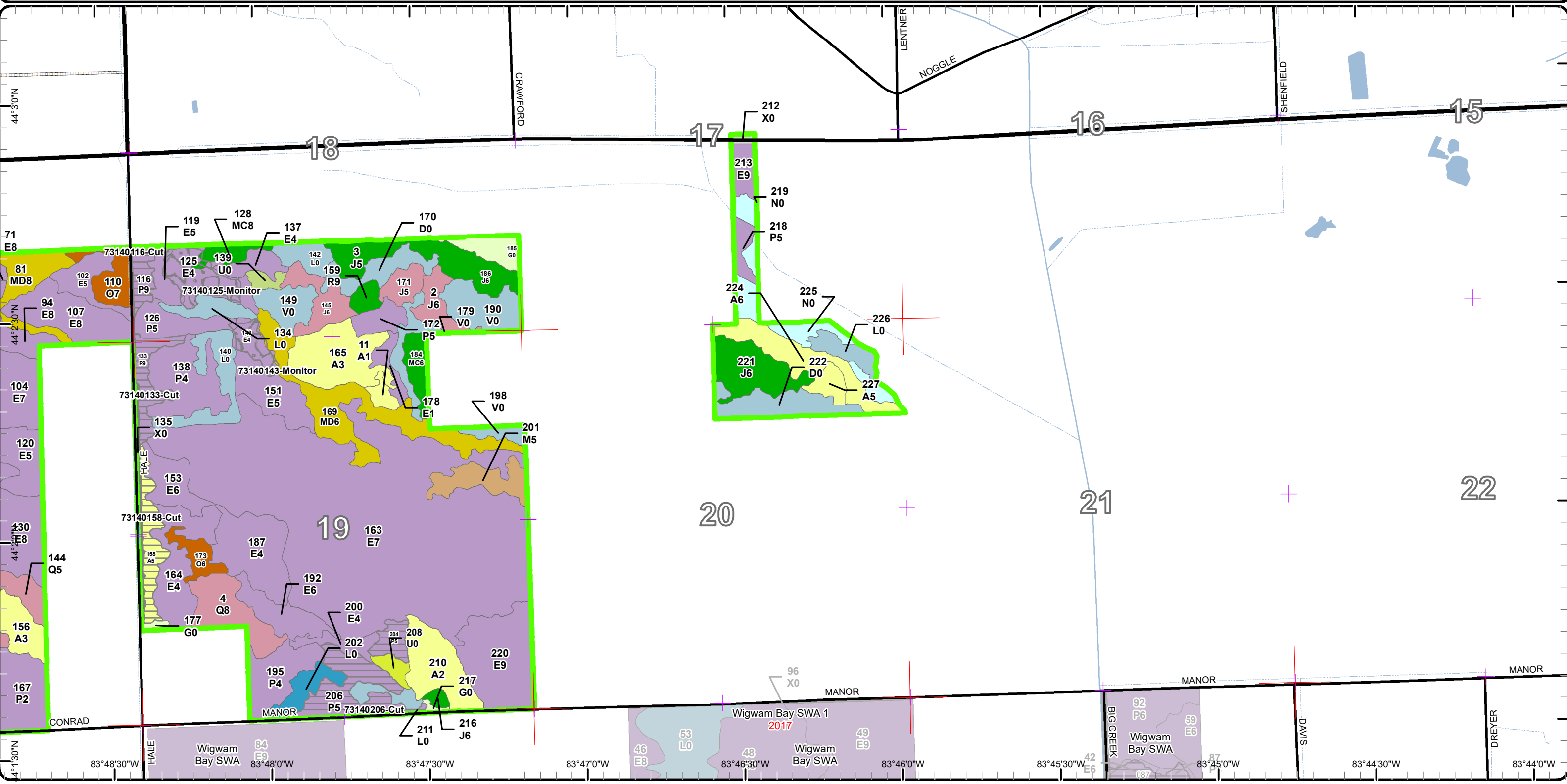
Cover Type & Treatments Map



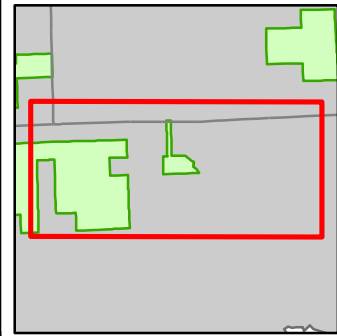
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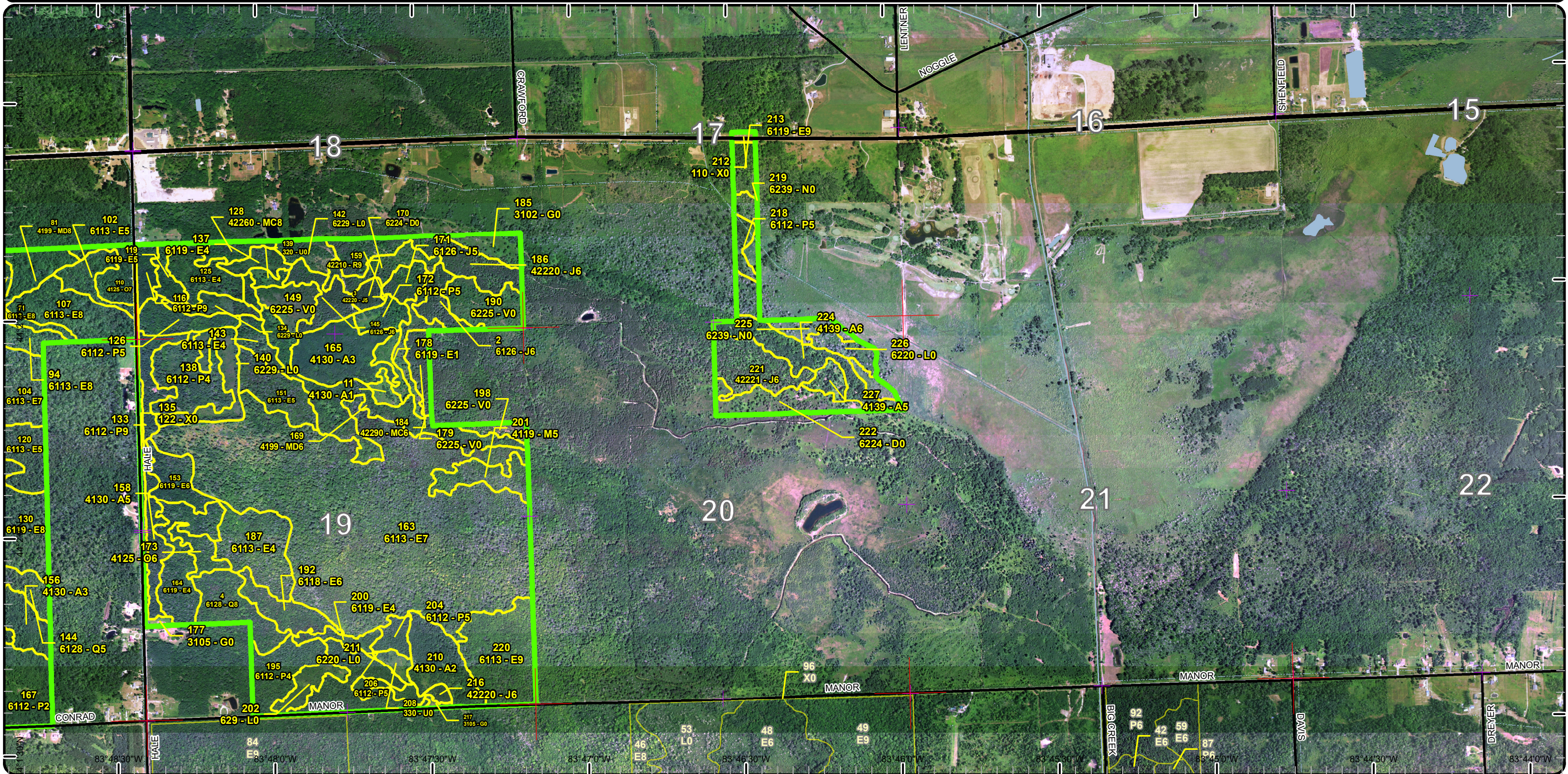
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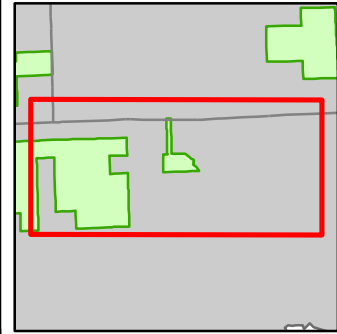


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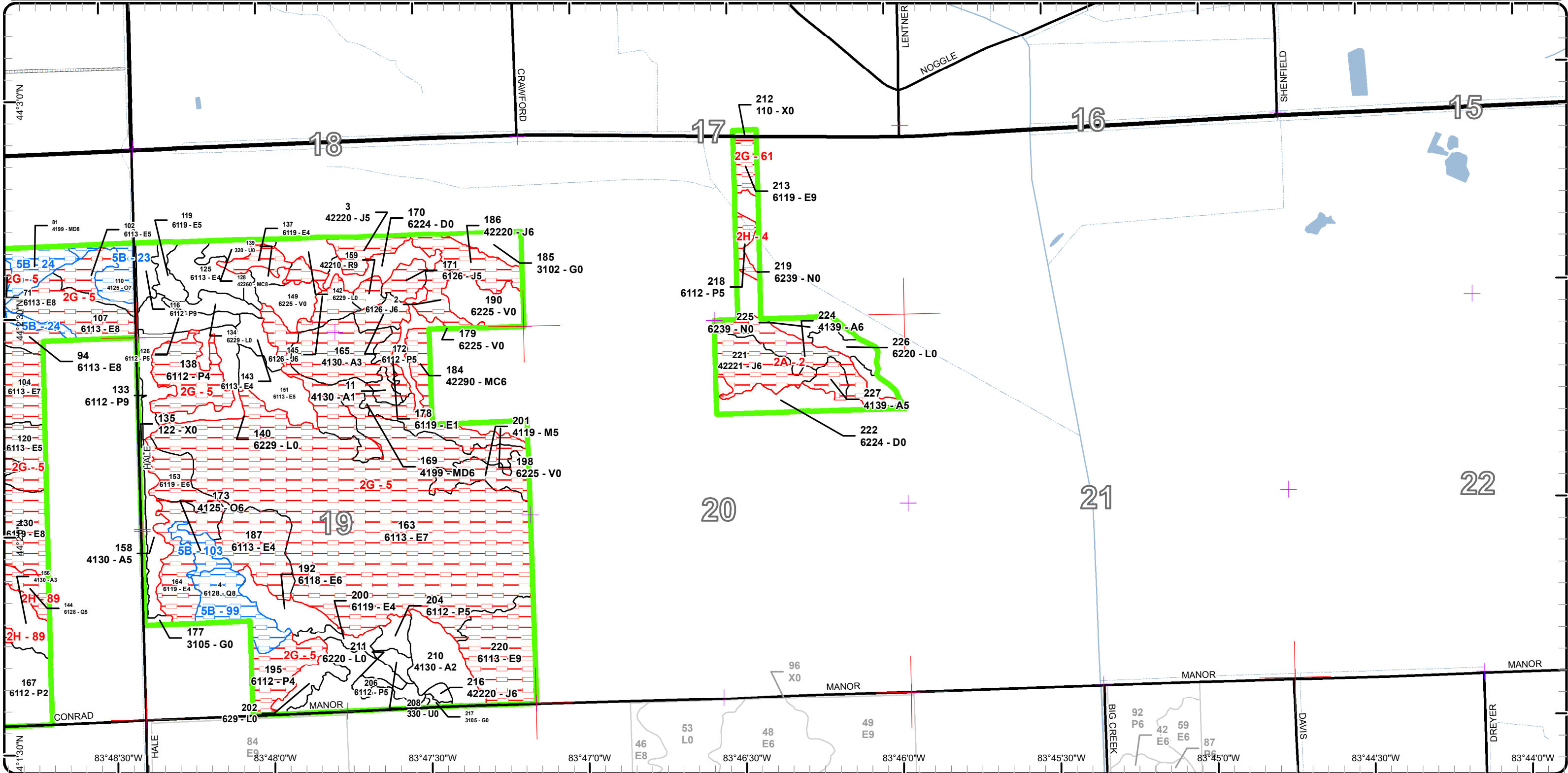


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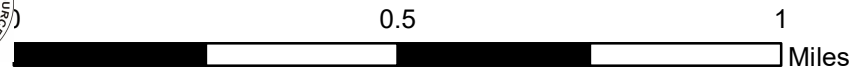
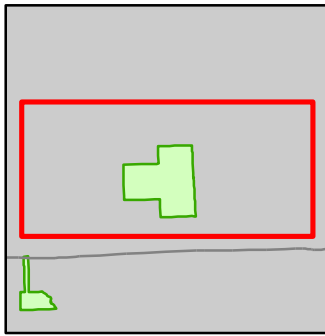


