



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52175

Entry Year 2018

Acreage: 2,612

County Cheboygan

Management Area: Cheboygan Lake Plain

Revision Date: 2016-05-13

Stand Examiner: John Scheele

Legal Description:

T35N R02W Sections 22, 23, 24, 26, 27, and 34.

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and topography:

There are 2 major soil groups in this compartment. The western and northern portions of the compartment consist of the Grayling-Rubicon Association. The southeastern portion consist of the Cheboygan-Blue Lake Association. The topography is nearly level to very steep.

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

This compartment is bounded by both private and state land. Property along the Pigeon River is all private, which runs through the center of the compartment. The Pigeon River Woods subdivision is located along the west side of the Pigeon River and is bordered by state land to the west. The private lands to the east of the compartment are rural areas with scattered residences. State land borders the compartment on the north and west. The private parcels are year-round and seasonally occupied.

Unique Natural Features:

There is documented *Cirsium hillii* (Hill's thistle) and *Haliaeetus leucocephalus* within the compartment.

Archeological, Historical, and Cultural Features:

No known archeological concerns or sites at this time.

Special Management Designations or Considerations:

There are no special management designations or considerations within the compartment.

Watershed and Fisheries Considerations:

The Pigeon River, Little Pigeon River, and some tributaries flow through this compartment. The prescribed management actions are appropriate for the protection of these waterbodies.

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen while creating early successional habitat benefiting deer, grouse, and woodcock. Some oak clumps and/or large crowned oak will be left where appropriate for hard mast. Openings are prescribed to be maintained and supplemented with hard and soft mast plantings benefiting deer, grouse, wild turkey and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till, lacustrine sand and gravel, and dune sand. The glacial drift thickness varies between 0 and 400 feet. The Devonian Traverse Group subgroups below the glacial drift. The Traverse is used for stone and cement products. Two rock quarries are located to the east around Afton, but bedrock appears to be more deeply buried within the compartment, which would limit potential limestone development. There do not appear to be any active sand and gravel pits in the area. There may be some potential within the compartment but clay seems to be locally abundant in the glacial sediments. The nearest oil and gas production, the Antrim Shale gas play, is located 15 miles to the south. The Antrim Shale is absent in this area. State land in the compartment was recently leased as part of the Collingwood Shale play and the bottom hole of a plugged Collingwood oil well exists in Section 27. There may be additional potential for the Collingwood, but to date, there has been limited production from the Collingwood and it is still an unproven play. Interest in the formation has waned and all leases in the area have expired.

Vehicle Access:

The is good access to the compartment via M-68 Highway, Old Onaway Road, Silery Road, and Ostrander Road. There is also good access through several forest dirt roads within the compartment.

Survey Needs:

A small amount of private boundary establishment will need to be done.

Recreational Facilities and Opportunities:

The Michigan Cross County Cycle Trail (MCCCT) follows M-68 east to Quarry Road, north to Ostrander Road and then to the west. There is also a boat launch on the east shore of Cochran Lake.

Fire Protection:

There is moderate wildfire potential in the southwestern part of the compartment due top the drier soil types and the pine dominated stands.

Additional Compartment Information:

The following reports from the Inventory are attached:

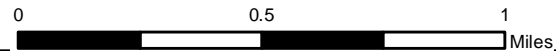
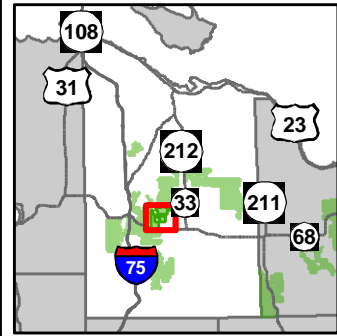
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

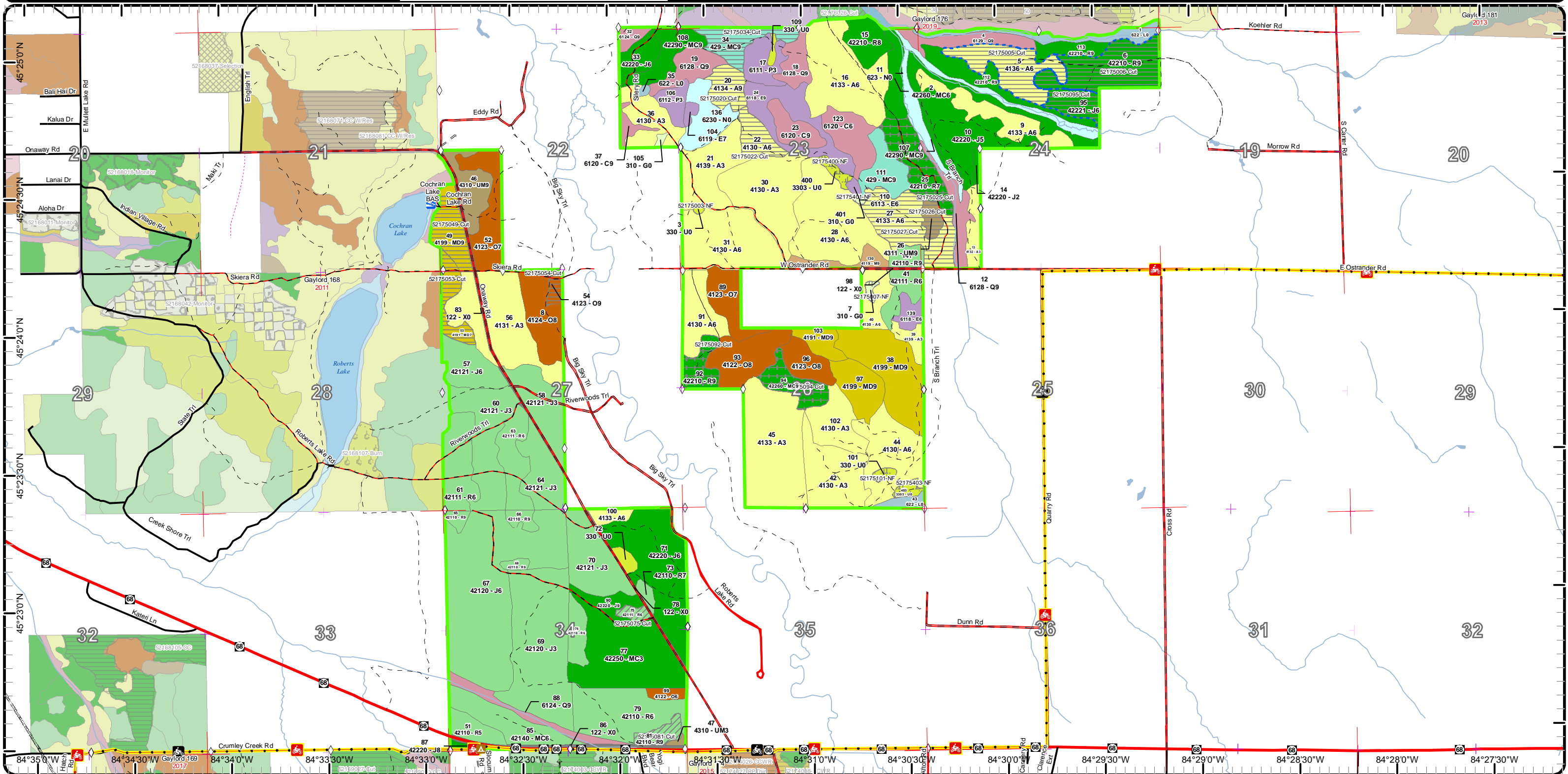
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

