



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73026

Entry Year: 2028

Acreage: 2,670

County: Gladwin

Management Area: High Sand Plains

Stand Examiner: Steve Nyhoff

Legal Description:

T20N - R02W Sections 2, 11, 15 thru 19, 22, and 28 thru 30

Identified Planning Goals:

The compartment is part of the High Sand Plains (MA). The past management has focused on balancing the age class distribution of aspen and the regeneration of oak. The current management plans are to harvest the mature aspen. In addition, some of the oak stands and upland hardwoods are also scheduled for harvest while others are not to promote a diversity of habitats. Special consideration needs to be given to some stands next to a cold-water trout stream and some areas of steep slopes that will affect the harvest. Many of the lowland stands are on muck soils and cannot be harvested because of wetness.

Soil and topography:

are also soils that have topography that goes from flat to rolling. The slightly moister soils are Chelsea-AuGres Association and Croswel-AuGres Association. These soils are predominantly flat with some having extensive micro-relief. The wetter soils that are dominated by swamp conifers are Lupton Muck, Carbondale Muck. The swamp hardwoods are more commonly found on Roscommon-Tawas Association. The topography ranges from flat to rolling going from south to north in general.

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

The Compartment is a fragmented collection of approximately eight large parcels of State ownership. The majority of the Compartment is surrounded by private land. Most of the private land interface consists of hunting lands and farmland. There are more concentrated year-round and seasonal residential parcels in the Meredith area which includes the Blue Lake, Island Lake and Grass Lake subdivisions. Consequently, there is heavy recreational use of the nearby State-owned parcels within the Compartment. Additionally, there are a number of public utility ROWs accommodating electric power lines and gas pipelines.

Unique Natural Features:

There is a known occurrence of Red-shouldered Hawk (*Buteo lineatus*) - a Michigan threatened species- within the Compartment, and there are records of Smooth Green Snake a species of concern. The general area may also include massasauga rattlesnake, blanding's turtle, spotted turtle, and bald eagle. Within the cedar swamps there is potential for rams head orchid, calypso orchid, and limestone oak fern.

Archeological, Historical, and Cultural Features:

There are no known archeological, historical, or cultural features within the Compartment.

Special Management Designations or Considerations:

The North Branch Cedar River is a high priority trout stream, and its riparian (buffer) zone is designated as a Special Conservation Area (SCA). The Compartment also directly borders a designated High Conservation Value Area (HCVA) - the Gladwin Field Trial Area (GFTA).

Watershed and Fisheries Considerations:

Approximately three miles of the North Branch Cedar River, a Michigan high priority trout stream, flows south through Compartment 26. The North Branch Cedar River is the only cold-water trout stream within the Saginaw Bay watershed. The stream bank should be kept forested where practicable in order to maintain cool water temperatures and provide a shade mosaic for fish cover diversity. In addition, there are many springs in the compartment that feed into the river that need to be protected.

Wildlife Habitat Considerations:

Upland systems are dominant in this compartment, making it suitable for a number of early forest successional wildlife species. The majority of stands are aspen with lowland cover types present. Species such as Ruffed grouse, white-tailed deer and American woodcock are quite common. The North Branch of the Cedar River passes through the compartment. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the river riparian zone as a travel corridor

as well as year-round habitat. Other game species likely to be present in this compartment include raccoon, wild turkey and snowshoe hare. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellowrumped warbler, gray catbird, redbreasted vireo, white-throated sparrow, hermit thrush and red-breasted nuthatch. The compartment is easily accessible to hunters via Shaw Road on the east and M-18 on the west.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial development of metallic minerals in this part of the state. The nearest known active sand/gravel operation is one mile or more to the east, and there appears to be some good potential for sand & gravel within the compartment on the uplands. The southern end of the compartment abuts the margin the Skeels oil field, which is still producing under secondary recovery operations. There has been some recent drilling activity in this area, including a well drilled just outside the compartment in 2023, but it was not a successful well. The well and a new permit were transferred to a new operator that planned additional work in the area, but they let the permit expire last year. There may still be some potential for future oil production within the compartment, but further exploration and development may not be economical at this time.

Vehicle Access:

The majority of the Compartment has adequate vehicle access via improved and gravel county roads along with state forest two-tracks. There is no vehicle access to the SWSE of Section 16 due to the river and private land. The NENW of Section 29 is landlocked. The State of Michigan has a management easement over the private land in the W1/2SW section 21 and NWNW section 28 that allows access to the State land west of the Cedar River. (Liber 903 Page 772).

Survey Needs:

There is no need for a survey at the current time.

Recreational Facilities and Opportunities:

The designated Meredith-Houghton Lake Snowmobile trail runs through the northwest portion of the Compartment. This trail receives considerable use during the snowmobile season when conditions are right. The Gladwin Field Trial Area (GFTA) is directly north of the Compartment. There is fairly consistent small game and deer hunting pressure within the Compartment, which creates light dispersed camping during the open seasons. There is moderate fishing pressure along the North Branch Cedar River.

Fire Protection:

The Compartment has had low occurrences of wildfire in the recent past. This may be due to the preponderance of hardwood stands. However, the predominance of public /private land interface and the presence of subdivisions with high summer seasonal activity elevate the chance of fire starts and subsequently, the susceptibility of the compartment to moderate fire danger.

Additional Compartment Information:

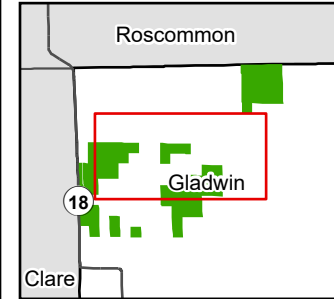
The following reports from the Inventory are attached:

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

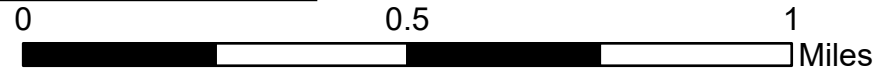
The following information is displayed, where pertinent, on the attached compartment maps:

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

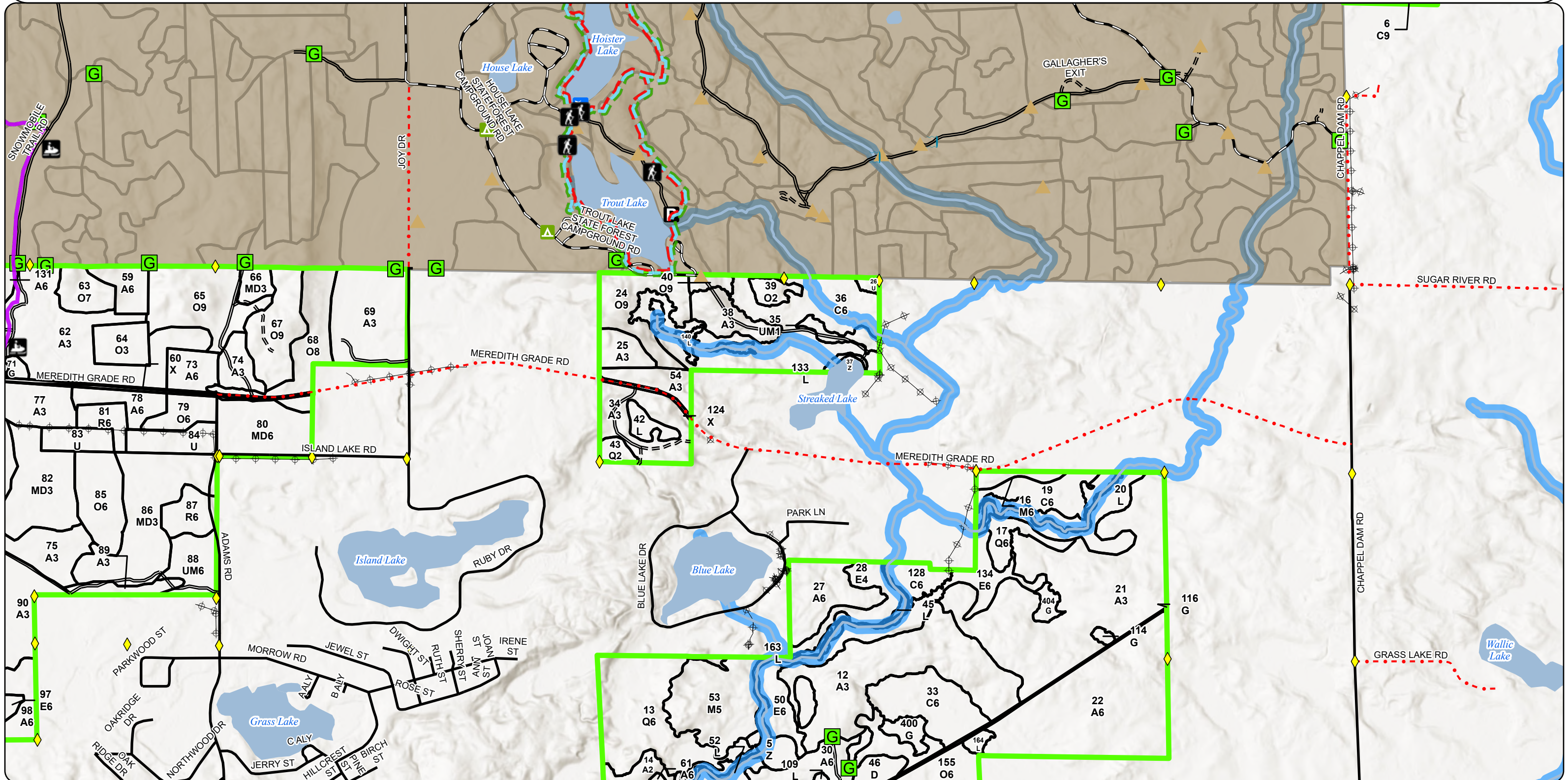
Cover Type & Treatments Map



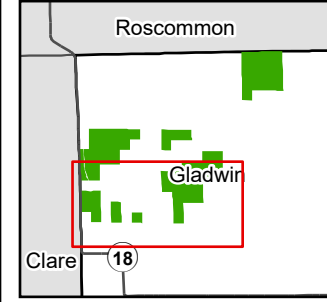
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 Unit: Gladwin
 Mgmt. Area: High Sand Plains
 YOE: 2028
 Acres: 2,670 GIS Calculated
 Examiner: Steve Nyhoff
 Date Exported: 05/21/2026
 Map Phase: Web Post



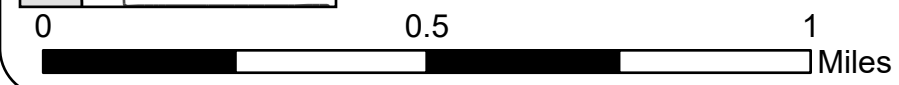
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- Culvert
- Ⓟ Parking Lot
- 🚤 Boating Access Site
- 🏕️ State Forest Campground
- ▲ Berm
- Ⓜ Gate
- Designated Hiking Pathway
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowmobile
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
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- Lakes and Rivers
- ⚡ Electric
- Compartment Boundary
- High Conservation Value Areas
- Dedicated Management Areas
- Cold Water Streams
- High Priority Trout Stream Buffer



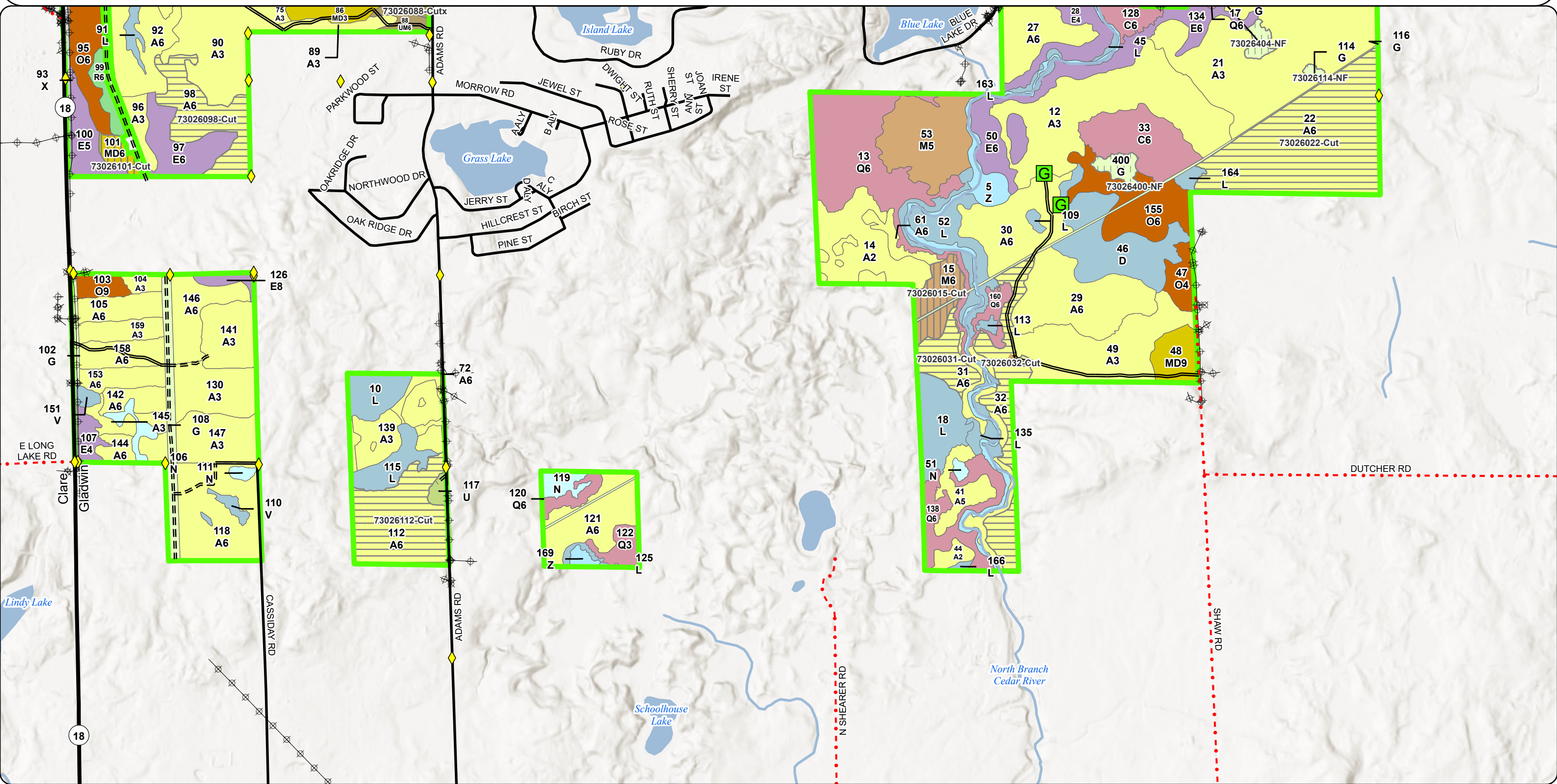
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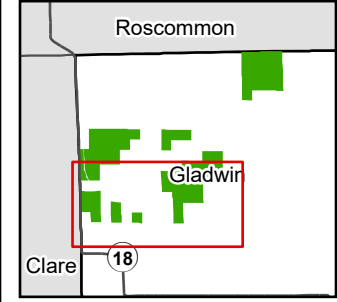
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- 412 - Oak Types
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Stand Boundary Map

