



# Compartment Review Presentation

## Gladwin Forest Management Unit

Compartment 73034

Entry Year 2019

Acreage: 3,733

County Gladwin

Management Area: Gladwin Lake Plain

**Revision Date:** 2017-05-26

**Stand Examiner:** Rick Myrick

### Legal Description:

T20N - R01E, Sections 24 and 25. T20N - R02E, Sections 1-3, 9-16, 18, 19, and 30.

### Identified Planning Goals:

Vegetation management in the Gladwin Lake Plain management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Rifle River, a designated natural river; 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.

Many of the new treatments that are being proposed are to help even out the aspen age class distribution. In addition, some of the proposed treatments have been designed to clear the Sterling Truck Trail R.O.W. to facilitate the county's ability to maintain and improve the road.

### Soil and topography:

The terrain in the Compartment ranges from flat to slightly undulating. The areas of greatest topography relief are along the river corridor. The soils in the Compartment range from Loxley Muck and Roscommon Association in the poorly drained areas, to Iosco Association in the somewhat poorly drained, and the Chelsea-Rubicon and Crosswell Associations in the well drained areas.

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

The Compartment is fairly fragmented stretching across two townships and bordering numerous private parcels and small subdivisions. Most of the private land is forested and used for hunting property. The remainder is smaller parcels consisting of mainly recreational cabins and/or permanent residences.

### Unique Natural Features:

There are no unique natural features within Compartment 34 listed in the Michigan Natural Features Inventory database.

### Archeological, Historical, and Cultural Features:

There are no known archeological features within Compartment 34 listed in the Archeological database.

### Special Management Designations or Considerations:

There are no special management considerations designated for this Compartment. The Lame Duck Foot Access Area, however, is just south of a portion of the Compartment.

### Watershed and Fisheries Considerations:

This compartment features the Middle Branch Tittabawassee, the East Branch Tittabawassee, and LaPorte Creek. These are not designated trout streams in Gladwin County. Just to the north in Ogemaw County and upstream are the designated trout stream areas. These streams are warmer and provide transition to the impounded waters below. Many different species would use these waters either seasonally or all the time. Fish from Secord may run up these systems. Concerning the upper waters not influenced by the impoundment; care should be taken to maintain immediate bank stability and canopy cover.

### Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment #34 contains a variety of habitat types suitable for many wildlife species. The compartment includes the East Branch of the Tittabawassee River drainage and adjacent lowland complexes. These lowlands support various waterfowl, reptiles, amphibians, and their predators including raccoon, coyote, bobcat, mink, and Great Blue Heron. Furbearers including beaver, otter and muskrat use the lowlands as corridors as well as year-round

habitat. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common American woodcock, golden-winged warbler, pileated woodpecker, red-headed woodpecker and ruffed grouse. The compartment is easily accessible to hunters via Alger Road and Herner Road.

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

Surface sediments consist of lacustrine (lake) sand and gravel and fine textured till. The glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift are the Pennsylvanian Saginaw Formation and the Mississippian Bayport Limestone and Michigan Formation. The Saginaw formation is used for clay/shale for brick making, the Bayport for limestone and the Michigan for gypsum in other areas of the State. There is no known metallic mineral potential in this part of the state. Sand/gravel pits are not located in the area, and sand and gravel potential within the compartment appears to be limited. This compartment has had sparse exploration for oil and gas. However, there has been a rise in leasing and permit activity in the region recently. All of the state mineral rights in sections 24 & 25 in Clement Twp are currently leased for oil and gas exploration and development.

### **Vehicle Access:**

The western portion of the Compartment has good county road access via Bensch, Wildwood, Drummond and Boman Roads. There is limited State two track access. The central portion of the Compartment has good county road access via Sugar River, Herner, and School Roads. However, State two-track access is very restricted, and due to a number of stream crossings, some areas are completely inaccessible by vehicle. The eastern portion of the Compartment can be accessed from Ogemaw County via a State two-track off Sergeant Road. The remainder of the Compartment is inaccessible to the public as it is surrounded by private rural properties and is bisected by La Porte Creek.

### **Survey Needs:**

Most of the Compartment has sufficient survey corners established. There is no need at the current time for additional surveys.

### **Recreational Facilities and Opportunities:**

The Michigan Cross Country Cycle Touring Trail occurs on Boman and Bensch Roads. All designated trail sign posts shall be protected. Dispersed recreation is present within the compartment for hunting, fishing, camping, etc. and dispersed user created trails.

### **Fire Protection:**

The western and central portions of the Compartment have numerous county roads from which wildland firefighting equipment can provide emergency response. However, there are significant areas within the central and eastern portions of the Compartment that will prove difficult to access due to very limited to no State two-track access and/or a number of steep and/or wide stream crossings.

### **Additional Compartment Information:**

None

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

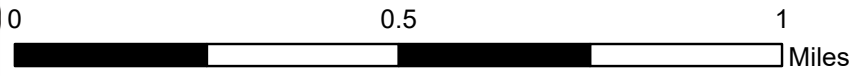
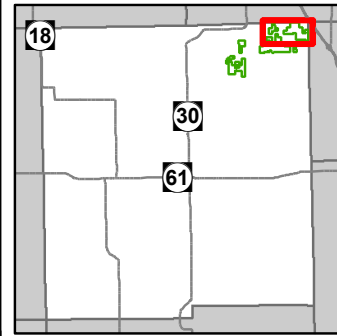
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

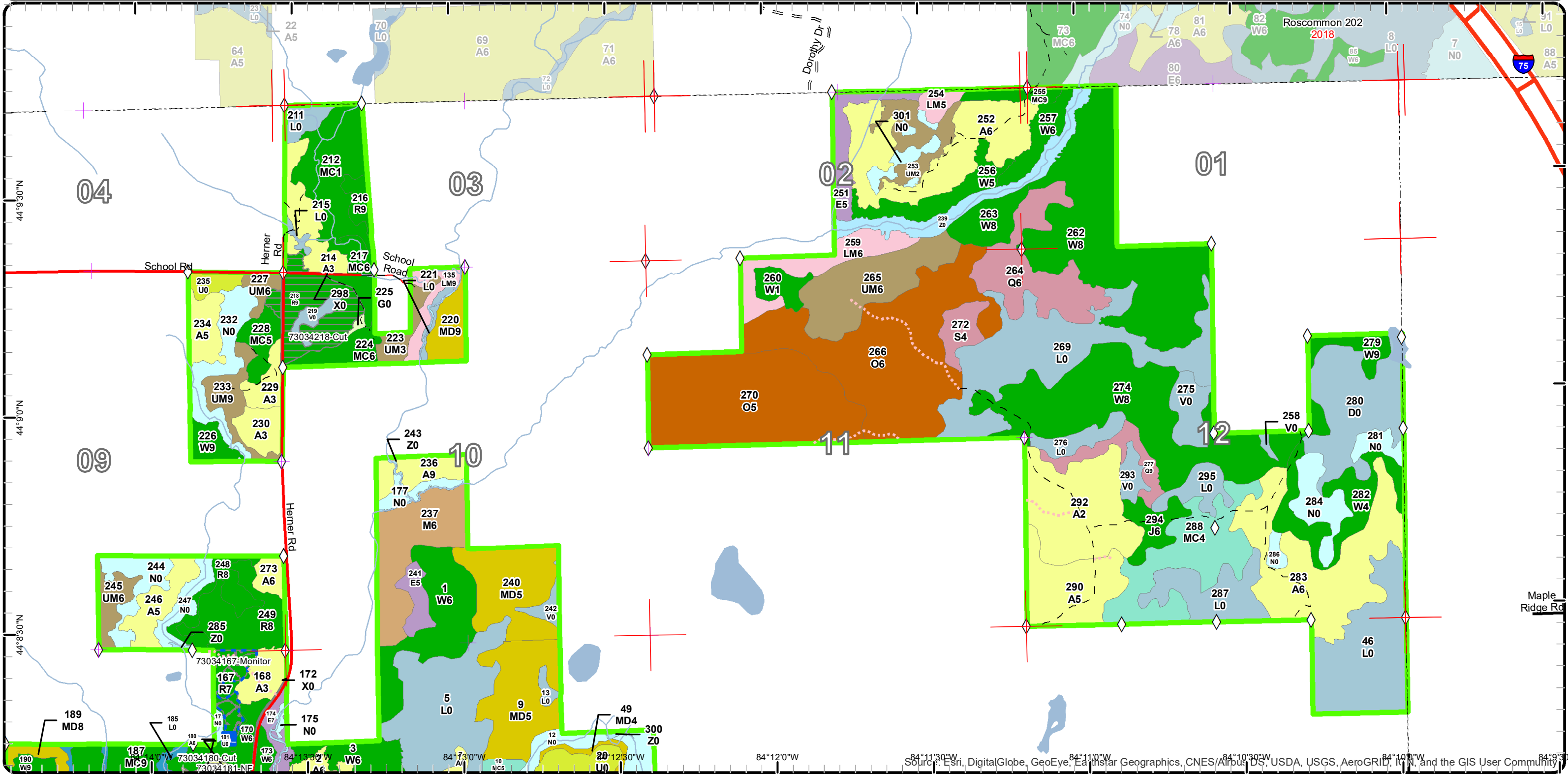
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 34  
 T20N-R01E Sec. 24,25  
 County: Gladwin  
 Unit: Gladwin  
 Mgmt Area: Gladwin Lake Plain  
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 Examiner: Rick Myrick  
 Map Revised: 7/31/2017  
 Map Phase: Post-Review

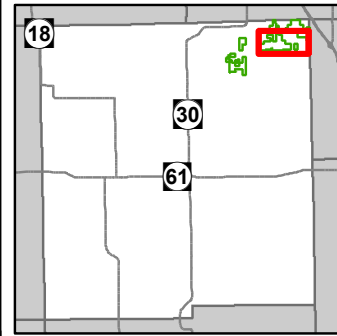
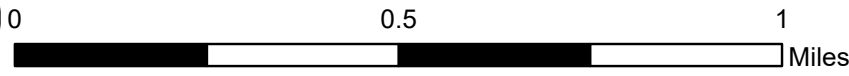


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- + Remonumented Section Corners
- Field Grade GPS Corners
- Counties
- Dams
- Highway
- Paved Roads
- Gravel Roads
- - - County Poor Dirt Roads
- - - Closed
- Streams
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- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
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- Lakes