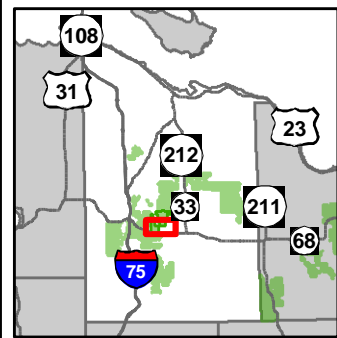
Compartment: 175
 T35N,R02W, Sec. 22-24, 26-27,
 34
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Cheboygan Lake
 Plain
 YOE: 2018
 Acres: 2609 GIS Calculated
 Examiner: John Scheele
 Map Revised: 8/26/2016
 Map Phase: Post-Review



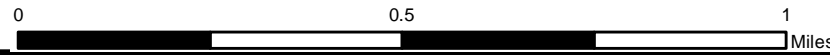
- Miris Corners
- + Remonumented Section Corners
- Field Grade GPS Corners
- Bridges
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- Campground
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- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



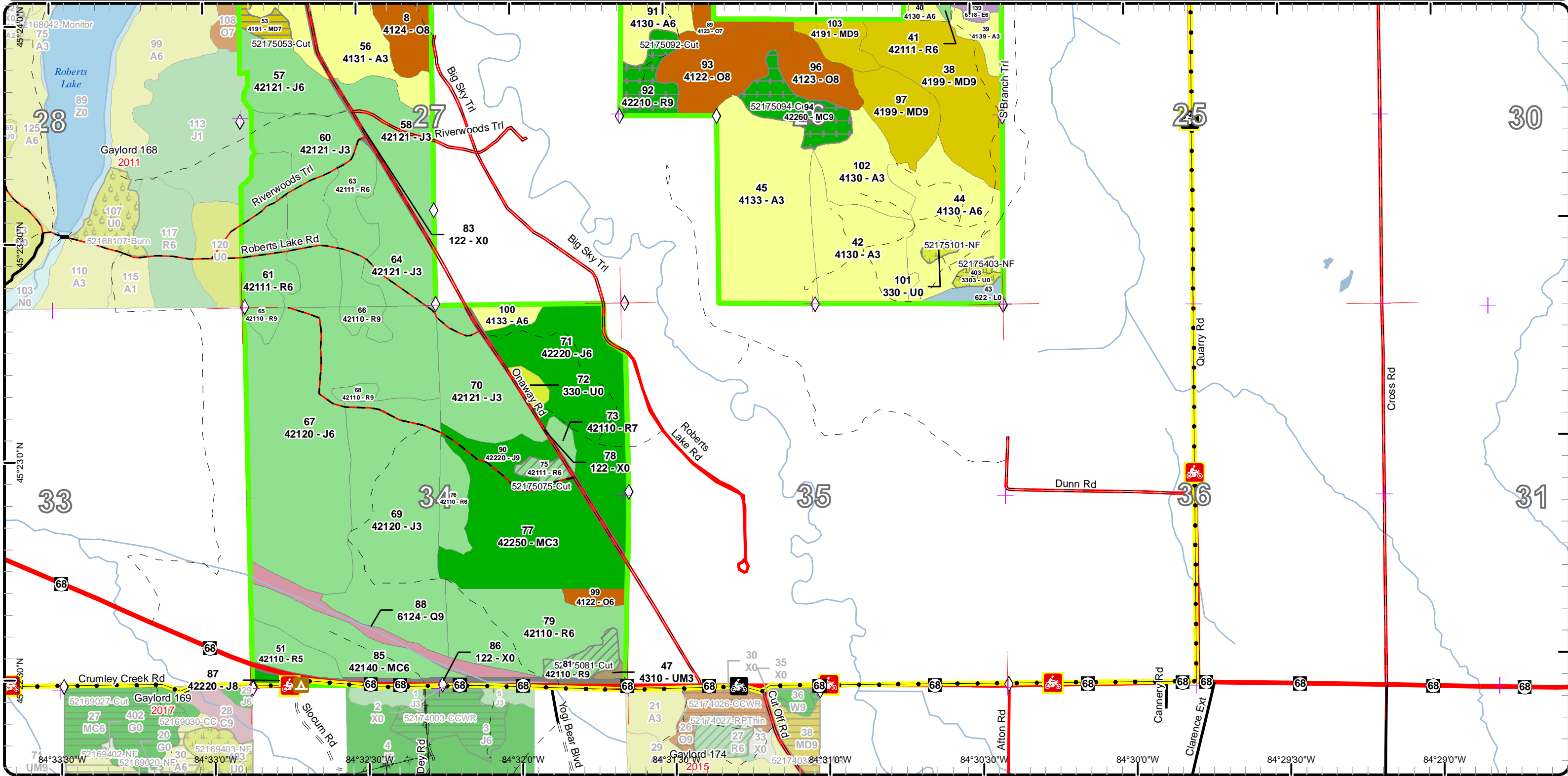
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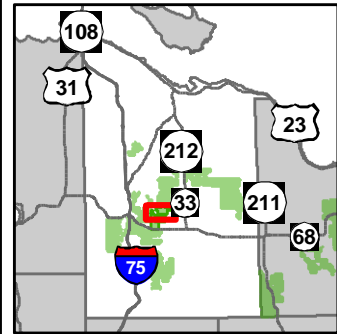
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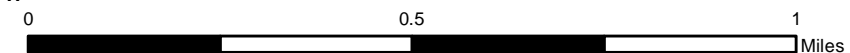
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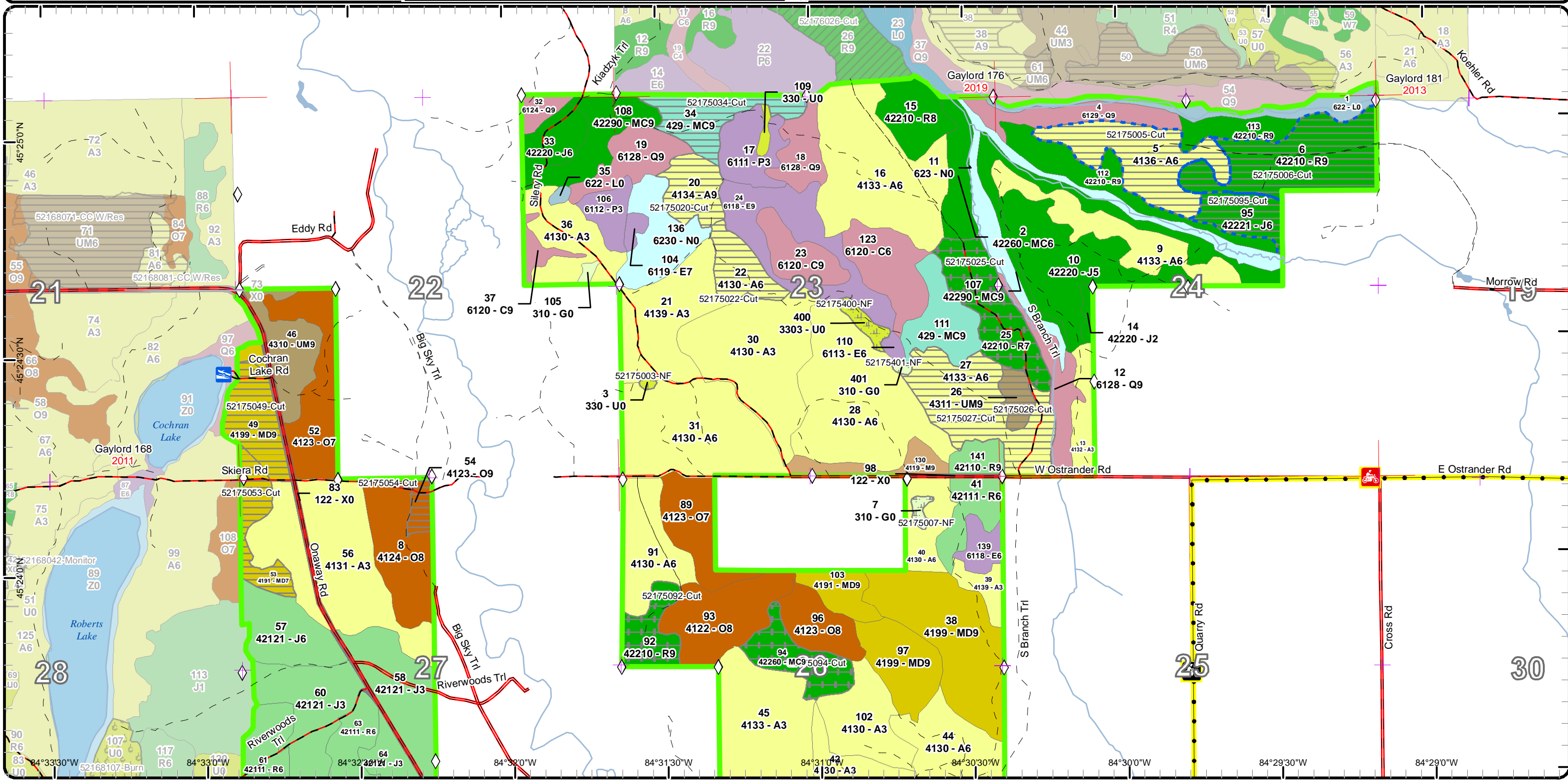
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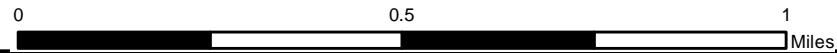
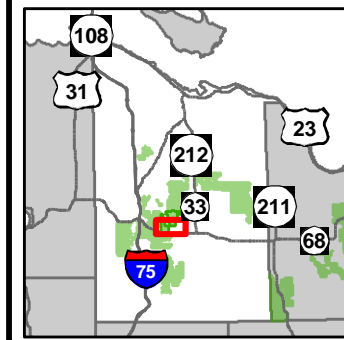