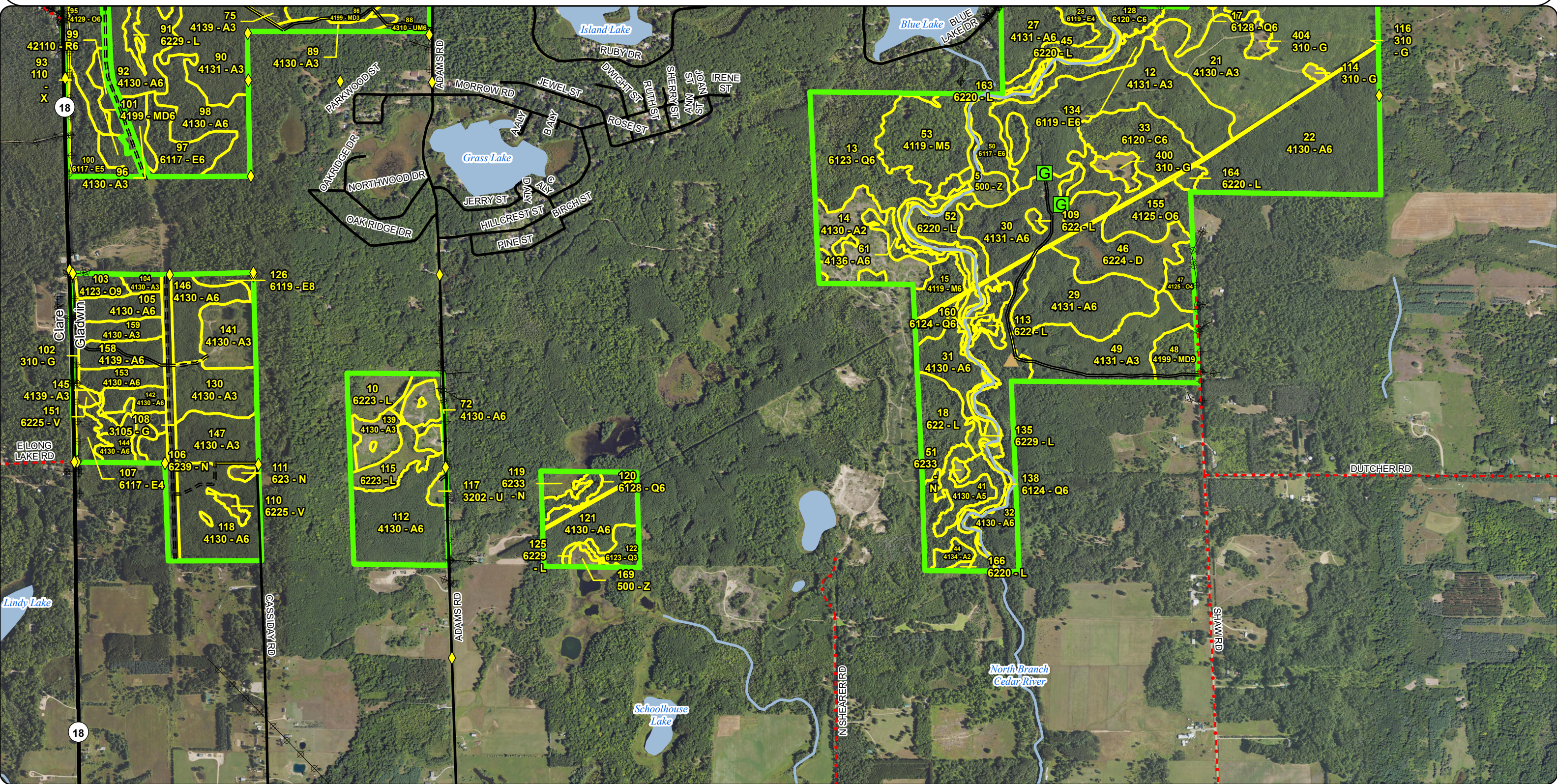
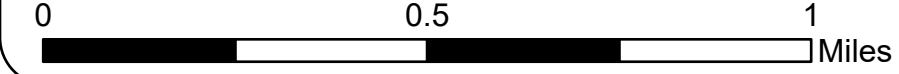


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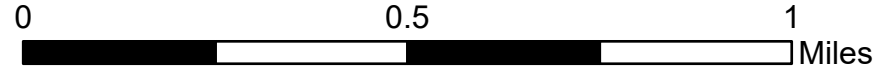
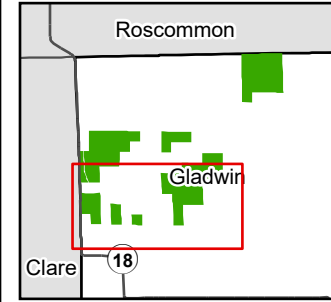
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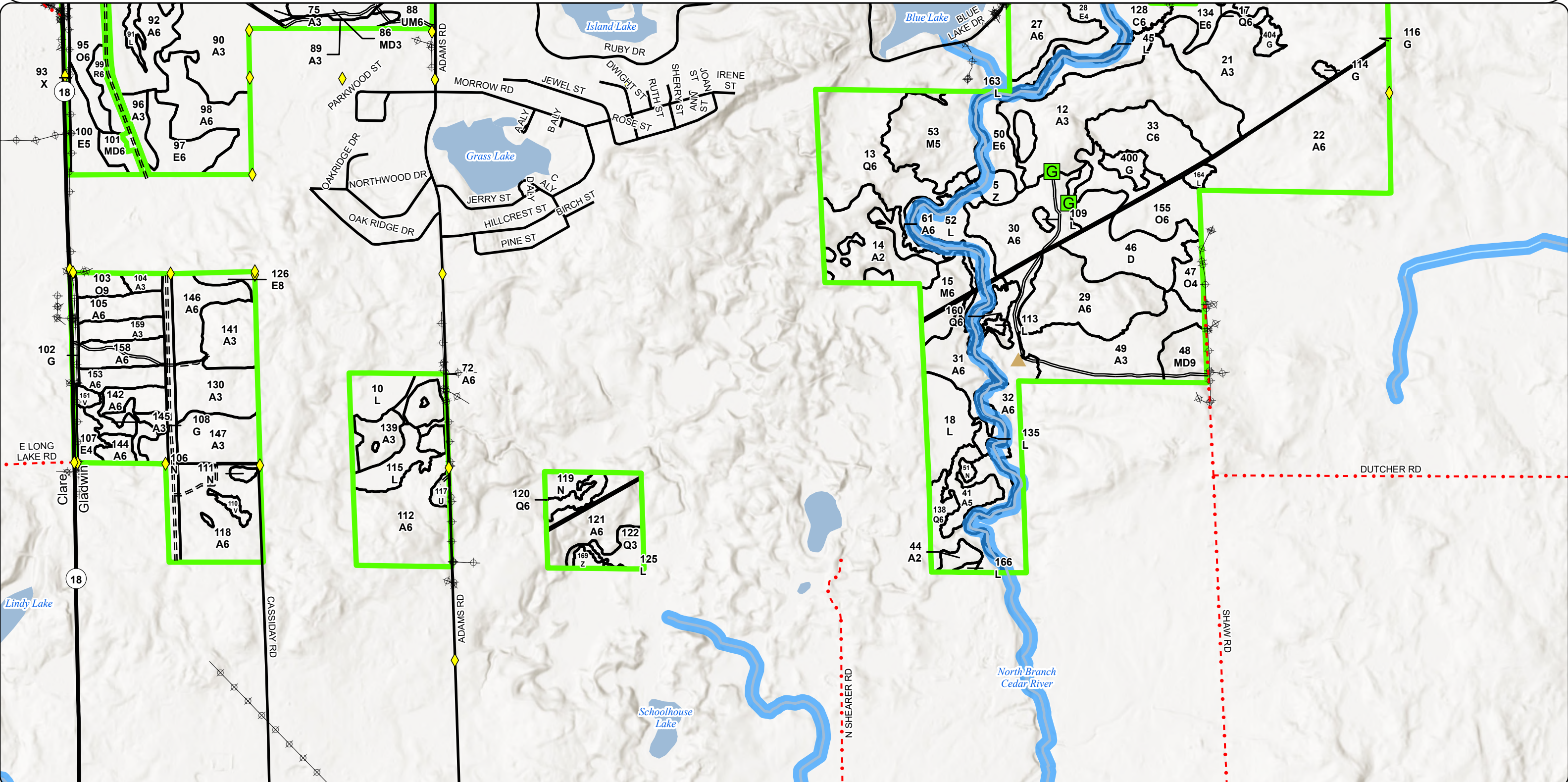