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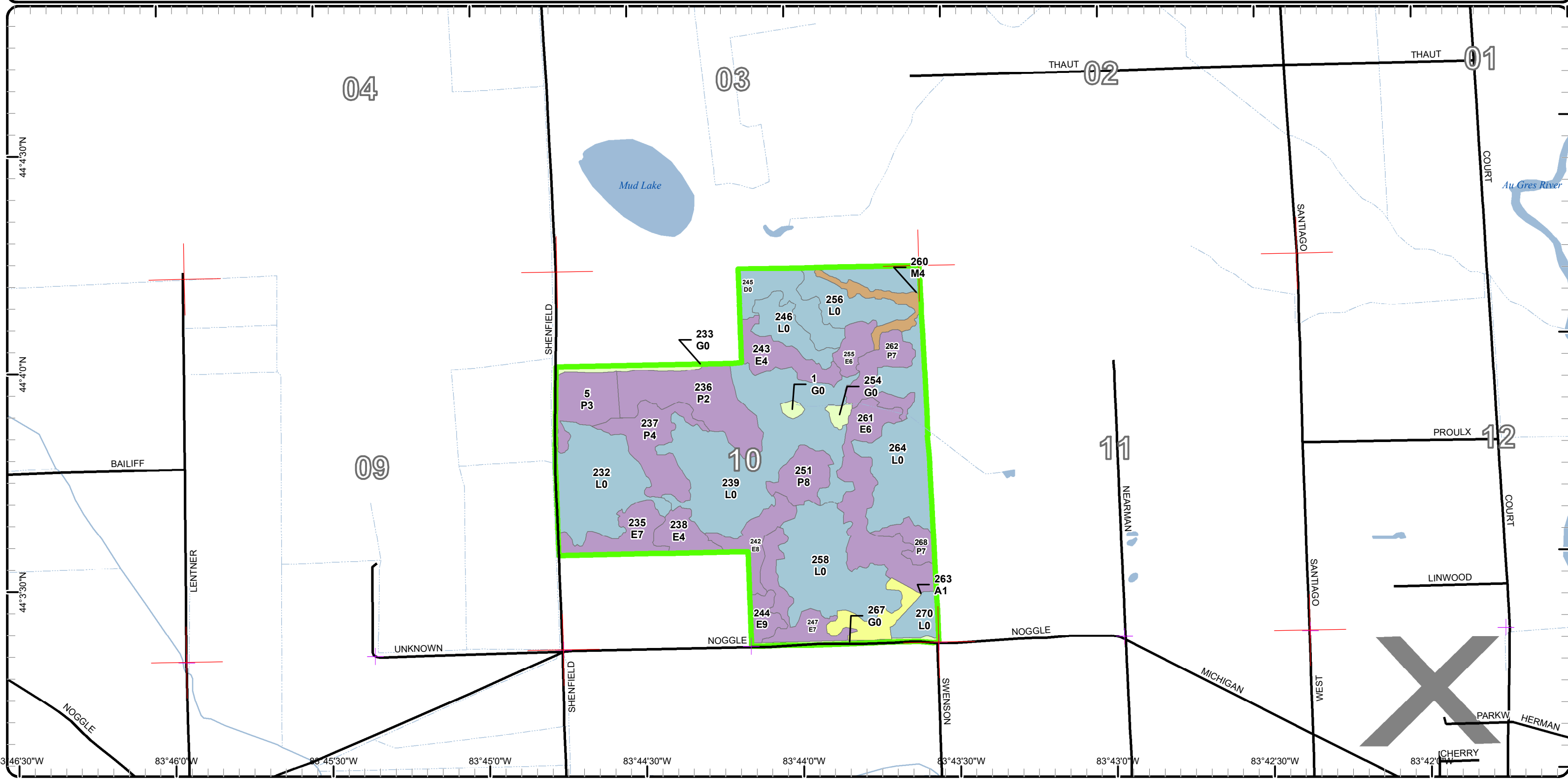


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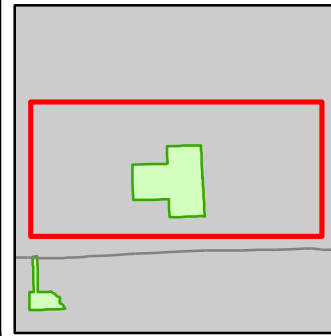
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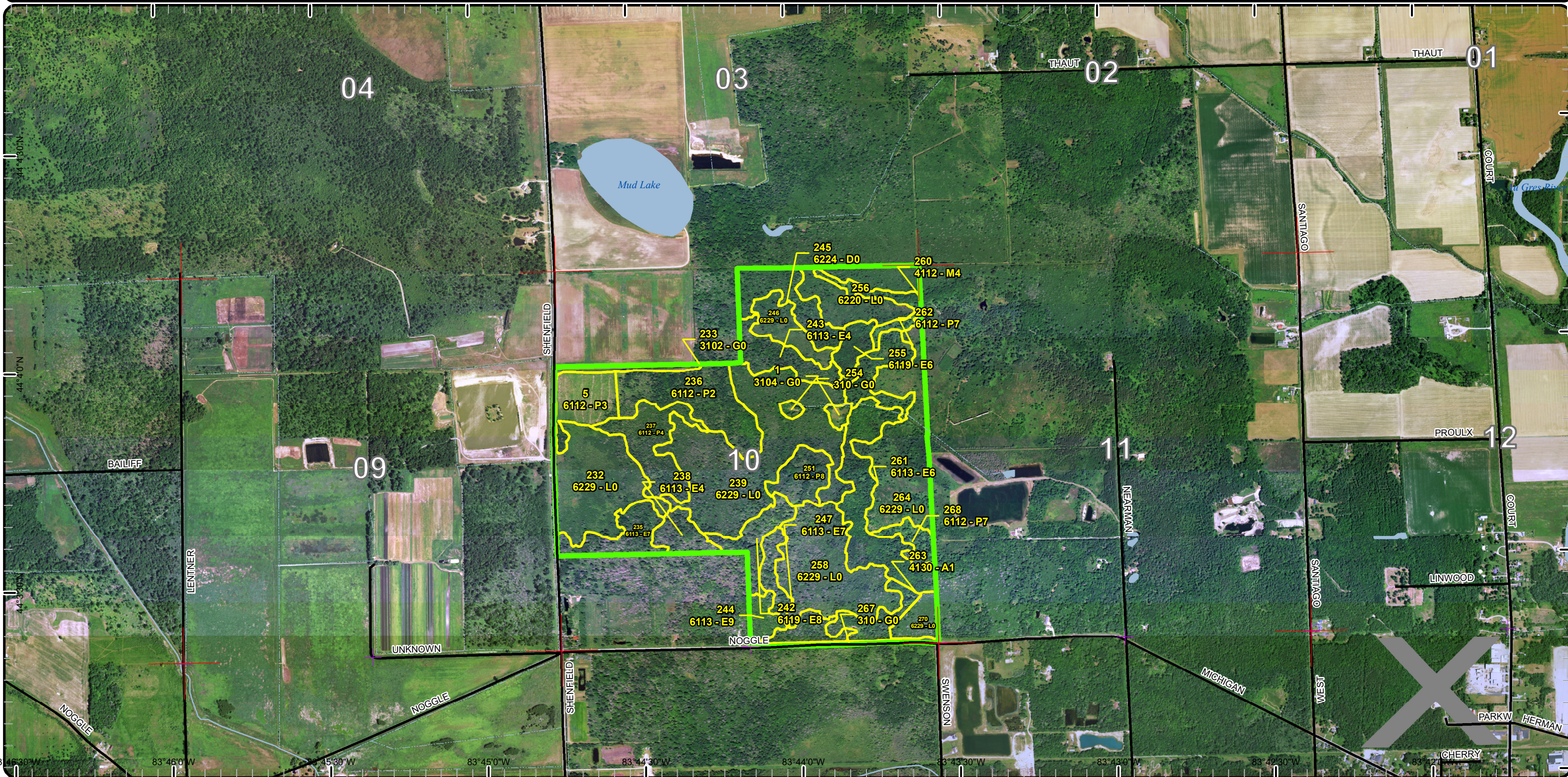
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 Examiner: Steve Nyhoff
 Map Revised: 5/24/2023
 Map Phase: Pre-Review

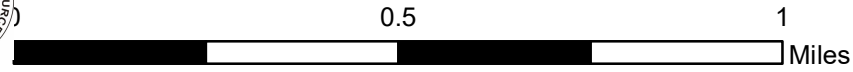
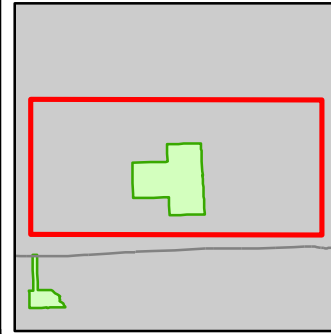


- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Airports
- Compartment Boundary
- Stand Boundaries
 - 411 - Northern Hardwood
 - 413 - Aspen
 - 611 - Lowland Deciduous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

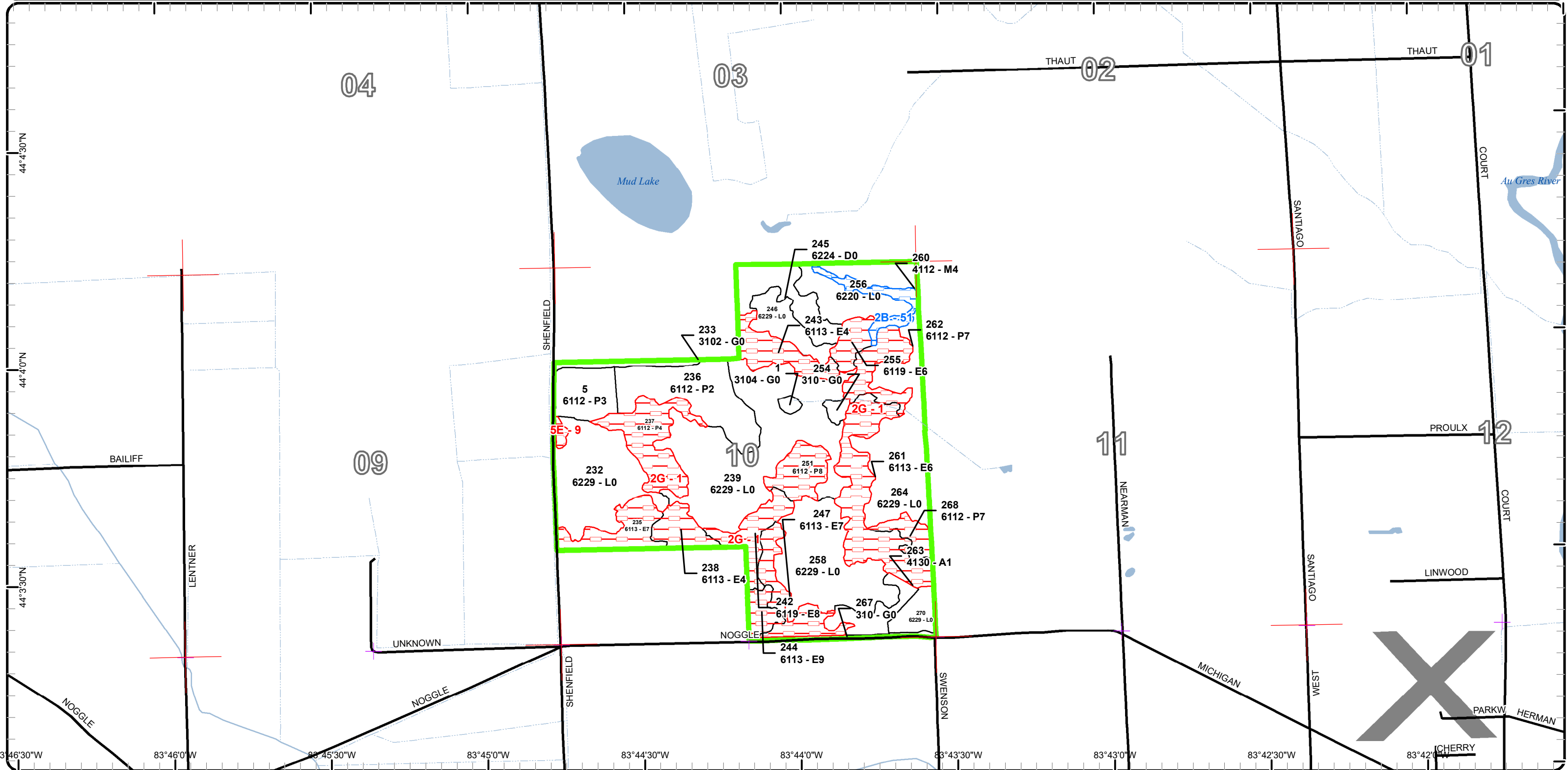


Special Conservation Areas

Compartment: 140
 T19N-R05E Sec. 13,14,22-24
 T19N-R06E Sec. 17-20
 County: Arenac
 Unit: Gladwin
 Mgmt Area: Gladwin Lake Plain
 YOE: 2025
 Acres: 2682.9 GIS Calculated
 Examiner: Steve Nyhoff
 Map Revised: 5/24/2023
 Map Phase: Pre-Review



- Miris Corners
 - + Remonumented Section Corners
 - Counties
 - Federal / State / County - Paved Road
 - Intermittent Stream
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers
 - Airports
 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
 5E: Long-Term Retention



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	27	0	67	17	33	107	0	22	10	0	0	0	0	0	0	0	0	283
Bog	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Herbaceous Openland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Jack Pine	0	0	0	0	0	17	0	0	0	46	0	0	0	0	0	0	0	0	63
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	45	0	97	0	110	11	24	20	0	0	0	0	0	0	0	0	15	322
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	16	42
Lowland Deciduous	0	0	0	4	16	176	75	0	6	58	170	246	50	0	0	0	0	226	1027
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Lowland Shrub	302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	302
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	18	0	38	21	7	23	25	0	5	18	0	0	0	0	83	238
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	7	17	0	0	0	0	0	0	7	31
Northern Hardwood	0	0	0	0	0	0	11	7	0	0	0	0	0	0	0	0	0	19	37
Oak	0	0	0	0	0	8	9	0	0	16	9	39	0	0	0	0	0	23	103
Red Pine	0	0	0	0	0	0	5	0	3	0	0	0	0	0	0	0	0	0	8
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Treed Bog	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	5	12
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
White Pine	0	0	0	0	0	0	12	0	0	7	13	0	0	0	0	0	0	14	46
Total	470	72	0	186	33	382	251	38	74	169	235	295	75	0	0	0	0	408	2687