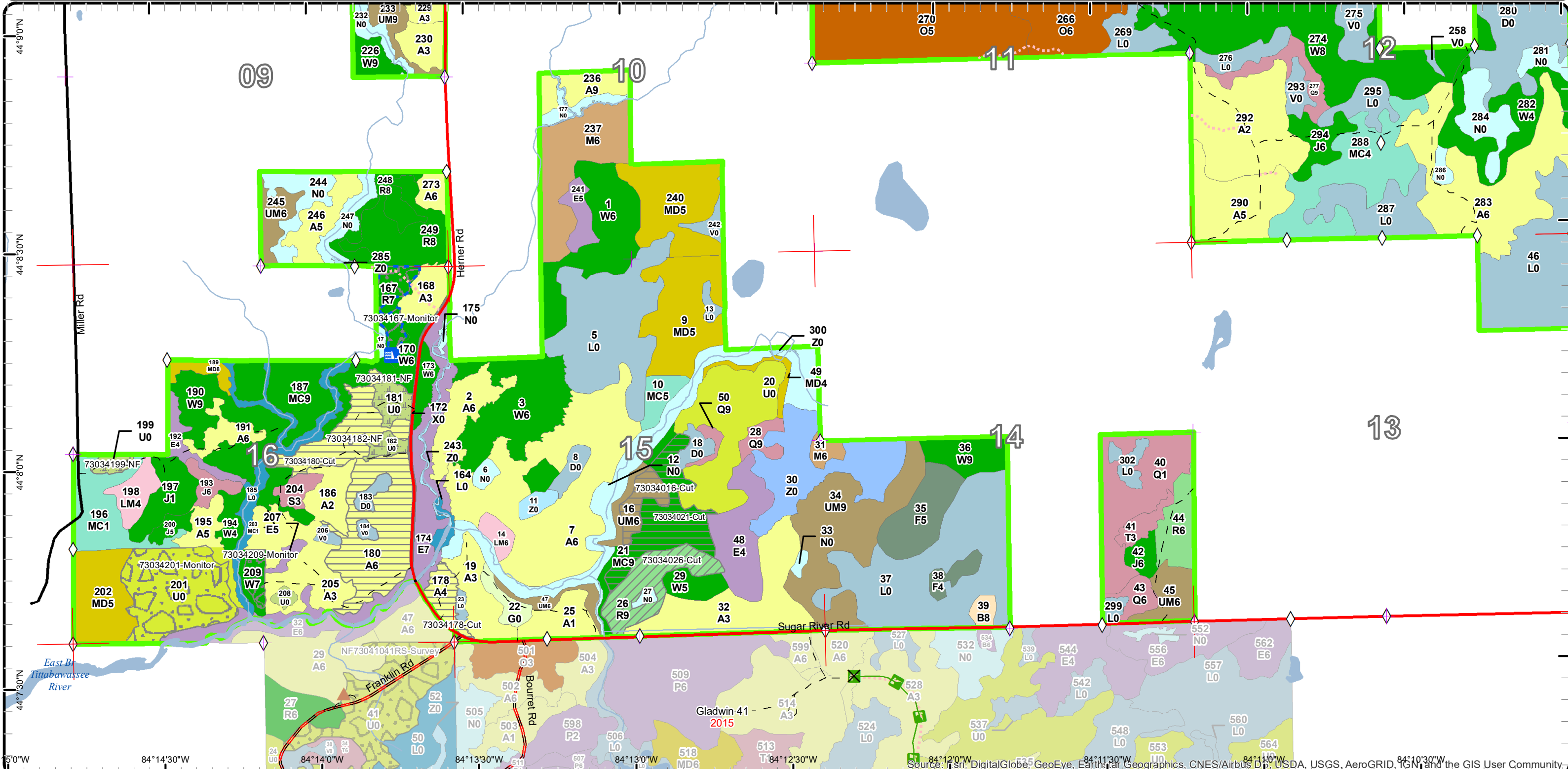


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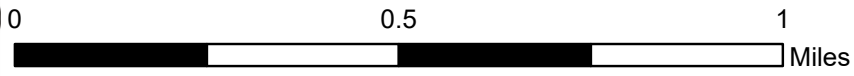
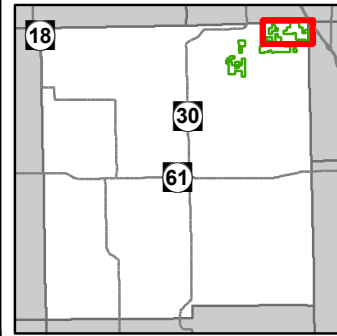
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- 📏 Thinning (Crown, Low, Systematic)
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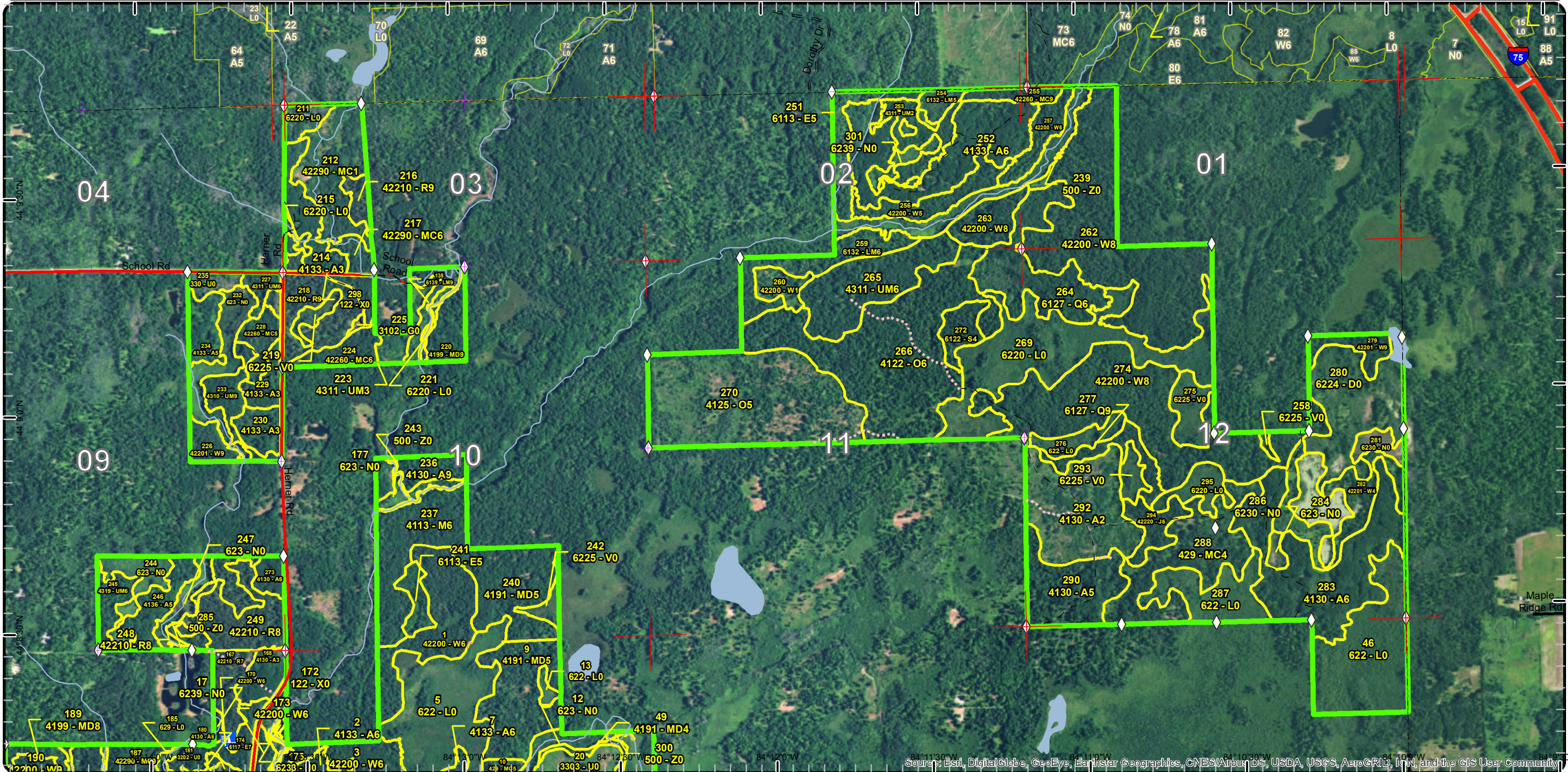


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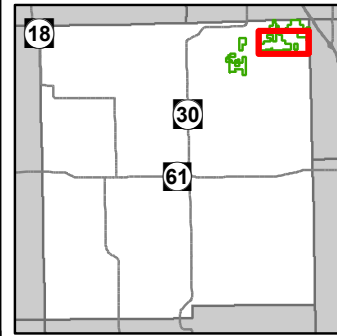
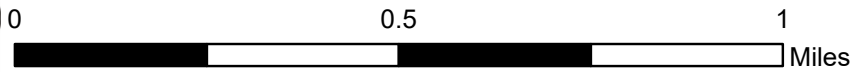




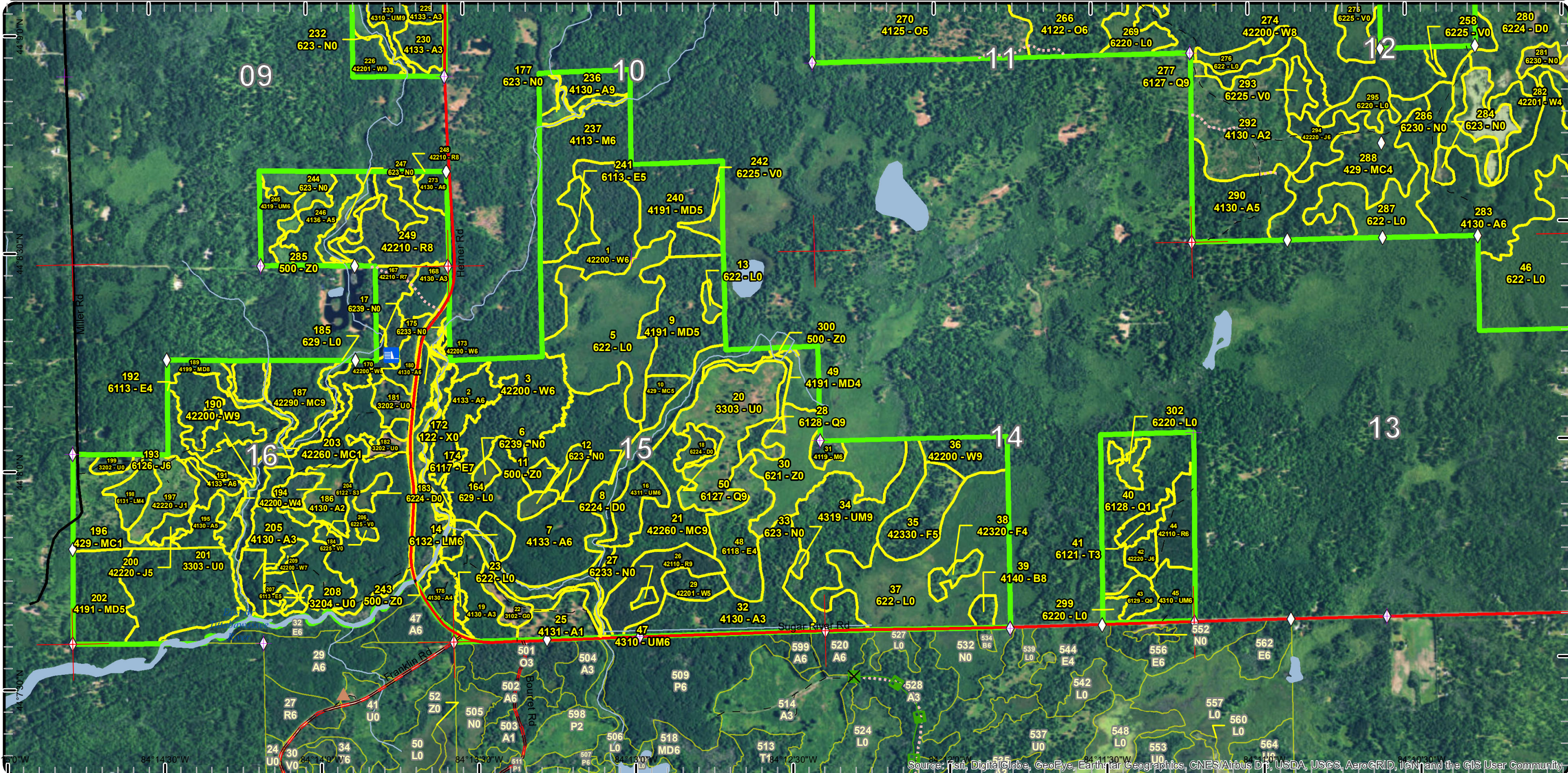


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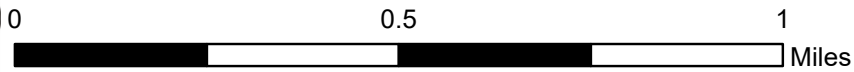
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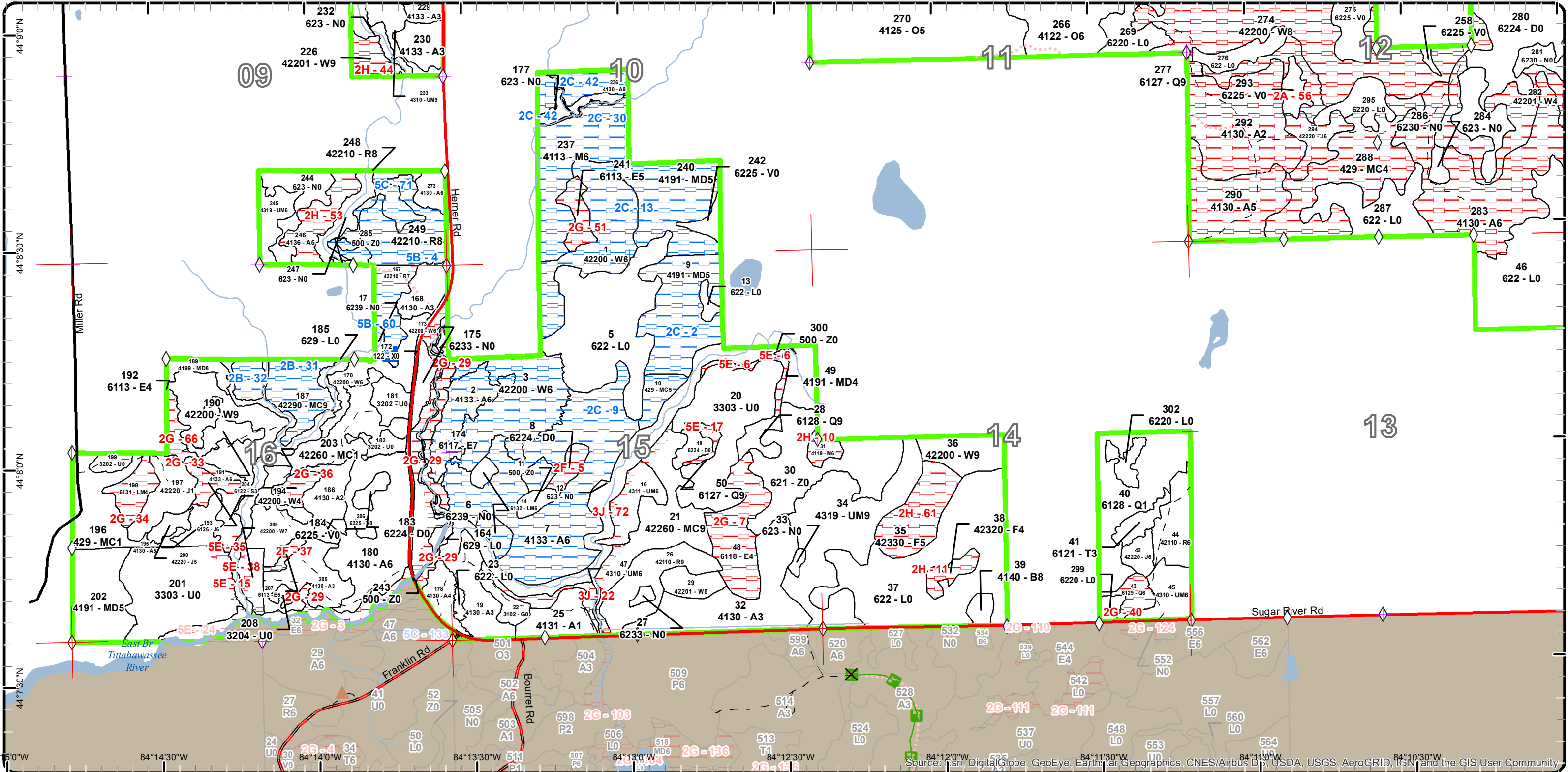


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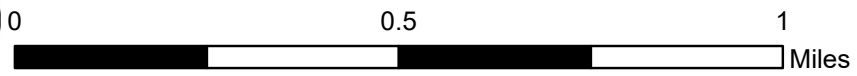
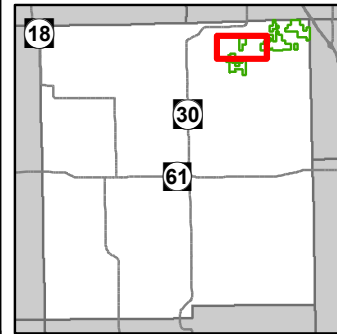
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 5E: Long-Term Retention
- Stand Boundaries
- Dedicated Management Areas
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)



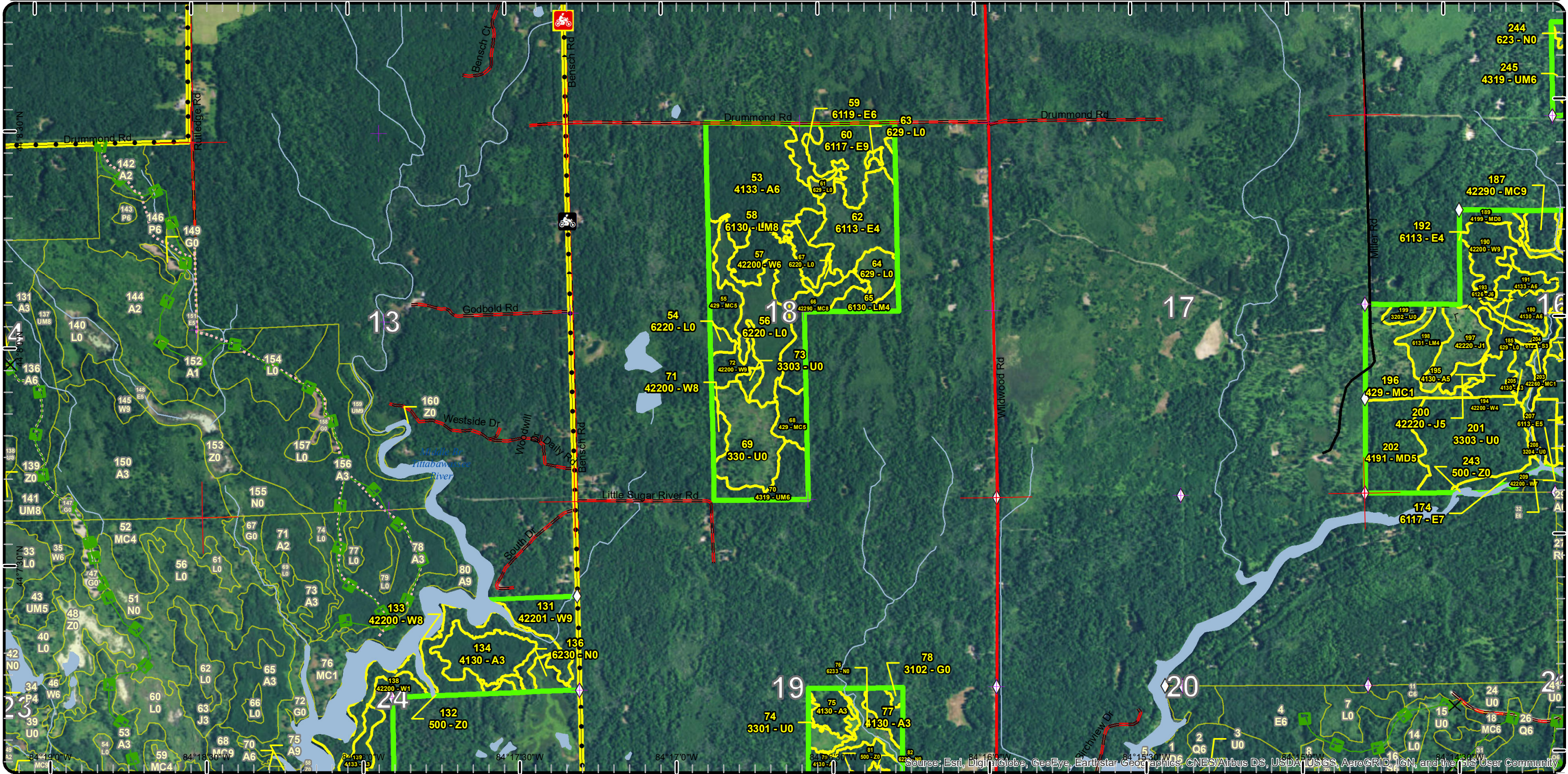


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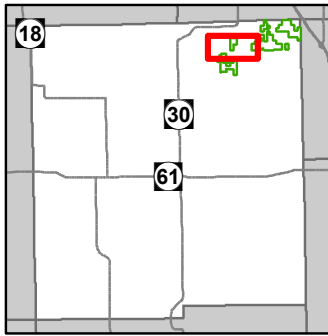
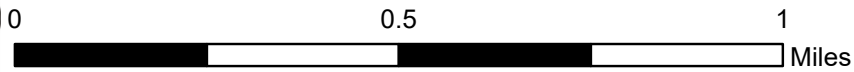