Special Conservation Areas & Site Conditions Map

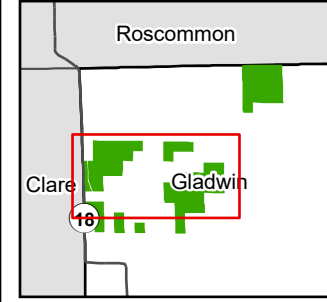
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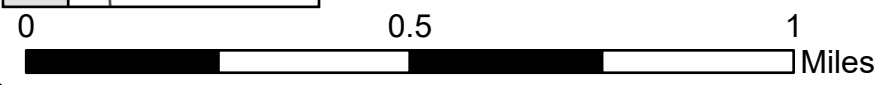
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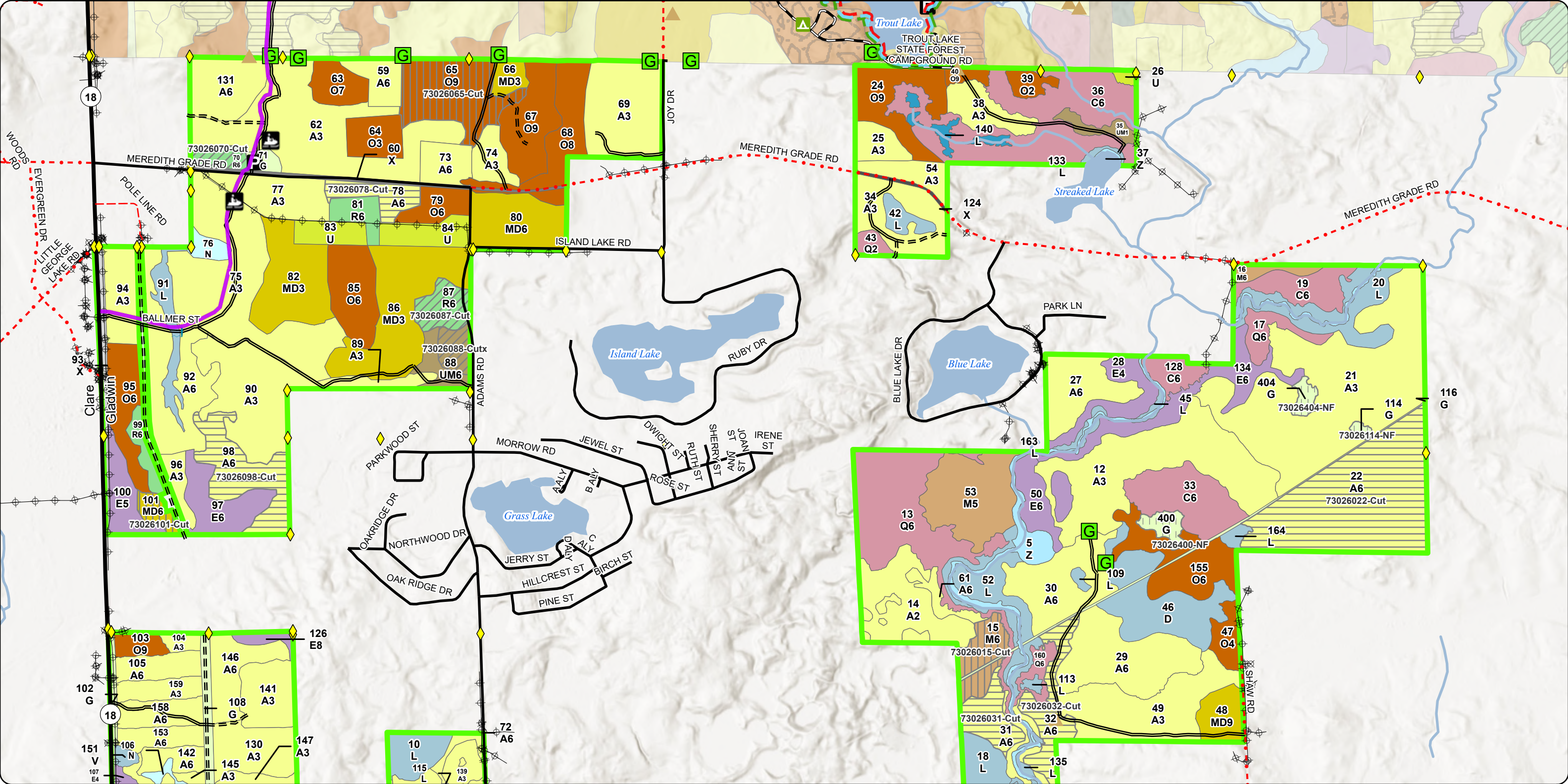
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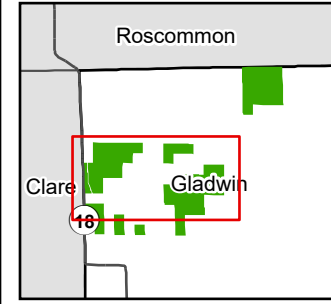
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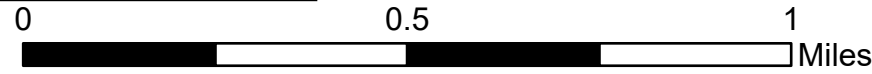
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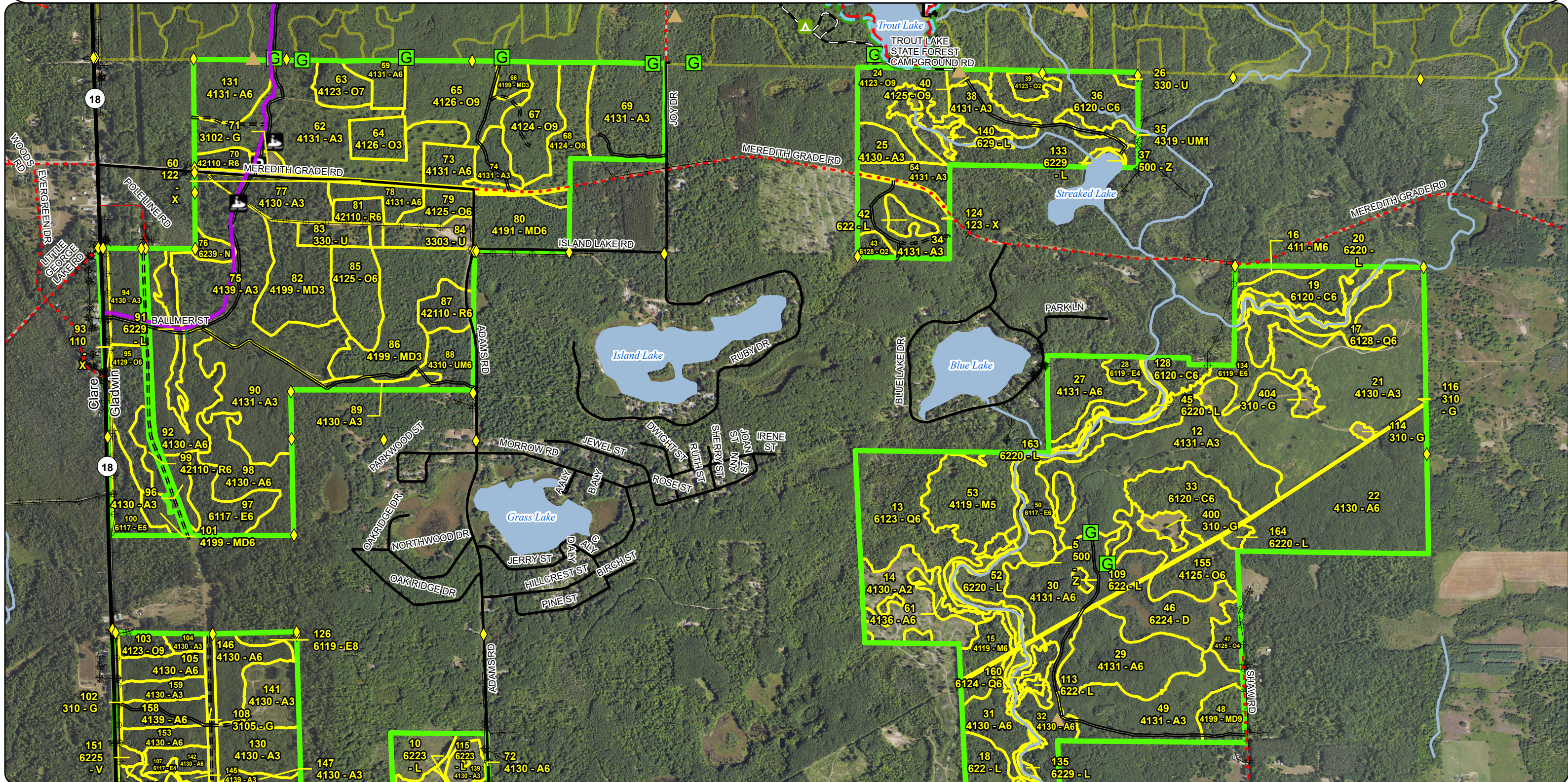


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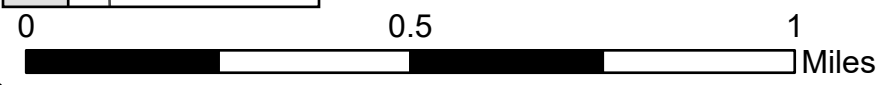
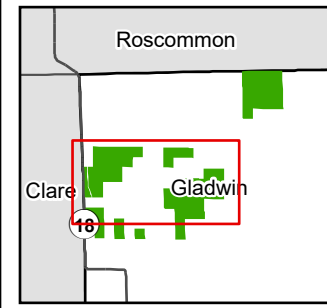
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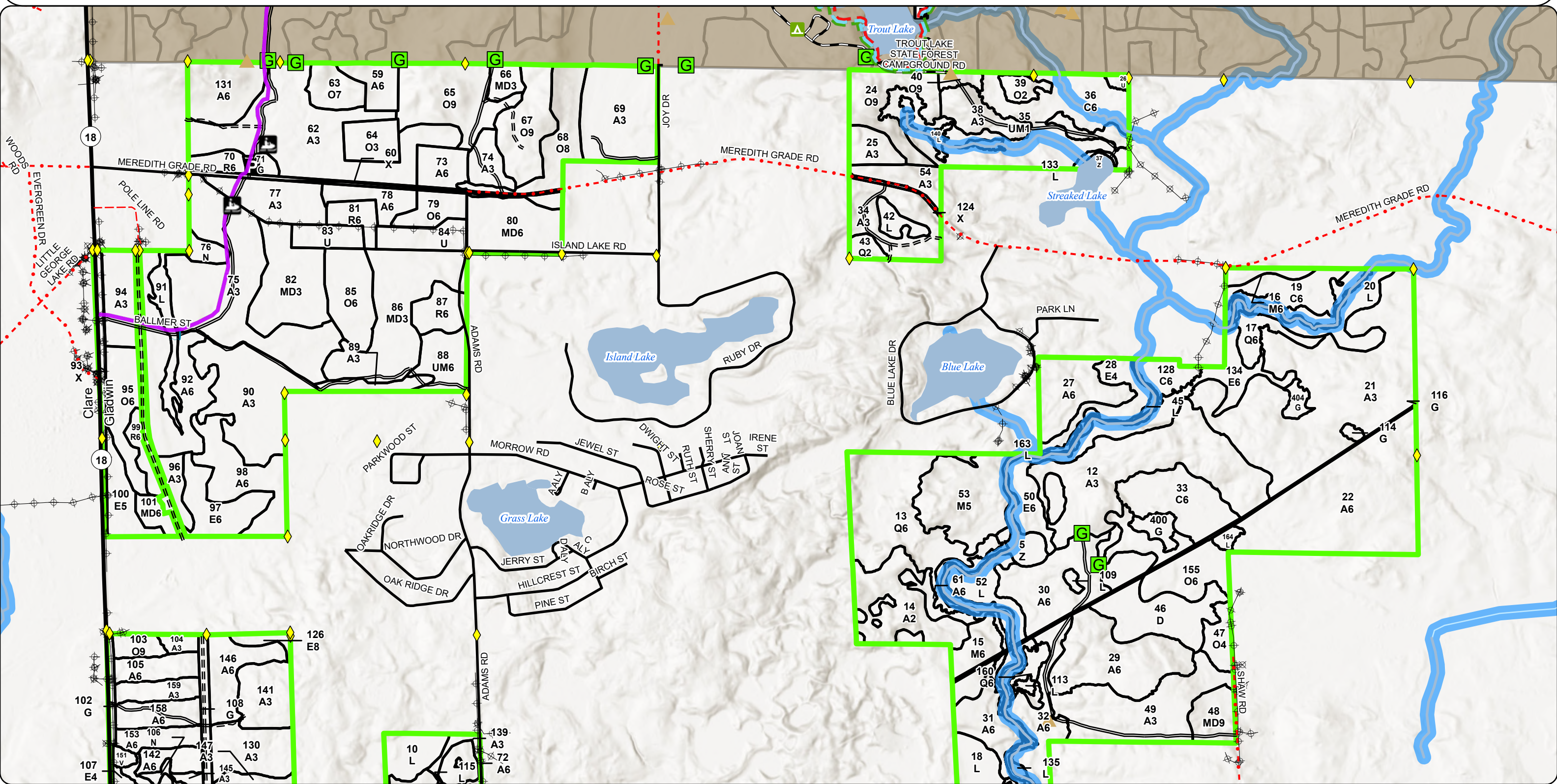


Special Conservation Areas & Site Conditions Map

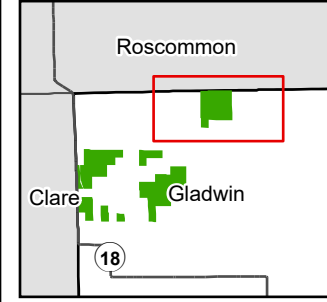
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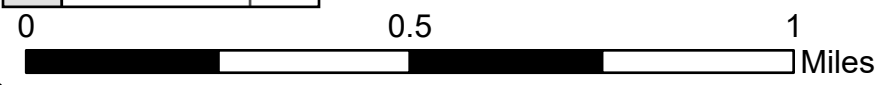
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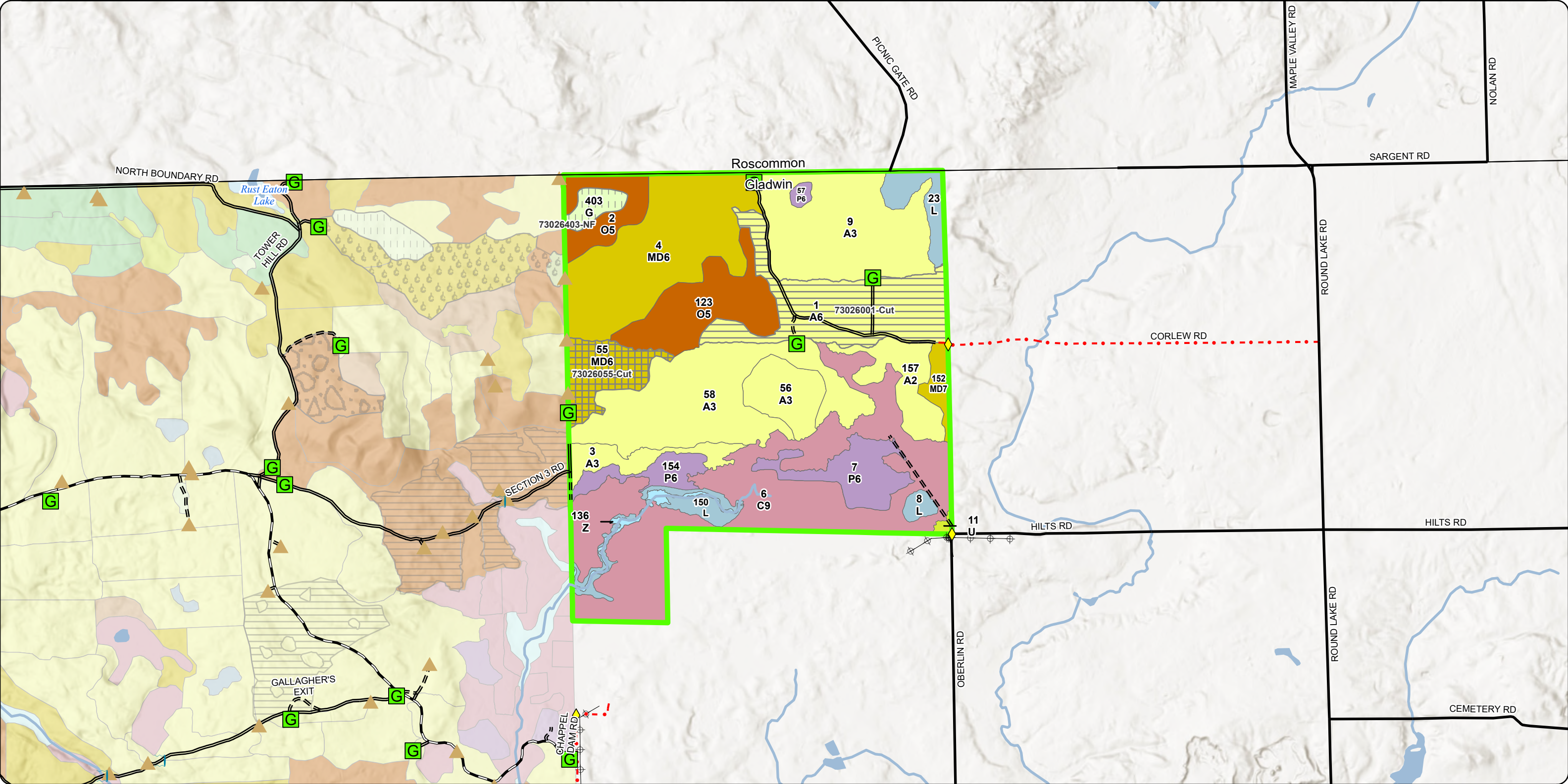
Cover Type & Treatments Map