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 140

Total Compartment Acres: 2,683

Commercial Harvest - 213
 Harvests with Site Condition - 205
 Next Step Harvest - 12
 Habitat Cut - 12

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	115	0	0	0	0	0	0	0	0	115
Lowland Aspen/Balsam Poplar	38	0	0	0	0	0	0	0	0	38
Lowland Deciduous	66	0	0	0	0	0	0	0	0	66
Mixed Upland Deciduous	9	39	0	17	25	0	0	0	0	90
Natural Mixed Pines	0	0	0	7	12	0	0	0	0	19
Oak	0	0	0	20	50	0	0	0	0	69
Red Pine	0	0	0	0	5	0	0	0	0	5
Upland Mixed Forest	0	0	0	5	0	0	0	0	0	5
White Pine	0	0	0	0	12	0	0	0	0	12
Total	228	39	0	48	103	0	0	0	0	418

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	418	0	0	0	0	0	17	0	0	435
Next Step	12	0	0	0	0	0	406	0	0	418
Total	429	0	0	0	0	0	423	0	0	852



Stand	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:

7	73140007-Cut	14.6	4131 - Aspen, Oak	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> If access could be gained harvest the stand as a clear cut. The retention should be in pockets. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Medium or better stocking of aspen mixed with oak and maple. <u>Regen:</u> <u>Other</u> Access may be possible crossing from stand 17 to stand 30. <u>Comment:</u> <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2024</p>											
9	73140009-Cut	10.5	4125 - Black, N. Pin Oak	Sawtimber Well	85	81-110	Harvest	Seed Tree	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> If access can be gained harvest the stand needs to be harvested as a seed tree retaining 10 to 20 BA. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> medium or better stocking of oak, aspen, maple, and pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2024</p>											
14	73140014-Cut	16.5	6113 - Lowland Maple	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Harvested as a clearcut with retention during dry or frozen conditions. There are areas in the stand that are too wet to treat. Therefore, the <u>Specs:</u> harvest acres will be significantly less than the inventory acres. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> medium or better stocking of lowland hardwoods. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2024</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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15	73140015-Cut	9.4	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Harvested as a clear cut. The main problem is access.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of aspen mixed with maple and oak.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

16	73140016-Cut	4.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	85	81-110	Harvest	Seed Tree	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription If access could be gained harvest as a seed tree retaining some oak and white pine. The retained BA should be 10 to 20.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of mixed upland deciduous.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

20	73140020-Cut	12.0	4133 - Aspen, Mixed Pine	Poletimber Medium	50	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Harvested as a clearcut with retention. The retention should be individually marked pine and oak. The oak and pine less than 4" DBH should be retained. All other species should be cut to 2" DBH. Regeneration may be a problem so harvest in the late fall through bud break to maximize regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium or better stocking of aspen, oak, maple, and pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21	73140021-Cut	8.7	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	85	51-80	Harvest	Group Selection	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvested by removing the aspen and some of the larger sawlogs and pine poles. The main problem is access.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium stocking of maple, oak, aspen, and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
22	73140022-Cut	7.4	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	54	111- 140	Harvest	Seed Tree	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Harvest as a seed tree harvest retaining 10 to 20 BA. The access is wet so harvest during dry/frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium or better stocking of oak and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
23	73140023-Cut	6.7	4130 - Aspen	Poletimber Well	50	111- 140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest as a clear cut. Access is the main problem.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better stocking of aspen and hardwoods mixes with some pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
24	73140024-Cut	4.6	4319 - Mixed Upland Forest	Sawtimber Well	85	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest if access could be gained. Best form of harvests would be a seed tree retaining some white pine and oak. The retention should be</p> <p><u>Specs:</u> 10-20 BA.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better stocking of hardwood mixed with aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
25 73140025-Cut	5.2	42210 - Natural Red Pine	Sawtimber Medium	54	81-110	Harvest	Shelterwood	4221 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Managed as a shelterwood retaining 40-50 BA of pine and hardwood. Access is off M-65 using one of 2 trails. They are seasonally flooded and only passable during dry/frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium or better stocking of pine, oak, maple, and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
26 73140026-Cut	35.6	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> The stand is lowlands, but manageable during dry or frozen conditions. Harvest as a clearcut with retention. The retention should be in pockets and individually marked oak, pine, and trees with cavities. There are pockets that are too wet to harvest and will need to be painted out. Therefore, the harvest acres will be significantly less than the inventory acres.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better stocking of lowland hardwood with some aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
27 73140027-Cut	11.5	42200 - Natural White Pine	Sawtimber Well	54	111-140	Harvest	Shelterwood	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Harvest as a shelterwood retaining 40-50 BA of pine and hardwood. Access is off M-65 using one of 2 trails. They are seasonally flooded and only passable during dry/frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium or better stocking of white pine, red pine, oak, maple, and aspen,</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
28 73140028-Cut	8.0	4139 - Aspen, Mixed Deciduous	Poletimber Medium	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest as a clear cut with retention. The retention should be placed to protect the wetter areas. The treatment acres will be significantly less than the harvest acres.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium or better stocking of aspen and hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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30	73140030-Cut	9.4	4125 - Black, N. Pin Oak	Sawtimber Medium	54	51-80	Harvest	Seed Tree	412 - Oak Types	Two-Aged	No
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Prescription Harvest if access could be gained. Harvests as a seed tree retaining 10-20 BA.
Specs:

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

Acceptable Medium or better stocking of oak, maple, aspen, and pine.
Regen:

Other
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

31	73140031-Cut	10.9	4139 - Aspen, Mixed Deciduous	Poletimber Medium	50	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest as a clear cut with retention during dry or frozen conditions. The retention should be in pockets.
Specs:

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

Acceptable medium or better stocking of aspen, maple, oak and pine.
Regen:

Other
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

33	73140033-Cut	9.3	4199 - Other Mixed Upland Deciduous	Poletimber Medium	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvested as a clear cut with retention. The aspen, maple, and birch should be harvested to 2" DBH. The other species to 4" DBH. Mark some of the oak, white pine, and red pine to be retained.
Specs:

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

Acceptable medium or better stocking of aspen, oak, maple, and conifer.
Regen:

Other
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

38	73140038-Cut	11.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	85	81-110	Harvest	Seed Tree	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription The access is a problem. Harvest as a seed tree retaining 10-20 BA. The retention should favor oak and pine.
Specs:

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

Acceptable Medium or better stocking of oak, pine, maple and aspen.
Regen:

Other
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024



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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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45	73140045-Cut	14.0	6113 - Lowland Maple	Sawtimber Medium	92	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Harvest the stand by clear cut with retention. The retention should be the trees under 4" DBH. The soils are wet so harvest would have to be done during dry or frozen conditions. There may be areas that will be too wet to harvest, and these should be painted out. Therefore, the harvest acres may be significantly less than inventory acres. All trees should be cut within 50' of the cleared portion of M-65 to minimize the chance of trees falling into the road.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: medium or better stocking of lowland hardwoods mixed with some aspen and conifer.

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

63	73140063-Cut	17.6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	74	81-110	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription Harvest the stand as a shelterwood retaining 30-40 BA. The retention should favor oak and pine. The access is wet so harvest during dry/frozen conditions.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Medium or better stocking of mixed deciduous and conifer.

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

66	73140066-Cut	4.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	51	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvested the stand as a clear cut with retention. The retention can either be in pockets or marked groups of trees. Try to mark some of the nicer red oak to be retained.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: medium or better stocking of aspen, oak, maple and some conifer

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

68 73140068-Cut 7.5 4199 - Other Mixed Upland Deciduous Poletimber Well 44 81-110 Harvest Shelterwood 4319 - Mixed Upland Forest Two-Aged No

Prescription Harvest as a shelterwood retaining 30-40 BA. During the last inventory cycle the private lines were put in but the stand was not treated.
Specs:

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

Acceptable Medium or better stocking of hardwoods.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

75 73140075-Cut 16.8 4133 - Aspen, Mixed Pine Sawtimber Well 51 111-140 Harvest Clearcut with Retention 413 - Aspen Even-Aged No

Prescription The aspen is mature, harvest along with most of the white pine. The retention should be in pockets. Mark some of the larger oaks and pines to be retained. Also retain the cedar on the west side of the stand.
Specs:

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

Acceptable medium or better stocking of aspen, maple and oak.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

76 73140076-Cut 14.9 4130 - Aspen Sawtimber Well 51 51-80 Harvest Clearcut with Retention 413 - Aspen Even-Aged No

Prescription Harvested as a clear cut with retention. The retention should be in pockets and protect the wetter areas. In addition, mark some of the larger white pines and red pines, as well as some red oaks to be retained.
Specs:

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

Acceptable medium or better stocking of aspen, maple, oak, and pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

80 73140080-Cut 13.4 4122 - Oak, Pine Sawtimber Well 109 111-140 Harvest Shelterwood 412 - Oak Types Two-Aged No

Prescription Harvest as a shelterwood harvest retaining 40-50 BA.
Specs:

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

Acceptable medium or better stocking of oak, maple, aspen and pine.
Regen:

Other The area is heavily used so visual is a concern.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

85	73140085-Cut	6.9	4130 - Aspen	Sawtimber Well	51	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
----	--------------	-----	--------------	----------------	----	---------	---------	-------------------------	-------------	-----------	----

Prescription Harvest as a clear cut with retention. The retention should be in pockets. The harvest needs to be done in dry or frozen conditions.
Specs:

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

Acceptable medium or better stocking of aspen with maple, oak and conifer.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

93	73140093-Cut	30.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
----	--------------	------	-------------------------------------	----------------	----	---------	---------	-----------------------	-------------------------	-------------	----

Prescription Thin down to 70 again making canopy gaps to try to get other species regenerating. The access would require the use of a culvert or free span bridge whether entering at the north or south ends. This will require a stream crossing permit.
Specs:

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

Acceptable medium or better stocking of hardwoods.
Regen:

Other
Comment:

Site Condition Road Needed

Proposed Start Date: 10/1 /2024

114	73140114-Cut	11.6	42290 - Natural Mixed Pine	Sawtimber Well	95	81-110	Harvest	Shelterwood	429 - Mixed Upland Conifers	Two-Aged	No
-----	--------------	------	----------------------------	----------------	----	--------	---------	-------------	-----------------------------	----------	----

Prescription Harvest the stand by the removal of aspen and take the BA down to 40-50. Also retain oak less than 4" DBH.
Specs:

Next Step Harvest, Shelterwood
Treatments:

Acceptable medium or better stocking of pine and oak.
Regen:

Other When harvesting do not chip, leave tops scattered to close of trails. Terrain is rolling with some steep slopes. The harvest acres may be significantly less than inventory acres.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

116	73140116-Cut	5.1	6112 - Lowland Aspen	Sawtimber Well	74	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
-----	--------------	-----	----------------------	----------------	----	-------	---------	----------	----------------------	-----------	----

Prescription Harvest the stand as a clearcut without retention. The small size and its proximity to the road are the main reason to harvest without retention. It will need to be harvested during dry or frozen conditions.
Specs:

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

Acceptable medium or better stocking of aspen, maple and conifer.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

127 73140127-Cut 36.1 4123 - Red Oak Sawtimber 103 51-80 Harvest Shelterwood 412 - Oak Types Two-Aged No

Prescription Treat by taking the BA down to 30-40 in order to open it up allowing more oak regeneration. When setting up the lines keep 150' back from the river.
Specs:

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

Acceptable Regen: medium or better regeneration of hardwoods favoring oak. Regeneration may move stand more toward upland mix which is also acceptable.

Other Comment: The stand already has some advance regeneration of mainly maple.

Site Condition

Proposed Start Date: 10/1 /2024

133 73140133-Cut 8.7 6112 - Lowland Aspen Sawtimber 48 81-110 Harvest Clearcut 6112 - Lowland Aspen Even-Aged No

Prescription Harvest as a clearcut without retention. The small size and its proximity to the road are the main reason to harvest without retention. It will need to be harvested during dry or frozen conditions.
Specs:

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

Acceptable Regen: medium or better stocking of aspen mixed with maple and conifer

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

158 73140158-Cut 9.8 4130 - Aspen Poletimber 89 81-110 Harvest Clearcut with Retention 413 - Aspen Even-Aged No

Prescription Harvest as a clearcut retaining cedar. The landing should be along the two-track that cross the stand in 2 places.
Specs:

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

Acceptable Regen: medium or better stocking of aspen mixed with hardwoods and conifer.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

204 73140204-Cut 4.8 6112 - Lowland Aspen Poletimber 45 51-80 Harvest Clearcut 6112 - Lowland Aspen Even-Aged No

Prescription Harvest as a clear cut, but it would have a small window for harvest. If harvested, do it without retention because of the small acres and lack of wind firmness.
Specs:

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

Acceptable Regen: Medium stocking of aspen and maple

Other Comment: The stand may not regenerate well because of the aspen vigor and wetness. The treatment may need to be canceled because of wetness.