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA/USGS, AeroGRID, IGN, and the GIS User Community



# Special Conservation Areas & Site Conditions Map

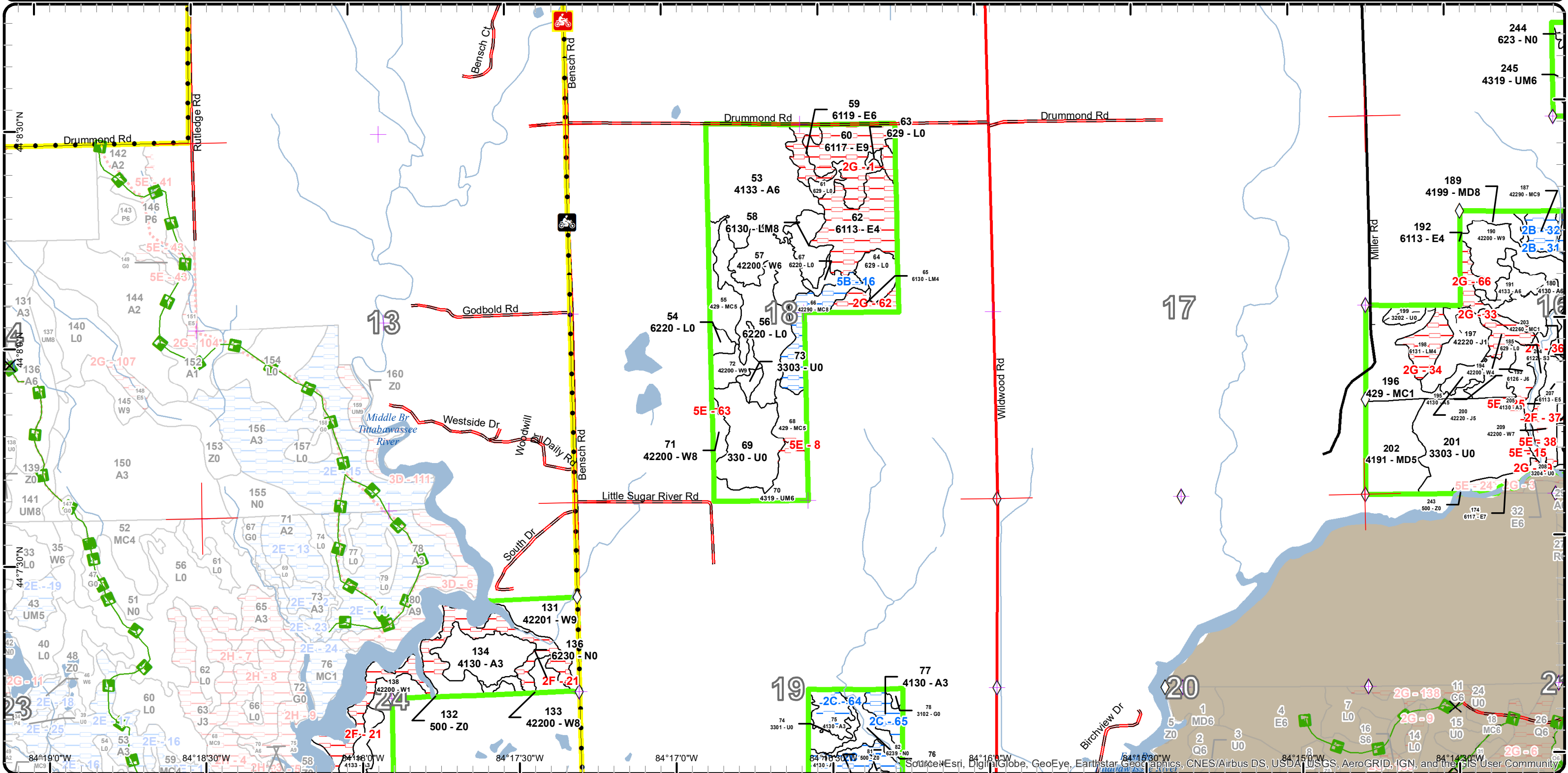
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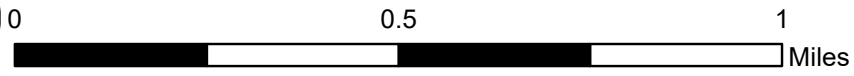
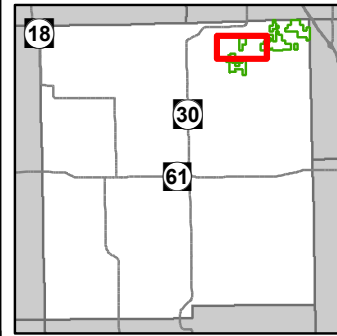
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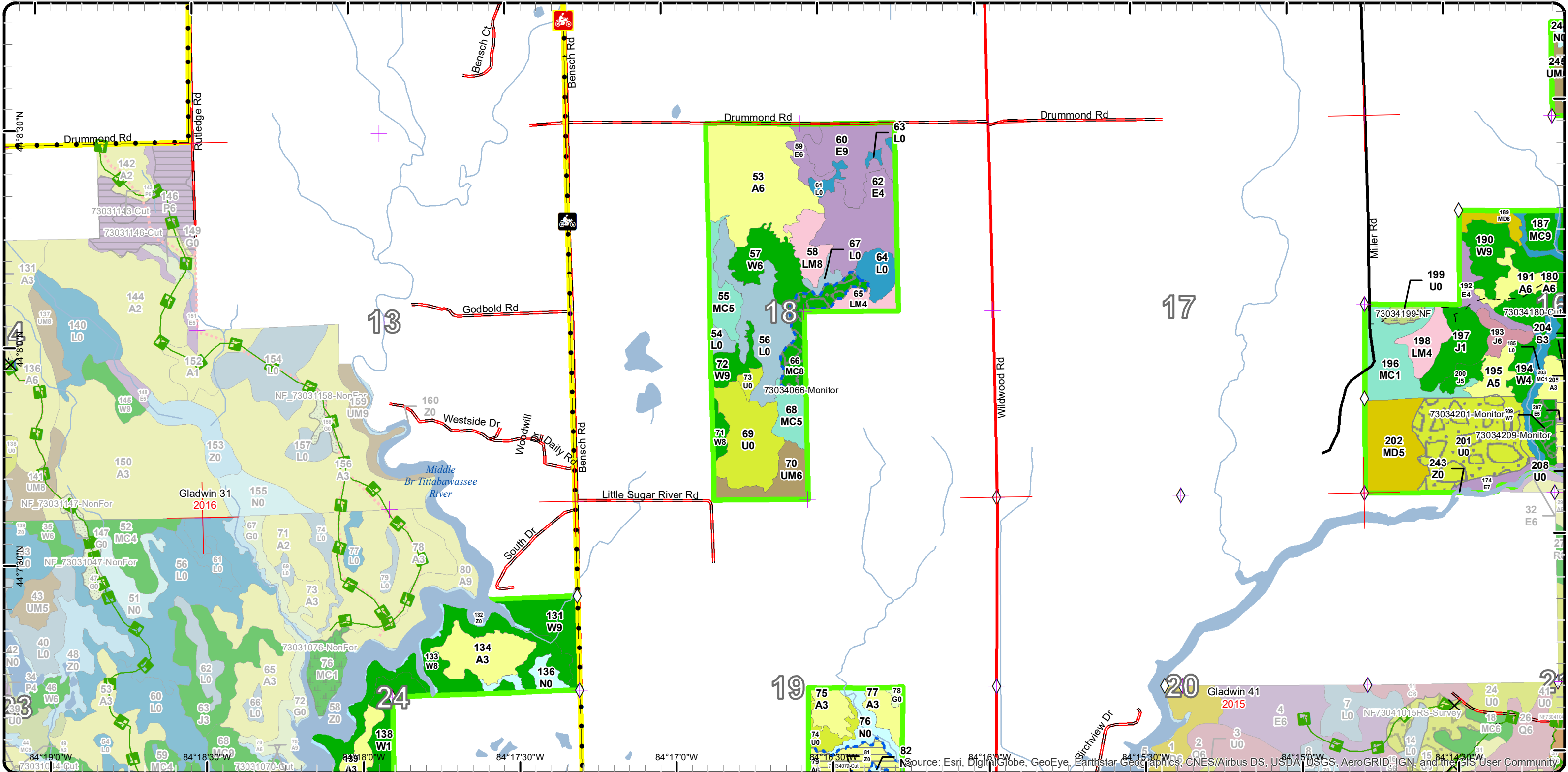


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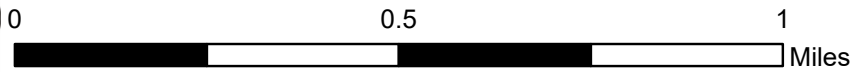
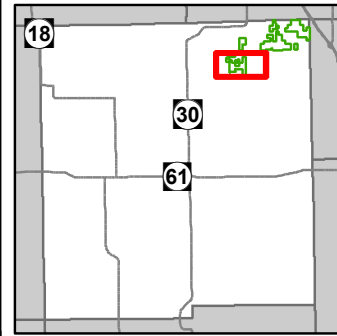
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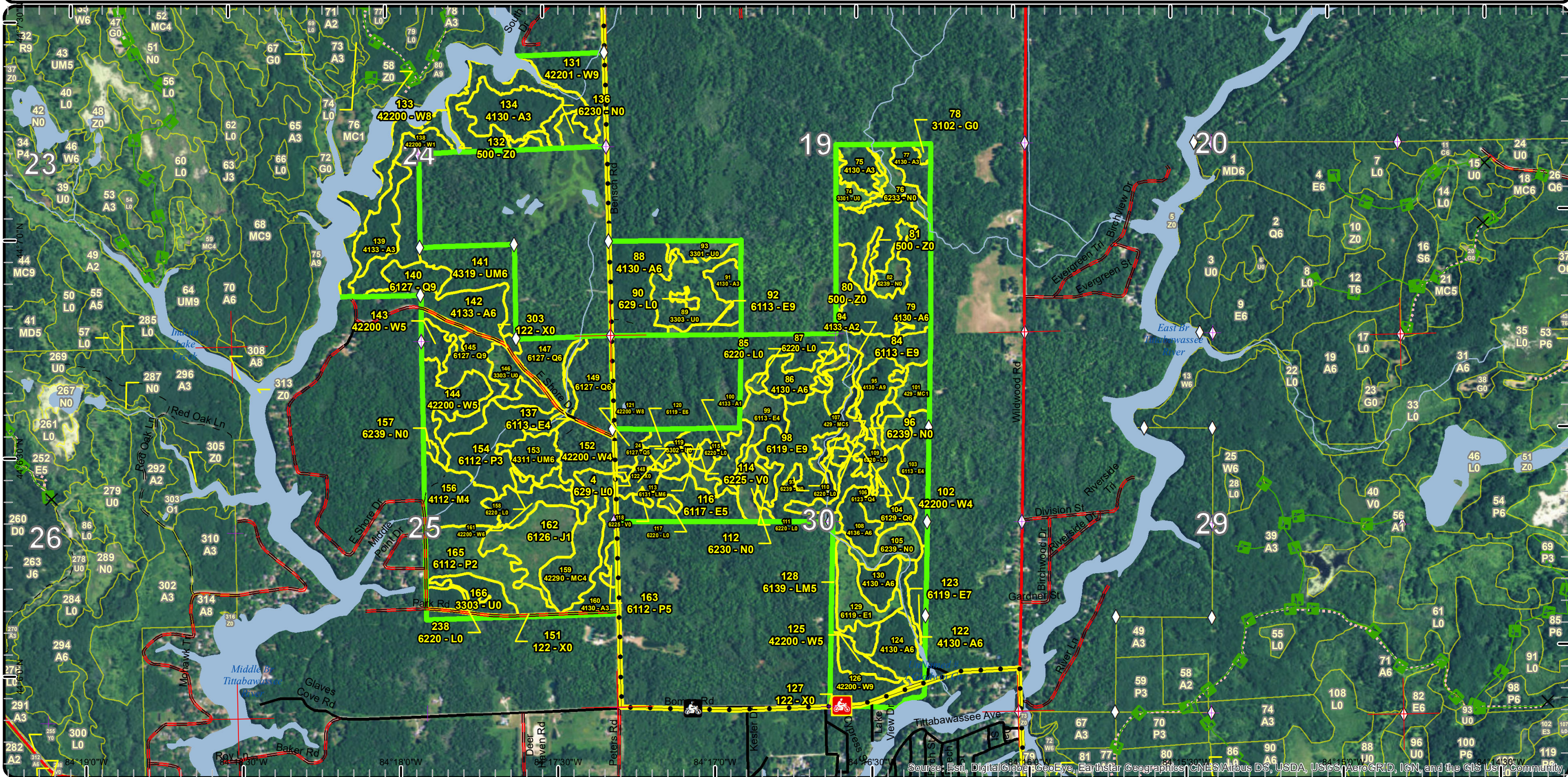


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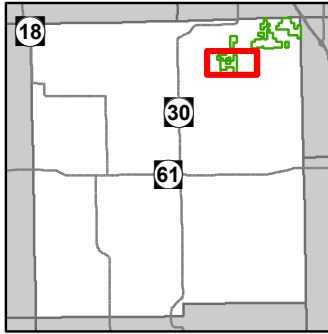
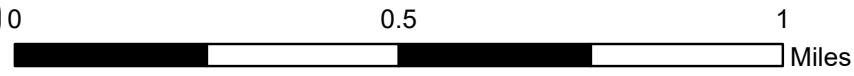


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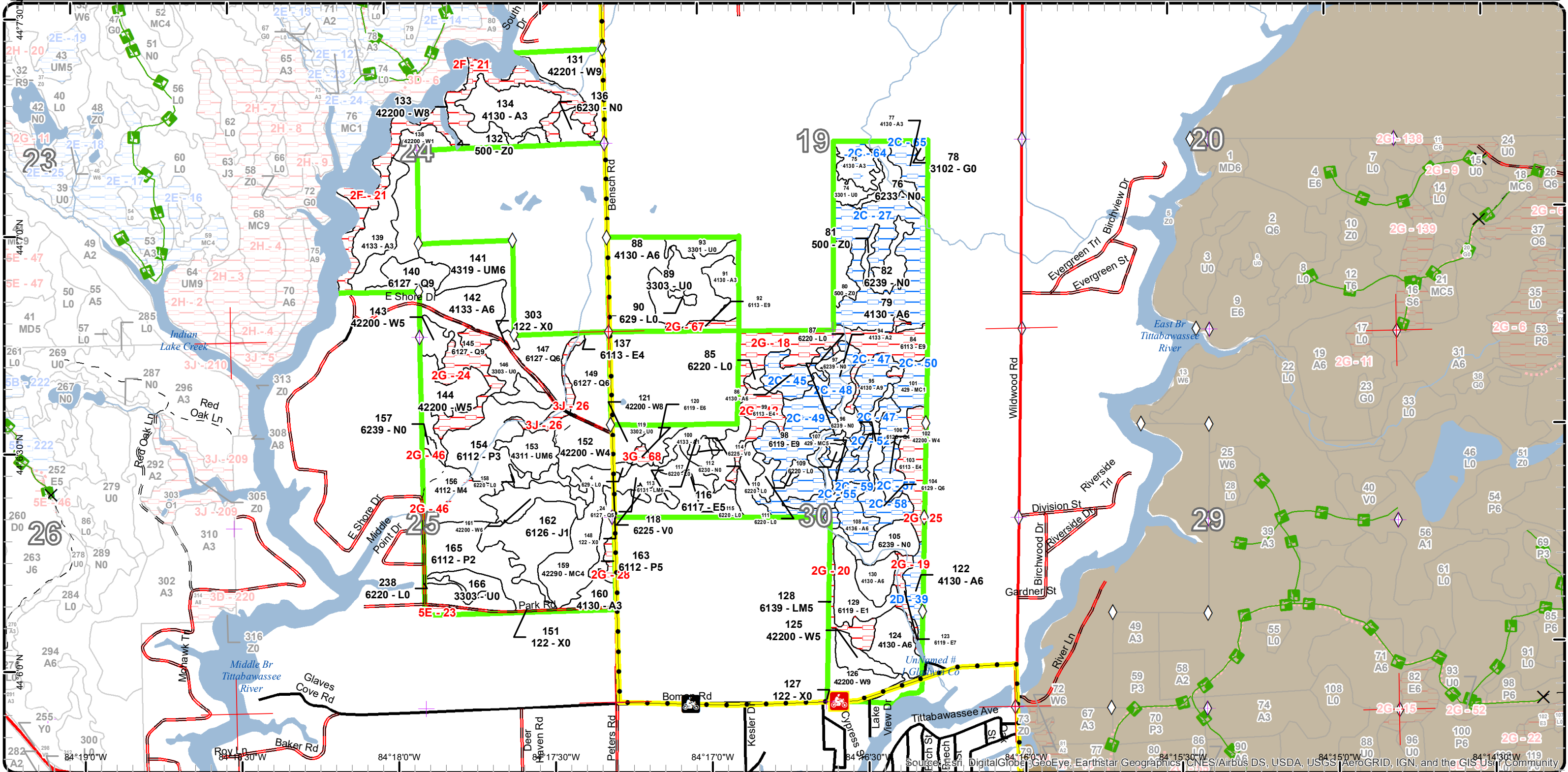