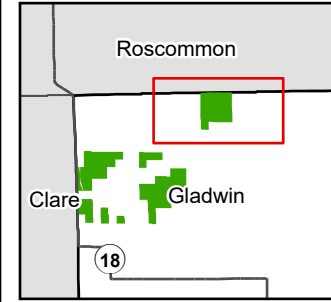
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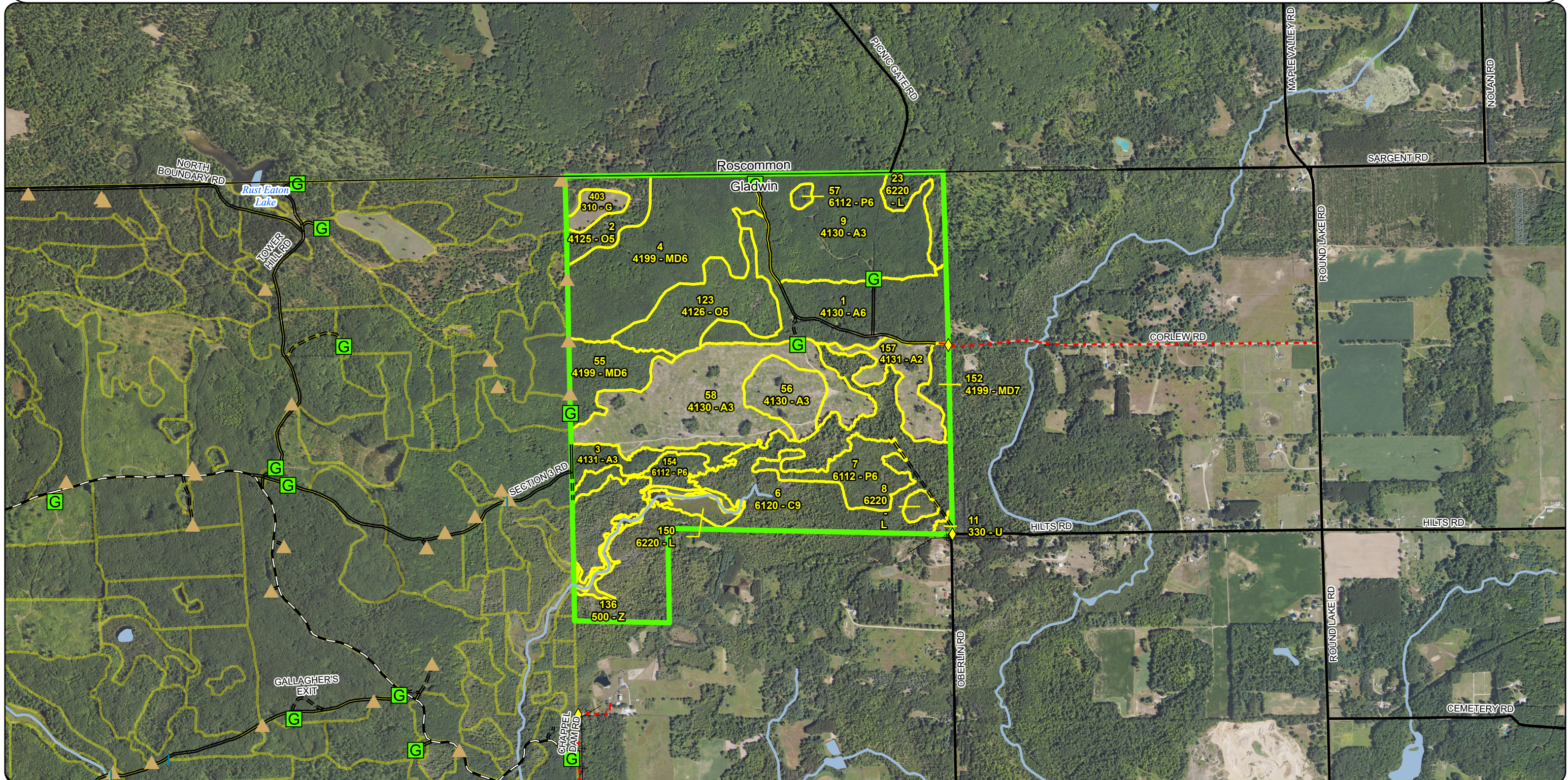
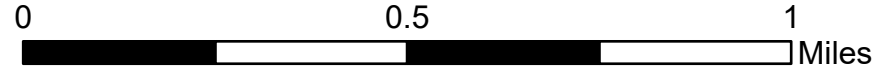


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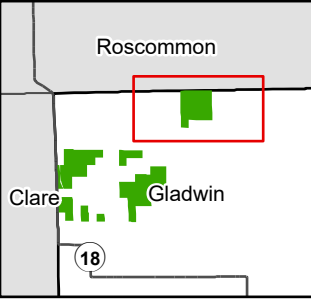
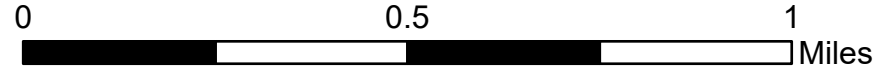
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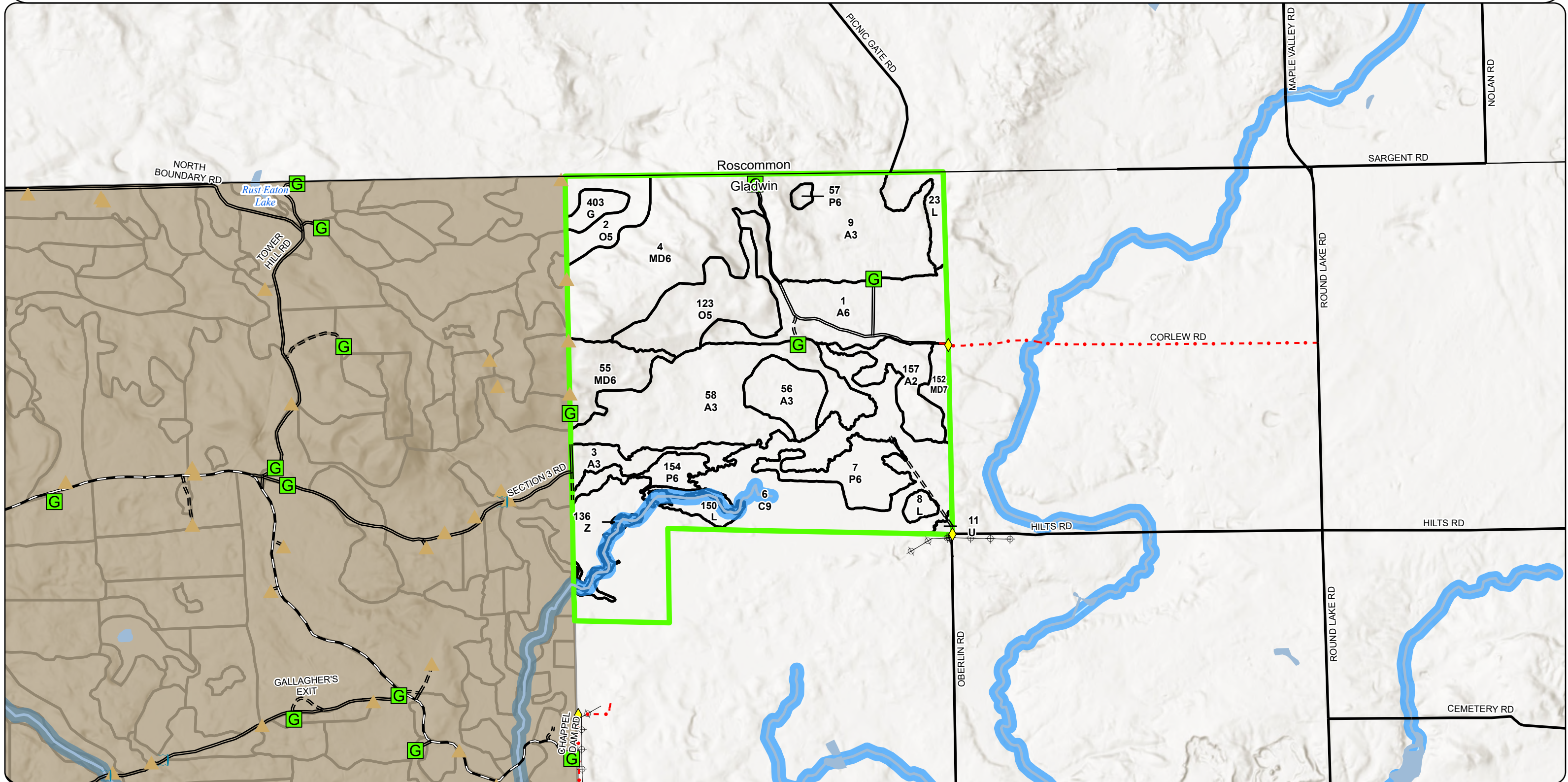


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	280	357	197	156	136	225	0	0	0	0	0	0	0	0	0	0	0	1351
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	0	227	14	0	0	0	0	0	241
Herbaceous Openland	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Low-Density Trees	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Aspen/Balsam Poplar	0	0	0	12	0	24	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Conifers	0	0	3	0	0	0	5	49	0	0	0	16	8	0	5	0	0	6	91
Lowland Deciduous	0	0	0	0	0	0	13	0	0	0	41	0	0	0	0	0	0	27	81
Lowland Shrub	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140
Marsh	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	0	0	69	50	80	5	0	0	0	7	0	0	0	0	0	0	10	221
Northern Hardwood	0	0	0	0	0	0	12	0	0	0	0	35	0	0	0	0	0	0	47
Oak	0	0	0	14	33	76	7	0	0	0	56	72	0	0	0	0	0	0	257
Red Pine	0	0	0	0	0	12	0	15	0	0	0	0	0	0	0	0	0	0	27
Treed Bog	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Upland Mixed Forest	0	0	0	5	0	0	0	0	0	0	0	13	0	0	0	0	0	0	17
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Water	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Total	300	280	360	297	239	328	267	64	0	0	104	363	22	0	5	0	0	43	2669



Report 2 – Treatment Summary

Gladwin Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 26
Total Compartment Acres: 2,670

Commercial Harvest - 633
Harvests with Site Condition - 0
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	238	0	0	0	0	0	0	0	0	238
Mixed Upland Deciduous	0	0	0	22	5	0	0	0	0	27
Northern Hardwood	0	0	0	0	12	0	0	0	0	12
Oak	0	0	0	0	30	0	0	0	0	30
Red Pine	0	0	0	0	0	15	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	6	0	0	0	6
Total	238	0	0	22	47	21	0	0	0	327

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	327	0	0	0	0	0	0	16	0	343
Next Step	0	0	0	0	0	0	307	0	0	418
Total	327	0	0	0	0	0	307	0	16	761



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

1	73026001-Cut	59.6	4130 - Aspen	6	46	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Harvest the stand as a clearcut with retention. The retention should be in pockets. In addition, mark some of the oaks to be retained. The Specs: harvest should include the Gladwin grouse spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

15	73026015-Cut	12.3	4119 - Mixed Northern Hardwoods	6	51	111-140	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Cutting Record	No
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Prescription Harvest the stand as a shelterwood retaining 40 BA. The retention should favor oak, preferably white oak. The access is over a Specs: management easement the state has over the property to the west. The sale boundary will need to buffer the north branch of the

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium stocking of maple and oak

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

22	73026022-Cut	72.5	4130 - Aspen	6	54	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Harvest the stand as a clearcut with retention. The retention should be in pockets. Also, mark some of the healthier overstory oak for Specs: structural diversity. Include the Gladwin grouse spec

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31	73026031-Cut	11.3	4130 - Aspen	6	51	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Harvest the stand as a clearcut with retention. The retention should be the buffer along the North Branch of the Cedar River which is a trout stream. Grouse spec. should be used on the stand. The access is over private land using a management easement.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium stocking of aspen mixed with maple and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											
32	73026032-Cut	25.4	4130 - Aspen	6	51	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> harvest as a clear cut with retention. The retention is the buffer left along the North Branch of the Cedar River. Also, there are some wet areas that will need to be painted out so the acreage may be reduced significantly. Lastly add the grouse spec,.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium or better stocking of aspen mixed with oak and conifer.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											
55	73026055-Cut	21.7	4199 - Other Mixed Upland Deciduous	6	39	81-110	Harvest	Seed Tree	4199 - Other Mixed Upland Deciduous	Planting Record	No
<p><u>Prescription</u> Clearcut the stand to 2" and mark some of the oak retaining around 20 BA. These trees will need to be marked so they do not hinder the harvesting of the stand because it is on a slope. Some portions of the stand may need to be painted out because of stee</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium or better stocking of oak, maple, and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											
65	73026065-Cut	29.6	4126 - White, Black, N. Pin Oak	9	92	81-110	Harvest	Shelterwood	412 - Oak Types	Cutting Record	No
<p><u>Prescription</u> Harvest the stand as a shelterwood harvest, taking the BA down to 40. When marking the stand concentrate on the removal of aspen.</p> <p><u>Specs:</u> Include the oak wilt spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium stocking of oak mixed with aspen and maple</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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70	73026070-Cut	4.8	42110 - Planted Red Pine	6	46	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription The stand should be harvested by thinning down to 110 BA

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

78	73026078-Cut	9.2	4131 - Aspen, Oak	6	51	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription The stand should be clearcut and mark some groups of trees to break up the visual. Do not mark any trees to be retained within 60' of the clear portion of Meridith Grade. Use the Gladwin grouse spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

87	73026087-Cut	9.7	42110 - Planted Red Pine	6	64	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Mark the stand to be thinned removing a third of the volume. When the sale is marked rows will need to be made. Also, clear about 50' along Adams Road. Sell the red pine with stand 88.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

88	73026088-Cutx	6.1	4310 - Pine, Oak Mix	6	101	81-110	Harvest	Thinning	4319 - Mixed Upland Forest	Cutting Record	No
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Prescription Harvest the white pine taking the BA down to around 60. Clear a portion of the stand along Adams Road. Retain the XL white pine. Only about half the stand will need to be treated. Sell the pine with stand 87.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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98	73026098-Cut	24.5	4130 - Aspen	6	52	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Harvest the stand as a clear cut with retention. There are some areas that are lower and wetter that the retention could be used to protect.
Specs: Also, the boundary between stands 97 and 98 may change significantly when the sale boundaries are put in. In add

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of aspen, oak and maple

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

101	73026101-Cut	4.8	4199 - Other Mixed Upland Deciduous	6	52	81-110	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Cutting Record	No
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Prescription The stand should be harvested by removing aspen and birch. Then mark some hardwoods taking the BA down to 70 sq. ft. where needed.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium stocking of maple, oak, and aspen.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