Site Condition

Proposed Start Date: 10/1 /2024



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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
206 73140206-Cut	19.0	6112 - Lowland Aspen	Poletimber Medium	49	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Harvested as a clearcut with retention. The retention should be in the southern portion of the stand where the soils are dryer and less chance of windthrow.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium stocking of aspen, maple, oak, and conifer.</p> <p><u>Regen:</u></p> <p><u>Other</u> The harvest may need to be canceled because of wetness. The regeneration may also be problematic.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Approved Treatments:

125 73140125-Monitor	11.5	6113 - Lowland Maple	Poletimber Poor	91	1-50	Monitoring	Natural Regen (Re-Inventory)	6113 - Lowland Maple	Two-Aged	No
<p><u>Prescription</u> check stand for regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed lowland hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2026</p>										
143 73140143-Monitor	5.6	6113 - Lowland Maple	Poletimber Poor	100	51-80	Monitoring	Natural Regen (Re-Inventory)	6113 - Lowland Maple	Two-Aged	No
<p><u>Prescription</u> Check the stand or regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed lowland hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2026</p>										

Total Treatment Acreage Proposed: 434.7

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment: 140
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		2B	2E	2I	5B	5C	2A	2G	2H	3J	5E
282	175	60	47	Aspen			49		10	22	25	0		
33	33	0	0	Bog							0			
27	25	0	2	Herbaceous Openland					0			2		
62	2	0	61	Jack Pine						17	44			
3	3	0	0	Low-Density Trees										
321	215	11	95	Lowland Aspen/Balsam Poplar	0			11			90	4		1
42	0	16	26	Lowland Conifers				16			0	26		
1025	99	84	842	Lowland Deciduous			66	0	18		837	5		
5	0	0	5	Lowland Mixed Forest							5			
302	302	0	0	Lowland Shrub	0		0				0			
17	17	0	0	Marsh							0			
238	79	100	59	Mixed Upland Deciduous			31	34	25	10	34	25		
30	24	0	7	Natural Mixed Pines							7			
37	0	7	30	Northern Hardwood	7						11		19	
104	70	34	0	Oak			20	14	0					
9	5	0	3	Red Pine							3			
2	2	0	0	Sand, Soil										
39	39	0	0	Treed Bog							0			
12	0	5	7	Upland Mixed Forest			5					7		
4	4	0	0	Upland Shrub							0			
12	12	0	0	Urban							0	0		
31	31	0	0	Water					0		0	0	0	
46	46	0	0	White Pine										
2,683	1,182	317	1,184	Total Forested Acres	7	31	175	66	39	39	1,056	69	19	1
	44%	12%	44%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	152	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment: 140
Year of Entry: 2025

2	Unavailable	2A: Adjacent landowner denied access	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	785	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2E: Road needed	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	39	2E: Road needed	3D: Recreational / Scenic values	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: 2H best fit: need very large, expensive culvert . Timber sale in this area went no bid twice for this reason.							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment: 140
Year of Entry: 2025

9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2I: Survey needed	175	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment: 140
Year of Entry: 2025

23	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment: 140
Year of Entry: 2025

53	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
61	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
86	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
89	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
95	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Already cutting 500 ac in this compartment: this stand will hold 10 years.							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment: 140
Year of Entry: 2025

96	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Already cutting 500 ac in compartment. Stand will hold							
99	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar/hardwood stand. Hold: mortality of small hardwood component will inhibit deer movement for purpose of regenerating cedar and hemlock.							
103	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: BA is currently 57, which is effectively already a shelterwood harvest, so no treatment this YOE.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	3104 - Degraded	Nonstocked	1.4	0	Unspecified		This stand is an old well site that has been plugged.			
2	6126 - Lowland Jack Pine	Poletimber Well	7.5	49	81-110	N/A	The stand is low and wet but manageable. The ground cover is sheep laurel with pockets of leather leaf. The stand could be harvested but access is problem.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		85	Pole/Log	9	49	Huckleberry		Medium	< 5 feet	Tall Shrub
Red Pine		15	Log/Pole	12		Sheep Laurel	Full	< 5 feet	Tall Shrub	
3	42220 - Natural Jack Pine	Poletimber Medium	8.1	49	81-110	N/A	There is some windthrow occurring in the stand that has lowered the BA. The ground cover is huckleberry with some sheep laurel. The stand could be harvested if we can get to it.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		5	Log/Pole	11		Huckleberry		Medium	< 5 feet	Tall Shrub
Jack Pine		65	Pole/Log	9	49					
Black/Red (Hybrid) Oak		10	Log/Pole	12						
Red Pine		18	Log/Pole	12						
Red Maple		2	Pole/Sapling	5						
4	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	16.2	89	1-50	N/A	The stand has a component of cedar. The ash is gone. Some of the pockets of cedar are now in the overstory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		10	Pole	9	89	Red Maple		Low	>20 feet	Sapling
Balsam Fir		35	Pole/Sap/Log	6		Deciduous Shrubs		Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		40	Pole/Log	9	89	Balsam Fir		Medium	>20 feet	Sapling
Red Maple		15	Pole/Sapling	7						
5	6112 - Lowland Aspen	Sapling Well	14.8	7	Immature	N/A	The stand was harvested in the fall/winter of 2016. The stand has regenerated well. The crown closure is around 75%.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		14	Pole/Sap/Log	5		Tag Alder		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		86	Sapling	1	7					
6	6113 - Lowland Maple	Poletimber Medium	13.6	50	1-50	N/A	All the ash is dead lowering the crown closure to below 75%. The understory birch is now in the over story. The terrain is hummocky. The stand is too wet to harvest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		10	Pole	7		Deciduous Shrubs		High	5 - 10 feet	Tall Shrub
Red Maple		70	Pole/Sapling	7	50	Red Maple		Medium	>20 feet	Sapling
Paper Birch		20	Sapling/Pole	4						
7	4131 - Aspen, Oak	Poletimber Well	14.6	50	81-110	N/A	The terrain is hummocky, but it is upland. There are a couple of small pockets that look like they would hold water in the spring. Along the private line a 1/2" x 6" pipe was found.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		12	Pole	7		White Pine		Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		25	Log/Pole	10		Red Maple		High	>20 feet	Sapling
White Pine		8	Log/Pole/XLog	12		Black/Red (Hybrid) Oak		Low	>20 feet	Sapling
Bigtooth Aspen		50	Pole	8	50					
Jack Pine		5	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
8	4131 - Aspen, Oak	Poletimber Well	1.9	50	81-110	N/A	The stand is a knob that is heavy to aspen poles that are converting to logs. The main problem is access.																																													
<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>Bigtooth Aspen</td> <td>66</td> <td>Pole/Log</td> <td>9</td> <td>50</td> </tr> <tr> <td>Red Maple</td> <td>4</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>30</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	66	Pole/Log	9	50	Red Maple	4	Pole	7		Black/Red (Hybrid) Oak	30	Log/Pole	11																																
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Black/Red (Hybrid) Oak	30	Log/Pole	11																																																	
9	4125 - Black, N. Pin Oak	Sawtimber Well	10.5	85	81-110	N/A	The stand is upland and quite dry. It could be harvested any time of the year. The main problem is access. It was prescribed in 2005, but it was not cut. The stand was factor limited. No survey monument found at SW corner. There is an old fence corner that looks correct by GPS and gate. No monuments on other corners according to corner records.																																													
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Red Maple	High	>20 feet	Sapling																																																	
10	6113 - Lowland Maple	Sawtimber Medium	11.5	104	81-110	N/A	The ash is gone, and the aspen is declining. There are pockets of dryer ground. However, the patches are less than 4 acres in size. The terrain is hummocky. Overall, the stand is too wet to harvest.																																													
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Quaking Aspen	80	Sapling/Pole	3	25																																																
13	6229 - Mixed lowland shrub	Nonstocked	5.1		Immature	No	The stand is mostly mixed lowlands shrubs. The edges have some swamp hardwoods. However, the crown closure is less than 25%. There are areas, especially along the northwest side, that have a crown closure of 50%. The stand also has a small beaver flooding along the southeast edge. The dam has been recently reestablished. The water level is higher than in the 2020 imagery.																																													
14	6113 - Lowland Maple	Poletimber Well	16.5	50	81-110	N/A	The stand is mainly lowlands with some scattered knobs of dryer ground. The knobs are heavier to aspen while the lowlands are heavy to maple and birch. The crown closure goes from 100% down to 50%, but it averages 80%. All the ash in the stand is gone.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	4130 - Aspen	Poletimber Well	9.4	50	81-110	N/A	The stand is hummocky. It looks to be wetter than stand 7.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern Pin Oak		12	Pole/Sapling	6		Red Maple	
Red Maple		20	Pole/Sapling	7		Northern Pin Oak	
Quaking Aspen		32	Pole	8	50	Low	
Bigtooth Aspen		36	Pole	8	50	Variable	
						Sapling	
16	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	4.6	85	81-110	N/A	The stand is mostly upland. There has been some mortality and windthrow dropping the canopy closure to below 75%. The terrain is slightly hummocky. It was prescribed for final harvest in 2005, but it was factor limited.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black/Red (Hybrid) Oak		15	Log/XLog	16		White Pine	
Quaking Aspen		10	Log/Pole	12		Red Maple	
White Pine		30	XLog/Log/Pole	18	85	High	
						Variable	
						Sapling	
17	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.3	50	81-110	N/A	There are witness trees present at the private corner. The survey corner was not located. The terrain is hummocky. The stand should be managed for the oak, maple, and pines. The crown closure is close to 75%.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		30	Pole/Sap/Log	6	50	White Pine	
Quaking Aspen		10	Pole	7		Red Maple	
Black/Red (Hybrid) Oak		40	Pole/Sap/Log	7	50	Northern Pin Oak	
						High	
						>20 feet	
						Sapling	
18	6113 - Lowland Maple	Poletimber Medium	20.8	85	51-80	N/A	The stand is a matrix of uplands and lowlands. There are scattered small ridges that have sawlogs. The rest of the stand is mainly pole sapling. All the ash is gone and in the low areas most of the saw logs are also gone
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		8	Log/XLog	17		Red Maple	
Red Maple		67	Pole	9	85	Michigan Holly	
Quaking Aspen		25	Log/Pole	10		Deciduous Shrubs	
						High	
						5 - 10 feet	
						Tall Shrub	
20	4133 - Aspen, Mixed Pine	Poletimber Medium	12.0	50	51-80	N/A	The crown closure is variable going from 10% up to 100%. The terrain is hummocky. The larger diameter white pines in the stand are short and limby.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		50	Pole/Log	8	50	White Pine	
Red Maple		15	Pole/Sapling	6		Black/Red (Hybrid) Oak	
Black/Red (Hybrid) Oak		10	Pole/Log/Sap	8		Medium	
White Pine		20	Log/Pole/Sap	12		10 - 20 feet	
Red Pine		5	Pole/Sapling	7		Sapling	
21	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	8.7	85	51-80	N/A	The stand goes from extra-large white pine all the way down to seedling white pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		26	Log/Pole	10		Northern Pin Oak	
White Pine		13	XLog/Log/Pole	18		Red Maple	
Bigtooth Aspen		16	Log	16	85	White Pine	
Black/Red (Hybrid) Oak		45	Log/Pole	13	85	Medium	
						Variable	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.4	54	111-140	N/A	The stand is predominantly upland. The terrain is hummocky. It is a mix of red and white pine.
Canopy Species	% Cover	Size Class	DBH	Age			
Quaking Aspen	5	Pole	8				
Black/Red (Hybrid) Oak	15	Pole/Sapling	5				
Red Maple	10	Pole/Log	8				
White Pine	25	Log/XLog	16				
Red Pine	45	Log/XLog/Pole	14	54			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	High	Variable	Sapling				
White Pine	High	Variable	Sapling				
Black/Red (Hybrid) Oak	Medium	Variable	Sapling				

23	4130 - Aspen	Poletimber Well	6.7	50	111-140	N/A	The terrain is slightly hummocky. The SI is about 60.
Canopy Species	% Cover	Size Class	DBH	Age			
White Pine	8	XLog/Log	19				
Black/Red (Hybrid) Oak	9	Pole/Log	8				
Bigtooth Aspen	75	Pole/Log	9	50			
Red Maple	8	Pole	8				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Medium	>20 feet	Pole				
White Pine	Low	10 - 20 feet	Sapling				

24	4319 - Mixed Upland Forest	Sawtimber Well	4.6	85	81-110	N/A	The stand is mainly upland. It has pockets that are wet
Canopy Species	% Cover	Size Class	DBH	Age			
Red Pine	5	Log/Pole	13				
White Pine	45	XLog/Log/Pole	18	85			
Bigtooth Aspen	5	Log	12				
Red Maple	30	Log/Pole	10				
Black/Red (Hybrid) Oak	15	Log/Pole/XLog	15				
Sub-Canopy Species	Density	Avg. Height	Size				
White Pine	Medium	10 - 20 feet	Sapling				
Black/Red (Hybrid) Oak	Low	>20 feet	Pole				
Red Maple	Medium	Variable	Sapling				

25	42210 - Natural Red Pine	Sawtimber Medium	5.2	54	81-110	N/A	The terrain is hummocky. The trees vary from saplings to oversized sawlogs. The average age is right around 49 to 53. The age was estimated from branch whorls.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	7	Pole/Log	9				
Red Pine	62	Log/Pole	13	54			
White Pine	31	Log/Pole	12				
Sub-Canopy Species	Density	Avg. Height	Size				
White Pine	Low	10 - 20 feet	Sapling				
Quaking Aspen	Medium	>20 feet	Sapling				
Northern Pin Oak	Low	10 - 20 feet	Sapling				