# Special Conservation Areas & Site Conditions Map

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 Acres: 3733.5 GIS Calculated  
 Examiner: Rick Myrick  
 Map Revised: 7/31/2017  
 Map Phase: Post-Review



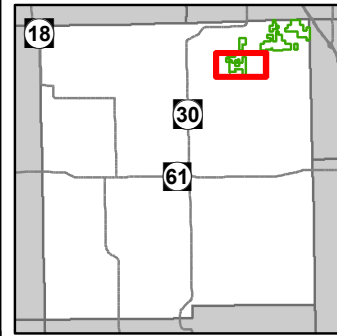
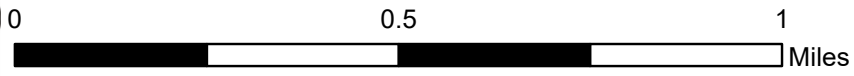
- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- X Gate
- 🏍️ Motorcycle Trails (SOS License)
- 🏍️ MCCCT Trails
- 👤 Designated Hunter Walking Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Dedicated Management Areas
- State Forest Campground



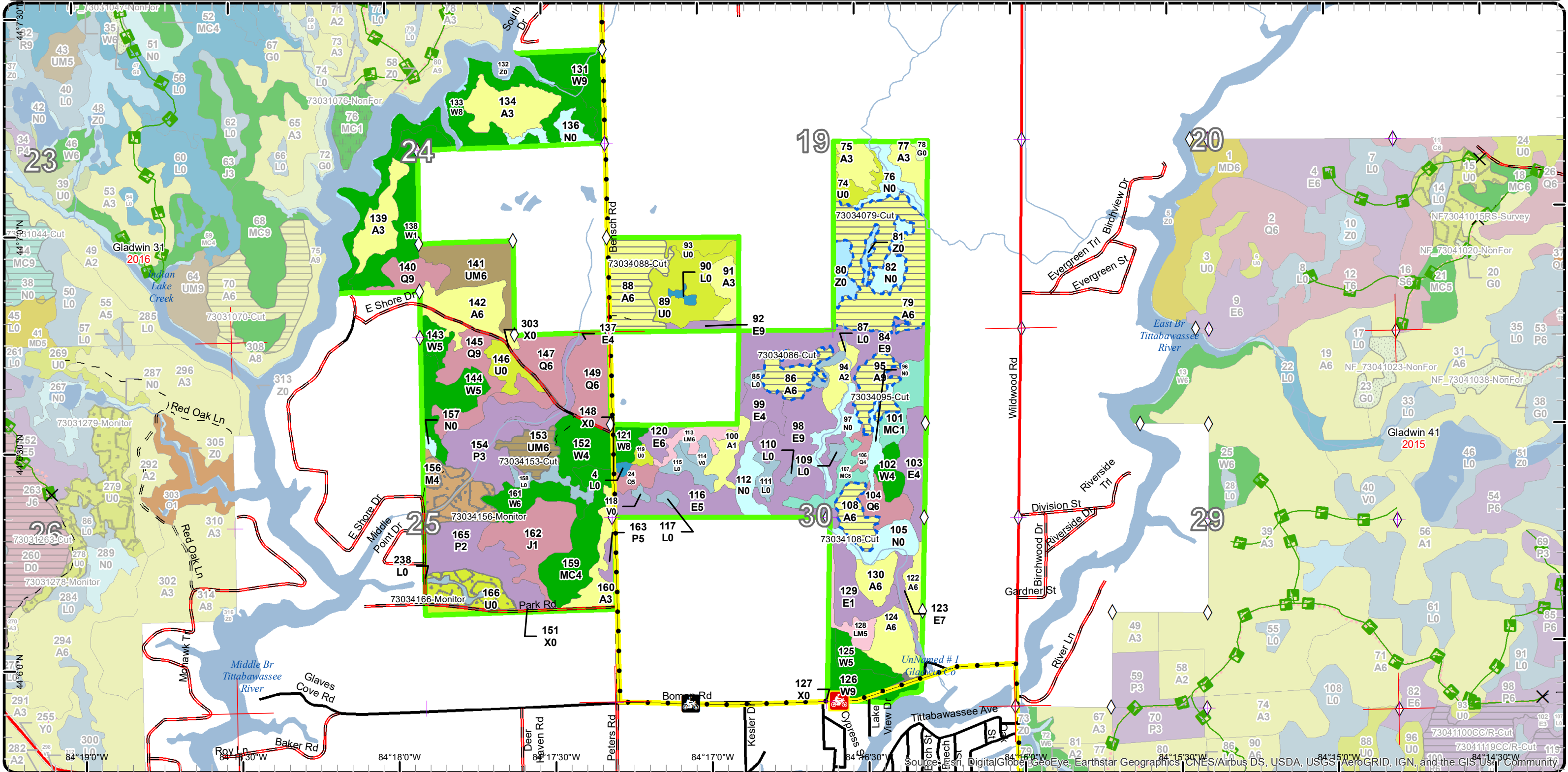


# Cover Type & Treatments Map

Compartment: 34  
 T20N-R01E Sec. 24,25  
 County: Gladwin  
 Unit: Gladwin  
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- Gravel Roads
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- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

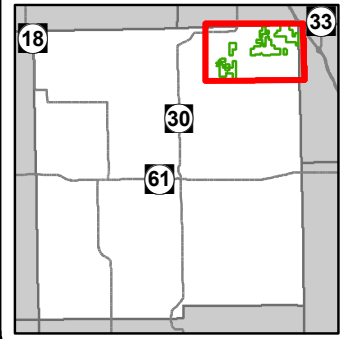


Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

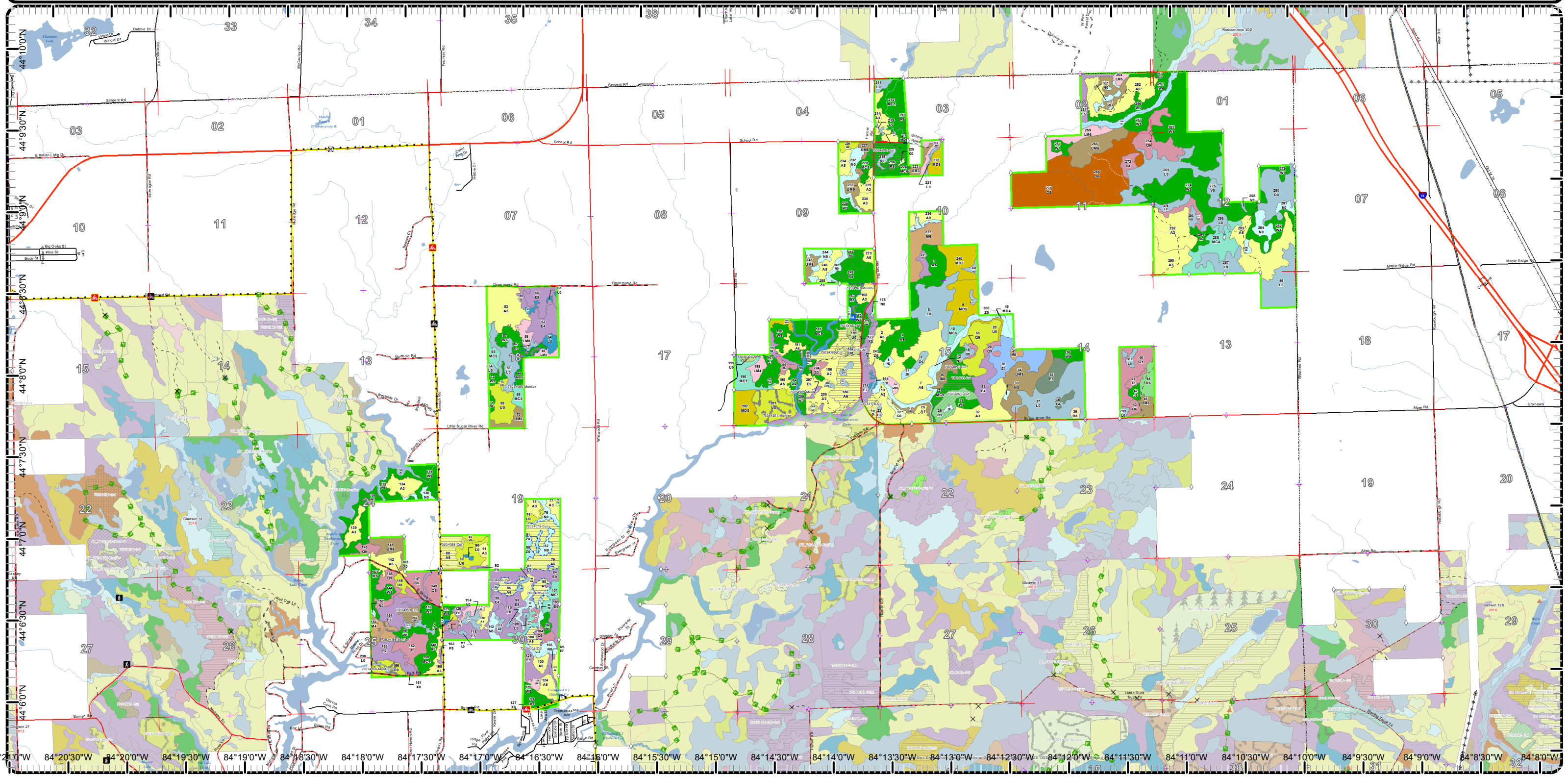


# Cover Type & Treatments Map

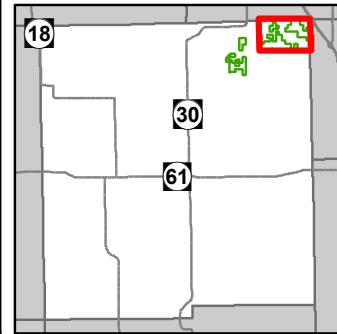
Compartment: 34  
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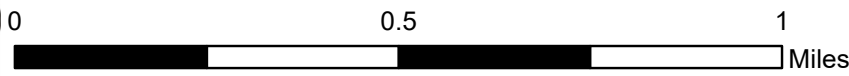
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- Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- ✕ Gate
- ▲ Berms
- Culvert
- Dams
- Motorcycle Trails (SOS License)
- MCCCT Trails
- Designated Hunter Walking Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Regeneration Survey
- Thinning (Crown, Low, Systematic)
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 621 - Floating Aquatic
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest



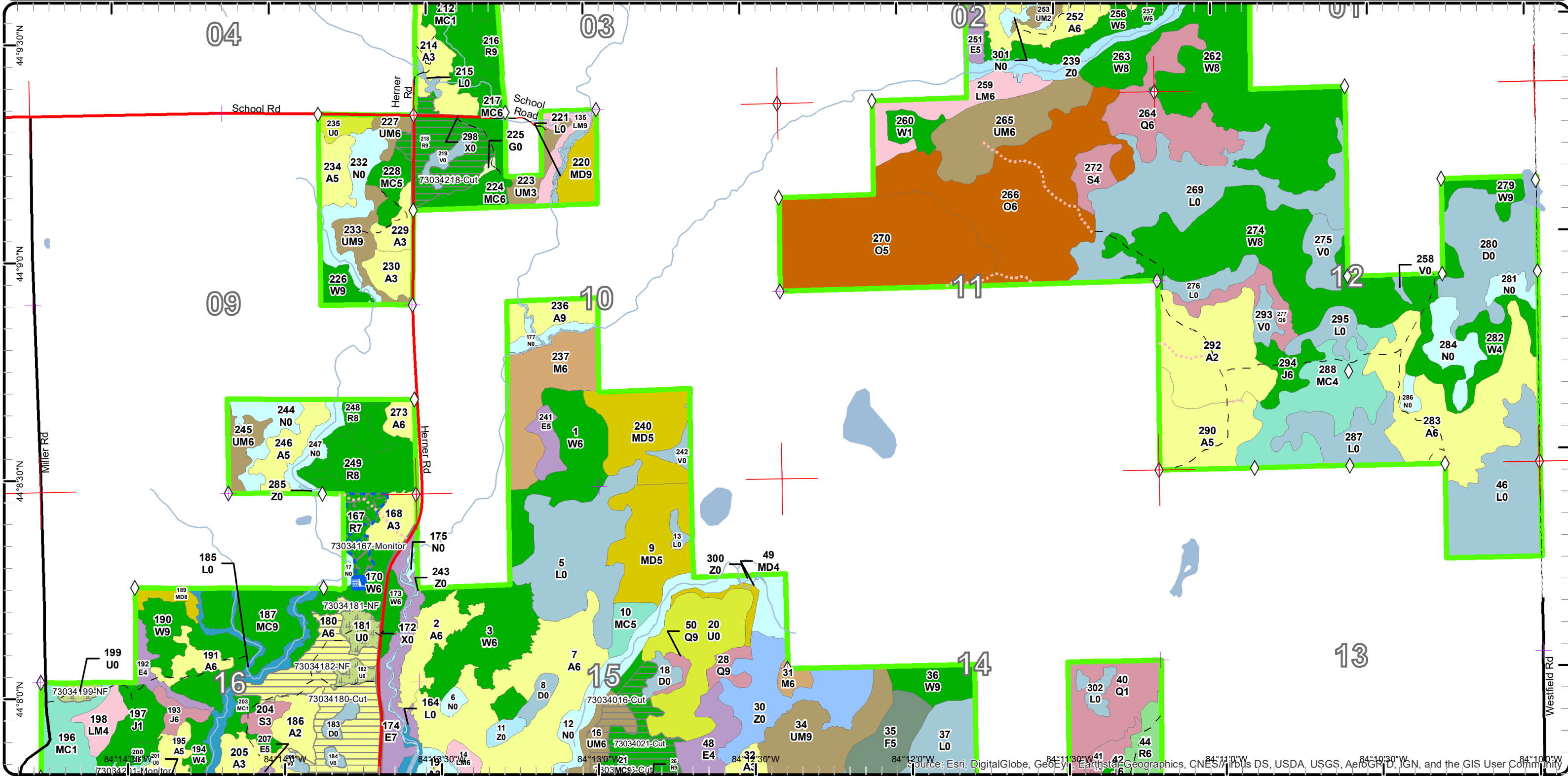
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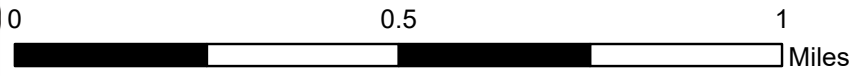
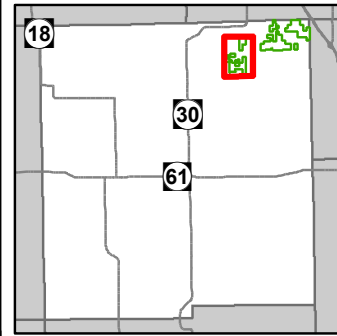
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|---|--|---|