112	73026112-Cut	35.6	4130 - Aspen	6	51	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Harvest as a clearcut with retention. There may be some retention placed to protect the vernal ponds. add grouse spec to sale
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium or better stocking of aspen

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
114 73026114-NF	1.2	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<p><u>Prescription</u> Preform WLD maintenance. <u>Specs:</u> <u>Next Step</u> Openings Mgmt., Grass/Forb Planting; Openings Mgmt., Herbicide; Openings Mgmt., Disking/Plowing; Openings Mgmt., Brush Mgmt.; <u>Treatments:</u> Openings Mgmt., Interseeding; Openings Mgmt., Other - Specify; Openings Mgmt., Mowing <u>Acceptable Regen:</u> <u>Other Comment:</u> Treatments may include: cultivating, planting of annual cover types, planting of perennial cover types, applications of lime, applications of herbicide and mowing. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>										
400 73026400-NF	4.6	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<p><u>Prescription</u> Preform WLD maintenance. <u>Specs:</u> <u>Next Step</u> Openings Mgmt., Grass/Forb Planting; Openings Mgmt., Herbicide; Openings Mgmt., Disking/Plowing; Openings Mgmt., Brush Mgmt.; <u>Treatments:</u> Openings Mgmt., Interseeding; Openings Mgmt., Other - Specify; Openings Mgmt., Mowing <u>Acceptable Regen:</u> <u>Other Comment:</u> Treatments may include: cultivating, planting of annual cover types, planting of perennial cover types, applications of lime, applications of herbicide and mowing. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>										
403 73026403-NF	7.0	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<p><u>Prescription</u> Preform WLD maintenance. <u>Specs:</u> <u>Next Step</u> Openings Mgmt., Grass/Forb Planting; Openings Mgmt., Herbicide; Openings Mgmt., Disking/Plowing; Openings Mgmt., Brush Mgmt.; <u>Treatments:</u> Openings Mgmt., Interseeding; Openings Mgmt., Other - Specify; Openings Mgmt., Mowing <u>Acceptable Regen:</u> <u>Other Comment:</u> Treatments may include: cultivating, planting of annual cover types, planting of perennial cover types, applications of lime, applications of herbicide and mowing. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
404 73026404-NF	3.1	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<p><u>Prescription</u> Preform WLD maintenance.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Openings Mgmt., Grass/Forb Planting; Openings Mgmt., Herbicide; Openings Mgmt., Disking/Plowing; Openings Mgmt., Brush Mgmt.; <u>Treatments:</u> Openings Mgmt., Interseeding; Openings Mgmt., Other - Specify; Openings Mgmt., Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Treatments may include: cultivating, planting of annual cover types, planting of perennial cover types, applications of lime, applications of herbicide and mowing.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										

Total Treatment 343
Acreage Proposed:

Report 4 – Site Conditions

Gladwin Mgt. Unit
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Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		2B	2I	5B	1C	2A	2F	2G	2H	3J	5E	
1295	1233	34	29	Aspen	34			1						10	17
4	4	0	0	Bog											
241	0	0	241	Cedar				7	14		220				
42	42	0	0	Herbaceous Openland											
20	20	0	0	Low-Density Trees											
36	12	0	24	Lowland Aspen/Balsam Poplar							2	23			
90	3	0	87	Lowland Conifers				12			73				2
71	3	0	68	Lowland Deciduous				22			46				
121	118	0	3	Lowland Shrub				0							3
15	15	0	0	Marsh											
220	214	7	0	Mixed Upland Deciduous		7									
47	12	0	35	Northern Hardwood					4			31			
254	169	66	19	Oak			66			19					
26	27	0	0	Red Pine											
31	31	0	0	Treed Bog											
11	5	6	0	Upland Mixed Forest			6								
2	2	0	0	Upland Shrub											
9	7	2	0	Urban			2								
31	31	0	0	Water											
2,570	1,948	115	506	Total Forested Acres	34	7	75	43	18	19	341	53	10	22	
	76%	4%	20%	Relative Percent											

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	120	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: North Branch Cedar River ; high priority trout steam. Riparian zone is a designated Special Conservation Area (SCA).							
9	Available	2B: Unknown if access through adjacent landowner(s) is possible	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland conifer swamp.							
12	Unavailable	1C: Other Dept. or Div. process	10	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Riparian buffer zone to the Cedar River; a designated cold water stream.							

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13	Unavailable	1C: Other Dept. or Div. process	10	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	Unspecified	Unspecified
Comments: Cedar River, Cold Water Stream 100 foot buffer required. 100 foot riparian buffer zone will engulf the majority of the stand.							
14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: North Branch Cedar River ; high priority trout steam. Riparian zone is a designated Special Conservation Area (SCA).							
15	Unavailable	2A: Adjacent landowner denied access	14	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There is a survey dispute between State survey and private survey. It is currently being looked into via the county remon. committee.							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	31	2B: Unknown if access through adjacent landowner(s) is possible	2C: Engineered bridge needed (Dept. portable bridge not available or inadequate)	Unspecified	Unspecified
Comments: Too wet in much of the stand.							

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19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	2B: Unknown if access through adjacent landowner(s) is possible	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2F: Too steep	19	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
Comments: The stand has very steep slopes around a very wet valley.							
25	Unavailable	2A: Adjacent landowner denied access	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was initially part of stand 12 but was carved out of the Cedar River Aspen (2010) as too wet to harvest.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	1C: Other Dept. or Div. process	12	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Stand along Cedar River a designated trout stream.							
31	Unavailable	1C: Other Dept. or Div. process	7	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Stand along Cedar River a designated trout stream.							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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34	Unavailable	1C: Other Dept. or Div. process	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Riparian buffer zone to the Cedar River; a designated cold water stream.							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was shelterwood harvested 12/16, as an addition to the MGR Mix sale 73-008-14-01.							
39	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	5E: Long-Term Retention	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	5E: Long-Term Retention	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff: Examiner