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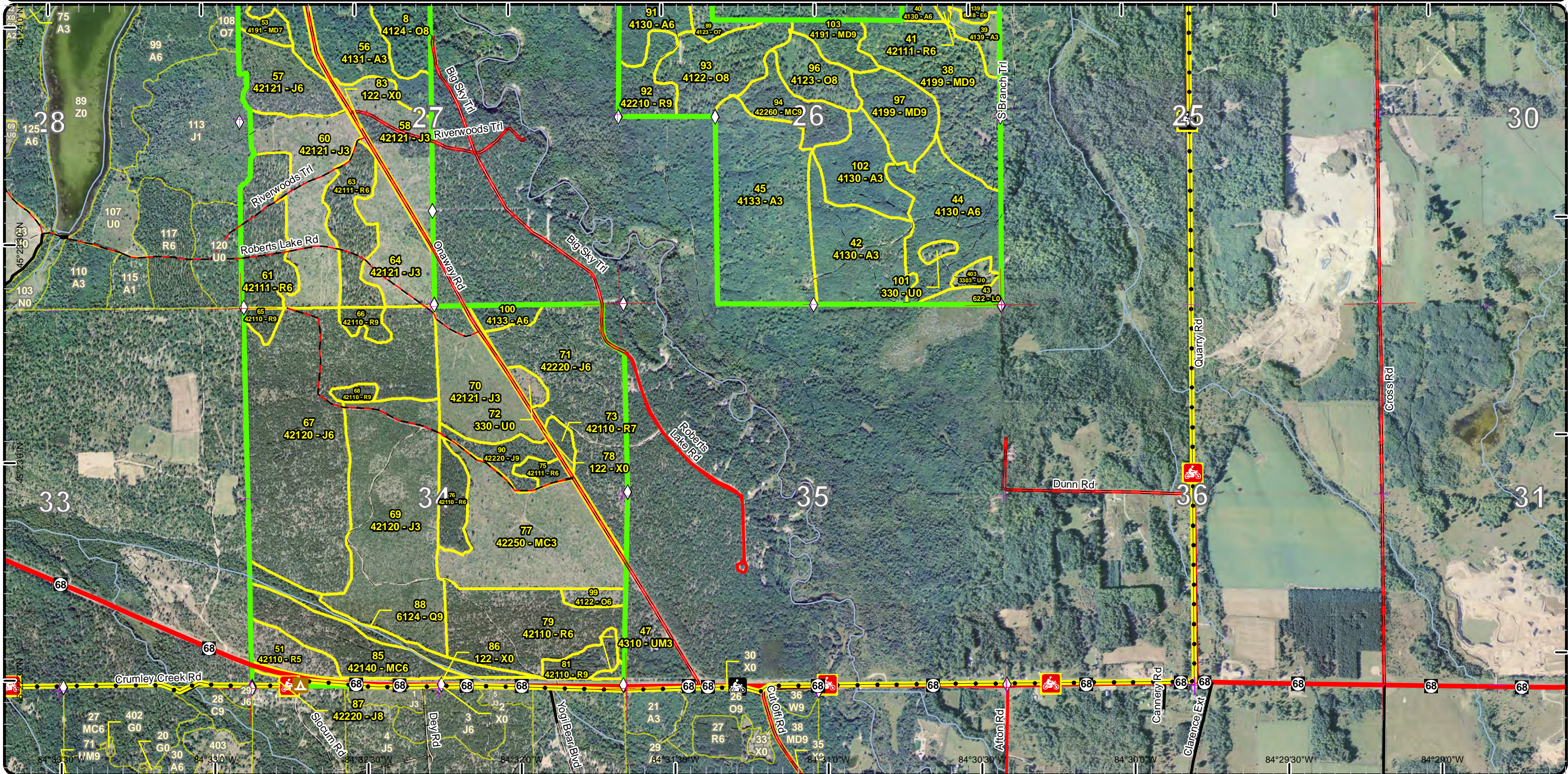


Stand Boundary Map

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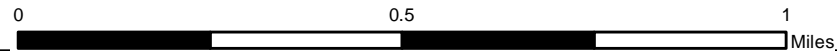
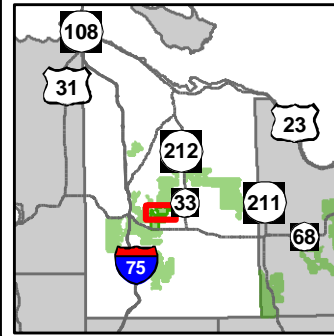