26	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	35.6	50	51-80	N/A	The terrain is hummocky. The stand has a broad base drainage which has no defined bed or bank. Managed the stand for maple and oak.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	50	Pole/Sapling	6	50			
Paper Birch	10	Sapling/Pole	4				
Black/Red (Hybrid) Oak	10	Pole/Sapling	6				
Quaking Aspen	30	Pole/Sapling	7	50			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	High	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
27	42200 - Natural White Pine	Sawtimber Well	11.5	54	111-140	N/A	The stand is mostly uplands. It is slightly hummocky. White pine goes from saplings up to extra-large sawlogs. There is a small red pine ridge along the south side.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		9	Pole/Sapling	6		Red Maple		
White Pine		70	Log/Pole/XLog	14	54	White Pine		
Red Pine		15	Log/Pole	11		Density		
Bigtooth Aspen		6	Pole	7		Avg. Height		
						Size		
28	4139 - Aspen, Mixed Deciduous	Poletimber Medium	8.0	50	81-110	N/A	The stand is a transition from uplands to lowlands. The south edge of the stand is upland, and the north edge is lowland. Any ash is now down on the ground.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black/Red (Hybrid) Oak		17	Pole/Sap/Log	8		Red Maple		
Red Maple		25	Pole/Sap/Log	9		White Pine		
Paper Birch		6	Pole/Sapling	7		Density		
Red Pine		2	Log/Pole	13	50	Avg. Height		
Bigtooth Aspen		50	Pole	8	50	Size		
29	42200 - Natural White Pine	Poletimber Well	7.7	31	111-140	N/A	The terrain is hummocky. The trees range from seedlings to extra-large sawlogs. The ground cover is sheep laurel. The age of the trees ranges from about 8 years old up to over 80 on the extra-large sawlogs. Most of the trees are around 29 to 34 years old. This was estimated from branch whorls.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern Pin Oak		3	Pole/Sap/Log	7		Northern Pin Oak		
Red Maple		5	Pole/Sapling	7		Red Maple		
White Pine		70	Pole/Log/Sap	8	31	Red Pine		
Bigtooth Aspen		10	Pole	8		White Pine		
Red Pine		12	Pole/Sap/Log	8		Density		
						Avg. Height		
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30	4125 - Black, N. Pin Oak	Sawtimber Medium	9.4	54	51-80	N/A	The stand is predominantly a ridge. It is a little wetter on the edges as it slopes down. Access is the main problem with the harvest. This is a different stand than the oak stands to the west. It has an illegal ORV trail through it.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Log/Pole	11		Witch Hazel		
Paper Birch		3	Pole/Log	9		Density		
Black/Red (Hybrid) Oak		64	Log/Pole	13	54	Avg. Height		
Bigtooth Aspen		10	Log/Pole	12		Size		
White Pine		8	Log/Pole/XLog	15				
31	4139 - Aspen, Mixed Deciduous	Poletimber Medium	10.9	50	51-80	N/A	The terrain is hummocky. It appears to be seasonably wet. The ground cover is sheep laurel and deciduous shrubs.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		15	Pole/Sapling	6		Northern Pin Oak		
White Pine		15	Pole/Log/Sap	9		White Pine		
Quaking Aspen		52	Pole	8	50	Deciduous Shrubs		
Red Maple		18	Pole/Sap/Log	8		Density		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
32	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	6.3	27	81-110	N/A	The stand was harvested in M-65 Water Line, sale 73-016-97. In the harvest the white pines were retained. So now the stand is too aged with a super canopy of white pine and an understory of aspen and maple with pockets of white pine.																																										
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34	629 - Mixed non-forested wetland	Nonstocked	11.6		Immature	No	All the ash is gone. The stand is mainly marsh grass. There are some pockets of lowland shrubs and some seedlings but not much.																																										
35	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	12.8	92	51-80	N/A	The crown closure goes from 100% down to about 20%. The average is around 50% to 60%. The stand does have knolls of uplands that are surrounded by lowlands. Overall, the stand is too wet the harvest.																																										
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Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling																																														
38	4199 - Other Mixed Upland Deciduous	Sawtimber Well	11.9	85	81-110	N/A	The stand is mainly uplands with pockets of low wet ground. The main problem is access.																																										
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40	6112 - Lowland Aspen	Sapling Medium	54.8	27	Immature	N/A	The stand was harvested in M-65 Water Line, sale 73-016-97. The stand was heavily rutted during the harvest. The crown closure goes from 15% to 100%. The average is around 65%.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
41	4130 - Aspen	Sapling Well	20.2	27	81-110	N/A	The stand was harvested in M-65 Water Line, sale 73-016-97. The terrain is hummocky, and it looks like it is moist but not wet. The crown closure is very close to 100%. There are some scattered supercanopy pine and oak.																																																				
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42	3102 - Grass	Nonstocked	1.8		Unspecified	No																																																					
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43	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.1	64	81-110	N/A	The ash in the stand is gone. The stand probably should be habitat cut to restart the aspen.																																																				
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44	4319 - Mixed Upland Forest	Sawtimber Well	6.9	110	141-170	N/A	The ash is gone. The terrain is hummocky but dry. Overall, the stand is still doing well.																																																				
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45	6113 - Lowland Maple	Sawtimber Medium	14.0	92	81-110	N/A	The stand is a mixture of uplands and lowlands with lowlands being the majority. All the ash is gone. The aspen is declining as well as the jack pine. This area was left as a buffer strip when the large area to the west was harvested in 1996.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46 500 - Water Nonstocked 1.2 Unspecified No The ash is gone. The terrain is hummocky but dry. Overall, the stand is still doing well.

47 4199 - Other Mixed Upland Deciduous Sawtimber Medium 17.9 110 111-140 N/A The ash is dead. This has opened the canopy, so the crown closure is now below 75%.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	16	Log/XLog	15		Basswood	Low	>20 feet	Pole
Swamp White Oak	15	Log/XLog/Pole	14		Musclewood/Hornbeam	Low	>20 feet	Sapling
Cottonwood	25	Log/XLog	15		Prickly Ash	Medium	5 - 10 feet	Tall Shrub
Basswood	26	Log/Pole	12	110				
Red Oak	2	Pole/Log	9	60				
Paper Birch	2	Pole	9	60				
Northern White Cedar	6	Log/Pole	13					
Hackberry	5	Pole	8					
Beech	3	Log/Pole	11	110				

48 6113 - Lowland Maple Sawtimber Medium 4.7 110 81-110 N/A All the ash is gone. The crown closure is now around 60%. Overall, the stand is too wet to harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	65	Log/XLog	16	110
Cottonwood	30	XLog/Log	22	
White Oak	5	Log/XLog	17	

49 500 - Water Nonstocked 6.2 Unspecified No Rifle River

50 3105 - Mixed Upland Herbaceous Nonstocked 1.9 Unspecified No The stand is an area that is used for parking to access the Rifle River. It sees the heaviest use for parking and camping during the spring sucker season.

Sub-Canopy Species	Density	Avg. Height	Size
Common Lilac	Low	5 - 10 feet	Tall Shrub
Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub

51 6112 - Lowland Aspen Sapling Well 9.9 25 81-110 N/A The stand is manageable. It is currently transitioning into poles. There is a strip along River Road that has mature trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	2	Sapling/Pole	4		Prickly Ash	Low	5 - 10 feet	Tall Shrub
Paper Birch	3	Sapling	3		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	8	Sapling/Pole	4					
Quaking Aspen	57	Sapling/Pole	4	25				
Red Maple	15	Sapling/Pole	4					
Bigtooth Aspen	15	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 4190 - Mixed Upland Deciduous with Cedar Sawtimber Well 4.7 100 111-140 N/A The stand is mostly uplands. There are areas of wet soils. There is a shed in the stand probably used by sucker dippers in the spring.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	19	Log/Pole	12	
Sugar Maple	20	Log/Pole	13	
Northern White Cedar	32	Log/Pole	12	100
Cottonwood	2	Log/XLog	14	
Red Oak	8	Log	16	
Bitternut Hickory	8	Log/Pole	11	
White Oak	11	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Basswood	Low	>20 feet	Pole
Sugar Maple	Low	10 - 20 feet	Sapling

53 6139 - Mixed Lowland Forest Sawtimber Well 4.7 100 141-170 N/A The stand is manageable. There are significant pockets of cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	3	Log/XLog/Pole	14	
White Oak	10	Log/Pole	12	
Paper Birch	2	Pole/Sapling	7	
Basswood	4	Log/Pole	13	
Cottonwood	5	Log	15	
Northern White Cedar	12	Log/Pole	11	
Quaking Aspen	8	Log	13	
Sugar Maple	13	Log/Pole	13	100
Bitternut Hickory	5	Log/Pole	11	
White Pine	38	XLog/Log/Pole	18	100

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Sugar Maple	Low	>20 feet	Pole
Red Maple	Low	>20 feet	Pole
Northern White Cedar	Low	>20 feet	Pole
Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub

54 6113 - Lowland Maple Poletimber Medium 12.8 95 51-80 N/A The ash in the stand is gone. There are now numerous canopy gaps. The soils are very wet.

Canopy Species	% Cover	Size Class	DBH	Age
Cottonwood	11	XLog	18	
Balsam Fir	5	Pole	8	
Quaking Aspen	5	Log/Pole	13	
Swamp White Oak	3	XLog/Log	18	
American Elm	4	Pole/Log	9	
Red Maple	70	Pole/Log	9	95
Paper Birch	2	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Sapling
Balsam Fir	Low	>20 feet	Sapling
Tag Alder	Medium	10 - 20 feet	Tall Shrub
Michigan Holly	Low	5 - 10 feet	Tall Shrub

55 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 4.7 75 81-110 N/A The stand was harvested about 15 or so years ago. There is maple regeneration. The stand should be held for another 10 years before doing another harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	16	Log/Pole	11	
Red Maple	21	Log/Pole	10	
Basswood	2	Pole	8	
White Oak	37	Log	14	75
White Pine	24	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Musclewood/Hornbeam	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
56	6113 - Lowland Maple	Sawtimber Well	17.7	95	81-110	N/A	All the ash is gone. The crown closure is now around 75%. The ground cover shows the sand is wet. But there are some small areas of upland. This fall it looks like it could be treated																																									
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57	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	9.9	49	81-110	N/A	All the ash in the stand is gone. The crown closure is now closer to 75%. The ground cover indicates the soils are seasonably wet, but they also appear to be manageable in late summer. There are records of private corners. The stand was harvested about 18 years ago by the removal of cottonwood and aspen.																																									
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58	6113 - Lowland Maple	Poletimber Well	5.4	44	81-110	N/A	The ash is gone. The soils are a little wetter than stand 68 and 63. It looks manageable if it is harvested in dry or frozen conditions. During the last inventory cycle the private lines were put in but the stand was not treated.																																									
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59	320 - Upland Shrub	Nonstocked	1.5		Unspecified	No	The stand is a mix of upland shrubs and regenerating pine. The regeneration is heavy to scotts pine.																																									
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60	122 - Road/Parking Lot	Nonstocked	4.1		Unspecified	No	North Michigan Rd and Arenac State Road.																																									
61	4124 - Red with White Oak	Sawtimber Well	4.7	49	81-110	N/A	The stand is upland, for the most part. The under story is heavy to muscle wood with some Oak and Maple. The stand could be harvested as a seed tree retaining around 30 BA. The oak in the stand goes from logs down to seedlings. There are at least 3 age classes represented. There is also a trace of sugar maple and red pine. The stand was harvested about 18 years ago by the removal of cottonwood and aspen.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.6	74	81-110	N/A	The stand has pockets of balsam fir in the under story. The ash is gone. There are some canopy gaps caused by windthrow. During the last inventory cycle the private lines were put in but the stand was not treated.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		24	Log/Pole	13	74	Red Maple	Low	>20 feet	Sapling
Balsam Fir		15	Pole/Sapling	7		Swamp White Oak	Low	>20 feet	Sapling
Swamp White Oak		2	Pole	8		Balsam Fir	Medium	>20 feet	Pole
Northern White Cedar		2	Pole	9					
Red Maple		30	Pole/Log/Sap	9	74				
Paper Birch		3	Pole/Sapling	6					
Northern Pin Oak		24	Log/Pole	12					
64	4123 - Red Oak	Poletimber Well	7.5	49	81-110	N/A	The stand is mostly upland. It could be harvested as a seed tree retaining 30 BA. The stand was harvested about 18 years ago by the removal of cottonwood and aspen.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		12	Pole/Log	9		Red Oak	Low	>20 feet	Tall Shrub
White Oak		7	Pole	9		Balsam Fir	Low	>20 feet	Sapling
Red Oak		79	Pole/Log	9	49	Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Balsam Fir		2	Pole	8	49	Red Maple	Low	>20 feet	Sapling
65	42200 - Natural White Pine	Sawtimber Well	6.2	75	81-110	N/A	The stand appears to have had the hardwoods removed sometime in the past. The ash in the stand is gone. The canopy gaps are filling in with aspen and maple. Hold the stand for 10 years then harvest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	5		Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub
Basswood		8	Log/Pole	11		Bigtooth Aspen	Medium	>20 feet	Sapling
Black/Red (Hybrid) Oak		2	Pole	8		Prickly Ash	Medium	10 - 20 feet	Tall Shrub
White Pine		60	Log/Pole/XLog	14	75	White Pine	Medium	>20 feet	Pole
Northern White Cedar		20	Pole/Sap/Log	8					
Bigtooth Aspen		5	Pole/Sapling	5					
66	4139 - Aspen, Mixed Deciduous	Poletimber Well	4.6	51	111-140	N/A	The stand appears to be seasonably wet. The ash in the stand is gone.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		55	Pole/Log	9	51	Balsam Fir	Low	10 - 20 feet	Sapling
Red Oak		10	Pole	8		Serviceberry (Juneberry)	Medium	5 - 10 feet	Sapling
Red Maple		30	Pole	8		Red Maple	High	>20 feet	Sapling
Black/Red (Hybrid) Oak		5	Pole	9					
68	4199 - Other Mixed Upland Deciduous	Poletimber Well	7.5	44	81-110	N/A	The stand has pockets of balsam fir in the understory. The ash is gone. There are some canopy gaps caused by windthrow and ash die off.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		34	Pole/Log	9	44	Red Maple	Low	>20 feet	Sapling
Red Oak		11	Log	13		Swamp White Oak	Low	>20 feet	Sapling
Balsam Fir		6	Pole	9		Balsam Fir	Low	10 - 20 feet	Sapling
Bigtooth Aspen		19	Pole/Log	9	44	Northern Pin Oak	Low	>20 feet	Sapling
Northern Pin Oak		30	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
69	6220 - Alder/willow	Nonstocked	1.0		Unspecified	No	The stand is a depression that is a mixture of tag alder and dogwood. The ash in the stand is gone. The crown closure is now below 25%.																																																					
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71	6113 - Lowland Maple	Sawtimber Medium	19.1	103	51-80	N/A	The ash die off has made numerous large openings. The crown closure goes from 25% to 80%. Overall, it averages around 50%. There are areas of standing water in the stand. One of the larger ones is converting to lowland shrubs. It still has an overstory. However, it is declining.																																																					
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72	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.8	103	111-140	N/A	The stand is a mix of uplands and lowlands. The uplands are the majority. There is a wet draw through the stand that probably cannot be harvested. The terrain is generally flat to slightly hummocky.																																																					
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73	3105 - Mixed Upland Herbaceous	Nonstocked	3.6		Unspecified	Managed Opening	This stand is a power line clearing managed by the power company. The ground cover is mainly bracken fern, grasses, and reeds. There are a few spots where there are drainages the cross the stand.																																																					
74	6113 - Lowland Maple	Poletimber Well	9.2	44	111-140	N/A	The stand has standing water in it for a good part of the year. Most of the trees have a water line at about 6". The ash is gone.																																																					
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75	4133 - Aspen, Mixed Pine	Sawtimber Well	16.8	51	111-140	N/A	The terrain is hummocky. It appears that portions of the stand are seasonably wet.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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76	4130 - Aspen	Sawtimber Well	14.9	51	51-80	N/A	There are 2 drains that bisect the stand. Both are broad based and do not have extensive water running in them.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole/Log	9	51
Swamp White Oak	2	Log/Pole	13	
White Pine	8	Log/XLog	16	
Red Oak	15	Log/Pole	12	
Red Maple	7	Pole/Log/Sap	8	
Bigtooth Aspen	58	Log/Pole	11	51