Compartment: 26
Year of Entry: 2028



54	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
55	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
56	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
1	4130 - Aspen	Poletimber Well	59.6	46	111-140	N/A	Stand is mostly poles. Some of them are just becoming log size. The terrain is rolling. It was cut after a large wildfire around 1979. The understory is heavy to red maple but there is also oak and white pine																																							
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2	4125 - Black, N. Pin Oak	Poletimber Medium	17.9	46	51-80	N/A	The stand was cut after a large wildfire around 1979. Oak are of poor quality. They have a lot of limbs and appear to be stunted. The soil is poor. The understory is seeding in with oak, but it is still sparse. The crown closure goes from 20 to 90% with an average around 70%.																																							
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3	4131 - Aspen, Oak	Sapling Well	14.0	26	1-50	N/A	The stand was clear cut in 1999. There was heavy deer browsed in pockets near the cedar swamp (stand 6). There is an old railroad grade the goes through the stand.																																							
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4	4199 - Other Mixed Upland Deciduous	Poletimber Well	79.9	46	81-110	N/A	The stand burned around 1979. It has become mostly poles. The stand is mainly on the northwest aspect of a Morine. Oak is growing mostly on the ridges. Terrain is steep in some of the areas to the west. Some of the aspen is just becoming log size. The stand has rolling terrain.																																							
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5	500 - Water	None	23.9			No	The stand is the North Branch of the Cedar River.																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
6	6120 - Lowland Cedar	Sawtimber Well	137.9	106	111-140	N/A	The stand has areas of cedar blow down. The cedar regeneration is in the jack strawed cedar. There are pockets of mixed hardwood scattered throughout as well as open areas full of downed wood. The crown closure goes from 10 to 100% with an average of around 80%. If the windthrow continues the crown closure will drop to 50 to 75% in the next 10 years.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		55	Pole/Log	8	106	Tag Alder		
Paper Birch		5	Pole/Sap/Log	8		Northern White Cedar		
Black/Red (Hybrid) Oak		3	Pole	6		Black Ash		
White Pine		20	XLog/Log/Pole	18		Green Ash		
Hemlock		5	Log/Pole	12		Balsam Fir		
Red Maple		10	Pole/Log	9		Red Maple		
Black Spruce		2	Pole/Sapling	6				
						Density		Avg. Height
							Size	
7	6112 - Lowland Aspen	Poletimber Well	22.5	46	51-80	N/A	The stand was habitat cut. It is a wet site with some slight ridges which are just dryer lowlands. There are some areas of blow-down. The balsam Fir understory is thick in areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		55	Pole	8	46	Northern White Cedar		
Paper Birch		20	Pole/Sapling	6		White Pine		
Balsam Poplar		15	Pole/Sapling	7	46	Balsam Fir		
Balsam Fir		5	Pole/Sapling	5				
White Pine		2	Pole/Sapling	5				
Black Spruce		3	Sapling/Pole	4				
						Density	Avg. Height	
							Size	
8	6220 - Alder/Willow	None	3.4			No	The stand is in a depression that is only slightly lower than stand 6. It is mainly alder with some swamp conifers and hardwoods. There is a raised trail along the east side.	
Sub-Canopy Species		Density	Avg. Height	Size				
Alder		High	5 - 10 feet	5 - 10 feet				
9	4130 - Aspen	Sapling Well	71.1	17	Immature	N/A	The stand is regenerating very well. It has excellent growth. The clear-cut occurred in 2009, in Cedar River Aspen, sale 73-015-07-01. The stand has a thick understory of red maple and shrubs.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		50	Sapling	3	17	Witch Hazel		
Black/Red (Hybrid) Oak		15	Sapling	2		Red Maple		
Red Maple		17	Sapling	2				
White Oak		3	Sapling	3				
Quaking Aspen		15	Sapling	3				
						Density	Avg. Height	
							Size	
10	6223 - Inundated Shrub Swamp	None	10.6			No	The stand is mainly wetlands with some sapling sized aspen and balsam fir in the western portion. There is a lot of standing water, and the ground cover is mainly cattails with a pocket of phragmites.	
11	330 - Low-Density Trees	None	1.2			No	The stand is an opening that is a mix of grass, shrubs, and trees. The crown closure is less than 15%.	
Sub-Canopy Species		Density	Avg. Height	Size				
Black/Red (Hybrid) Oak		Trace	>20 feet	>20 feet				
Scotch Pine		Trace	10 - 20 feet	10 - 20 feet				
Autumn Olive		Low	5 - 10 feet	5 - 10 feet				
White Pine		Trace	>20 feet	>20 feet				
Black Cherry		Trace	>20 feet	>20 feet				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
12	4131 - Aspen, Oak	Sapling Well	61.0	16	Immature	N/A	The stand was clear-cut in 2010, in Cedar River Aspen, sale 73-015-07-01. When it was harvested with a 100' buffer along the river. Also, some scattered mature oaks were retained, most of the oaks are located at the north end of the stand along the river. The mature oak adds diversity to this large area that is being managed for aspen. This is an excellent aspen site with excellent regeneration.																																																			
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13	6123 - Lowland Fir	Poletimber Well	48.6	60	111-140	N/A	The Stand Year of Origin was 1920. It is a thick swamp that is in a valley. The base is heavy to cedar and the slopes coming out of the valley are heavy to balsam fir and maple. There is significant windthrow in pockets along southeast edge. Factor limit: Too wet.																																																			
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14	4130 - Aspen	Sapling Medium	26.2	5	Unspecified	N/A	The Stand was cut in the spring/summer of 2021, in 3 lakes aspen, sale 73-014-18. It was accessed through the private landowner to the south. It has rolling topography. The regeneration is patchy and the crown closure goes from 10 to 100% with an average around 60%.																																																			
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15	4119 - Mixed Northern Hardwoods	Poletimber Well	12.3	51	111-140	N/A	The stand has rolling hills with scattered low pockets. Limited access over private land to the west. There is some birch mortality.																																																			
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16	411 - Northern Hardwood	Poletimber Well	4.2	105	81-110	N/A	There is no access except across the Cedar River. The landowner to the north has denied access in the past. State land does not go all the way to the road. Very minimal acreage.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
17	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.8	115	81-110	N/A	The stand has significant blowdown. It is a mix of cedar and tamarack mainly with some hardwoods. The cedar and tamarack are in pockets.																																						
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18	622 - Lowland Shrub	None	16.9			No	The stand is low and wet. It has a low density of trees making up less than 25% crown closure. It looks like a treed bog but without the bog type ground cover.																																						
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19	6120 - Lowland Cedar	Poletimber Well	13.6	115	81-110	N/A	There are some pockets of blow down. It is on the floodplain of the north branch of the Cedar River. The trees are a mix of cedar, balsam fir, tamarack, and maple with some large white pine.																																						
20	6220 - Alder/Willow	None	21.1			No	The stand is a riparian zone of the North Branch Cedar River.																																						
21	4130 - Aspen	Sapling Well	101.1	7	Immature	N/A	The stand is well stocked. There are scattered residual mature oaks throughout the stand. It was harvested to even out the age class distribution of aspen within the compartment. It was harvested in 2019, in Shaw Rd. Harvest, sale 73-009-18.																																						
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22	4130 - Aspen	Poletimber Well	72.5	54	111-140	N/A	There are scattered mature oaks throughout the stand. The stand should be harvested to even out the age class distribution. The terrain is undulating.																																						
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23	6220 - Alder/Willow	None	12.3			No	The stand is mainly in a depression that is heavy to lowland shrubs. There is some dryer ground around the edges.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
24	4123 - Red Oak	Sawtimber Well	21.0	103	81-110	N/A	Parts of the stand are very steep, having 35 to 40% slopes. Two valleys in stand that lead down to a cedar swamp that is the head waters to the cedar river. Stand is adjacent to "Trout Lake State Forest Campground." Possibly no treatment due do; 1) proximity to campground: 2) steep slopes: 3) proximity to the head waters of the cedar river.																																						
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25	4130 - Aspen	Sapling Well	7.6	22	1-50	N/A	The stand was clear cut in 2004. The regeneration is thick and starting to move into poles.																																						
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26	330 - Low-Density Trees	None	1.3			No	This was an Aspen clear cut in 1998 in Streaked Lake Knobs, 73-029-97. . It appears to have failed. Possibly due to the adjacent cedar stand serving as thermo-cover to deer browsing the stand down in winter. Balsam fir is starting to seed into the stand from stand 36. The crown closure is getting close to 25%.																																						
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27	4131 - Aspen, Oak	Poletimber Well	20.5	28	1-50	N/A	The stand was clear-cut in 1998 in Blue Lake Access, sale 73-032-97-01. It is now moving into poles.																																						
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28	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	11.8	91	1-50	N/A	The stand is part of a Riparian buffer to the North Branch Cedar River. There is significant windthrow in the north portion of the stand. A few higher knolls but mostly it is on the flood plain. Access is limited.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
29	4131 - Aspen, Oak	Poletimber Well	34.9	37	51-80	N/A	The stand was clear cut in 1989 in Brighton Dam Crossing, sale 73-002-88. It has excellent growth. The southern edge has a higher percentage of oak.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		62	Pole/Sapling	6	37	Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		20	Sapling/Pole	4		Low		
Paper Birch		5	Sapling/Pole	4		High		
Red Maple		10	Sapling/Pole	4		>20 feet		
White Pine		1	Pole/Log/Sap	7		>20 feet		
White Oak		2	Sapling/Pole	3				
30	4131 - Aspen, Oak	Poletimber Well	27.7	37	111-140	N/A	The stand was clear cut in 1989 in Brighton Dam Crossing, sale 73-002-88. Some Bigtooth aspen are showing signs of decadences due to offsite growth in wetter areas. Beavers are impacting the stand near the river. There are some wet depressions. Around the depressions and on the slopes near the floodplain there is windthrow.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black/Red (Hybrid) Oak		25	Pole/Sapling	6		Black/Red (Hybrid) Oak		
Bigtooth Aspen		50	Pole/Sapling	7	37	Red Maple		
White Oak		2	Sapling/Pole	4		Medium		
Red Maple		10	Pole/Sapling	5		Low		
Quaking Aspen		13	Pole/Sapling	7	37	5 - 10 feet		
31	4130 - Aspen	Poletimber Well	14.2	51	111-140	N/A	The stand has some very steep slopes in places, especially along the river and along stand 18. It is mostly pole sized aspen with some small logs. The oak in the stand is concentrated along the river because of beaver activity. There is a significant amount of autumn olive along the east side.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black/Red (Hybrid) Oak		10	Pole/Log	8		Balsam Fir		
Red Maple		22	Pole/Log	8		Trace		
Bigtooth Aspen		45	Pole/Log	8	51	Medium		
Quaking Aspen		20	Pole/Log	8		>20 feet		
White Oak		1	Pole/Log	8		>20 feet		
32	4130 - Aspen	Poletimber Well	32.8	51	111-140	N/A	There is a 100-foot riparian buffer zone of the North Branch Cedar River along the western edge of the stand. Several vernal ponds and drains are scattered throughout. The stand is about 55% upland.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		8	Log/Pole/Sap	10		Balsam Fir		
Red Pine		1	Log/Pole	10		Medium		
Red Maple		15	Pole/Log	8		Low		
Quaking Aspen		25	Pole/Log/Sap	8	51	10 - 20 feet		
Bigtooth Aspen		40	Pole/Log/Sap	8	51	High		
Black/Red (Hybrid) Oak		10	Log/Pole	12		10 - 20 feet		
33	6120 - Lowland Cedar	Poletimber Well	23.8	100	111-140	N/A	The Stand Year Origin was 1926. Most of it is a true swamp and very wet. There is blow-down of cedar throughout the stand. There are some slight ridges and knobs that are heavy to maple. The cedar regeneration can only be found in the jack strawed blow down.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		60	Pole/Log	7	100	Red Maple		
Red Maple		25	Pole/Sap/Log	5		Medium		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
34	4131 - Aspen, Oak	Sapling Well	20.8	14	Immature	N/A	The stand was clear cut in the fall of 2011, in MGR Aspen, sale 73-002-11-01. It has regenerated well overall but there are some areas that have a lower crown closure along the lowland from deer browse.																																												
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35	4319 - Mixed Upland Forest	Sapling Poor	4.6	28	1-50	N/A	The stand was final harvested in 1998 in Streaked Lake Knobs, 73-029-97. The regeneration of aspen was poor. It has heavy deer browse to the aspen and oak. There are a few pockets of aspen. There is also some beaver damage along the lowlands. The stand is slowly filling in with conifer and oak. The crown closure is now a little above 50%. The stand is currently transitioning to poles.																																												
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36	6120 - Lowland Cedar	Poletimber Well	58.3	106	111-140	N/A	The stand has numerous springs that are part of the headwaters of the North Branch Cedar River. There are some slight ridges that have more hardwoods. There is significant mortality in the birch and balsam fir. There are several areas of windthrow.																																												
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37	500 - Water	None	1.8			No	This is Streaked Lake.																																												
38	4131 - Aspen, Oak	Sapling Well	11.6	28	1-50	N/A	The stand was final harvested in 1998 in Streaked Lake Knobs, 73-029-97. The ground has some lower areas that are wetter. Overall, the stand is starting to transition into poles.																																												
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39	4123 - Red Oak	Sapling Medium	4.4	28	1-50	N/A	The stand was clear cut in 1998 in Streaked Lake Knobs, 73-029-97. The initial regeneration is poor, but it is now filling in with conifer and oak. The crown closure goes from 0 to 100% with an average around 55%																																																							
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40	4125 - Black, N. Pin Oak	Sawtimber Well	3.0	103	81-110	N/A	The stand was partially harvested in 1998. In the cut, all aspen, birch and marked oak and maple were removed. It is adjacent to Trout Lake State Forest Campground. The crown closure is closer to 75%. There is some mortality in the overstory.																																																							
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41	4130 - Aspen	Poletimber Medium	9.7	28	81-110	N/A	The stand was final harvested in 1998 in Cedar Crossing, sale 73-033-97. It is thicker to aspen in the north three quarters. The southern quarter has some aspen feathering in, but oak, spruce and white pine predominate. The beavers have thinned out the stand along the river.																																																							
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42	622 - Lowland Shrub	None	4.6			No	This is a depression that is heavy to alder and dogwood. The edges have some tamarack and white pine.																																																							
43	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	3.3	12	Immature	N/A	The stand was harvested in Pfenninger Hardwood Sale, 73-002-04. The stand has a creek flowing through it and several springs starting in it. The stand has seeded in with tamaracks significantly in the last 10 years.																																																							
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44	4134 - Aspen, Spruce/Fir	Sapling Medium	3.5	28	1-50	N/A	The stand was final harvested in 1998 in Cedar Crossing, sale 73-033-97. It has filled in with balsam fir in the open areas. The crown closure is around 80% with some areas that are sparse.																																						
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45	6220 - Alder/Willow	None	1.2			No	This is part of the floodplain. It is mainly alder.																																						
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46	6224 - Treed Bog	None	31.3			No	The stand is a treed bog with tamarack, black spruce and white pine. The trees are moving in to poles and are on slightly higher ground than the areas of leather leaf, lowland shrubs, and marsh grass.																																						
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47	4125 - Black, N. Pin Oak	Poletimber Poor	7.0	59	1-50	N/A	The stand was harvested in April of 2020 in Shaw Road Harvest, sale 73-009-18. The harvest removed the aspen, maple, and marked oak.																																						
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48	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.2	106	51-80	N/A	The stand was partially harvested in 1989 and again in 1997. Lastly it was harvested in April 2020 and had a residual of 68 BA. The sale was Shaw Rd. Harvest sale 73-009-18. It has high quality red oak sawlogs. The stand is regenerating. The crown closure is around 80%.																																						
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49	4131 - Aspen, Oak	Sapling Well	37.5	16	Immature	N/A	This is an excellent aspen site with high density aspen regeneration. It was clear-cut in 2010, in Cedar River Aspen, sale 73-015-07-01. A few scattered mature oaks were left standing. The regeneration is mainly aspen but there are pockets of oak and maple.																																						
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50	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	13.2	54	81-110	N/A	Most of the stand is part of the riparian zone to North Branch Cedar River. It was part of stand 12 when it was initially prescribed for harvest but was cut out of the Cedar River Aspen (2010) sale as it was too wet to harvest. Factor limited - Too wet.																																																						
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51	6233 - Wet Meadow	None	1.1			No	The stand is a depression that is more like a wet meadow after a beaver dam has breached.																																																						
52	6220 - Alder/Willow	None	18.9			No	This stand is part of the North Branch Cedar River bottom lands. It is mainly lowland shrub. There are places where white cedar was planted.																																																						
53	4119 - Mixed Northern Hardwoods	Poletimber Medium	30.8	106	51-80	N/A	The Stand Year Origin was 1920. Aspen and birch are showing signs of decline. There are some vernal ponds. Otherwise, it is a healthy mature stand. The crown closure is around 90%, if you could include the tall understory. However, the crown closure is around 70%.																																																						
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54	4131 - Aspen, Oak	Sapling Well	8.8	14	Immature	N/A	The stand was clear cut in fall of 2011, in MGR Aspen, sale 73-002-11-01.																																																						
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55	4199 - Other Mixed Upland Deciduous	Poletimber Well	21.7	39	81-110	N/A	The stand had a real estate cut 39 years ago. There are more XL sized aspens in the stand which is hilly. Most of the aspen is in the western third of the stand. The stand is two aged. It has an older oak over-story of log to XL log sized timber varying from 10 to 40 BA in places.																																																						
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56	4130 - Aspen	Sapling Well	19.9	4	Immature	N/A	The stand was harvested in Corlew Oak Aspen. It was completed in the Summer/Fall of 2021. It has regenerated well. There are more open areas than in stand 58. The terrain is fairly level.																																																															
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57	6112 - Lowland Aspen	Poletimber Well	1.9	46	81-110	N/A	The stand is in a depression and there is a spring in it. It appears to have been left because of steep slopes and the wet base when stand 9 was harvested.																																																															
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58	4130 - Aspen	Sapling Well	78.8	4	Unspecified	N/A	The stand was cut in Corlew Oak Aspen in the Summer/Fall of 2021. The crown closure goes from 10 to 100% with an average around 85%. The oak regeneration is not established.																																																															
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59	4131 - Aspen, Oak	Poletimber Well	8.8	39	51-80	N/A	The stand is just starting to become a pole stand. The terrain is undulating and it is situated in a draw between two hills.																																																															
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60	122 - Road/Parking Lot	None	5.8			No	Meredith Grade road and Road ROW																																																															