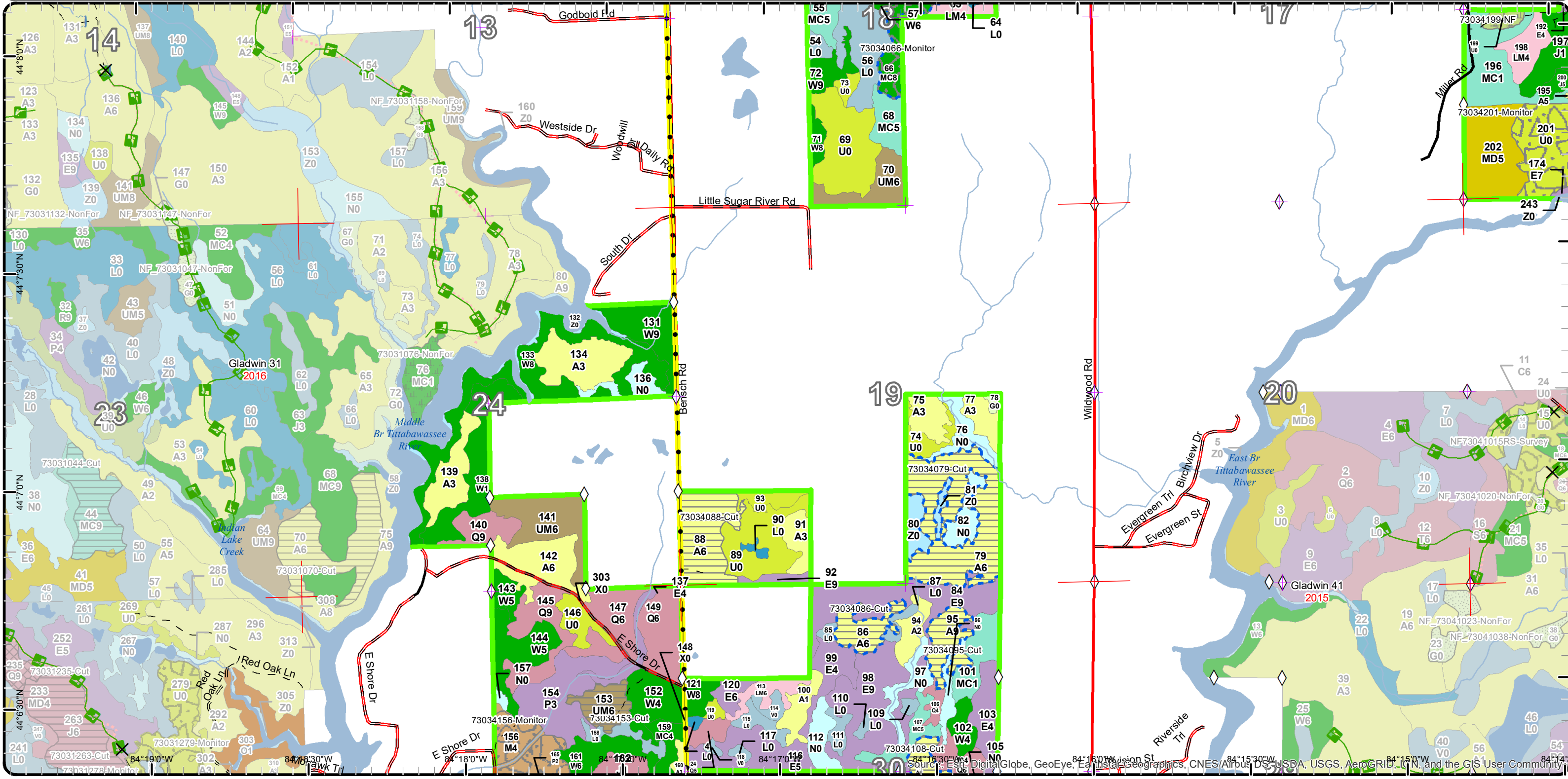


# Cover Type & Treatments Map

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 T20N-R01E Sec. 24,25  
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Compartment 34

Year of Entry 2019

Rick Myrick : Examiner



## 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	20	106	191	238	180	22	0	0	0	0	11	0	0	0	0	0	0	768
Bog	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	20	13	0	3	5	0	0	9	5	0	0	0	0	0	0	0	0	55
Low-Density Trees	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Lowland Aspen/Balsam Poplar	0	23	0	22	0	0	2	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Conifers	0	0	0	0	35	0	42	41	0	7	14	5	0	0	0	0	0	10	153
Lowland Deciduous	0	11	0	16	0	6	41	22	15	101	0	6	0	0	0	0	0	36	254
Lowland Mixed Forest	0	0	0	0	5	28	14	0	4	7	6	0	0	0	0	0	0	5	68
Lowland Shrub	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	372
Lowland Spruce/Fir	0	0	0	8	0	5	0	0	0	0	0	0	0	0	0	0	0	0	13
Marsh	162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162
Mixed Upland Deciduous	0	0	0	0	0	0	33	4	28	11	0	0	0	0	0	0	0	31	106
Natural Mixed Pines	0	0	0	54	26	0	0	29	28	13	0	0	0	0	0	0	0	0	150
Northern Hardwood	0	0	0	0	0	0	50	0	4	0	0	0	0	0	0	0	0	0	54
Oak	0	0	82	0	92	0	0	0	0	0	0	0	0	0	0	0	0	0	174
Paper Birch	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	0	19	13	0	55	16	0	0	0	0	0	0	0	103
Tamarack	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Treed Bog	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Upland Conifers	0	0	21	16	15	40	8	0	0	0	0	0	0	0	0	0	0	0	100
Upland Mixed Forest	0	0	7	14	4	53	50	0	63	0	0	0	0	0	0	0	0	0	191
Upland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Spruce/Fir	0	0	0	5	19	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Water	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95
White Pine	0	0	7	98	36	52	53	174	62	49	0	12	0	0	0	0	0	17	559
<b>Total</b>	<b>903</b>	<b>74</b>	<b>236</b>	<b>424</b>	<b>478</b>	<b>369</b>	<b>334</b>	<b>283</b>	<b>216</b>	<b>248</b>	<b>36</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>99</b>	<b>3729</b>



## Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 34

Total Compartment Acres: 3,733

Commercial Harvest - 167  
 Harvests with Site Condition - 66  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	151	0	0	0	0	0	0	0	0	151
Natural Mixed Pines	24	0	0	0	0	0	0	0	0	24
Red Pine	22	0	0	0	19	0	0	0	0	41
Upland Mixed Forest	16	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>214</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>233</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	233	0	0	0	0	87	0	13		332
Next Step	0	57	22	0	0	35	236	0	0	351
<b>Total</b>	<b>233</b>	<b>57</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>35</b>	<b>323</b>	<b>0</b>	<b>13</b>	<b>683</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
16	73034016-Cut	7.2	4311 - Pine, Aspen Mix	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	4311 - Pine, Aspen Mix	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			Cut all species 2" and greater. Retain three to five log sized white pine within the interior of the stand. Do not cut any species over 26" dbh. Do not cut any oak.								
<u>Specs:</u>											
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable</u>			A full to medium stocked stand of white pine and aspen with some mixed deciduous will be acceptable.								
<u>Regen:</u>											
<u>Other</u>			Leave a 100' vegetative/forested buffer strip along tributary of East Branch Tittabawassee River. The vegetative buffer will serve as the primary retention.								
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2018								
21	73034021-Cut	24.4	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	66	81-110	Harvest	Clearcut with Retention	42260 - Natural Pine, Mixed Deciduous	Two-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			Cut all species 2" and greater. Do not cut any species over 26" dbh. Leave all jack pine tops for cone seed source. Use dry/frozen spec. 100' buffer strip along tributary will serve as primary retention.								
<u>Specs:</u>											
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable</u>			A full to medium stocked stand of natural pine with mixed deciduous tree species will be acceptable.								
<u>Regen:</u>											
<u>Other</u>			Leave a 100 foot vegetative buffer strip along tributary of East Branch Tittabawassee River.								
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2018								
26	73034026-Cut	19.0	42110 - Planted Red Pine	Sawtimber Well	57	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			Take stand down to 120 BA. Thin from below; leaving best tree in place.								
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>			A red pine stand at 110 to 130 BA will be acceptable.								
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2018								
66	73034066-Monitor	11.8	42290 - Natural Mixed Pine	Sawtimber Medium	88	81-110	Monitoring	Natural Regen (Re-Inventory)	42290 - Natural Mixed Pine	Uneven-Aged	Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition: Shelterwood/Seed Source</b>								
<u>Prescription</u>			Monitor for regeneration at TCR plus four years.								
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>			mix of aspen, hardwoods and conifer.								
<u>Regen:</u>											
<u>Other</u>			Percent to Treat = 100%								
<u>Comment:</u>											
<u>Proposed Start Date:</u>			06/23/2016								





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
79	73034079-Cut	39.9	4130 - Aspen	Poletimber Well	44	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No Site Condition: Engineered Bridge Needed**

Prescription Cut all species 2" and greater. Paint out three to four small islands of representative species to meet retention guidelines.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A full to medium stocked stand of aspen with some mixed deciduous will be acceptable.

Regen:

Other Use drumming log spec.

Comment:

Proposed Start Date: 10/01/2018

86	73034086-Cut	8.8	4130 - Aspen	Poletimber Well	49	Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Engineered Bridge Needed**

Prescription Clear cut all species 2" and greater. Do not cut any conifer. Paint out two to three very small islands of aspen as retention. Dry/frozen spec. and drumming log spec.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A medium to fully stocked stand of aspen species along with some mixed deciduous and conifer will be acceptable.

Regen:

Other Protect and paint out vernal pond/wetland that almost bisects stand.

Comment: Wildlife Division is willing to habitat cut this stand if a bridge is not possible.

Proposed Start Date: 10/01/2018

88	73034088-Cut	21.5	4130 - Aspen	Poletimber Well	50	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Engineered Bridge Needed**

Prescription Cut all species 2" and greater. Do not cut any oak or white pine trees over 26" DBH. Dry/frozen spec. Grouse drumming log spec. Trail spec.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A medium to fully stocked stand of aspen with some mixed conifer and deciduous species will be acceptable.

Regen:

Other Protect and paint out the two to three vernal ponds that occur in the north of the stand. A culvert will be needed to access stand off Bensch Road. A Road Commission permit to install culvert will be needed. There is a berm across the ditch and at the south end of the stand that will need to be removed for access.

Proposed Start Date: 10/01/2018

95	73034095-Cut	9.6	4130 - Aspen	Sawtimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Engineered Bridge Needed**

Prescription Clear cut all species 2" and greater. Do not cut any conifer. Paint out two very small islands of aspen as retention. Dry/frozen spec. and drumming log spec.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A medium to fully stocked stand of aspen species with some mixed deciduous and conifer will be acceptable.

Regen:

Other Protect and paint out vernal pond/wetland in the north portion of the stand.

Comment: Wildlife Division is willing to habitat cut this stand if a bridge is not possible.

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
108	73034108-Cut	7.7	4136 - Aspen, Mixed Conifer	Poletimber Well	35	Unspec ified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition: Engineered Bridge Needed</b>									
<u>Prescription</u>		Cut all species 2" and greater. Paint out two to three small islands of representative species as retention.									
<u>Specs:</u>		Use drumming log spec.									
<u>Next Step</u>		Monitoring, Natural Regen (Intermediate)									
<u>Treatments:</u>											
<u>Acceptable</u>		A fully to medium stocked stand of aspen with mixed conifer will be acceptable.									
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/01/2018									
153	73034153-Cut	8.6	4311 - Pine, Aspen Mix	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4311 - Pine, Aspen Mix	Two-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u>		Cut all species 2" and greater. Do not cut any conifer or oak. May need dry/frozen spec. Use drumming log spec.									
<u>Specs:</u>											
<u>Next Step</u>		Monitoring, Natural Regen (Intermediate)									
<u>Treatments:</u>											
<u>Acceptable</u>		A mix of pine and aspen with some other deciduous hardwood will be acceptable.									
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/01/2018									
156	73034156- Monitor	14.7	4112 - Maple, Beech, Cherry Association	Poletimber Poor	52	1-50	Monitoring	Natural Regen (Re-Inventory)	4130 - Aspen	Even-Aged	Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u>		Monitor stand for regeneration by 2021, four years.									
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>		Aspen mixed with hardwoods									
<u>Regen:</u>											
<u>Other</u>		Percent to Treat = 100%									
<u>Comment:</u>											
<u>Proposed Start Date:</u>		02/01/2017									
165	73034166- Monitor	10.4	6112 - Lowland Aspen	Sapling Medium	9	Immatur e	Monitoring	Natural Regen (Re-Inventory)	6112 - Lowland Aspen	Even-Aged	Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u>		Monitor for regeneration within four years of TCR.									
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>		Aspen mixed with oak and maple.									
<u>Regen:</u>											
<u>Other</u>		Percent to Treat = 100%									
<u>Comment:</u>											
<u>Proposed Start Date:</u>		05/01/2017									



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
167	73034167-Monitor	8.6	42210 - Natural Red Pine	Sawtimber Poor	91	51-80	Monitoring	Natural Regen (Intermediate)	42200 - Natural White Pine	Two-Aged	Field Boundary

**Habitat Cut: No**      **Site Condition: Shelterwood/Seed Source**

Prescription Stand 167 Unit 4, was cut 8/20/2016.

Specs:

Next Step

Treatments:

Acceptable An understory mix of white pine and red pine will be acceptable.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 08/20/2020

178	73034178-Cut	7.2	4130 - Aspen	Poletimber Poor	48	Unspecified	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Clear cut all species 2" and greater including autumn olive. No retention.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A fully stocked stand of aspen with some mixed conifer will be acceptable.

Regen:

Other Winter harvest only.

Comment:

Proposed Start Date: 10/01/2018

180	73034180-Cut	56.7	4130 - Aspen	Poletimber Well	48	Unspecified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Cut all species two inches and greater. Leave three or four small retention islands of representative species within the stand without any autumn olive in the understory (if possible). Do not cut any species over 26 inches DBH. Use Stand 182 as a landing location.

Specs:

Next Step ; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A full to medium stocked stand of aspen with some conifer and other deciduous species will be acceptable.

Regen:

Other The stand's understory is being invaded by autumn olive.

Comment:

Proposed Start Date: 10/01/2018

181	73034181-NF	6.0	3202 - Autumn Olive/Honeysuckle	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3302 - Low Density Conifer Trees		Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Roller chop and herbicide treat autumn olive.

Specs:

Next Step SitePrep, Roller Chopping; Pesticide, Skidder/Mechanical

Treatments:

Acceptable A low density stand of white pine with any possible regeneration of aspen or mixed deciduous species will be acceptable.

Regen:

Other Eliminate autumn olive by roller chopping, and herbicide treatment.