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	>20 feet	Sapling
Red Oak	Low	>20 feet	Sapling

77	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	8.2	91	51-80	N/A	All the ash is gone opening the canopy. The current crown closure is around 30%. The Understory is deciduous shrubs there is some ash regeneration. Soils too wet to harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Cottonwood	5	XLog/Log	18	
Red Maple	59	Log/Pole/Sap	14	91
Red Oak	2	Pole/Log	9	
White Pine	20	Log/Pole/Sap	15	
Paper Birch	10	Log/Pole	11	
Northern White Cedar	4	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub
Musclewood/Hornbeam	Low	>20 feet	Sapling
Prickly Ash	Low	5 - 10 feet	Tall Shrub
Tag Alder	Low	10 - 20 feet	Tall Shrub
Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub

78	6220 - Alder/willow	Nonstocked	2.7		Unspecified	No	This is a draw with flowing water. It is mainly tag alder and button bush.
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Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Trace		Tall Shrub
Buttonbush	Full		Tall Shrub

79	4130 - Aspen	Poletimber Well	16.7	34	111-140	N/A	The stand was harvested in 10-1988 thru 2-1990, Omer Sale, 73-003-86. The stand is mainly a ridge. The lowlands are along the edges.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	13	Pole/Sapling	5	
Paper Birch	4	Sapling/Pole	4	
Quaking Aspen	21	Pole	6	34
Silver Maple	2	Pole/Sapling	5	
Bigtooth Aspen	60	Pole	7	34

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Tag Alder	Low	10 - 20 feet	Tall Shrub
Prickly Ash	Low	5 - 10 feet	Tall Shrub

80	4122 - Oak, Pine	Sawtimber Well	13.4	109	111-140	N/A	The terrain is undulating to rolling. The stand has a lot of white oaks, many have rotten hearts.
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Canopy Species	% Cover	Size Class	DBH	Age
Beech	2	Pole/Log	9	
White Oak	50	XLog/Log/Pole	22	109
White Pine	30	XLog/Log	22	109
Hemlock	3	Log/Pole	11	
Red Oak	15	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling
Red Oak	Low	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
81	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	24.6	89	1-50	N/A	The stand was harvested in September of 2017 in C140 Mix, 73-005-15. All the stump sprouts have been browsed to death. There are white pine seedlings. However, they are scattered. There are also some oak sprouts, but only a few are established. The crown closure is closer to 50%.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		31	Log/Pole	12		Red Maple		Medium	>20 feet	Pole
Red Maple		53	Log/Pole/XLog	13	89					
Red Oak		16	Log/Pole	12						
82	4123 - Red Oak	Sawtimber Well	5.0	65	111-140	N/A	The stand is rolling. There are legacy oaks in it. It has a crown closure around 90%.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		2	Pole/Log	8		Red Maple		Medium	Variable	Sapling
White Pine		4	XLog/Log	19		Red Oak		Medium	Variable	Sapling
Red Oak		80	Log/Pole/XLog	14	65	White Oak		Low	Variable	Sapling
White Oak		14	XLog/Log	22						
83	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	9.1	51	1-50	N/A	Portions of the stand are now flooded. It looks like it will eventually become lowland shrub. The only part that has trees on dry ground is along the drainage ditch.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		55	Pole/Log	9	51	Deciduous Shrubs		High	5 - 10 feet	Tall Shrub
Swamp White Oak		45	Pole/Log	9						
85	4130 - Aspen	Sawtimber Well	6.9	51	111-140	N/A	The stand is hummocky, and portions of it are seasonably wet. It is a little wetter than the stand to the north. It could be harvested as a clear cut with retention. The retention should be in pockets. The harvest needs to be done in dry or frozen conditions.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		70	Log/Pole	10	51	Red Maple		High	>20 feet	Sapling
Black/Red (Hybrid) Oak		5	Log/Pole	12		Balsam Fir		Low	>20 feet	Sapling
Swamp White Oak		2	Log	12		White Pine		Low	>20 feet	Sapling
Balsam Fir		3	Pole/Log	9						
White Pine		8	Log	14						
Red Maple		12	Log/Pole	12						
87	4199 - Other Mixed Upland Deciduous	Sapling Well	12.0	25	1-50	N/A	The stand was cut in Rifle River-Big Bend, sale 73-040-88 which was completed 10/1988. The stand is a little variable because of past beaver activity.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		42	Sapling/Pole	4	25					
Paper Birch		20	Sapling	3	25					
Red Oak		3	Pole/Sap/Log	5						
Bigtooth Aspen		30	Pole/Sapling	5	25					
White Pine		3	Log/Pole	12						
White Oak		2	Pole	9						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
89	4130 - Aspen	Poletimber Well	22.8	44	81-110	N/A	The stand is a little hummocky. There are some wet areas, but the stand is mostly upland. The aspen is doing well and could hold for 10 years.																																																															
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90	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	85.6	44	81-110	N/A	The ash is gone. In addition, there is windthrow of aspen. This has lowered the crown closure to below 75%. Most of the aspen that was southeast of the old railroad grade is gone. The aspen that is left is mainly northwest of the grade and is mature. The stand is very wet.																																																															
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91	6229 - Mixed lowland shrub	Nonstocked	9.2		Unspecified	No	The stand has filled in a lot with lowland shrub. There are still some open areas of marsh.																																																															
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93	4199 - Other Mixed Upland Deciduous	Sawtimber Well	31.0	99	111-140	N/A	The stand was thinned 03/2009 in Rifle Rim, sale 73-001-06. The understory is mainly service berry. There is not much in other species. The average BA is around 120. Adjacent to the river the stand has a relatively high bench of upland soils.																																																															
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94	6113 - Lowland Maple	Sawtimber Medium	8.7	103	81-110	N/A	The ash is gone in the stand. The soils are very wet. There are some canopy gaps. The crown closure goes from 50% to 80%, and averages 70%.																																																															
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95	42200 - Natural White Pine	Sawtimber Medium	7.4	85	1-50	N/A	The stand was thinned in Rifle Rim sale 73-001-06, the cutting was completed on 01/2010. The terrain is undulating. It has a thick understory of maple and aspen. Leave the stand and let the understory grow up with the white pine.																																													
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96	6113 - Lowland Maple	Sawtimber Well	14.3	110	51-80	N/A	The stand is low and wet. The ground cover is pretty much just sensitive fern. The ash in the stand is gone. There is a trace of bur oak.																																													
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98	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	7.2	103	1-50	N/A	The stand has had beaver flooding in the past killing off the overstory. What trees are left are on the North and South sides of the stand. The stand is too wet to harvest.																																													
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100	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	13.6	77	81-110	N/A	The stand has a thick understory of red maple. The terrain is generally flat.																																													
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101	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	8.3	95	51-80	N/A	The ash is now gone in the stand making the crown closure closer to 60%. The terrain is generally level but there are numerous wet drainages crossings it.																																													
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102	6113 - Lowland Maple	Poletimber Medium	8.4	95	81-110	N/A	The crown closure in the stand goes from 30% up to 80%. The average is around 65%. It has a thick understory of lowland shrubs. Most of the shrubs are Michigan holly and tag alder. All the ash is gone.																																											
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103	710 - Sand, Soil	Nonstocked	2.3		Immature	No	The stand is heavily disturbed by ORV activity. What once was grass 10 years ago is now open sand. This is a RDR.																																											
104	6113 - Lowland Maple	Sawtimber Poor	34.9	94	1-50	N/A	The ash is all gone as well as the Aspen. There is also some windthrow. The soils are very wet. The deciduous shrub layer is very thick.																																											
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105	42200 - Natural White Pine	Sawtimber Well	13.1	95	81-110	N/A	The stand was thinned in Rifle Rim, sale 73-001-06. The cutting was complete on 01/2010. The regeneration in the stand is coming in pretty good. It is heavy to red maple with some oak.																																											
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106	4131 - Aspen, Oak	Poletimber Medium	11.5	25	81-110	N/A	The stand is just turning into poles. There is some windthrow. Most of the damage is toward the south end. The aspen is heaviest in the eastern 1/2 and maple in the western 1/2.																																											
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107	6113 - Lowland Maple	Sawtimber Medium	20.3	95	81-110	N/A	The stand had an ash salvage harvest that was not completed. Around 20-30 % of the stand was treated. What ash was left after the harvest has died. The soils are very wet. There is a thick understory of deciduous shrubs.																																											
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108	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.4	49	111-140	N/A	The stand does have a lot of single stem pole maple. The aspen could be harvested but hold to let the maple get a little larger. The soils are rich so the aspen should not decline over the next 10 years.																																																				
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109	500 - Water	Nonstocked	17.1		Unspecified	No	Rifle River																																																				
110	4125 - Black, N. Pin Oak	Sawtimber Poor	8.5	93	1-50	N/A	The stand was harvested in September 2017, in C140 Mix, 73-005-15. The regeneration from the harvest is about a medium stocking of Aspen, oak, and maple. The oak is not established at the current time. There are still open pockets without regeneration. The harvest retained cedar and white pine.																																																				
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112	500 - Water	Nonstocked	6.8		Unspecified	No	The stand is an oxbow of the Rifle River. The water level is lower than last inventory. It is becoming more of a emergent marsh. There are still areas with extensive water.																																																				
113	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	12.6	91	81-110	N/A	The ash in the stand is gone. There are numerous canopy gaps. The stand is a mix of upland and lowlands. The lowland is the majority by a little.																																																				
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114	42290 - Natural Mixed Pine	Sawtimber Well	11.6	95	81-110	N/A	The stand is heavily dissected by ORV trails. The understory is coming along well. It is heavy to oak and maple.																																																				
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116	6112 - Lowland Aspen	Sawtimber Well	5.1	74	51-80	N/A	The stand is wet, and the terrain is hummocky. There is some young ash regeneration. Some of the 3" DBH ash saplings are being hit with EAB. The crown closure is around 75%.																																															
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117	6113 - Lowland Maple	Poletimber Well	16.7	44	81-110	N/A	The stand is very wet. All the ash is gone. The ground cover is thick to sensitive fern. The stand is too wet to manage.																																															
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119	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	4.9	36	51-80	N/A	All the ash is gone. The crown closure is now around 60%.																																															
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122	4111 - S.Maple, Hard Mast Association	Sawtimber Well	19.0	108	111-140	N/A	The stand has been harvested in the past. The BA goes from 60 up to 140. It averages around 100. This portion of the rifle river is out of the natural river zone.																																															
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123	6113 - Lowland Maple	Poletimber Medium	24.6	44	51-80	N/A	The ash in the stand has died. The soils are very wet. There's a thick ground cover of sensitive fern. The stand is too wet to harvest.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
124	6112 - Lowland Aspen	Poletimber Medium	11.2	50	51-80	N/A	This stand was private 18 years ago. The private landowner did a real estate harvest. The stand is mostly low and with some upland pockets in it.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		30	Pole/Log	9	50	Rock Elm		
Cottonwood		2	Log	15		Musclewood/Hornbeam		
Balsam Poplar		30	Pole/Log	9	50			
Swamp White Oak		15	Pole/Log/Sap	9				
Red Oak		5	Pole/Log	9				
Basswood		8	Pole	8				
Quaking Aspen		10	Pole/Log	8				
125	6113 - Lowland Maple	Poletimber Poor	12.2	91	1-50	N/A	The stand was harvested as an ash salvage in 2014. The sale was 73-013-13-01, C 140 Ash Salvage. The regeneration is just starting to come in from the harvest. Currently it is very sparse. Will probably need to do a Regeneration survey in 5 years.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		100	Pole/Log	9	91	Deciduous Shrubs		
						Tag Alder		
126	6112 - Lowland Aspen	Poletimber Medium	9.8	47	51-80	N/A	The ash in the stand is gone. There are indicators of standing water most of the year in places. The aspen is also declining in the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		2	Pole/Sapling	6		Red Maple		
Red Maple		53	Pole/Sapling	7	47	Black Ash		
Quaking Aspen		45	Pole	8	47	Musclewood/Hornbeam		
						Deciduous Shrubs		
127	4123 - Red Oak	Sawtimber Medium	39.2	103	51-80	N/A	The stand was thinned in Rifle Rim, sale 73-001-06. The cutting was complete on 02/2009. It has a thick under story of service berry and maple. The oak regeneration is in the larger gaps. .	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Oak		5	Log/Pole	13	103	Red Oak		
Paper Birch		4	Pole	7		Serviceberry (Juneberry)		
Black/Red (Hybrid) Oak		3	Log/Pole	13		Witch Hazel		
Red Oak		63	Log	16	103	Sugar Maple		
Northern White Cedar		4	Log/Pole	11		White Pine		
White Pine		8	Log/XLog	16	103			
Sugar Maple		11	Pole/Log	9	103			
Red Maple		2	Pole	8				
128	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	4.6	91	81-110	N/A	The stand is upland with some hummocky areas. Ground cover bracken fern sheep Laurel.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		40	Log	16	91	Red Maple		
Paper Birch		8	Pole/Log	9		Black/Red (Hybrid) Oak		
White Pine		30	Log/XLog	17	91			
Red Maple		15	Pole/Log/Sap	9				
Black/Red (Hybrid) Oak		7	Log	14				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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129 6119 - Mixed Lowland Deciduous Forest Poletimber Well 5.6 44 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Swamp White Oak	4	Pole/Log	9	
Red Maple	35	Pole/Sapling	7	
Red Oak	20	Pole/Sap/Log	9	
American Elm	2	Pole/Sapling	6	
Quaking Aspen	39	Pole/Log	9	44