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61	4136 - Aspen, Mixed Conifer	Poletimber Well	8.3	51	81-110	N/A	This stand is the retention left when the sale 3 Lakes Aspen, sale 73-014-18 was harvested. There has been some windthrow, but the crown closure has not dropped to below 75%.																																																															
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62	4131 - Aspen, Oak	Sapling Well	62.0	11	Immature	N/A	The stand was harvested in the Fall of 2015 in MGR Mix, sale 73-018-14-01. FTP C73-963 to trench and interplant to red pine was cancelled due to the amount of natural regeneration. The oak is becoming established and is in pockets. The crown closure goes from 20 to 100% with an average around 85%. The aspen is in the southern 2/3 of the stand.																																																															
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63	4123 - Red Oak	Sawtimber Poor	9.6	92	51-80	N/A	The stand was treated in the Fall of 2015 as a part of MGR Mix, sale 73-018-14-01. The cut was a shelterwood harvest. The volume was reduced to around 60 BA. The retention was mostly oak with some red maple for variability. The crown closure is around 75%. The terrain is rolling.																																																															
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64	4126 - White, Black, N. Pin Oak	Sapling Well	10.1	28	1-50	N/A	The stand is variable. The west side has more red maple, red oak, and choke cherry. Stumps sprouts are more common. The east side has more white oak, red oak, hybrid oak; this is mixed with red maple stump sprouts. There are more single stems in the eastern end. The terrain is generally flat.																																																															
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65	4126 - White, Black, N. Pin Oak	Sawtimber Well	29.6	92	81-110	N/A	The stand appears to have had the red maple removed about 27 years ago. The terrain is rolling. The aspen is declining. The red maple in the stand is mainly of stump sprout origin. There is some mortality in the overstory.																																														
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66	4199 - Other Mixed Upland Deciduous	Sapling Well	4.9	34	51-80	N/A	When the stand was harvested some oaks were left. The regeneration is mainly stump sprout maple, but there are some oak and aspen. The maple and aspen are transitioning into poles.																																														
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67	4124 - Red with White Oak	Sawtimber Well	21.3	100	81-110	N/A	The stand had the aspen removed as well as marked oak and maple. The sale retained around 70 sq ft. The harvest was completed in 2008 in Meredith Oak, sale 73-006-04-01. The crown closure is greater than 75%. There is some mortality in the top of the oaks. The terrain is undulating to rolling. The poles and sawlogs are the same age.																																														
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68	4124 - Red with White Oak	Sawtimber Medium	21.8	100	51-80	N/A	The terrain is rolling. The stand was shelterwood harvested in 2016. The harvest retained around 60 sq ft. The sale was MGR Mix sale, 73-018-14-01. Currently the regeneration is stump sprout maple, choke cherry, and some conifer. The oak regeneration is present, but it is less than 5' tall so it is not established.																																														
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69	4131 - Aspen, Oak	Sapling Well	32.5	26	1-50	N/A	The stand had the dead oak harvested. It was set up in patches that were sold separately over several years. It was harvested again to 4" DBH retaining all red and white pine. The pine species makes up less than 10 sq. ft. The crown closure is around 85%. This harvest was completed in 2006. The sale was Meredith Oak, sale 73-006-04-01. The density is variable. The aspen is in pockets. There are areas of dense oak and red maple as well as areas that have only a medium stocking.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
70	42110 - Planted Red Pine	Poletimber Well	4.8	46	141-170	N/A	This is a red pine plantation along Meredith Grade. There are some crown openings in the stand. There is a trace of black cherry, choke cherry, and maple present. It was harvested in 2018, which stimulated maple regeneration in the eastern portion of the stand and oak west.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Pole/Log	9	46	Red Maple		Medium	5 - 10 feet	5 - 10 feet
						Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet	
71	3102 - Grass	None	2.9			Yes	This stand is the Leota Trail Head Parking Lot for the snowmobile trail.			
72	4130 - Aspen	Poletimber Well	6.1	51	81-110	N/A	The stand was harvested in 3 Lakes Aspen, sale 73-014-18. The stand is made up of draws that were painted out of stand 139 when it was harvested as well as pockets that were left. There is some windthrow in areas. The crown closure is around 75%.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		85	Pole/Sapling	6	51	Balsam Fir		Medium	Variable	Variable
						Red Maple	5	Pole/Sapling	5	
						Red Oak	10	Pole/Sap/Log	5	
						Deciduous Shrubs	Low	5 - 10 feet	5 - 10 feet	
73	4131 - Aspen, Oak	Poletimber Well	9.1	48	1-50	N/A	The crown closure goes from 30 to 100% with an average around 80%. The oak is not ready to be harvested, but the aspen is. The aspen is located more in the center of the stand. The stand was harvested in 1985 in Fire Scar, 73-038-84.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	6		Witch Hazel		Low	5 - 10 feet	5 - 10 feet
						Bigtooth Aspen	45	Pole	8	48
						White Oak	10	Pole/Sapling	7	
						Black/Red (Hybrid) Oak	35	Pole/Sapling	7	
						Serviceberry (Juneberry)	Medium	Variable	Variable	
74	4131 - Aspen, Oak	Sapling Well	8.0	20	Immature	N/A	The stand was final harvested to 2" DBH. The harvest took place during the dormancy period in 2004. The sale was Barrel Aspen, sale 73-004-04-01. The aspen regeneration is heaviest in the central portion of the stand. The edges are less dense but have a greater percentage of oak and maple.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak		10	Sapling	2		Black/Red (Hybrid) Oak		Full	5 - 10 feet	5 - 10 feet
						Bigtooth Aspen	75	Sapling/Pole	3	20
						Red Maple	5	Sapling	3	
						Black/Red (Hybrid) Oak	10	Sapling	2	
						Witch Hazel	Medium	5 - 10 feet	5 - 10 feet	
						Red Maple	Medium	5 - 10 feet	5 - 10 feet	
75	4139 - Aspen, Mixed Deciduous	Sapling Well	63.0	11	1-50	N/A	The stand was harvested as a seed tree in the Summer/Fall 2015. The harvest retained around 30 Sq. ft. The sale was MGR Mix, sale 73-018-14-01. The retention favored oak, white pine, and red pine. There was a red pine pocket that was thinned down to about 100 BA. The regeneration has come in well and is heavy to aspen with pockets of pine and oak. The oak is also scattered throughout the stand.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black/Red (Hybrid) Oak		3	Log/XLog	16	100					
Red Pine		10	Log/Pole/XLog	10	68					
White Pine		5	Log/Pole/XLog	11						
Bigtooth Aspen		52	Sapling	1	11					
Red Maple		15	Sapling	1						
Black/Red (Hybrid) Oak		10	Sapling	1						
Choke Cherry		5	Sapling	1						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
76	6239 - Mixed Emergent Wetland	None	3.9			No	The stand is heavy with cattails and water. The edges are tag alder and willow					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
								Cattail spp.	High	Not Applicable	Not Applicable	
Willow spp.	Low	5 - 10 feet	5 - 10 feet									
77	4130 - Aspen	Sapling Well	18.0	22	1-50	N/A	The stand had the dead oak removed in 1994, in Meredith Grade Oak, sale 73-038-94-01. The stand was also harvested in 2008, in the Meredith Oak sale 73-006-04-01. In that sale, the aspens, red maples, and marked oaks were harvested retaining 30-40 BA. The current crown closure is around 80%. The oak that was retained is now declining.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	5	Sapling/Pole	4	
								White Oak	5	Log/Pole	12	
								Black Cherry	2	Sapling/Pole	3	
								Red Maple	15	Sapling	2	
								Bigtooth Aspen	20	Sapling	3	
								Quaking Aspen	40	Sapling	3	22
								Black/Red (Hybrid) Oak	8	Log/Pole/XLog	14	101
								Red Pine	5	Pole/Log	9	
								78	4131 - Aspen, Oak	Poletimber Well	9.2	51
Canopy Species	% Cover	Size Class	DBH	Age								
Black/Red (Hybrid) Oak	30	Pole/Sapling	7									
Red Maple	10	Pole/Sapling	6									
Bigtooth Aspen	55	Pole/Log	9	51								
White Oak	5	Pole/Sapling	5									
79	4125 - Black, N. Pin Oak	Poletimber Well	8.5	34	51-80	N/A	This stand was harvested as a 4" DBH final harvest. These trees are now larger poles and make up around 30% of the crown closure. The harvest was done in 1997 in the Meredith Salvage, sale 73-005-97-01. The current crown closure is around 90%.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black/Red (Hybrid) Oak	70	Pole/Sapling	5	34
								Red Maple	15	Pole/Sapling	5	
								White Oak	15	Pole/Sapling	5	
80	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	22.8	33	51-80	N/A	This stand was harvested as a 4" final harvest. It was completed in 1994. The sale was S. Meredith Salvage, sale 73-079-92-01. The stand has regenerated and currently has a crown closure of around 85%. White pine grades from poles/logs in the east to saps west. Aspen is heavier in the east and oaks in the west.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	20	Pole/Sapling	6	
								White Pine	20	Log/Pole/Sap	11	
								Black/Red (Hybrid) Oak	20	Pole/Sapling	5	33
								White Oak	13	Pole/Sapling	5	
								Red Maple	20	Pole/Sapling	5	
Sub-Canopy Species	Density	Avg. Height	Size									
Serviceberry (Juneberry)	Medium	Variable	Variable									
Red Maple	Medium	10 - 20 feet	10 - 20 feet									
Deciduous Shrubs	Medium	5 - 10 feet	5 - 10 feet									



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81	42110 - Planted Red Pine	Poletimber Well	6.8	44	111-140	N/A	The plantation has some scattered oaks in it. The diameter of the oaks goes from 4 to 16" DBH. The stand was thinned in 2018. It is sparse west with only around 80 sq. ft. and to the west it is around 140 sq. ft. There is the encroachment of oak and maple regeneration along the edges.																																																												
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82	4199 - Other Mixed Upland Deciduous	Sapling Well	28.1	20	1-50	N/A	The stand was harvested in Meredith Oak, sale 73-006-04-01, in 2006. It was set up as a seed tree harvest, retaining around 30 BA. The stand has small pockets of planted red pine. The residual oak is starting to decline. The crown closure is around 95%.																																																												
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83	330 - Low-Density Trees	None	7.5			No	Open grown stand with patches of red maple and cherry. This stand was prescribed to be planted to red pine. Planting was dropped through variance process.																																																												
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84	3303 - Mixed Low Density Trees	None	10.3			No	The stand crown closure goes from 0 to 50% with an average just below 25%.																																																												
85	4125 - Black, N. Pin Oak	Poletimber Well	18.8	42	81-110	N/A	The stand had the dead oak removed in 1993, in sale 73-080-92-02. It was also harvested in Meredith Oak, sale 73-006-04-01 in 2006. This harvest was a 4" final harvest retaining all the white oaks, red pines, and white pines. The residual in the stand is just becoming poles. The aspen is in pockets and there is thick oak regeneration in the larger canopy gaps. There is some mortality in the oaks.																																																												
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86	4199 - Other Mixed Upland Deciduous	Sapling Well	41.3	22	1-50	N/A	The stand had the dead oak removed in 1993, in sale 73-080-92-02. It was also harvested in Meredith Oak, sale 73-006-04-01 in 2006. This sale was a 4" final harvest retaining all the white oak, red pine, and white pine. The stand is quite variable.																																																
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87	42110 - Planted Red Pine	Poletimber Well	9.7	64	171-200	N/A	The stand was harvested in 1996 by removing all trees but pine. It was cut in Adams Road Medley, sale 73-050-94-01. The rows in the stand are not straight.																																																
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88	4310 - Pine, Oak Mix	Poletimber Well	12.5	101	81-110	N/A	The stand had the dead oak salvaged in 1992. The stand was harvested in 1996 by removing all trees but pine. It has a larger white pine component. It was cut in Adams Rd. Medley, sale 73-050-94-01. Part of the stand burned in 2012 resetting much of the regeneration. The hardwoods have regenerated well.																																																
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Black/Red (Hybrid) Oak	25	Sapling	2	14																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Deciduous Shrubs	Medium	5 - 10 feet	5 - 10 feet																																																				
89	4130 - Aspen	Sapling Well	5.7	30	1-50	N/A	The stand was harvested in 1996. It has a larger component of hardwoods. It was cut in Adams Rd. Medley, sale 73-050-94-01. It is starting to transition into a pole stand. The stand is currently self-thinning. There are a couple of areas that are wetter.																																																
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90	4131 - Aspen, Oak	Sapling Well	37.7	22	1-50	N/A	The stand was final harvested to 2" DBH. It was harvested during the dormancy period in 2004. The sale was Barrel Aspen, sale 73-004-04-01. The stand is a matrix of uplands and lowlands with the lowlands being about 25%. Most of the wet ground is found in the central portion of the stand. The terrain is hummocky.																																																
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91	6229 - Mixed Lowland Shrub	None	9.3			No	The stand is a draw that goes from marsh at the north end to alder in the south.																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
92	4130 - Aspen	Poletimber Well	31.9	41	51-80	N/A	The stand is just coming into poles. The terrain is hummocky to undulating. It is a matrix of uplands and lowlands with the uplands being around 80%. There is a drainage (Stand 91) going through the central portion of the stand. The stand was harvested in 1985 in Phantom Block sale 73-035-84	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black/Red (Hybrid) Oak		10	Sapling/Pole	4		Deciduous Shrubs		
Quaking Aspen		25	Pole/Sapling	6	41	Medium		
Red Maple		15	Pole/Sapling	5		5 - 10 feet		
Paper Birch		5	Sapling/Pole	4		Low		
Bigtooth Aspen		45	Pole/Sapling	7	41	5 - 10 feet		
93	110 - Low Intensity Urban	None	7.9			No	Over head power line.	
94	4130 - Aspen	Sapling Well	14.3	18	1-50	N/A	The stand was final harvested to 2" DBH. In addition, all white pines less than or equal to 4" were retained. The harvest was completed in July of 2004. The sale was Barrel Aspen, sale 73-004-04-01. The current crown closure is 90%. The stand is along M-18. It has regenerated well. There are some sparse areas along M-18 and in the north end.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		45	Sapling/Pole	4	18	Common Blackberry		
Quaking Aspen		25	Sapling/Pole	3		Medium		
Choke Cherry		2	Sapling	2		< 5 feet		
Black/Red (Hybrid) Oak		8	Sapling	2		Serviceberry (Juneberry)		
White Pine		2	Pole/Sapling	5		Low		
95	4129 - Mixed Oak	Poletimber Well	16.3	95	1-50	N/A	The stand was harvested in the Meredith Oak, sale 73-006-04-01. It was a species removal of aspen and red maple. The harvest was completed in 2009. The crown closure is around 60%.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		2	Sapling/Pole	3		Serviceberry (Juneberry)		
Black/Red (Hybrid) Oak		15	Log/XLog	14	95	Low		
White Oak		20	Log/XLog	15		Medium		
Red Oak		3	Sapling	2		Variable		
White Oak		2	Sapling	2		Variable		
Bigtooth Aspen		10	Sapling	2	17	5 - 10 feet		
Red Maple		8	Sapling	2		Witch Hazel		
White Pine		10	Pole/Sap/Log	8		Low		
Red Oak		30	Log/XLog/Pole	14	95	5 - 10 feet		
96	4130 - Aspen	Sapling Well	5.5	22	Unspecified	N/A	The stand was final harvested to 2" DBH. The harvest was completed in July 2004. The sale was Barrel Aspen, sale 73-004-04-01.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		55	Sapling	2	22	Common Blackberry		
White Oak		5	Sapling	2		Medium		
Bigtooth Aspen		15	Sapling	2		Sweet Fern		
Red Maple		10	Sapling	2		Low		
Balsam Fir		5	Sapling	2		5 - 10 feet		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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97 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 16.4 95 81-110 N/A

The stand is a matrix of uplands and lowlands with the lowlands being about 65%. It consists of a drainage along the west side and wet depressions. It has standing water seasonally in the stand. The terrain is hummocky. The stand is too wet to harvest overall. The conifer is concentrated along the west drainage. The ash is dead and down along with most of the aspens.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole/Sap	10	95	Balsam Fir	Medium	Variable	Variable
Balsam Fir	20	Pole/Sapling	5		White Pine	Low	Variable	Variable
Northern White Cedar	15	Pole/Log	9		Deciduous Shrubs	Full	5 - 10 feet	5 - 10 feet
White Pine	5	Pole/Log/Sap	9					
Quaking Aspen	5	Pole/Log	7					
Black/Red (Hybrid) Oak	10	Log/Pole/XLog	12					

98 4130 - Aspen Poletimber Well 24.5 52 111-140 N/A

The terrain is undulating. The white pine in the stand is scattered. The red pine is an old plantation that is less than 1 acre in size at the north end. The oak is patchy. The stand has some low wet pockets.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Pole/Sap/Log	9		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	55	Pole/Sap/Log	9	52	Deciduous Shrubs	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	10	Pole/Sap/Log	8	52	Red Maple	High	Variable	Variable
Red Pine	3	Pole/Log	9		White Pine	Full	5 - 10 feet	5 - 10 feet
White Pine	5	Log/Pole/XLog	16					
Red Maple	15	Pole/Sap/Log	8					
White Oak	2	Log/Pole	10					

99 42110 - Planted Red Pine Poletimber Well 5.2 67 111-140 N/A

The stand was harvested by a third row thinning as well as a hardwood removal. The open areas have regenerated into a mixture of red maple and oak. Red maple has regenerated throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	90	Pole/Log	9	67	Red Maple	Full	>20 feet	>20 feet
Black/Red (Hybrid) Oak	5	Log/XLog	12		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	2	Sapling	2		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	2	Sapling	4		White Oak	Trace	10 - 20 feet	10 - 20 feet
Black Cherry	1	Pole	6					