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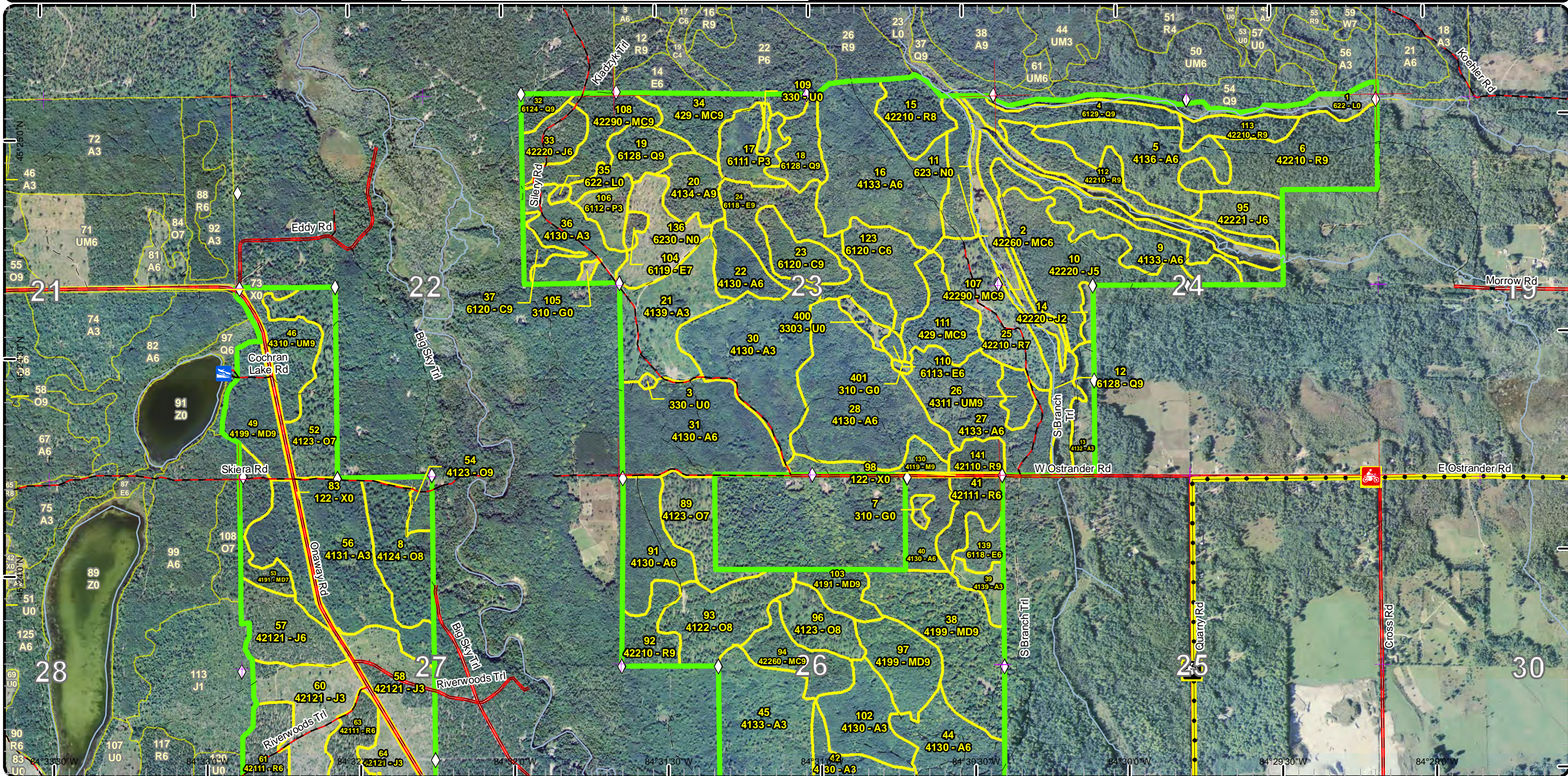


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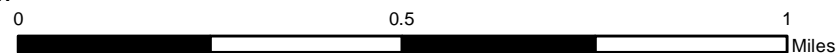
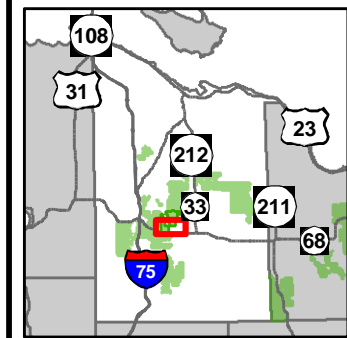


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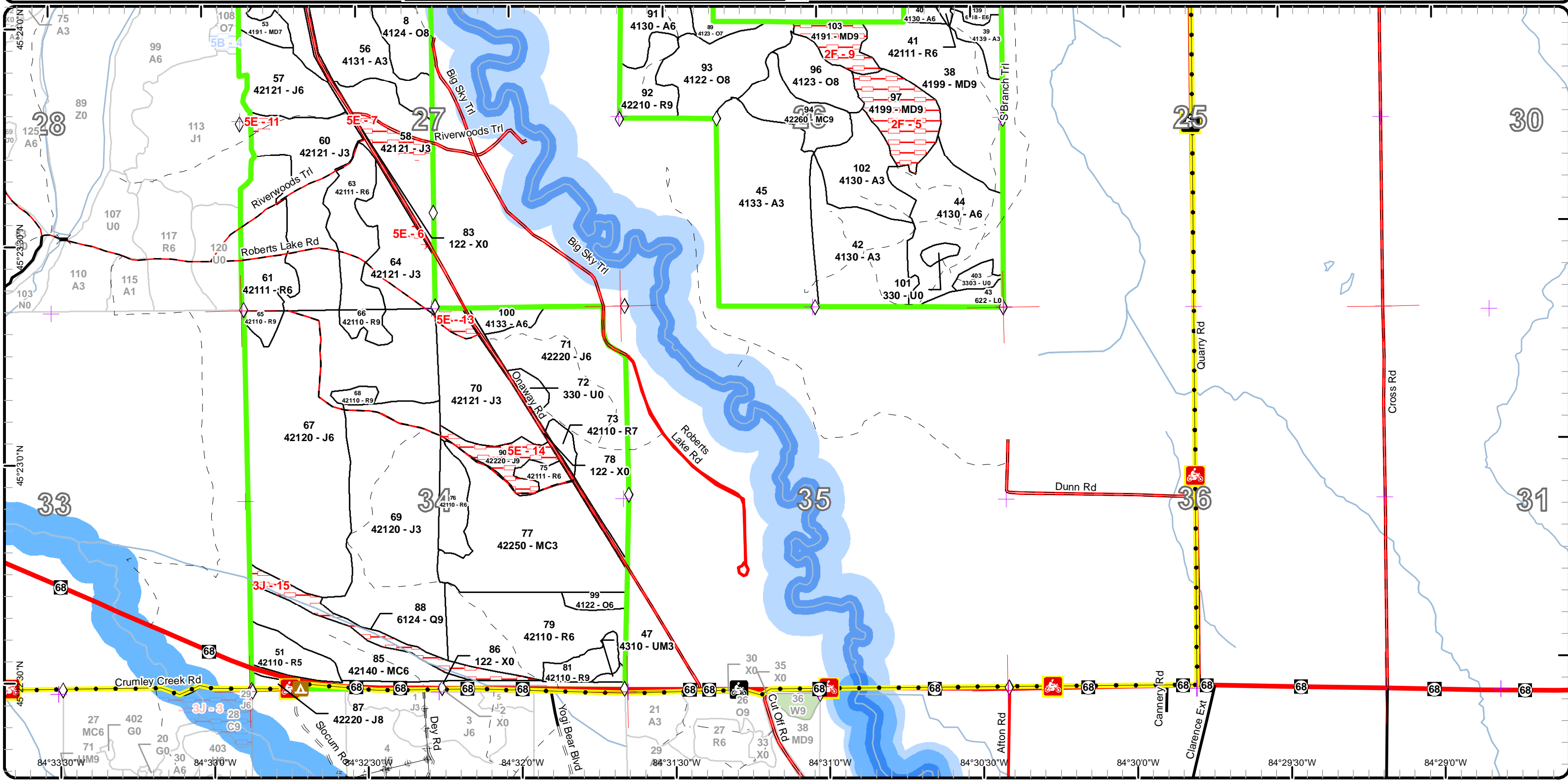