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Medium	>20 feet	Sapling
Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling
Musclewood/Hornbeam	Medium	10 - 20 feet	Sapling

The stand appears to be wet but maybe manageable in dry or frozen conditions. The ground is not overly hummocky, but there are indicators of standing water in the spring. The ash the stand is dead and gone lowering the crown closer to 75%.

130 6119 - Mixed Lowland Deciduous Forest Sawtimber Medium 45.6 112 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Cottonwood	46	XLog/Log	22	112
Red Maple	54	Log/XLog	16	112

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	5 - 10 feet	Sapling
Red Maple	Low	>20 feet	Pole
Michigan Holly	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	Low	10 - 20 feet	Sapling

The ash has died out. There is also significant mortality in the cottonwood. The terrain is hummocky and wet. The crown closure goes from 100% down to 30% and averages around 60%. The cedar is in the north half of the stand.

131 6119 - Mixed Lowland Deciduous Forest Sawtimber Medium 10.6 94 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	20	Log/Pole/Sap	14	94
Silver Maple	6	Log/Pole	13	94
Hackberry	8	Pole/Log	9	
Cottonwood	20	Log/XLog	16	94
Swamp White Oak	15	XLog/Log	22	
Sugar Maple	9	Pole/Log/Sap	9	
Red Maple	15	Log/Pole/Sap	14	
American Elm	7	Pole/Log/Sap	9	

Sub-Canopy Species	Density	Avg. Height	Size
Prickly Ash	High	5 - 10 feet	Tall Shrub
Red Maple	Low	>20 feet	Sapling
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub

The ash in the stand is gone. The understory is thick to prickly ash.

132 6112 - Lowland Aspen Poletimber Medium 27.6 44 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
American Elm	2	Pole/Sapling	7	
Northern White Cedar	5	Pole	6	
Swamp White Oak	3	Pole/Sapling	6	
Red Maple	20	Pole/Sapling	7	
Quaking Aspen	70	Pole/Log	9	44

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	10 - 20 feet	Sapling
Red Maple	High	>20 feet	Sapling

All the ash is dead as well as some of the aspen. The crown closure goes from 100% down to 50%. It averages a little below 75%. Soils appeared to be wet most of the year. During inventory in October the soil was dry enough to manage the stand.

133 6112 - Lowland Aspen Sawtimber Well 8.7 48 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole	9	
Cottonwood	2	Log	16	
Red Maple	5	Sapling/Pole	3	
Quaking Aspen	89	Log/Pole	10	48
Northern Pin Oak	2	Pole/Log/Sap	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Tag Alder	Low	10 - 20 feet	Tall Shrub