100 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 11.4 101 81-110 N/A

The stand is a matrix of uplands and lowlands with the lowlands being about 70%. The uplands are marginal. There is evidence of a high-water table throughout the stand. The terrain is hummocky. There is significant windthrow. The ash is dead and down and the aspen has declined. The stand has been site conditioned as too wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/Pole	12		Balsam Fir	High	Variable	Variable
White Oak	5	Log/Pole	12		Deciduous Shrubs	Medium	5 - 10 feet	5 - 10 feet
Balsam Poplar	10	Pole	7		Red Maple	Medium	Variable	Variable
Quaking Aspen	5	Log/Pole	10		Green Ash	Medium	5 - 10 feet	5 - 10 feet
Red Maple	45	Log/Pole	12	101				
White Pine	5	Log/XLog	15					
Balsam Fir	15	Pole/Sap/Log	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
101	4199 - Other Mixed Upland Deciduous	Poletimber Well	4.8	52	81-110	N/A	The terrain is hummocky. The understory is dominated by balsam fir. Some of the canopy is beginning to see balsam fir feathering in as well. There is around 30% lowland and much of the uplands is just dry enough to be called uplands.																																											
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Balsam Fir	High	Variable	Variable																																															
102	310 - Herbaceous Openland	None	4.5			No	This is a power line and ROW for M-18.																																											
103	4123 - Red Oak	Sawtimber Well	5.2	101	51-80	N/A	The terrain is undulating. The oak is patchy. The stand has some low wet pockets. There is some mortality in the overstory, and the crown closure is around 75%. The openings created by the harvest have been seeded in with oak and maple. The stand was harvested in Meridith Oak, sale 73-006-04 which was completed in 2009.																																											
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104	4130 - Aspen	Sapling Well	3.0	22	1-50	N/A	The stand was final harvested to 2" DBH. The harvest was completed in November 2004. The sale was Barrel Aspen, sale #73-004-04-01. The terrain slopes down going north. There is a drainage in the northern portion of the stand. There are some areas where the regeneration is sparse but overall, it is fully stocked.																																											
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105	4130 - Aspen	Poletimber Well	9.5	42	111-140	N/A	The terrain slopes down going north. There are pockets that are lower and wetter, but the stand is upland overall.																																											
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106	6239 - Mixed Emergent Wetland	None	3.8			No	The stand is in a swale. The center is more of a marsh type, and the edges have lowland shrubs.																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
107	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	5.0	94	1-50	N/A	This is a very wet stand. The stand has minor upland pockets as well as pockets of lowland shrubs and cattails. The crown closure goes from 10% up to 100% with an average of around 35%. Factor limit as too wet.																																										
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Cattail spp.	Low	Not Applicable	Not Applicable																																														
Tag Alder	Medium	5 - 10 feet	5 - 10 feet																																														
108	3105 - Mixed Upland Herbaceous	None	12.9			No	This is an overhead utility power line and a DTE Energy gas pipeline. The terrain is undulating to rolling.																																										
109	622 - Lowland Shrub	None	1.1			No	The stand is in a well-defined depression.																																										
110	6225 - Bog	None	2.4			No	This is a leather leaf bog with a lot of standing water present. Portions of the stand are dominated by marsh grass and the perimeter has alder.																																										
111	623 - Emergent Wetland	None	1.4			No	This stand is in a depression dominated by marsh grass. There are pockets of leather leaf and the perimeter is alder.																																										
112	4130 - Aspen	Poletimber Well	35.6	51	111-140	N/A	The stand is now a well-stocked pole stand overall. There is a heavy density of red maple saplings. The white ash is heavily infested with EAB. The terrain is rolling. There are some vernal ponds present in the stand.																																										
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113	622 - Lowland Shrub	None	1.1			No	The stand is in a depression that is slightly lower than stand 160.																																										
114	310 - Herbaceous Openland	None	1.2			Yes	Managed Wildlife Division opening.																																										
115	6223 - Inundated Shrub Swamp	None	10.0			No	This is an old beaver flooding. It is still holding some water. The predominate species is cattails. However, there is a pocket of phragmites.																																										
116	310 - Herbaceous Openland	None	5.3			No	The stand is a DTE buried gas pipeline. The ground cover goes from lowland shrub to open herbaceous.																																										
117	3202 - Autumn Olive/Honeysuckle	None	2.2			No	This is an autumn olive planting. The other species in the stand are some blackberries and raspberries.																																										
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118	4130 - Aspen	Poletimber Well	32.1	31	81-110	N/A	This stand was final harvested in 1996 in Power Line Aspen, sale 73-051-95-01. There are some paper birch in pockets. It is in the lower ground. The terrain is generally flat.																																										
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119	6233 - Wet Meadow	None	4.6			No	The stand looks like an old beaver flooding that the dam has gone out on. The area now looks to be a wet meadow. Some paper birch and ash are starting to fill in.																																										
120	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.5	137	51-80	N/A	Terrain is hummocky and wet. Stand is factor limited as too wet.																																										
121	4130 - Aspen	Poletimber Well	21.6	53	81-110	N/A	IFMAP notes from four years ago: The terrain is rolling. Currently the aspen is going through a natural thinning. There is a lot of down woody material present. Some of the swales contain vernal ponds.																																										
122	6123 - Lowland Fir	Sapling Well	5.8	39	51-80	N/A	The stand has extensive blow down. This makes the stand difficult to navigate. There is cedar regeneration in the stand that appears to be doing well. There is very little browse damage because of the jack strawed nature of the stand. Stand is factor limited as too wet.																																										
123	4126 - White, Black, N. Pin Oak	Poletimber Medium	39.0	46	51-80	N/A	The stand burned around 1979. It has a southwest aspect and is droughty. The oaks have poor form and are somewhat sparse. The crown closure goes from 20 to 85% with an average around 60%. The areas of higher crown closure are in the draws.																																										
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124	123 - Other High Intensity Urban	None	1.4			No	This stand is Meridith Grade Road																																										
125	6229 - Mixed Lowland Shrub	None	1.7			No	This is a lowland shrub stand surrounding a flooded area.																																										
126	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	3.4	91	51-80	N/A	The stand is in a depression with a creek running through it. There are alder pockets. Overall, it is too wet to harvest.																																										
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128	6120 - Lowland Cedar	Poletimber Well	7.4	100	51-80	N/A	Part of the stand is the riparian buffer to the Cedar River; a designated cold-water stream. There is significant windthrow in the wettest areas. The crown closure goes from 10 to 100% with an average of 80%.																																																																																										
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130	4130 - Aspen	Sapling Well	18.1	11	Immature	N/A	This stand was clear cut in April 2015 as part of the MGR Mix sale 73-018-14-01. The stand is healthy and doing well. There are pockets of birch mainly in the lower ground.																																																																																										
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131	4131 - Aspen, Oak	Poletimber Well	19.1	40	51-80	N/A	There is a lot of downed wood and many of the oaks are bowed because of past ice and heavy snow. The aspen has the highest concentration on the ridges. Maple is more common at the base of the hill. The oaks are more common on the mid-slopes. The stand was harvested in Half Hill sale 73-036-84 completed in 1986.																																																																																										
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133	6229 - Mixed Lowland Shrub	None	1.1			No	The stand is the lowland shrubs that surround Streaked Lake. There is some tamarack mixed in with the lowland shrubs.																																																																																										
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134	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	20.6	90	81-110	N/A	This stand is the approximately 100' riparian buffer that was left along the Cedar River (a designated cold-water stream). When the stand was clear-cut in 2010, as a part of the Cedar River Aspen, sale 73-015-07-01. Most of the stand is on the floodplain. It has a steep slope along the southern line sloping as it goes toward the river. Factor limit-Too wet.																																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
135	6229 - Mixed Lowland Shrub	None	5.1			No	This stand is on the floodplain of the North Branch Cedar River. There has been some cedar planting along the river.																																																			
136	500 - Water	None	3.8			No	This is part of the headwaters and feeder stream to the North Branch Cedar River.																																																			
138	6124 - Lowland Spruce-Fir	Poletimber Well	16.4	104	111-140	N/A	The stand is mostly low and wet with a few ridges. There are also pockets of lowland shrubs and marsh.																																																			
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139	4130 - Aspen	Sapling Well	17.4	5	Immature	N/A	The stand was cut under 3 lakes aspen, sale 73-014-18 in the spring/summer of 2021. There is a steep narrow draw running east and west through part of the middle of the stand. The banks may be too steep for mechanical logging. The terrain is rolling. There are some vernal ponds present in the stand. The easternmost portion of the stand has the lowest regeneration.																																																			
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140	629 - Mixed non-forested Wetland	None	4.4			No	These are open areas in stand 36 caused by the flow of creeks from various springs. The areas have variable amounts of water.																																																			
141	4130 - Aspen	Sapling Well	15.6	5	Immature	N/A	The stand was cut in 3 lakes aspen, sale 73-014-18. The terrain slopes down going north. The regeneration has come in well. There are areas where the density is at a medium stocking but overall, it is fully stocked.																																																			
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142	4130 - Aspen	Poletimber Well	6.7	42	111-140	N/A	This stand is a matrix of uplands and lowlands. It is mostly uplands. There is sheet flow within the stand. The quaking aspen and birch are concentrated in the lower ground. The stand is transitioning into poles. There are significant smaller diameter trees present.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
144	4130 - Aspen	Poletimber Well	7.3	38	111-140	N/A	The stand is now a pole stand. It has some areas of lower ground but overall, it is upland.																																							
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145	4139 - Aspen, Mixed Deciduous	Sapling Well	5.5	31	51-80	N/A	This stand was clear cut in 1996 in Power Line Aspen, sale 73-051-95-01. The stand has transitioned into poles for the most part.																																							
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146	4130 - Aspen	Poletimber Well	15.4	31	81-110	N/A	This stand was clear cut in 1996 in Power Line Aspen, sale 73-051-95-01. The stand has converted to poles. They are on the smaller side so hold for at least 10 years.																																							
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147	4130 - Aspen	Sapling Well	17.6	22	1-50	N/A	This stand was clear cut in 2004 during the dormant season. The sale was Barrel Aspen, sale 73-004-04-01. There are some areas that have a lower density, but it has an overall, crown closure of more than 75%. There are some wetter pockets along the west side. The birch in the stand is concentrated on the lower ground.																																							
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150	6220 - Alder/Willow	None	12.3			No	This is part of the Riparian zone of headwaters and feeder stream to the North Branch Cedar River.																																							
151	6225 - Bog	None	1.7			No	This is a leather leaf bog along M-18.																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
152	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	6.9	99	51-80	N/A	The stand is fairly flat to undulating. It is a two-aged and looks to have had aspen and maple removed about 26 years ago. The stand has regenerated to a mix of oak, aspen, maple, and some white pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		12	Pole	8	26	Red Maple		
Red Maple		30	Log/Pole	11		White Oak		
White Oak		23	Log/Pole	11		White Pine		
Black/Red (Hybrid) Oak		35	Log/Pole	11	99	Black/Red (Hybrid) Oak		
153	4130 - Aspen	Poletimber Well	8.1	31	51-80	N/A	This stand was final harvested in 1996 in Power Line Aspen, sale 73-051-95-01. It is now coming into poles. There is a broad drainage in the stand that was heavily rutted during the harvest. This area of moist soil is heavy to paper birch and quaking aspen. Most of the wetter ground is located at the east end and along stand 151.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		53	Pole/Sapling	6	31			
White Oak		2	Sapling/Pole	4				
Paper Birch		10	Sapling/Pole	4				
Black/Red (Hybrid) Oak		10	Sapling/Pole	4				
154	6112 - Lowland Aspen	Poletimber Well	11.6	27	81-110	N/A	The stand was Clear cut in 1999. Some mature oaks were left. The ash is dead and down. There is a railroad grade going through the stand. It has some uplands but it is less than 40%. The crown closure goes from 15 to 100% with an average of around 80%.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		60	Pole/Sapling	6	27			
Red Maple		15	Pole/Sapling	5				
Black/Red (Hybrid) Oak		15	Pole/Sapling	5				
White Oak		5	Sapling/Pole/Log	4				
155	4125 - Black, N. Pin Oak	Poletimber Well	24.0	35	51-80	N/A	The stand has excellent oak regeneration as a result from a partial harvest in 1990.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black/Red (Hybrid) Oak		60	Pole/Log/XLog	9	35	Black/Red (Hybrid) Oak		
Red Maple		20	Pole	7		Red Maple		
White Pine		1	Log/XLog	16				
Bigtooth Aspen		18	Pole	7	35			
157	4131 - Aspen, Oak	Sapling Medium	21.1	4	Immature	N/A	The stand was harvested in Corlew Oak Aspen, in the Fall of 2021. Two retention islands were left during the harvest. The stand is regenerating well. The oak in the stand is not established.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		35	Sapling	1	4			
Quaking Aspen		25	Sapling	1	4			
Red Maple		20	Sapling	1				
Black/Red (Hybrid) Oak		20	Sapling	1				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
158	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.3	38	111-140	N/A	When the stand was harvested some of the over-story white oak was retained along the northern boundary. There is a low depression in the stand that has a crown closure of less than 75%. However, the average crown closure is around 95%.																																				
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159	4130 - Aspen	Sapling Well	7.8	22	1-50	N/A	The stand was final harvested to 2"DBH in November 2004 in Barrel Aspen, sale 73-004-04-01. The stand is somewhat rolling. There are poles starting to show up.																																				
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160	6124 - Lowland Spruce-Fir	Poletimber Well	5.0	51	81-110	N/A	Very sensitive stand, almost adjacent to the North Branch Cedar River. Factor limit. Too wet.																																				
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163	6220 - Alder/Willow	None	2.1			No	The stand is part of the floodplain of North Branch Cedar River.																																				
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164	6220 - Alder/Willow	None	1.9			No	This is a low wet area that was part of stand 33 but has lost all the trees.																																				
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166	6220 - Alder/Willow	None	0.7			No	This stand is in a slight depression at the base of a hill that is stand 44 and is slightly lower than stand 138. It is mainly alder over marsh grass.																																				
169	500 - Water	None	1.9			No	The stand appears to be a marsh complex that is part of the headwaters of the North Branch Cedar River.																																				
400	310 - Herbaceous Openland	None	4.6			Yes	Maintained wildlife opening.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
403	310 - Herbaceous Openland	None	7.0			Yes	Maintained wildlife opening.
404	310 - Herbaceous Openland	None	3.1			Yes	Wildlife planting.