Special Conservation Areas & Site Conditions Map

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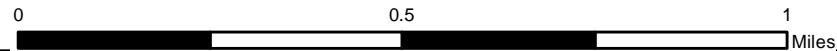
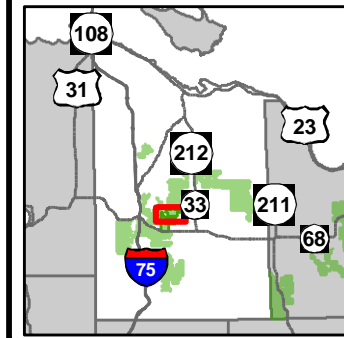


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- Compartment Boundary
- Unavailable
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area

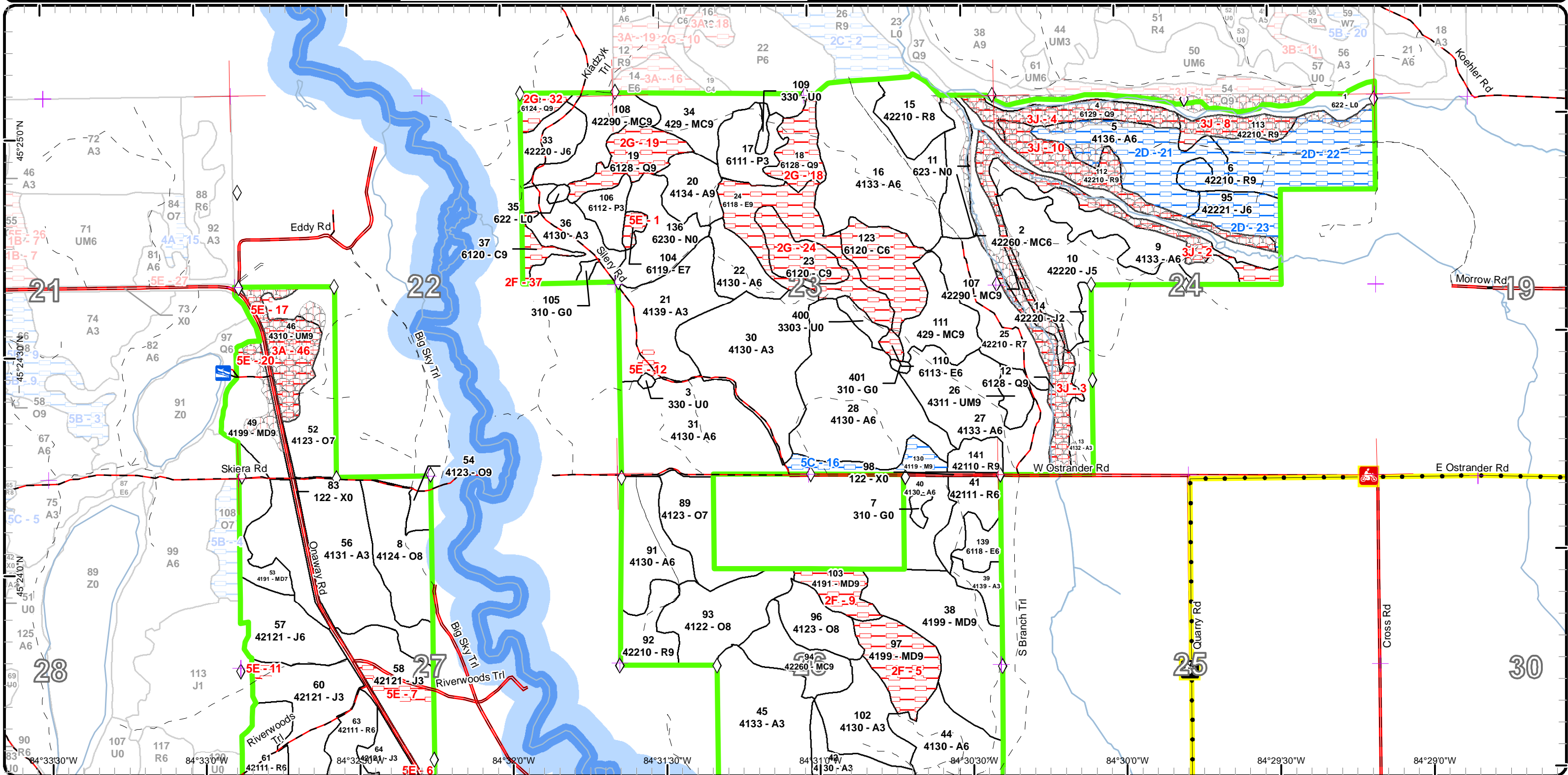


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Potential old growth / biodiversity
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Other SCA (No Category Assigned)



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	60	232	137	353	0	0	0	0	16	0	0	0	0	0	0	0	0	798
Cedar	0	0	0	0	0	0	0	0	0	0	5	40	0	0	0	0	0	0	45
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	154	99	0	174	149	0	0	12	3	0	0	0	0	0	0	0	0	591
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Aspen/Balsam Poplar	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Conifers	0	0	0	0	0	0	0	15	0	16	38	19	0	0	0	0	0	0	87
Lowland Deciduous	0	0	0	0	8	0	2	0	3	0	35	0	0	0	0	0	0	0	48
Lowland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Marsh	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	39	23	0	0	0	0	0	66	128
Natural Mixed Pines	0	73	0	16	0	0	0	22	0	19	0	25	0	0	0	0	0	0	155
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
Oak	0	0	0	5	0	0	0	0	0	0	143	0	0	0	0	0	0	0	148
Planted Mixed Pines	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Red Pine	0	0	0	0	66	0	113	0	90	18	15	35	0	0	0	0	0	0	336
Upland Conifers	0	0	0	0	0	0	0	21	0	22	0	0	0	0	0	0	0	0	43
Upland Mixed Forest	0	0	0	1	0	0	0	7	0	0	0	21	0	0	0	0	0	0	29
Urban	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Total	134	287	358	159	632	149	115	65	105	94	275	163	0	0	0	0	0	77	2611