This stand was harvested 47 years ago.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
142	6229 - Mixed lowland shrub	Nonstocked	6.3		Unspecified	No	The stand is mostly lowland shrub. There are some maple, birch, and jack pine. They are in pockets and the crown closure is less than 25%. The terrain is generally flat. The stand is too wet to treat
		Sub-Canopy Species		Density	Avg. Height	Size	
		Northern Pin Oak		Trace	>20 feet	Sapling	
		Jack Pine		Trace	>20 feet	Sapling	
		Tag Alder		High	5 - 10 feet	Tall Shrub	
		Paper Birch		Trace	>20 feet	Sapling	
		Red Maple		Trace	>20 feet	Sapling	
		Michigan Holly		Medium	5 - 10 feet	Tall Shrub	
143	6113 - Lowland Maple	Poletimber Poor	7.8	100	51-80	N/A	The stand was harvested in an ash salvage, C 140 Ash Salvage, sale 17-013-13. The salvage left a higher Crown closure than the other stands that were harvested in the sale. The soils are a little higher and drier. There are some inclusions of lowland shrubs. The Crown closure is closer to 50%.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Paper Birch	5	Pole/Sapling	5		
		Red Maple	95	Pole/Log	9	100	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Low	>20 feet	Sapling	
144	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	25.8	93	81-110	N/A	There is significant mortality in in the aspen and cottonwood. There is no ash left. The cedar that was in the understory is now becoming the overstory. The terrain is hummocky and wet.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	30	Log/Pole	13	93	
		Black Spruce	5	Pole	8		
		Northern White Cedar	40	Pole/Log	8	93	
		Red Maple	7	Pole/Sapling	7		
		Red Oak	3	Pole/Sapling	6		
		Balsam Fir	15	Pole/Sapling	5		
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Low	>20 feet	Sapling	
		Balsam Fir		Medium	10 - 20 feet	Sapling	
		Deciduous Shrubs		Full	5 - 10 feet	Tall Shrub	
145	6126 - Lowland Jack Pine	Poletimber Well	10.0	81	111-140	N/A	The ground cover is heavy to sheep laurel. It is wet.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Pine	5	Log/Pole	11		
		Jack Pine	80	Pole/Log	9	81	
		Red Pine	15	Log/Pole	11		
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Medium	10 - 20 feet	Tall Shrub	
		Sheep Laurel		Full	5 - 10 feet	Tall Shrub	
149	6225 - Bog	Nonstocked	9.0		Unspecified	No	The stand is low and wet. It is heavy to leather leaf with some scattered trees.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Jack Pine		Trace		Sapling	
		Paper Birch		Trace		Sapling	
		Red Pine		Low		Pole	
151	6113 - Lowland Maple	Poletimber Medium	14.0	45	51-80	N/A	The ash in the stand is gone. The crown closure goes from 20% up to 100%. The average is around 55%. The soils are wet.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	15	Pole/Log	8		
		American Elm	3	Sapling/Pole	4	45	
		Red Maple	82	Pole/Sap/Log	8	45	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Black Ash		Low	>20 feet	Sapling	
		Deciduous Shrubs		Full	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
153	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	10.5	89	51-80	N/A	The north end of the stand has cedar and is wetter. There is a dry oak ridge through the southern part of the stand. All the ash is gone. The aspen is declining.																																														
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156	4130 - Aspen	Sapling Well	9.9	25	1-50	N/A	The stand is mostly upland with a few pockets of lowlands. It has regenerated very well to aspen. The oak and white pine were retained when the stand was harvested.																																														
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158	4130 - Aspen	Poletimber Medium	9.8	89	81-110	N/A	The stand goes from conifer at the north end to quaking aspen at the south end. The understory is shrubs. It is thick to Michigan Holly. The stand is seasonably wet.																																														
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159	42210 - Natural Red Pine	Sawtimber Well	3.4	76	201+	N/A	The stand is a natural pocket of red pine. The soils are slightly dryer. The ground cover is huckleberry with some sheep laurel.																																														
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163	6113 - Lowland Maple	Sawtimber Poor	230.9	100	81-110	N/A	The stand was part of an ash salvage. The western portion was harvested but not all of it. The sale came back to the State. The sale was C 140 Ash Salvage, 17-013-13. The ash that was not harvested has died. The crown closure goes from 20% to 60%, but averages 30%.																																														
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164	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	19.9	89	1-50	N/A	The understory consists of thick shrub. There is some aspen and maple regeneration. The soils look like it is seasonably wet. The ash in the stand is now gone.																																														
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165	4130 - Aspen	Sapling Well	22.2	25	51-80	N/A	The stand is converting to poles. There is a trace of oak and ash in the understory. The terrain is hummocky but dry. The aspen is suppressing shrub layer. The shrubs are a mix of deciduous.																																														
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167	6112 - Lowland Aspen	Sapling Medium	31.8	25	1-50	N/A	The stand is still sapling but there are some poles starting to appear. The understory is thick deciduous shrubs. The terrain is hummocky. There is a lot of riverbank grape making crossing the stand hard. There is a slight ridge that runs through the stand that is that is heavy to trembling aspen and oak.																																														
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169	4199 - Other Mixed Upland Deciduous	Poletimber Well	30.8	47	51-80	N/A	The stand is hummocky. It is mostly upland. There are areas of lowland that crossed it. The quaking Aspen is declining. Access to the stand is a problem.																																														
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170	6224 - Treed Bog	Nonstocked	8.8		Unspecified	No	The stand is very wet. The ground cover is sheep laurel, Michigan Holly, and tag alder. There is scattered oak, maple, and jack pine. The jack pine is in a larger clump in the center of the stand.																																														
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171	6126 - Lowland Jack Pine	Poletimber Medium	5.5	81	81-110	N/A	The crown closure ranges from below 25% up to 100%. The average is around 60%. The terrain is hummocky, and wet. The jack pine is in the southwest half of the stand. It gets much sparser going to the northeast.																																														
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172	6112 - Lowland Aspen	Poletimber Medium	5.8	66	51-80	N/A	The stand is about 60% lowland. There are pockets that are manageable. There is a good understory of red maple. The aspens in the stand are declining.																																										
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173	4125 - Black, N. Pin Oak	Poletimber Well	5.6	89	51-80	N/A	The stand has a ridge through the center that is quite dry. The edges are wet. The terrain is hummocky. The aspen is declining and most of it is now down. The die off and decline have functioned as a shelter wood harvest. The density is too low to thin.																																										
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177	3105 - Mixed Upland Herbaceous	Nonstocked	1.0		Unspecified	No	50% composit flower over grass, 50% mowed grass. Grape vines and clothes line on state: appears to be trespass. Fence row of white pine blocks view of private land.																																										
178	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	4.0	25	1-50	N/A	The stand is a low drain that is filling in with hybrid oak and quaking the Aspen.. The age of the trees trees are around 24 about the same as stand 163. But there are younger seedlings in it. The ground cover is thick to Michigan Holly.																																										
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Michigan Holly	Full	5 - 10 feet	Tall Shrub																																														
179	6225 - Bog	Nonstocked	6.6		Unspecified	No	The stand is a mixture of lowland and uplands. It has pockets of leather leaf in the lowland and bracken fern in the uplands. It is about 60% lowland.																																										
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184	42290 - Natural Mixed Pine	Poletimber Well	6.7	81	141-170	N/A	The terrain is hummocky. The stand is mainly red pine and jack pine. The jack pine is around the outer edge of the stand the red pine is more toward the center. Ground cover is heavy to huckleberry and sheep laurel.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
185	3102 - Grass	Nonstocked	6.9		Unspecified	No	This is a open herbaceous field with some scattered pine. The ground cover is grass, sweet fern, and bracken fern.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Quaking Aspen	Low		Pole	
								Jack Pine	Low		Pole	
								Red Maple	Low		Pole	
Labrador Tea	High		Tall Shrub									
186	42220 - Natural Jack Pine	Poletimber Well	12.9	81	81-110	N/A	There is some windthrow occurring in the stand that has lowered the BA. The ground cover is huckleberry with some sheep laurel.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Pine	20	Log/Pole	11	81
								Jack Pine	80	Pole/Log	9	81
								Sub-Canopy Species	Density	Avg. Height	Size	
Huckleberry	Medium	5 - 10 feet	Tall Shrub									
Sheep Laurel	Medium	< 5 feet	Tall Shrub									
187	6113 - Lowland Maple	Poletimber Poor	22.3	50	51-80	N/A	The crown closure varies from 75% down to 15%. It averages around 40%. The stand is very wet. There is no ash left in it. The southern edge has large diameter lowland hardwood. The stand is uneven aged.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	5	Log/Pole	11	
								Red Maple	75	Pole/Log	9	50
								Swamp White Oak	10	Pole/Sapling	6	
								American Elm	2	Pole/Sapling	5	
								Paper Birch	8	Pole/Sapling	5	
Sub-Canopy Species	Density	Avg. Height	Size									
Deciduous Shrubs	High	5 - 10 feet	Tall Shrub									
Michigan Holly	High	10 - 20 feet	Tall Shrub									
190	6225 - Bog	Nonstocked	13.4		Unspecified	No	With the mortality in the stand it has converted to just a bog. There is lowland shrub in here mainly willow and Michigan holly. The trees that are here are jack pine and quaking aspen. They are in poor condition.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Leatherleaf	Full	< 5 feet	Tall Shrub	
								Paper Birch	Low	10 - 20 feet	Pole	
								Quaking Aspen	Low	10 - 20 feet	Pole	
								Tag Alder	Low	5 - 10 feet	Tall Shrub	
								Willow spp.	Trace	5 - 10 feet	Tall Shrub	
								Jack Pine	Low	10 - 20 feet	Pole	
192	6118 - Lowland Deciduous with Cedar	Poletimber Well	10.8	31	51-80	N/A	The ash in the stand is gone. The current overstory is the maple ranging from saplings to poles. There are pockets of cedar and fir that are mature.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	57	Pole/Sapling	5	31
								Paper Birch	10	Pole/Sapling	7	
								Northern White Cedar	23	Pole	9	
								Balsam Fir	10	Pole/Sapling	6	
								Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	Low	>20 feet	Sapling									
Balsam Fir	Medium	10 - 20 feet	Sapling									
Tag Alder	Low	10 - 20 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
195	6112 - Lowland Aspen	Poletimber Poor	15.0	80	51-80	N/A	The terrain is hummocky. The under story is heavy to Michigan holly. Overall, it is too wet to harvest.																																						
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198	6225 - Bog	Nonstocked	3.6		Unspecified	No	The stand is mainly leather leaf and sheep laurel with scattered jack pine and aspen.																																						
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200	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	4.7	49	1-50	N/A	The stand is very wet. The crown closure is just over 25%. The east end has a lower density than the west end. The stand has a trace of Tamarack in the canopy, and red osier dogwood in the ground cover. it is a narrow transition between swamp hardwoods and lowland shrubs.																																						
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201	4119 - Mixed Northern Hardwoods	Poletimber Medium	10.8	52	51-80	N/A	The stand is almost a 50/50 mix of uplands and lowlands. There is a pocket of balsam regeneration at the west end. All the ash is gone opening the canopy. The average crown closure is 70%.																																						
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202	629 - Mixed non-forested wetland	Nonstocked	7.0		Unspecified	No	The stand is a lowland type. The species are mainly winterberry, tag alder, and blueberry. It looks like it dries out in the fall. Trees are seeding in moving the stand toward being forested.																																						
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204	6112 - Lowland Aspen	Poletimber Medium	4.8	45	51-80	N/A	There is significant windthrow in the stand. The crown closure is now closer to 50%. The aspen has poor form and there is some windthrow.																																						
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206	6112 - Lowland Aspen	Poletimber Medium	19.0	49	51-80	N/A	The stand is a matrix of uplands and lowlands with the lowlands being the majority. The understory is tag alder and Michigan holly. The stand looks dry at the current time. However, the plant indicators shows that it is probably wet most of the year. It may be too wet to harvest, especially the northern portion.																																						
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208	330 - Low-Density Trees	Nonstocked	3.0	0	Unspecified	No	The stand is 50 to 60% upland. The stand is close to being forested. The crown closure is around 20%.																																						
210	4130 - Aspen	Sapling Medium	18.3	6	Immature	N/A	The stand was harvested in Sept. of 2017 in C140 Mix, 73-005-15. The crown closure goes from 25% up to 100%. The average is around 70%. The crown closure is denser on the upland areas. Much of the oak regeneration is not established.																																						
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211	6220 - Alder/willow	Nonstocked	4.0		Unspecified	No	The stand is a slight depression. It is wet with some scattered trees. Shrubs are thick.																																						
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212	110 - Low Intensity Urban	Nonstocked	1.1		Unspecified	No	The stand is the road and the adjacent mowed shoulder.																																						
213	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	5.5	73	Unspecified	N/A	The stand is too wet to harvest.																																						
216	42220 - Natural Jack Pine	Poletimber Well	1.5	45	111-140	N/A	The jack pine is short and limby having poor form. Most of the trees have no more than one good pulp stick.																																						
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Bigtooth Aspen	18	Pole/Sapling	6																																										
Jack Pine	82	Pole/Sapling	6	45																																									
217	3105 - Mixed Upland Herbaceous	Nonstocked	0.8		Unspecified	No	This is a herbaceous opening. The west end is degraded from ORVs and past logging activities.																																						
218	6112 - Lowland Aspen	Poletimber Medium	4.2	73	Unspecified	N/A	The parcel is surrounded by private land except for a narrow neck that is blocked by a drain.																																						
219	6239 - Mixed Emergent Wetland	Nonstocked	4.4		Unspecified	No	The stand is low and wet. There are some scattered trees. The ground cover is mainly marsh grass.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
220	6113 - Lowland Maple	Sawtimber Well	28.8	61	81-110	N/A	The stand is very wet even after an abnormally dry summer and fall there is still standing water. The soils are mucky. All the ash is gone. It is now a pure red maple stand. The southern half has some larger canopy gaps caused by the ash die off. False posting of private line.					
	Canopy Species	% Cover	Size Class	DBH	Age							
	Red Maple	100	Log/Pole/Sap	11	61							
221	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	16.9	89	Unspecified	N/A	Parcel surrounded by private except for narrow "neck" blocked by drain. The decadent jack pine with 21% hardwoods.					
222	6224 - Treed Bog	Nonstocked	14.2		Unspecified	No	The stand is mainly scattered jack pine and aspen over leather leaf.					
224	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.3	73	Unspecified	N/A	Parcel surrounded by private except for narrow "neck" blocked by drain. The aspen is declining. There is also some birch and maple.					
225	6239 - Mixed Emergent Wetland	Nonstocked	12.4		Unspecified	No	The stand is sparse. The ground cover is marsh grass and lowland shrubs.					
226	6220 - Alder/willow	Nonstocked	6.1		Unspecified	No	The stand is mainly low-density trees over lowland shrubs.					
227	4139 - Aspen, Mixed Deciduous	Poletimber Medium	4.6	73	1-50	N/A	Parcel surrounded by private except for narrow "neck" blocked by drain. The aspen in the stand is declining. There are some mixtures of swamp hardwood. The stand is roughly 40% upland.					
	Canopy Species	% Cover	Size Class	DBH	Age							
	Quaking Aspen	50	Log/Pole	10	73							
	Black/Red (Hybrid) Oak	15	Log	12								
	Red Maple	35	Pole/Log	9								
232	6229 - Mixed lowland shrub	Nonstocked	37.4		Unspecified	No	The stand is mainly tag alder 10-15' tall. There are some small inclusions that are open. There are also some widely scattered trees along the eastern edge.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Willow spp.	Medium		Tall Shrub	
	Tag Alder	Full		Tall Shrub								
233	3102 - Grass	Nonstocked	4.9		Unspecified	No	The stand is the result of a trespass that was resolved. It is now mainly grass and a two-track.					
235	6113 - Lowland Maple	Sawtimber Poor	13.6	92	1-50	N/A	All the ash is dead. The ground cover is Michigan holly and tag alder. There are scattered knobs of uplands, but most of the stand is lowlands.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	60	Pole/Log	9	92
								Cottonwood	10	XLog	25	92
								Quaking Aspen	30	Log/Pole	12	
Sub-Canopy Species	Density	Avg. Height	Size									
Tag Alder	Low	10 - 20 feet	Tall Shrub									
Michigan Holly	High	5 - 10 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
236	6112 - Lowland Aspen	Sapling Medium	29.8	7	Immature	N/A	The stand was harvested during late summer of 2017. The regeneration is patchy. The crown closure is around 50%. There are areas with a crown closure of 100% and areas where it is 0%. The poor regeneration is probably due to when it was cut. Stand 5 and 236 were the same stand when it was set up to be harvested.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		14	Pole/Sap/Log	5		Tag Alder		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		86	Sapling	1	7					
237	6112 - Lowland Aspen	Poletimber Poor	20.0	48	1-50	N/A	The ash is gone. The crown closure is now closer to 25%. The ground cover is marsh grass, Michigan holly, and tag alder. It is too wet to treat			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		90	Pole/Log	9	48	Tag Alder		Low	5 - 10 feet	Tall Shrub
Red Maple		10	Log/Pole	10	48	Michigan Holly	High	5 - 10 feet	Tall Shrub	
238	6113 - Lowland Maple	Poletimber Poor	8.4	88	1-50	N/A	All the ash is gone. The aspen is declining. The crown closure is now closer to 30%. The terrain is hummocky and wet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		65	Pole/Log/Sap	9	88	Red Maple		Low	10 - 20 feet	Sapling
Quaking Aspen		35	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub	
239	6229 - Mixed lowland shrub	Nonstocked	72.7	0	Unspecified	No	The stand is mainly lowland shrubs with scattered red maple. The ash is gone. There are some widely scattered red maple.			
242	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	11.4	92	81-110	N/A	The crown closure goes from 100% down to 20%. The average is around 60%. All the ash is gone.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		25	Log/Pole	13		Red Maple		Low	>20 feet	Pole
Quaking Aspen		20	Log	14		Tag Alder	Low	10 - 20 feet	Tall Shrub	
Cottonwood		55	XLog	30	92					
243	6113 - Lowland Maple	Poletimber Poor	12.7	32	1-50	N/A	The stand was salvaged 03/1990 with FTP W73-410. The stand has portions that are manageable. But those pockets are isolated by lowland shrubs and ground that is too wet to manage. The ash is gone, and the current crown closure is now around 30%.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		90	Pole/Log	9	32	Red Maple		Medium	>20 feet	Sapling
Quaking Aspen		10	Pole/Log	9	32	Tag Alder	Low	5 - 10 feet	Tall Shrub	
244	6113 - Lowland Maple	Sawtimber Well	5.6	85	81-110	N/A	All the ashes gone. There are now canopy gaps. The stand looks like it is seasonally wet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		100	Log/Pole	12	85	Red Maple	Low	>20 feet	Pole	
245	6224 - Treed Bog	Nonstocked	16.2		Unspecified	No	All the ash is gone. The crown closure is around 20%.			
Sub-Canopy Species		Density	Avg. Height	Size						
Tag Alder		Full	5 - 10 feet	Tall Shrub						
Michigan Holly		High	5 - 10 feet	Tall Shrub						
Quaking Aspen		Low	Variable	Pole						
Red Maple		Low	Variable	Sapling						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																			
246	6229 - Mixed lowland shrub	Nonstocked	11.3		Unspecified	No	The stand is mainly lowland shrubs with a few scattered trees.																			
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247	6113 - Lowland Maple	Sawtimber Poor	13.7	85	51-80	N/A	All the ash is gone. The crown closure is now closer to 25%.																			
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251	6112 - Lowland Aspen	Sawtimber Medium	11.0	70	1-50	N/A	All the ash is gone. The crown closure is now closer to 50%. The terrain is hummocky and wet. It has a thick understory of tag alder.																			
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254	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	No	The stand is a manmade opening associated with the well pad (stand 1). It is mainly grass with some autumn olive. The edges do have some trees, but they are sparse.																			
255	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	6.5	75	81-110	N/A	The stand ranges from log/pole at the north end to pole/sapling at the south end. The terrain is hummocky. It has a dense maple understory.																			
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256	6220 - Alder/willow	Nonstocked	22.8		Unspecified	No	The stand is mainly lowland shrubs with pockets of leather leaf. There are some widely scattered trees.																			
258	6229 - Mixed lowland shrub	Nonstocked	40.6		Unspecified	No	The stand is mainly lowland shrubs with some widely scattered quaking aspen.																			
260	4112 - Maple, Beech, Cherry Association	Poletimber Poor	7.0	69	1-50	N/A	The stand is a slight ridge that has scattered trees. The crown closure ranges from 10% to 80%. The average crown closure is about 35%.																			
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Quaking Aspen	15	Pole/Log	9																							
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261	6113 - Lowland Maple	Poletimber Well	30.5	70	81-110	N/A	The terrain is hummocky. There are large portions of the stand that are manageable. Hold the stand until the understory and codominant maple become more merchantable.																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
262	6112 - Lowland Aspen	Sawtimber Poor	12.5	66	1-50	N/A	The stand is barely forested. The crown closure is right around 25%. The existing overstory is declining, especially the aspen. All the ash is gone.																												
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263	4130 - Aspen	Sapling Poor	9.0	7	Immature	N/A	The stand was harvested in August 2017 in C140 Mix, 73-005-15. The regeneration is patchy. There is a lot of open areas.																												
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264	6229 - Mixed lowland shrub	Nonstocked	38.8		Unspecified	No	The stand is lowland shrubs with significant openings of marsh grass. The trees are scattered and on dryer nob. The lowland shrubs are heavier to leather leaf in the southern half of the stand. The ash is gone.																												
267	310 - Herbaceous Openland	Nonstocked	2.9		Unspecified	No	The stand is the cleared portion of the power line R.O.W. and an unpaved road.																												
268	6112 - Lowland Aspen	Sawtimber Poor	5.9	69	1-50	N/A	The stand is quaking aspen and maple over lowland shrubs. The crown closure is just a little over 25%. The stand is too wet to harvest.																												
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270	6229 - Mixed lowland shrub	Nonstocked	7.0		Unspecified	No	The ash in the stand has died. The 1998 DOQ show evidence of human disturbance making parallel ruts.																												