Comment:

Proposed Start Date: 10/01/2018



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
182 73034182-NF	3.8	3202 - Autumn Olive/Honeysuckle	Nonstocked		Unspecified	NonForestMgt	Other - Specify	330 - Low-Density Trees		Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Roller chop and herbicide treat autumn olive.										
<u>Specs:</u>										
<u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder/Mechanical										
<u>Treatments:</u>										
<u>Acceptable</u> A low density stand of white pine and any possible regeneration of aspen and mixed deciduous species will be acceptable.										
<u>Regen:</u>										
<u>Other</u> Use this stand as a landing location for the cut in Stand 180.										
<u>Comment:</u> Eliminate autumn olive by roller chopping and herbicide treatment.										
<u>Proposed Start Date:</u> 10/01/2018										
199 73034199-NF	3.0	3202 - Autumn Olive/Honeysuckle	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3302 - Low Density Conifer Trees		Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Roller chop and herbicide treat autumn olive.										
<u>Specs:</u>										
<u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Hand Application										
<u>Treatments:</u>										
<u>Acceptable</u> A low density stand of mixed conifers with some deciduous will be acceptable.										
<u>Regen:</u>										
<u>Other</u> Eliminate autumn olive by roller chopping and herbicide treatment.										
<u>Comment:</u> Allow natural regeneration of mixed conifers.										
<u>Proposed Start Date:</u> 10/01/2018										
201 73034201-Monitor	37.3	3303 - Mixed Low Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4199 - Other Mixed Upland Deciduous	Two-Aged	Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Monitor for regeneration within four years from 08/20/2016.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> A mix of upland deciduous and white pine will be acceptable.										
<u>Regen:</u>										
<u>Other</u> Percent to Treat = 100%										
<u>Comment:</u>										
<u>Proposed Start Date:</u> 08/20/2020										
209 73034209-Monitor	3.8	42200 - Natural White Pine	Sawtimber Poor	72	1-50	Monitoring	Natural Regen (Intermediate)	4133 - Aspen, Mixed Pine	Even-Aged	Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Monitor stand for regeneration with four years from 08/20/2016.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> An aspen stand with mixed pine and some red maple will be acceptable.										
<u>Regen:</u>										
<u>Other</u> Percent to Treat = 100%										
<u>Comment:</u>										
<u>Proposed Start Date:</u> 08/20/2020										



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
218	73034218-Cut	22.3	42210 - Natural Red Pine	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all species 2" and greater. Do not cut any trees over 26" dbh. Leave two to three small retention islands along the edge of Stand 219 (V0 type).  
Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Interplant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder/Mechanical;  
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: A fully stocked planted red pine stand with some oak, white pine, and other hardwood species will be acceptable regeneration.

Other After harvest:

Comment: Roller chop then trench and interplant to red pine.

After first year, monitor red pine regeneration and apply herbicide if necessary to suppress competition and release pine.

Proposed Start Date: 10/01/2018

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**Total Treatment Acreage Proposed: 332.3**



## Report 4 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
768	384	193	190

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions											
					2B	2C	2D	5B	5C	2A	2F	2G	2H	3G	3J	5E
768	384	193	190	Aspen		188	6			132	0	46	12			
30	30	0	0	Bog					0							
7	7	0	0	Herbaceous Openland												
55	41	0	14	Jack Pine					9		5					
156	98	0	58	Low-Density Trees							29			1		28
47	45	0	2	Lowland Aspen/Balsam Poplar							2				0	
154	114	9	31	Lowland Conifers		9			10		19				0	2
256	36	29	190	Lowland Deciduous		29				2	182				4	2
69	34	4	31	Lowland Mixed Forest		4				7	24					
372	346	17	9	Lowland Shrub	17	0			1	0	8					
13	8	0	5	Lowland Spruce/Fir							5					
162	161	0	0	Marsh		0			0	0	0	0				
106	28	73	5	Mixed Upland Deciduous		73				2						3
149	110	35	4	Natural Mixed Pines	22			13							4	
54	15	33	5	Northern Hardwood		33					2	4				
174	174	0	0	Oak												
3	3	0	0	Paper Birch												
105	56	49	0	Red Pine			5	34	11							
5	5	0	0	Tamarack												
52	48	0	4	Treed Bog					0	4						0
101	37	23	41	Upland Conifers		23			40							1
190	170	0	20	Upland Mixed Forest						0	0				8	11
14	14	0	0	Upland Shrub												
24	0	0	24	Upland Spruce/Fir								24				
15	12	0	3	Urban							0				3	0
95	91	4	0	Water		4				0	0					
559	317	88	153	White Pine		76		12	113	30	0	7			0	4
3,735	2,384	558	792	Total Forested Acres	38	441	10	58	11	306	46	320	47	1	21	51
	64%	15%	21%	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.*

## Report 4 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is at rotation age for aspen though access to the stand is restricted. To access the stand would require crossing a creek that is located in a valley. This would require a DEQ permit. If accessed the stand should be harvested as a clearcut with reserves. The reserves should be around the lowland pocket on the east side of the stand. The stand is expected to regenerated as a mix aspen, red maple, oak type. If not interplant with jack pine.							
3	Available	<b>2D: Portable Bridge Needed (Dept. bridge will be adequate)</b>	5	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified
<b>Comments:</b> Road and portable bridge will be needed. Very steep banks along creek. Delay treatment. Hold for ten years then treat with Stand 212.							
4	Available	<b>5B: Maintain for regeneration purposes</b>	22	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand had a second entry thinning in 2012. Hold and reevaluate in ten years.							
5	Unavailable	<b>2F: Too steep</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
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6	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	143	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2A: Adjacent landowner denied access	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	1	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
16	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	28	2I: Survey needed	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified
<b>Comments:</b> There is a small creek and broad based bottomland that would need to be crossed if accessed through State only. This would require a DEQ permit as well. A survey appears to be needed along the west and north boundaries next to private.							
19	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>2F: Too steep</b>	30	3D: Recreational / Scenic values	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is the retention that was left from the Spring 2017 aspen harvest of the rest of Stand 166 across the street to the north. Tire Swing Mix sale.							

## Report 4 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

24	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	5C: Delay treatment for age/size class diversity or exceptional site quality	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Numerous vernal ponds. Very wet. Numerous areas with flowing drainages. Some of the pine has old growth characteristics.							
25	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	40	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand would have to be accessed through private or an engineered bridge will be needed to come from the south through State. The narrow creek and bottomland crossing would require a DEQ permit to install a bridge, as well.							
28	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	33	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Available	2B: Unknown if access through adjacent landowner(s) is possible	16	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2E: Road needed	Unspecified	Unspecified
<b>Comments:</b> Surrounded by drainages with steep, relatively high banks on all sides. Possible in future to cross from road in stand to west in future but would need portable bridge: size of this stand does not warrant bridge .							
32	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2E: Road needed	Unspecified	Unspecified
<b>Comments:</b> Surrounded on 3 sides by impassable marsh drainage. Private land to North may be similarly blocked.							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Portion of J type excluded from stand adjacent stand 113 because too wet, and jack pine has very poor form. Also very small stand.							



**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
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Year of Entry: 2019

34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	Unavailable	2F: Too steep	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	2F: Too steep	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

39	<b>Available</b>	<b>2D: Portable Bridge Needed (Dept. bridge will be adequate)</b>	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is separated from the west by a very steep narrow draw with flowing water, a large N type and a very wet E type at the north end, with narrow questionable access, if at all.							
40	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	<b>Unavailable</b>	<b>2F: Too steep</b>	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

44	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	9	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is surrounded by wet open water areas and very wet lowland hardwood stands on three sides. If access was attempted through State land, an engineered bridge which must span a creek and broad bottomland would be needed. Bottleneck in Stand 105 would be best place to cross. The creek has defined bed and bank at the best potential crossing area, so a DEQ permit will be needed. Private access would have to come from the south which poses its own difficulties of wetland and E types.							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
47	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	10	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access, if through State, would have to be laid out specifically to negotiate the numerous open water areas and wetlands. An engineered bridge would also be necessary to cross a creek and broad bottomland if accessed via State. A DEQ permit will be required. Access through private from the east may prove impossible as well since the land in that area is wet.							

**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

48	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.</p>							
49	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	29	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.</p>							
50	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	10	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.</p>							
51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
52	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	3	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.</p>							

**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

53	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
54	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
55	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	7	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.							
56	Unavailable	2A: Adjacent landowner denied access	298	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
57	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.							

**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

58	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	7	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.							
59	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	8	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.							
60	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
61	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	2B: Unknown if access through adjacent landowner(s) is possible	2E: Road needed	Unspecified	Unspecified
<b>Comments:</b>							
62	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
63	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

64	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	3	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.							
65	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand would require an engineered bridge to cross creek and broad bottomland from the south via State. A DEQ permit would be required.							
66	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
67	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
68	Unavailable	3G: Other Influence zones - See comments	1	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is an old dump that has been filled over with loads of soil left in mounds. There is garbage sticking out of the ground.							