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 175

Total Compartment Acres: 2,612

Commercial Harvest - 228
 Harvests with Site Condition - 103
 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	115	0	0	0	0	0	0	0	0	115
Jack Pine	15	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	36	0	0	0	0	0	0	0	0	36
Natural Mixed Pines	0	0	0	0	0	19	0	0	0	19
Oak	7	0	0	0	0	0	0	0	0	7
Red Pine	49	0	0	0	0	14	47	0	0	110
Upland Conifers	22	0	0	0	0	0	0	0	0	22
Upland Mixed Forest	7	0	0	0	0	0	0	0	0	7
Total	252	0	0	0	0	14	66	0	0	331

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	331	0	0	0	0	0	0	14	0	345
Next Step	0	192	96	0	0	96	414	0	0	798
Total	331	192	96	0	0	96	414	0	14	1143



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
3	52175003-NF	0.8	330 - Low-Density Trees	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mow, plant, brush, burn, and/or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

5	52175005-Cut	38.6	4136 - Aspen, Mixed Conifer	Poletimber Well	38	Unspec ified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Portable Bridge Needed**

Prescription Harvest stand to regenerate. Maintain a 150' 'no-cutting' buffer from the top of the ridge, along the north and south boundaries of the stand.

Specs: Access stand by crossing stream south of stand.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Acceptable regeneration includes a mix of moderate to well stocking of aspen and mixed coniferous species.

Regen:

Other

This stand was added for aspen restart acres and to cut while cutting adjacent stands.

Comment:

Proposed Start Date: 10/01/2017

6	52175006-Cut	49.4	42210 - Natural Red Pine	Sawtimber Well	71	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Portable Bridge Needed**

Prescription Harvest stand and replant to Red Pine. Do not cut oak species. Leave a 150' buffer along the north boundary of the stand, adjacent to the stream. This will also be the retention area. Access stand through stand 5 and by crossing stream to the south.

Specs:

Next Step

SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring,

Treatments: Artificial Regen(3yr)

Acceptable

Acceptable regeneration includes a well stocked stand of artificially planted Red Pine.

Regen:

Other

This stand was added for Red Pine restart acres.

Comment:

Proposed Start Date: 10/01/2017

7	52175007-NF	2.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow, plant, brush, burn, and/or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
20	52175020-Cut	15.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	81	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Harvest stand to regenerate. Expand treatment area to the east where possible to include harvestable timber in adjacent stand. Stop treatment area when conditions become too wet. No stand retention due to small stand size.

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

Acceptable Regen: Acceptable regeneration is a moderate to well stocked stand of aspen and deciduous species.

Other Comment:

Proposed Start Date: 10/01/2017

22	52175022-Cut	14.8	4130 - Aspen	Poletimber Well	39	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Harvest stand to regenerate. No stand retention due to small stand size.

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

Acceptable Regen: Acceptable regeneration includes a mix of well stocked aspen and deciduous species.

Other Comment: Harvesting stand to create more age class diversity.

Proposed Start Date: 10/01/2017

25	52175025-Cut	31.5	42210 - Natural Red Pine	Sawtimber Poor	76	51-80	Harvest	Overstory Removal	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Harvest overstory. Replant to Red Pine.

Next Step SitePrep, Roller Chopping; Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Regen: Acceptable regeneration includes a well stocked artificially planted Red Pine planting.

Other Comment: Stand was added for Red Pine restart acres.

Proposed Start Date: 09/01/2016

26	52175026-Cut	7.2	4311 - Pine, Aspen Mix	Sawtimber Well	61	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Harvest stand to regenerate. Do not cut oak or Red Pine. Also mark some White Pine to leave. No other stand retention due to small stand size.

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

Acceptable Regen: acceptable regeneration includes a mix of moderate to well stock aspen and coniferous species.

Other Comment: Harvesting stand to create aspen age class diversity.

Proposed Start Date: 10/01/2017



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
27	52175027-Cut	45.6	4133 - Aspen, Mixed Pine	Poletimber Well	39	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest stand to regenerate. Do not cut the x-sized White Pine (18 inch DBH and greater).											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regeneration includes a mix of moderate to well stock mix of aspen and coniferous species.											
<u>Other Comment:</u> Harvesting stand to create age class diversity in aspen.											
<u>Proposed Start Date:</u> 10/01/2017											
34	52175034-Cut	22.2	429 - Mixed Upland Conifers	Sawtimber Well	81	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest stand to regenerate. Do not cut cedar. Also, do not cut White Pine and Red Pine over 20 inch DBH. Possible stand retention area											
<u>Specs:</u> around a pocket of White and Red Pines located in the west part of stand. Will need to cross a narrow, low ground area in the east part of stand.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked mix of aspen, Red Maple, and coniferous species.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
49	52175049-Cut	21.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	101	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest stand to regenerate. Leave all White Oak, White and Red Pine. Mark some individual and clumps of Red Oak to leave. Put retention											
<u>Specs:</u> pocket in north part of stand within the existing pocket of large diameter Red and White Pine. Mark additional individual leave trees along Old Onaway Road. Maintain a 150 foot buffer on Cochran Lake were applicable.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked mix of oak, pine, and aspen species.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
53	52175053-Cut	15.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	91	51-80	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest stand to release oak. Leave all Red Pine, White Pine, and White Oak. Mark some Red Oak to leave. No other retention due to small											
<u>Specs:</u> stand size.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked mix of oak, pine and aspen species.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
54	52175054-Cut	6.9	4123 - Red Oak	Sawtimber Well	96	111- 140	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final harvest stand. Do not cut White Oak or pine species. Mark individual and clumps of Red Oak trees to leave. No other stand retention due to small stand size.

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

Acceptable Acceptable regeneration includes a moderate to well stocked mix of oak, pine, and deciduous species.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

75	52175075-Cut	4.5	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	57	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand by removing every third row. Only cut trees within the row. May need to mark the individual rows.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

81	52175081-Cut	9.0	42110 - Planted Red Pine	Sawtimber Well	76	171- 200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to 120 BA. Mark individual trees to cut which will produce a stand of more uniform spacing.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

92	52175092-Cut	15.1	42210 - Natural Red Pine	Sawtimber Well	91	81-110	Harvest	Overstory Removal	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove Red Pine overstory. Leave White Pine and mark some Red Pine to leave.

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

Acceptable Acceptable regeneration includes a moderate to well stocked mix of aspen, pine and deciduous species.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
94	52175094-Cut	19.3	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	86	111- 140	Harvest	Overstory Removal	42260 - Natural Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Final harvest to regeneration stand. Mark some Red Pine and oak trees to leave. Expand harvest boundary to the north and remove the Red											
<u>Specs:</u> Pine overstory in the northeast part of stand 93. May want to leave retention areas on the steep slopes. Leaving greater than 10% retention is acceptable.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventary)											
<u>Treatments:</u>											
<u>Acceptable</u> Acceptable regeneration includes a low to well stocked mix of pine, aspen, and deciduous species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
95	52175095-Cut	15.1	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	38	Unspec ified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Portable Bridge Needed								
<u>Prescription</u> Harvest stand and replant to Red Pine. Access stand through stand 5 and by crossing stream to the south.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring,											
<u>Treatments:</u> Artificial Regen(3yr)											
<u>Acceptable</u> Acceptable regeneration includes a well stocked stand of artificially planted Red Pine.											
<u>Regen:</u>											
<u>Other</u> This stand was added for Red Pine restart acres.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
101	52175101-NF	2.4	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mow, plant, brush, burn, and/or herbicide to maintain opening. Plant hard or soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
400	52175400-NF	4.2	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mow, plant, brush, burn, and/or herbicide to maintain opening. Plant hard or soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
401	52175401-NF	0.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn, and/or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

403	52175403-NF	4.0	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn, and/or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 345.4**

Report 4 – Site Conditions

Gaylord Mgt. Unit
John Scheele : Examiner

Compartment: 175
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions							
		With Condition	Not Available		2D	5C	2F	2G	3A	3J	5E	
797	756	39	3	Aspen	39		0	0				3
45	0	0	45	Cedar			5	40				
4	4	0	0	Herbaceous Openland								
591	550	15	25	Jack Pine	15							25
17	17	0	0	Low-Density Trees								
27	27	0	0	Lowland Aspen/Balsam Poplar								
87	0	0	87	Lowland Conifers				38		49		
48	8	0	40	Lowland Deciduous				37				3
27	27	0	0	Lowland Shrub								
53	53	0	0	Marsh				0				
128	91	0	38	Mixed Upland Deciduous			36					2
155	131	0	25	Natural Mixed Pines				0		25		
11	0	11	0	Northern Hardwood		11						
148	147	0	1	Oak					0			1
31	31	0	0	Planted Mixed Pines								
336	252	49	35	Red Pine	49						35	
43	43	0	0	Upland Conifers				0				
29	9	0	21	Upland Mixed Forest					21			
33	33	0	0	Urban								0
2,612	2,179	114	319	Total Forested Acres	103	11	41	114	21	109		34
	83%	4%	12%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
John Scheele : Examiner

Compartment: 175
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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified
Comments: Stand consists mostly of larger-sized Red Pine on a steep ridge leading down to the river bottom.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified
Comments: Stand consists mostly of larger-sized Red Pine on a steep ridge leading down to the river bottom.							
5	Unavailable	2F: Too steep	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very hilly with steep ravines and slopes running to the east. Would be very difficult to run equipment in this stand.							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long-term retention for stand 64.							
7	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long-term retention for Stand 58.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
John Scheele : Examiner

Compartment: 175
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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	3A: Conservation Values incompatible with harvest at this time	Unspecified
Comments: 20 foot high ridge along the south boundary of stand.							
9	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very hilly with steep ravines and slopes running to the east. Would be very difficult to run equipment in this stand.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Remove individual Red Pine trees on high ground of ridge during next cutting cycle for the aspen stand to the east.							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long-term retention for stand 60.							
12	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long-term retention for Stand 70.							
14	Unavailable	5E: Long-Term Retention	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long-term retention for Stand 77.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
John Scheele : Examiner

Compartment: 175
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15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave for next YOE and possibly cut with the aspen stand to the north.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention from shelter wood cut in 2012.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	2	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Long-term retention area for harvested area to the south.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
John Scheele : Examiner

Compartment: 175
Year of Entry: 2018

21	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	76	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
John Scheele : Examiner