**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment: 34  
Year of Entry: 2019

69	Available	5B: Maintain for regeneration purposes	12	5C: Delay treatment for age/size class diversity or exceptional site quality	2B: Unknown if access through adjacent landowner(s) is possible	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	Unspecified
<p><b>Comments:</b> Shelterwood cut '03 Rep's Access sale #16-'01. 150 BA of aspen, maple oak removed. Previous data indicates light to moderate aspen sprouting and good White Pine seedling regen about 9" tall. Flood plain of La Porte Creek is approximately 80 yards wide. The creek is approximately 3 to 5 feet deep and 5 to 15 feet wide. The creek has a define bed and bank. There would be no solid ground to place a bridge across the flood plain. A DEQ permit would be required. The only other access would be through private. Hold for 10 years for species regeneration and diversity, then reevaluate.</p>							
71	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Previous notes indicate that this stand was initially thinned in '05 or '06. It was not included in the second entry thinning of its neighboring stand to the east in '12. Hold stand and reevaluate in 10 years and/or when the neighboring and dominant red pine stand to this stand's immediate east is ready for final treatment. Then treat stand as appropriate along with dominant stand.</p>							
72	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> 100 foot vegetative buffer strip along tributary of East Branch Tittabawassee River.</p>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42200 - Natural White Pine	Poletimber Well	32.1	48	51-80	Stand is a white pine stand that has seedlings to sawlogs. There are some hardwoods in the stand and they are mainly maple and black oak. Along the west and north edges of the stand there is a some quaking aspen
2	4133 - Aspen, Mixed Pine	Poletimber Well	15.6	27	Unspecified	The stand has a number of long wet draws in it and some vernal ponds. Most of the stand is aspen regen with white pine saps with some overstory white pine sawlogs that are approximately 71 years old.
3	42200 - Natural White Pine	Poletimber Well	39.3	27	81-110	The stand is primarily pole size with an overstory of log sized white pine. The aspen in the stand is not uniformly distributed, but in pockets. There are small inclusion of low wet ground in the stand.
7	4133 - Aspen, Mixed Pine	Poletimber Well	77.6	33	141-170	The stand is mainly an aspen and white pine regeneration stand, with a white pine overstory. The younger white pine that is in the open is being weeviled. The denser white pine regen is not being weeviled at the current time.
9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	33.2	54	51-80	The stand is a matrix of white pine, aspen, pin and black/red hybrid oak. There are larger openings in the stand that are mainly grass and sweet fern. The white pine in the stand is heavily weeviled. The ground cover is blueberry and bracken fern with areas of sweet fern and raindeer moss.
10	429 - Mixed Upland Conifers	Poletimber Medium	6.4	27	1-50	The stand is a small cut that has regenerated to a mix of conifer and aspen. The white pine in the stand is being heavily weeviled unless it is in an understory position. The north 1/2 of the stand has more jack pine and the east and west edges have more white pine. The aspen in the stand is scattered throughout in small clones. The ground cover is mainly poverty grass, sweet fern and bracken fern.
14	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	4.4	71	51-80	The stand is upland on the edges and lowland in the middle as water drains into the stand from the pond to the northeast.
16	4311 - Pine, Aspen Mix	Poletimber Well	10.8	50	51-80	Aspen has poor form and shelf fungus starting. Low quality in places.
19	4130 - Aspen	Sapling Well	14.6	17	Unspecified	The understory of this stand is being invaded by autumn olive. The center and the southern end are heavy to trembling aspen and the north end is heavier to bigtooth aspen.
21	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	28.8	66	81-110	This stand is a mixed pine/hardwood stand. The hardwood is mainly aspen but there is some red maple. Jack pine is in highest concentration in the south and red pine in the north. White pine and aspen are throughout .
24	6127 - Lowland Pine	Poletimber Medium	3.8	55	51-80	
25	4131 - Aspen, Oak	Sapling Poor	11.5	4	Immature	Stand was harvested in 2012. A minor overstory of white pine and red/black hybrid oak was left as retention.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42110 - Planted Red Pine	Sawtimber Well	19.0	57	141-170	Stand was thinned Summer 2004; Alger Red Pine.
28	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.8	66	81-110	This stand is a small inclusion lowland conifer with some mixed deciduous. The stand is wet and has blueberry and leatherleaf in the ground cover.
29	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	6.8	27	51-80	This stand is an area that was harvested leaving the pine. This concentration is hindering the aspen regeneration.
31	4119 - Mixed Northern Hardwoods	Poletimber Well	3.6	71	1-50	Stand is an upland knoll surrounded by a very wet lowland brush type.
32	4130 - Aspen	Sapling Well	36.6	17	Unspecified	There are area within the stand that are low and wet but it makes up small acreage. There is also areas on knoll that are only medium stocked oak regen mix with pine. The center of the stand is where most of the wet is and the northern lobe has the highest concentration of balsam fir.
34	4319 - Mixed Upland Forest	Sawtimber Well	47.4	76	81-110	The stand has a drainage through it that is narrow and wet but most of the stand is upland. There is a lot of white pine regeneration in the stand that is mixed with some red maple.
35	42330 - Upland Fir	Poletimber Medium	19.4	38	Unspecified	The stand is comprised of white pine, balsam fir, and black spruce poles and saps. There are a couple of aspen clones within the stand. There are large areas that are open with the thick area of trees along the edges or in groups. The white pine in the stand is being heavily weeviled there are some sawlog diameter white pine trees that are only 20-40 feet tall with diameters of 12-14".
36	42200 - Natural White Pine	Sawtimber Well	12.4	76	81-110	The white pine in the open is being heavily weeviled. Some low vigor aspen present as well. The ground cover is a mix of bracken fern, raindeer moss, blueberry and poverty grass.
38	42320 - Upland Spruce	Poletimber Poor	4.8	27	Unspecified	Stand was habitat cut and has not regenerated to aspen. It is filling in with spruce and fir. The stand is mainly 2 knolls in a lowland brush type. The northern knoll is barely forested and could be called a grass type the southern knoll is stocked more.
39	4140 - Other Upland Deciduous	Sawtimber Medium	3.2	72	Unspecified	Very small stand with low vigor and high mortality.
40	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	32.5	33	Unspecified	The stand is fairly sparse and is filling in with tamarack and white pine. The stand is a mix of lowland and up land with the majority of the stand being lowland. There are pockets of tag alder in the stand and some active springs. The stand is more dense along the western boundary.
41	6121 - Tamarack	Sapling Well	5.0	33	Unspecified	Stand is hummocky with ground cover ranging from bracken fern and blueberry to marsh grass and leatherleaf
42	42220 - Natural Jack Pine	Poletimber Well	4.7	49	Unspecified	The terrain is hummocky with the ground cover being mostly blueberry, bracken fern, and wintergreen. The stand is mostly poles.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	5.3	105	Unspecified	True swamp.
44	42110 - Planted Red Pine	Poletimber Well	12.8	60	141-170	Stand thinned in 2012, Island Mix sale.
45	4310 - Pine, Oak Mix	Poletimber Well	10.8	71	51-80	The stand has higher concentration of white pine in the north going to oak in the south. Much of the stand is a pole stand with some sawlogs.
47	4310 - Pine, Oak Mix	Poletimber Well	5.0	79	81-110	Very narrow stand. Steep banks along north side. Traditional hunting camp sites along the north edge. Serves as a vegetative buffer to the Tittabawassee River.
48	6118 - Lowland Deciduous with Cedar	Poletimber Poor	22.3	66	51-80	True swamp. Total ash mortality due to EAB. Very wet.
49	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	3.5	68	1-50	This stand serves as a vegetative buffer strip to the N type to the north.
50	6127 - Lowland Pine	Sawtimber Well	2.1	66	81-110	
53	4133 - Aspen, Mixed Pine	Poletimber Well	45.1	35	81-110	Very hummocky ground. Undulating upland and lowland.
55	429 - Mixed Upland Conifers	Poletimber Medium	8.8	35	1-50	
57	42200 - Natural White Pine	Poletimber Well	14.7	47	51-80	
58	6130 - Fir, Aspen, Maple	Sawtimber Medium	8.7	47	51-80	Scattered large decadent and dead aspen.
59	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	5.5	86	51-80	EAB in ash. Heavy ash mortality.
60	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	20.0	86	81-110	Lowland. Very wet.
62	6113 - Lowland Maple	Poletimber Poor	24.6	86	Unspecified	Ash mortality from EAB.
65	6130 - Fir, Aspen, Maple	Poletimber Poor	5.2	35	51-80	EAB mortality. Much standing dead ash. Very wet.
66	42290 - Natural Mixed Pine	Sawtimber Medium	12.7	88	81-110	Selection harvest of stand, Fall 2015, retaining about 90 BA mix of conifer and hardwoods. Tire Swing Mix 73-008-14-01.
68	429 - Mixed Upland Conifers	Poletimber Medium	7.6	50	51-80	White pine has poor form and has been weeviled.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	4319 - Mixed Upland Forest	Poletimber Well	11.5	50	51-80	White pine has poor form, multiple stems and has been affected by weevil.
71	42200 - Natural White Pine	Sawtimber Medium	3.2	50	1-50	White has poor form, multiple stems and has been impacted by weevil.
72	42200 - Natural White Pine	Sawtimber Well	6.2	50	1-50	White pine has poor form, multiple stems and has been affected by weevil.
75	4130 - Aspen	Sapling Well	6.9	30	Immature	Big tooth aspen poles and saps.
77	4130 - Aspen	Sapling Well	5.8	30	Immature	Predominately pole and sap sized big tooth aspen with red maple poles
79	4130 - Aspen	Poletimber Well	39.9	44	Unspecified	Predominately mixed aspen pole/sap/log, with a minor component of red maple and paper birch pole/sap. Stand surrounded by private on three sides with very wet lowland hardwood stand south. Numerous broad drainages flowing through and across the north boundary of the stand.
84	6113 - Lowland Maple	Sawtimber Well	27.7	85	111-140	Aspen very decadent, falling down, and probably would not regenerate well. The stand is very hummocky; windthrow a concern. There are a number of very wide drainages in the stand.
86	4130 - Aspen	Poletimber Well	8.8	49	Unspecified	The overall aspen size within this stand is somewhat small for its age. The stand is bisected by a low swale with standing dead ash. The stand is surrounded on two sides by very wet lowland hardwood stands and the only access is either through private or crossing a creek and broad bottomland with an engineered bridge.
88	4130 - Aspen	Poletimber Well	21.5	50	Unspecified	Few small bogs, vernal ponds, and lowland areas but mostly moderate sized hummocks and operable. Approximately 3.5 ac at S end is larger timber including white pine that was left when stand was harvested. Scattered mature oak supercanopy. The Balsam fir is thickest along Bensch Road.
91	4130 - Aspen	Sapling Well	6.4	28	Unspecified	
92	6113 - Lowland Maple	Sawtimber Well	3.1	81	Unspecified	Appears to have been excluded from harvest to north in 1989 as too wet.
94	4133 - Aspen, Mixed Pine	Sapling Medium	5.8	26	Immature	Stand bisected by drainage. Some minor beaver damage to saplings. This aspen stand has moderately good regen.
95	4130 - Aspen	Sawtimber Well	9.6	49	81-110	Stand will be over 50 years old by its YOE. Good healthy vigorous aspen.
98	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	29.2	56	51-80	Stand is lowland with upland ridges. Upland comprises approximately 35 % of the stand. Found a good DNR corner post at the southeast corner of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	6113 - Lowland Maple	Poletimber Poor	8.7	85	Unspecified	Stand was formerly 95% ash. Stand as succumb to 100% ash mortality due to EAB. Remaining standing is barely forested red maple. Very low and wet with standing water.
100	4133 - Aspen, Mixed Pine	Sapling Poor	6.4	27	Immature	
101	429 - Mixed Upland Conifers	Sapling Poor	10.0	26	1-50	This stand has a number of grass openings. Overall it is barely 25% forested. White pine has been infested with weevil and has multiple leaders and is stunted. The balsam fir is growing well and healthy. The is a small emergent wetland with open water in generally center of the stand.
102	42200 - Natural White Pine	Poletimber Poor	4.8	26	1-50	This stand is an aspen final harvest that did not regenerate to aspen. It is now dominated by upland conifers. Much of the white pine has been stunted by weevil infestation. The dense areas of the stand do provide good thermo-cover for deer and other wildlife.
103	6113 - Lowland Maple	Poletimber Poor	11.4	81	1-50	This is a former lowland deciduous stand that was previously dominated by ash species. There appears to be about 100% mortality due to EAB. The remaining dominant specie is now red maple. There is a dense subcanopy of balsam fir and white pine beginning to succeed the stand. The stand is very wet.
104	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.5	81	51-80	This is a unique stand of almost exclusively hemlock. There is not a true subcanopy within the dense hemlock cover. The subcanopy is generally is located along a narrow wet draw that bisects the eastern portion of the stand, and the along perimeter of the southern boundary of the stand. There are a few veteran white pine in the overstory.
106	6123 - Lowland Fir	Poletimber Poor	2.6	35	1-50	This stand is becoming dominated by balsam fir. The white pine has been infested with weevil and has poor form.
107	429 - Mixed Upland Conifers	Poletimber Medium	6.6	35	51-80	The stand has a very dense cover of conifer in a few places. The white pine has been infested with weevil and is stunted with multiple leaders. The ground is very hummocky.
108	4136 - Aspen, Mixed Conifer	Poletimber Well	7.7	35	Unspecified	This aspen stand has a small emergent wetland in the north. The stand looks healthy overall.
113	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	6.0	55	81-110	This stand has upland ridges and knolls with large pockets of lowland with tag alder. Red pine is primarily located in small homogenous sub-stands in the southeast portion of the main stand.
116	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	16.4	27	Immature	
120	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	4.0	55	Unspecified	Stand and timber small: not managerially desirable. No real size for being 55 years old. Aspen is not high quality. Very low and wet in portions of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
121	42200 - Natural White Pine	Sawtimber Medium	4.5	40	51-80	Appears to be a small remnant of a partial harvest from 1997. Mostly variable aged white pine white pine, however the dominant size class is just into logs.
122	4130 - Aspen	Poletimber Well	5.5	35	Unspecified	
123	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	3.7	56	1-50	This is a steep draw with flowing water. All of the ash has died out due to EAB.
124	4130 - Aspen	Poletimber Well	11.0	35	Unspecified	Stand is just moving into poles.
125	42200 - Natural White Pine	Poletimber Medium	5.4	53	1-50	Hardwood removed mid-November 1998.
126	42200 - Natural White Pine	Sawtimber Well	11.3	53	1-50	Hardwood removed in Mid-November 1998. Some mature aspen was left as a visual buffer along Boman Road. Young aspen coming in, in pockets.
128	6139 - Mixed Lowland Forest	Poletimber Medium	5.6	90	51-80	100% ash mortality.
129	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	11.4	9	Immature	Stand was harvested 2008. It is just beginning to regenerate.
130	4130 - Aspen	Poletimber Well	6.5	35	Unspecified	Stand is regenerating well. It is just coming into poles.
131	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	14.3	88	1-50	The stand is bisected by deep steep drainages of flowing water with defined bed and bank. The remaining aspen is becoming over mature and decadent. Overall a quality natural white pine stand.
133	42200 - Natural White Pine	Sawtimber Medium	34.7	88	1-50	
134	4130 - Aspen	Sapling Well	16.5	26	Immature	The stand is about 80% big tooth aspen saplings and 20% white pine log/poles.
135	6139 - Mixed Lowland Forest	Sawtimber Well	7.4	80	51-80	Riparian zone to East Branch Tittabawassee River. Bottom land and adjoining steep slopes on both sides.
137	6113 - Lowland Maple	Poletimber Poor	4.5	52	Unspecified	A minor component of the stand used to be ash, which has complete mortality now, due to EAB. There is flowing water running through this lowland drainage. Factor limited; too wet.
138	42200 - Natural White Pine	Sapling Poor	19.2	26	1-50	Stand is approximately 80% white pine sapling/poles. Quaking aspen and a minor component of balsam fir make up the remaining species of the stand. Few small vernal ponds mostly at south end.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
139	4133 - Aspen, Mixed Pine	Sapling Well	11.1	26	Immature	The majority of this stand is comprised of about 75% big tooth sapling/poles. 20% of the stand is made up of white pine pole/sap/logs. A minor component of red maple and balsam fir pole/saplings are also present.
140	6127 - Lowland Pine	Sawtimber Well	8.2	52	51-80	
141	4319 - Mixed Upland Forest	Poletimber Well	18.1	52	81-110	Stand is comprised of primarily 56% red maple pole/log/saps, and 40% white pine pole/sap/logs. The remaining species are minor components of red pine logs and big tooth aspen poles. Previous notes indicate about 35% of the stand is lowland.
142	4133 - Aspen, Mixed Pine	Poletimber Well	16.6	26	Immature	Good aspen growth. A component of white pine super canopy residual. Mesic and slightly hummocky.
143	42200 - Natural White Pine	Poletimber Medium	4.6	52	1-50	Some weevil in pine.
144	42200 - Natural White Pine	Poletimber Medium	13.6	26	1-50	Some weevil on white pine, but not severe. Aspen clones just beginning to feather in.
145	6127 - Lowland Pine	Sawtimber Well	13.9	93	141-170	Numerous vernal ponds. Very wet. Numerous areas with flowing drainages. Some of the pine has old growth characteristics.
147	6127 - Lowland Pine	Poletimber Well	14.5	52	51-80	Some aspen decadent. Low areas have tag alder and standing water. Hummocky ground.
149	6127 - Lowland Pine	Poletimber Well	15.3	52	51-80	Harvested (hardwood removal) 1998. Some weevil damage to saplings.
152	42200 - Natural White Pine	Poletimber Poor	12.4	51	1-50	Hardwoods removed in 1998. A number of grassed or blackberry openings.
153	4311 - Pine, Aspen Mix	Poletimber Well	8.6	52	81-110	Stand healthy.
154	6112 - Lowland Aspen	Sapling Well	22.0	26	Immature	Regenerated well. Numerous vernal ponds.
156	4112 - Maple, Beech, Cherry Association	Poletimber Poor	16.6	52	1-50	Clear cut with retention; aspen removal; winter 2017. Tire Swing Mix sale.
159	42290 - Natural Mixed Pine	Poletimber Poor	19.3	21	Immature	Very hummocky ground. Numerous vernal ponds. Stand is coming on well now.
160	4130 - Aspen	Sapling Well	8.7	26	Immature	
161	42200 - Natural White Pine	Poletimber Well	9.7	52	51-80	Hummocky and wet in places.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
162	6126 - Lowland Jack Pine	Sapling Poor	19.9	9	Immature	Harvested SUMMER '08. Standing water in many place. Numerous vernal ponds. Stand is beginning to fill in well now.
163	6112 - Lowland Aspen	Poletimber Medium	2.1	52	Unspecified	A former portion of the stand to the west that wasn't harvested because it is too wet. 100% ash mortality due to EAB. Aspen is becoming decadent and falling over in a few places.
165	6112 - Lowland Aspen	Sapling Medium	22.5	9	Immature	Final harvested summer '08. White pine left at west end as buffer. Light deer browse. Scattered cattail along wet areas at eastern edge. Numerous vernal ponds. low ground. Wet.
167	42210 - Natural Red Pine	Sawtimber Poor	11.2	91	51-80	Stand was shelterwood harvested (Miller Herner Harvest, 73-013- 14-01), in 2016. There were areas of advanced understory that were cut out of the sale; hence the second age within the stand.
168	4130 - Aspen	Sapling Well	8.7	28	Immature	
170	42200 - Natural White Pine	Poletimber Well	13.4	73	51-80	Sparser at west end with more aspen and larger trees.
173	42200 - Natural White Pine	Poletimber Well	5.0	73	111-140	Autumn olive is invading the stand. It is filling up the narrow space the runs between the stand.
174	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	35.8	89	1-50	Floodplain and side slopes of Tittabawassee River. All the ash has died off due to EAB infestation.
178	4130 - Aspen	Poletimber Poor	7.2	48	Unspecified	Stand is becoming dominated by autumn olive.
180	4130 - Aspen	Poletimber Well	56.7	48	Unspecified	A vigorous stand of aspen. However, the understory is being invaded by exotic autumn olive.
186	4130 - Aspen	Sapling Medium	10.2	12	Immature	Heavy deer browse along western edge of stand; up against lowland conifer swamp; deer refuge area.
187	42290 - Natural Mixed Pine	Sawtimber Well	21.8	70	141-170	Stand is mostly red pine and white pine log/poles. Stand is surrounded by private land and flowing streams. Stand is factor limited due to access issues.
189	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	4.6	70	51-80	Mostly pole/log/sap red maple. Approx. 25% aspen. Aspen decadent.
190	42200 - Natural White Pine	Sawtimber Well	25.3	75	111-140	Much of the white pine in the stand is weeviled with multiple leaders and somewhat stunted.
191	4133 - Aspen, Mixed Pine	Poletimber Well	7.2	44	Unspecified	Stand looks healthy. Hold for 10 more years.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
192	6113 - Lowland Maple	Poletimber Poor	6.4	44	Unspecified	100% ash mortality due to EAB. A very small stream flows through the stand. There is defined bed and bank as the stream narrows. A DEQ permit would be required to access stands across the flow.
193	6126 - Lowland Jack Pine	Poletimber Well	4.9	81	Unspecified	Excluded from J clearcut to west in '08 because portion is too wet, large J is very branchy, portions are upland shrub and low vol. Factor limit as too small to be managerially desirable, low volume and (primary) too wet.
194	42200 - Natural White Pine	Poletimber Poor	5.3	34	1-50	This stand is just over 25% forested. There are large grassy openings throughout and a vernal pond in the southwest corner. What limited aspen there is in the stand is generally of poor form.
195	4130 - Aspen	Poletimber Medium	6.8	34	Immature	Aspen regenerated well. The stand has a number of grassy openings and larger vernal ponds.
196	429 - Mixed Upland Conifers	Sapling Poor	21.2	10	Immature	Stand is slowly filling in with conifer and maple saplings. Stand was cut in 2007 (Cutting 101 sale). Stand still has a moderate slash load.
197	42220 - Natural Jack Pine	Sapling Poor	12.9	10	Immature	Final harvest 2007: Cutting 101 Sale. In process of naturally regenerating to jack pine. There are a number of larger vernal ponds within the stand.
198	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Poor	8.2	50	1-50	This stand is succeeding into a tag alder swamp. The majority of the tree species with the exception of the maple and birch are around the perimeter of the stand. 100% ash mortality due to
200	42220 - Natural Jack Pine	Poletimber Medium	3.4	34	Immature	Inclusion; coniferous/deciduous and forested/non forested difference with surrounding stands.
202	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	23.0	75	51-80	A broad based drainage runs north/south through the middle of the stand. Some aspen becoming decadent with age. Shelf fungus appearing on larger log sized aspen. There are numerous wet seeps with standing dead ash.
203	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	5.1	26	1-50	Small flowing drainage runs west across north portion of stand. Water is coming from the conifer swamp to the east.
204	6122 - Black Spruce	Sapling Well	4.6	45	Unspecified	Leatherleaf understory in portions of stand.
205	4130 - Aspen	Sapling Well	27.5	26	Immature	Good aspen regen. Several grass openings not quite large enough to be mapped.
207	6113 - Lowland Maple	Poletimber Medium	2.1	73	Unspecified	Small drainage that continues into stand to west, with side slopes. Not harvested with surrounding aspen stand. Too wet and steep. Heavy ash mortality due to EAB.
209	42200 - Natural White Pine	Sawtimber Poor	6.1	72	1-50	Stand was harvested in Summer 2016. Miller Herner Harvest. Vegetative buffer left along river.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
212	42290 - Natural Mixed Pine	Sapling Poor	29.1	26	Immature	The stand is bisected by a very narrow drainage with a defined bed and bank. There are a number of openings where the final harvest from 1991 did not re-stock. There are a number of aspen clones however feathered throughout the stand. White pine is generally stocky and bushy.
214	4133 - Aspen, Mixed Pine	Sapling Well	15.6	27	Unspecified	Harvested in 1993.
216	42210 - Natural Red Pine	Sawtimber Well	4.8	99	171-200	First thinning in 1993. School Road Sale. Hold treatment for ten more years then harvest with adjacent stand 212 at that time.
217	42290 - Natural Mixed Pine	Poletimber Well	9.2	37	51-80	
218	42210 - Natural Red Pine	Sawtimber Well	22.4	85	81-110	Natural red pine stand, thinned in 2005.
220	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.5	80	111-140	Flood plain and adjoining steep slopes on west side following the river.
223	4311 - Pine, Aspen Mix	Sapling Well	7.1	12	Immature	Final harvested in 2005. Mixed but good regen. Spotty in places.
224	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	9.1	37	51-80	Hummocky ground with wintergreen. A few super canopy mature red pine within stand.
226	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	6.8	58	111-140	Could not access due to wide flowing drainage and surrounding private lands. Age based on overstory age of pine in stand 230 to the east.
227	4311 - Pine, Aspen Mix	Poletimber Well	4.3	30	Immature	
228	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	8.3	30	Immature	A few super canopy red pine and white pine. Hummocky ground.
229	4133 - Aspen, Mixed Pine	Sapling Well	6.7	28	Immature	Aspen coming in well. Small percentage of oak and white pine overstory.
230	4133 - Aspen, Mixed Pine	Sapling Well	8.2	4	Immature	Stand was harvested in November 2012. Aspen, red maple removal. Left about 20 BA of conifer overstory.
233	4310 - Pine, Oak Mix	Sawtimber Well	10.5	41	81-110	
234	4133 - Aspen, Mixed Pine	Poletimber Medium	9.9	41	51-80	Sparse stand, aspen is poor quality. Some becoming decadent. Low level of hypoxylon. Wet swales and upland openings throughout.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
236	4130 - Aspen	Sawtimber Well	11.1	104	Unspecified	Predominately over mature very large aspen just starting to come down. Approximately 10 percent variable sized white pine along with red maple. White pine saplings comprise a medium density understory.
237	4113 - R.Maple, Conifer	Poletimber Well	33.4	50	81-110	
240	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	31.3	38	1-50	The white pine in the stand is heavily weeviled. A former oak stand, the white pine is beginning to dominate.
241	6113 - Lowland Maple	Poletimber Medium	6.4	100	Unspecified	Too wet to harvest. Vernal pond and surrounding lowland. Primarily red maple poles with variable sized white pine. Tag alder succeeding to mixed lowland forest. Trace of cedar.
245	4319 - Mixed Upland Forest	Poletimber Well	8.4	41	51-80	Former poor aspen site. Aspen is diminishing and stand is becoming more conifer dominate. Stand is Hummocky. Pockets of alder in the wetter ground.
246	4136 - Aspen, Mixed Conifer	Poletimber Medium	12.7	41	Unspecified	Much sparser and heavy pine/fir and more maple, birch at north end. Considerable white pine and fir understory.
248	42210 - Natural Red Pine	Sawtimber Medium	10.6	85	111-140	Previous notes indicate that this stand was initially thinned in '05 or '06. It was not included in the second entry thinning of its neighboring stand to the east in '12.
249	42210 - Natural Red Pine	Sawtimber Medium	22.3	85	111-140	Stand had a second entry thinning in December 2012; Bourret Red Pine.
251	6113 - Lowland Maple	Poletimber Medium	12.9	77	Unspecified	
252	4133 - Aspen, Mixed Pine	Poletimber Well	45.5	24	Immature	Aspen regenerating well. Stand was final harvested in 1993; LaPorte Creek sale.
253	4311 - Pine, Aspen Mix	Sapling Medium	13.5	24	Immature	Final harvested in 1993, LaPorte Creek sale. Wetter soils. Hummocky.
254	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	4.5	60	Unspecified	
255	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.7	76	81-110	Buffer strip left from LaPorte Creek sale 1993.
256	42200 - Natural White Pine	Poletimber Medium	14.2	24	51-80	Final harvested in 1993. LaPorte Creek sale. White pine is very branchy with poor form, and weeviled. Multiple leaders.
257	42200 - Natural White Pine	Poletimber Well	10.1	80	51-80	Buffer left when aspen was cut to the west in 1991. Drainage runs through stand. About 40% of the stand is lowland.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
259	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	19.4	49	Unspecified	
260	42200 - Natural White Pine	Sapling Poor	7.0	16	Immature	High percentage of white pine pole/sap/log. Red Maple saps. 35-40% lowland (cedar drainage). Minor component of northern white cedar.
262	42200 - Natural White Pine	Sawtimber Medium	90.6	61	81-110	Previous notes suggest that some of the mature white pine has very poor form.
263	42200 - Natural White Pine	Sawtimber Medium	12.2	101	51-80	Shelterwood cut '03 Rep's Access sale #16-'01. 150 BA of aspen, maple oak removed. Previous data indicates light to moderate aspen sprouting and good White Pine seedling regen about 9" tall.
264	6127 - Lowland Pine	Poletimber Well	34.3	60	51-80	Stand is primarily white pine pole/log/sap with the remainder being mixed deciduous pole/sapling of red maple, aspen and a trace of paper birch. Previous data indicates the stand is wet and hummocky. Portions are very wet with alder/willow. Few higher white pine ridges but low quality.
265	4311 - Pine, Aspen Mix	Poletimber Well	34.4	47	51-80	Stand is primarily white pine pole/sap/log. About a quarter of the stand is big tooth aspen. Previous data indicates the aspen is in poor condition with poor growth and low level hypoxylon. Some large oaks and few saps at west end. Trace of paper birch and balsam fir.
266	4122 - Oak, Pine	Poletimber Well	91.7	37	1-50	Stand is primarily black/red (hybrid) oak pole/saplings with about 30% of the stand being pole/sapling white pine. Previous data suggests that white pine is becoming dominant in the stand.
270	4125 - Black, N. Pin Oak	Poletimber Medium	82.4	16	1-50	Stand is primarily Black/Red (Hybrid) Oak pole/sap/log. A secondary component is white pine saps. Very little aspen. Previous data indicates heavy deer browse. Some oak just getting above browse line.
272	6122 - Black Spruce	Poletimber Poor	8.4	26	Unspecified	Stand is primarily black spruce pole/saplings with about 38% white pine log/poles. A very minor component of tamarack saplings is present.
273	4130 - Aspen	Poletimber Well	4.9	35	81-110	White pine veterans in overstory.
274	42200 - Natural White Pine	Sawtimber Medium	83.0	60	51-80	The stand is overwhelmingly white pine log/poles with the remainder being red maple pole/log/saplings. A very minor component of black/red hybrid oak logs and red pine logs is present.
277	6127 - Lowland Pine	Sawtimber Well	10.1	75	1-50	Stand is primarily white pine log/poles. 30% of the stand is black spruce poles and saplings with minor components of tamarack, red maple and paper birch poles. Diverse stand that was probably too wet to cut with adjacent final harvest, so left as buffer.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
279	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	7.8	35	1-50	Stand is primarily 68% white pine log/poles and 23% big tooth aspen. The remaining component is red maple pole/saplings.
282	42201 - Natural White Pine, Mixed Deciduous	Poletimber Poor	23.1	35	1-50	Stand is primarily white pine pole/saplings with the remaining 20% big tooth aspen pole/saplings and 15% red maple pole/saplings. A very minor component of tamarack saplings is present as well. About 15% of the stand is lowland with tag alder and willow.
283	4130 - Aspen	Poletimber Well	60.0	35	Unspecified	The majority of this stand is pole/sapling sized big tooth aspen. Red maple and white pine poles make up the remaining 10% of the tree species.
288	429 - Mixed Upland Conifers	Poletimber Poor	40.1	43	1-50	The stand is comprised predominately of tamarack pole/saplings, big tooth aspen poles and about 19% white pine pole/sap/logs. Minor components of jack pine, red maple and black/red (hybrid) oak poles are also present. Very diverse stand with some small grass openings and pockets of tag alder.
290	4130 - Aspen	Poletimber Medium	28.3	47	Unspecified	Stand is comprised of approximately 70% big tooth aspen pole/log/saps. The remainder of the stand is made up of white pine log/poles, and red maple, black spruce, and paper birch poles. Very diverse stand. Previous field notes indicate large grass openings (savannahs) in S, W, and Central part of stand. Portions of stand have high site aspen, portions have very poor aspen that should be allowed to go to white pine. (The poor aspen is mostly west of road).
292	4130 - Aspen	Sapling Medium	44.8	16	Immature	Clearcut 2003: Rep's Access sale, #16-'01. Stand is approximately 90% big tooth aspen saplings. The remainder of the species in the stand are white pine, jack pine and black/red (hybrid) oak saplings. Previous observations noted that the aspen has regenerated fairly well.
294	42220 - Natural Jack Pine	Poletimber Well	9.4	77	Unspecified	The stand is comprised primarily of approximately 85% jack pine. Previous field notes indicate the jack pine is of pole/ sapling size, averaging about 6" DBH. However, age was estimated at 77. There is a component of about 10% red pine log sized trees present.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	629 - Mixed non-forested wetland	0.8	No	
5	622 - Lowland Shrub	52.4	No	
6	6239 - Mixed Emergent Wetland	2.4	No	
8	6224 - Treed Bog	4.2	No	This is a leather leaf bog white pine.
11	500 - Water	3.3	No	
12	623 - Emergent Wetland	42.5	No	
13	622 - Lowland Shrub	2.0	No	
17	6239 - Mixed Emergent Wetland	1.3	No	
18	6224 - Treed Bog	4.1	No	
20	3303 - Mixed Low Density Trees	37.9		Stand was harvested in the Fall of 2012 (currently 4 years old), and is regenerating to natural mixed pine with some deciduous species; primarily black/red (hybrid) oak and aspen. The deciduous seedlings and saps are being heavily browsed by deer along the edges of the stand.
22	3102 - Grass	5.1	No	Some autumn olive growing in clumps within the stand.
23	622 - Lowland Shrub	1.4	No	
27	6233 - Wet Meadow	1.4	No	
30	621 - Floating Aquatic	36.6	No	
33	623 - Emergent Wetland	1.2	No	
37	622 - Lowland Shrub	69.3	No	
46	622 - Lowland Shrub	47.2	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
54	6220 - Alder/willow	2.4	No	
56	6220 - Alder/willow	24.3	No	
61	629 - Mixed non-forested wetland	2.3	No	
63	629 - Mixed non-forested wetland	1.2	No	
64	629 - Mixed non-forested wetland	6.9	No	
67	6220 - Alder/willow	2.2	No	
69	330 - Low-Density Trees	23.2		Stand final harvested Winter 2016. Tire Swing Mix, 73-008-14-01. Stand is beginning to regenerate well. Lowland with minimal upland.
73	3303 - Mixed Low Density Trees	2.0	No	
74	3301 - Low Density Deciduous Trees	5.0	No	
76	6233 - Wet Meadow	7.3	No	
78	3102 - Grass	1.1	No	
80	500 - Water	5.1	No	
81	500 - Water	1.7	No	
82	6239 - Mixed Emergent Wetland	6.2	No	
85	6220 - Alder/willow	1.2	No	
87	6220 - Alder/willow	2.2	No	
89	3303 - Mixed Low Density Trees	18.3	No	
90	629 - Mixed non-forested wetland	1.1	No	





Stand	Cover Type	Acres	Managed Site	General Comments:
93	3301 - Low Density Deciduous Trees	4.5	No	100% ash mortality due to EAB. Some historic beaver flooding activity.
96	6239 - Mixed Emergent Wetland	3.7	No	
97	6239 - Mixed Emergent Wetland	6.6	No	
105	6239 - Mixed Emergent Wetland	8.4	No	
109	6220 - Alder/willow	1.2	No	
110	6220 - Alder/willow	1.1	No	
111	6220 - Alder/willow	3.0	No	
112	6230 - Cattail	6.4	No	
114	6225 - Bog	2.5	No	
115	6220 - Alder/willow	4.0	No	
117	6220 - Alder/willow	1.1	No	
118	6225 - Bog	0.8	No	
119	3302 - Low Density Conifer Trees	1.4	No	This stand is an old dump site, that has been filled with what appears to be truck loads of soil left in mounds. There is garbage sticking out of the ground and scattered about.
127	122 - Road/Parking Lot	1.7	No	Bowman Road.
132	500 - Water	23.2	No	Middle Branch Tittabawassee River/Secord Lake.
136	6230 - Cattail	5.3	No	Some cattails and open water.
146	3303 - Mixed Low Density Trees	6.1	No	Currently minimal sprouting of oak from stumps near road. A lot of larger residual white pine at S and N ends; narrow band of mixed trees left along road. Heavy slash remains.
148	122 - Road/Parking Lot	1.1	No	Bensch Road.



Stand	Cover Type	Acres	Managed Site	General Comments:
151	122 - Road/Parking Lot	1.9	No	Park Road.
157	6239 - Mixed Emergent Wetland	1.0	No	
158	6220 - Alder/willow	4.2	No	
164	629 - Mixed non-forested wetland	2.4	No	
166	3303 - Mixed Low Density Trees	12.9		Stand harvested spring 2017. Tire Swing Mix sale.
172	122 - Road/Parking Lot	7.4	No	Herner Road.
175	6233 - Wet Meadow	0.9	No	
177	623 - Emergent Wetland	4.3	No	La Porte Creek floodplain. Tag alder along creek.
181	3202 - Autumn Olive/Honeysuckle	6.0	No	
182	3202 - Autumn Olive/Honeysuckle	3.8	No	This stand is an unmanaged grass opening that has a medium density of invasive autumn olive spreading.
183	6224 - Treed Bog	2.9	No	
184	6225 - Bog	1.5	No	
185	629 - Mixed non-forested wetland	17.8	No	
199	3202 - Autumn Olive/Honeysuckle	3.0	No	Low density white pine poles in the canopy with medium density planted invasive autumn olive in the subcanopy.
201	3303 - Mixed Low Density Trees	40.0		Stand shelterwood harvested Summer 2016; Miller Herner Harvest.
206	6225 - Bog	1.6	No	
208	3204 - Mast Producing Shrub	1.6	No	
211	6220 - Alder/willow	5.7	No	Standing dead ash and elm.



Stand	Cover Type	Acres	Managed Site	General Comments:
215	6220 - Alder/willow	1.6	No	extensive old beaver activity. narrow drainage.
219	6225 - Bog	3.9	No	Blueberry bog.
221	6220 - Alder/willow	1.8	No	tag alder, marsh grass
225	3102 - Grass	0.7	No	Grass with bracken.
232	623 - Emergent Wetland	16.7	No	Broad based drainage, Flowing water. No defined bed and bank.
235	330 - Low-Density Trees	4.9	No	Total ash mortality due to EAB infestation. Very wet ground.
238	6220 - Alder/willow	1.5	No	
239	500 - Water	19.1	No	La Porte Creek.
242	6225 - Bog	3.6	No	
243	500 - Water	5.0	No	East Branch Tittabawassee River.
244	623 - Emergent Wetland	11.6	No	Tag alder /willow.
247	623 - Emergent Wetland	7.5	No	Emergent wetland w/ marsh grass, cattails, willow/tag alder. Some open water. Non-functioning beaver dam built up along an old railroad grade that crosses the wetland.
258	6225 - Bog	1.0	No	
269	6220 - Alder/willow	64.6	No	
275	6225 - Bog	10.4	No	
276	622 - Lowland Shrub	7.7	No	
280	6224 - Treed Bog	40.9	No	
281	6230 - Cattail	5.1	No	Cattails





Stand	Cover Type	Acres	Managed Site	General Comments:
284	623 - Emergent Wetland	13.1	No	
285	500 - Water	0.5	No	Open water.
286	6230 - Cattail	2.4	No	Cattail. Several duck boxes.
287	622 - Lowland Shrub	21.7	No	
293	6225 - Bog	4.7	No	
295	6220 - Alder/willow	8.7	No	Shallow flooding
298	122 - Road/Parking Lot	0.9	No	School Road. Gravel.
299	6220 - Alder/willow	2.5	No	
300	500 - Water	0.5	No	
301	6239 - Mixed Emergent Wetland	6.4	No	
302	6220 - Alder/willow	4.5	No	Tag alder in the stand with some active springs.
303	122 - Road/Parking Lot	2.4	No	County road. Shore Drive.