Compartment: 175
Year of Entry: 2018

37	Unavailable	2F: Too steep	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	3A: Conservation Values incompatible with harvest at this time	21	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: OPIC - FMD: Old mature super canopy WP and RP with large NRO, over an M6 - A6 type, m2 understory, along with BF, WP seedlings/saplings. Very unique stand, POG, or OG. Stand is across old Onaway Rd. from Cochran Lake public access site. No treatment recommended.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	16.2	28	Immature	OPIC - FMD: Stand has regenerated after harvest in 1988 to a mix of Aspen, JP, and RP saplings. Excellent RP reproduction where soil was disturbed. 2016 No comments.
4	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	18.5	101	51-80	OPIC - FMD: Long linear stand following steep ravines associated with little Pigeon river, Kimberley Creek, and Morrow Creek, which all come together in the compartment. The Pine type is more prevalent on the side slopes and on top of the ravines where they level off. Bottom of the ravines are Q types, too small to delineate as separate stand. Area is too steep to harvest, especially with no access from the bottom of the ravines where it's too wet. 2016 Red Pine growing on top of the slopes. Very tall, nice quality Red and White Pine.
5	4136 - Aspen, Mixed Conifer	Poletimber Well	38.6	38	Unspecified	OPIC - FMD: Mix of aspen, red pine, and jack pine regen. Soil type is a Zimmerman fine sand. Access is limited to crossing pvt land. No treatment. 2016 Beaver activity along north boundary line. Potential harvest in next YOE.
6	42210 - Natural Red Pine	Sawtimber Well	49.4	71	51-80	OPIC - FMD: Mature RP, Natural stand, low stocking in several areas, others extremely well stocked. JP is dominant covertype in a few areas of the stand, with RP scattered as super canopy trees. Stand has a lot of pole sized trees that need to mature. Treat in 10-20 years. No treatment this YOE. 2016 Variable Red Pine BA and DBH size. Current BA is 80. Access would have to be through private. Understory will be more merchantable in next YOE.
8	4124 - Red with White Oak	Sawtimber Medium	30.1	96	51-80	OPIC - FMD: Stand was harvested last YOE. Regen looks good, mostly aspen and good oak regeneration around residual oak from harvest. Also several RM stump sprouts. Oak reproduction is mostly from seed, doing well competing with aspen. Nice mix of WO, RO, and Pin Oak in the overstory, but less than 10 BA across the stand. No treatment. Old Comments: LEAVE ALL OAK OVER 8" PROTECT WHITE PINE REPRO. 2016 Stand was cut in 1998. Pockets of full aspen and oak regeneration. Overstory oak BA is 60.
9	4133 - Aspen, Mixed Pine	Poletimber Well	29.3	38	Unspecified	OPIC - FMD: Aspen sapling stand, almost pole sized. Scattered mature RP and JP, sandy soils. Illegal blind left on state in stand. No treatment. 2016 Leave for next YOE.
10	42220 - Natural Jack Pine	Poletimber Medium	47.3	38	1-50	OPIC - FMD: Young JP stand converting from sapling sized to poletimber. WP mixed throughout, < 10 ba/ac. Scattered residual JP from harvest were left, most in Eastern side of stand. 2016 Leave for next YOE. Cut some of the Red Pine in the adjacent stand when cutting this stand.
12	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	16.0	81	51-80	OPIC - FMD: Long linear stand following banks of Kimberly Creek and other streams leading to the little pigeon river. Beaver activity is heavy in some areas of the stand, other areas range from an E type to a Q type. Large WP are scattered throughout the stand, wet ground and surrounded by steep banks, which prevent it from ever being harvested, along with BMP concerns.
13	4132 - Aspen, Jack Pine	Sapling Well	12.2	6	Immature	2016. FINAL HARVEST COMPLETED IN AUGUST 2010.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	42220 - Natural Jack Pine	Sapling Medium	2.9	6	Immature	OPIC - FMD: FINAL HARVEST COMPLETED IN 2010. 2016 Nice natural regeneration.
15	42210 - Natural Red Pine	Sawtimber Medium	18.2	81	51-80	OPIC - FMD: Residual pine not harvested 20 years ago with the rest of the stand. Fairly low stocking, Aspen understory is doing well. Let Pine mature another 10-20 years, then remove. 2016 BA is 78. Aspen is 3 to 4 inches DBH. Many deer runways within stand. North part of stand has a full sub-canopy of Red Pine regeneration.
16	4133 - Aspen, Mixed Pine	Poletimber Well	66.9	28	Immature	OPIC - FMD: Stand has regenerated after harvest in 1988 to a mix of Aspen, JP, and RP saplings. Excellent RP reproduction where soil was disturbed. BF regen is significant on the western and southern borders of the stand, most of the JP is in the East and SE portion of the stand. 2016 No comments.
17	6111 - Lowland Balsam Poplar	Sapling Well	17.4	17	Immature	OPIC - FMD: This stand was harvested last YOE as part of Seven Over Aspen. The sale was not finished due to wetness. There were two attempts made to finish the sale, both unsuccessful. Stand has regenerated very well to Balsam Poplar and Aspen mix. West half of the stand is 100% Balsam poplar, East half is a little higher in elevation and has come back to an A3 type. Small ridges are still fairly open with scattered BF and RP. No Treatment. 2016 No comments.
18	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	14.1	91	111-140	OPIC - FMD: Dense stand of P type, some areas heavier to a Q type. This stand was created because it was left uncut from a harvest last YOE (seven over aspen). Was not cut due to excessive rutting, two attempts were made to move back into the sale, but damage to the soil was significant enough to remove the producers from the sale, both times during February. May be able to cut given a good winter with extended periods of subzero temps, but will have to monitor closely. Stand will have a limiting factor of too wet. 2016 No comments.
19	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	18.1	97	111-140	OPIC - FMD: Nice mature swamp conifer, some areas showing mortality of the shorter lived species. This stand represents the oldest age class in the compartment, too wet to harvest. Good deer cover-adjacent to dense cedar swamp. Stand surrounds cedar type, as you near the c type stand is extremely wet, outside edge of stand is less moist. Lots of hare and deer sign noted. 2016 Red Pine trees along edges of the stand.
20	4134 - Aspen, Spruce/Fir	Sawtimber Well	15.7	81	111-140	2016 Higher ground compared to stand to the south (136). Balsam Fir and White Birch is falling over. Poor quality aspen.
21	4139 - Aspen, Mixed Deciduous	Sapling Well	39.6	4	Immature	OPIC - FMD: Nice BT Aspen stand on hardwood soil- AFO. Stand could be managed for hardwood, but aspen is doing extremely well. Noticed old red paint from adjacent sale last YOE; sale was not entirely cut due to wetness. Soils are a Blue Lake loamy sand. This stand is one of few stands in the compartment that is high and dry with mature timber. PRESCRIPTION; FINAL HARVEST, CREATE BRUSH PILES WITH BALSAM FIR TOPS AND OTHER TOPS FOR SS HARE HABITAT, LEAVE STANDING POCKETS OF IRON WOOD FOR RUFFED GROUSE WINTER SEED SOURCE, LEAVE ALL OAK, PROTECT STANDING SNAGS AND/OR DEN TREES. 2016 Stand was cut in 2013.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4130 - Aspen	Poletimber Well	14.8	39	81-110	OPIC - FMD: Young Pole sized stand of aspen, BF component as well, scattered HM.
23	6120 - Lowland Cedar	Sawtimber Well	15.4	101	51-80	OPIC - FMD: Very Dense stand of cedar, variable in size and stocking depending on location within stand. Dense areas had BA's @ 290sq', others were down around 200sq'. More BF in areas of lesser stocking. Heavy deer use for bedding, also a lot of Snow Shoe Hare sign. NO TREATMENT.
24	6118 - Lowland Deciduous with Cedar	Sawtimber Well	34.7	91	111-140	OPIC - FMD: Nice mature swamp conifer, some areas showing mortality of the shorter lived species. This stand represents the oldest age class in the compartment, too wet to harvest. Good deer cover-adjacent to dense cedar swamp. Stand surrounds cedar type, as you near the c type stand is extremely wet, outside edge of stand is less moist. Lots of hare and deer sign noted.
25	42210 - Natural Red Pine	Sawtimber Poor	31.5	76	51-80	OPIC - FMD: Natural RP dominates the stand with heavy component of mature aspen and JP. Pine appears to be fire origin. Most of the Aspen is poor quality. Prescription: Leave 20 Ba of RP as seed source, remove all aspen and JP; and RP not marked as leave trees. Other various species should be harvested as well (BF RM, etc.). Chip tops for fuel reduction, do a post harvest burn to promote Natural JP and RP reproduction. KOTAR is PVcd. HARVEST COMPLETED IN 2010. NO RED PINE WAS CUT DURING HARVEST. PRESCRIBED BURN PENDING. 2016 Pockets of poor quality, branchy White Pine with variable DBH and BA. Some x-sized DBH pine trees. More White Pine component in south part of stand. Canopy closure may be closer to 50%. Current BA is 55. Previous MO was Red Pine.
26	4311 - Pine, Aspen Mix	Sawtimber Well	7.2	61	111-140	OPIC - FMD: Stand is similar to 27, but with WP overstory not harvested with remainder of the stand. No treatment. 2016 Pockets of mature B.T. Aspen. Individual x-sized White Pine in stand.
27	4133 - Aspen, Mixed Pine	Poletimber Well	45.6	39	1-50	OPIC - FMD: Young stand of aspen pole timber, has just converted from sapling sized trees, still a component of sapling size class in the stand. Stocking is poor in some areas of the stand, many small G types scattered through out the stand, flushed three grouse roosted in small wp, bf clump. Lots of old charred pine stumps. No treatment. 2016 Some x-sized, very branchy White Pine trees within stand. Some pockets of larger B.T Aspen (12" DBH).
28	4130 - Aspen	Poletimber Well	69.7	39	81-110	OPIC - FMD: Aspen pole stand cut 30 years ago, regen is great, No Treatment. 2016 Some pockets of larger diameter B.T. Aspen. Leave for next YOЕ.
30	4130 - Aspen	Sapling Well	57.5	18	Immature	OPIC - FMD: Stand harvested last YOЕ as part of Ostrander Aspen. Regen mostly BT aspen, scattered Oak from seed trees left. ORV use in stand, noted SS Hare tracks near western edge of the stand.
31	4130 - Aspen	Poletimber Well	59.3	39	Unspecified	OPIC - FMD: OI Stand Year Origin was 1978. 2016 Somewhat hilly stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6124 - Lowland Spruce- Fir	Sawtimber Well	5.5	91	81-110	OPIC - FMD: Black spruce Tamarack stand, small acreage. Unique stand in compartment. 2016 Heavy moss on the ground. Site condition is too wet.
33	42220 - Natural Jack Pine	Poletimber Well	13.6	31	Immature	OPIC - FMD: Young sapling sized JP along Silery Road, many areas of stand are sparse. No Treatment. 2016 No comments.
34	429 - Mixed Upland Conifers	Sawtimber Well	22.2	81	51-80	OPIC - FMD: Poor quality Aspen in lower areas with heavy BF understory, stand has small ridges running through it with mature RP, low stocking. Stand has small 2-track heading east/west. No treatment. 2016 High ground ridge running east/west in center of stand. Balsam Fir is 6 to 7 sticks tall but is dying out. Some x-sized White and Red Pine.
36	4130 - Aspen	Sapling Well	25.3	16	Immature	OPIC - FMD: Stand was harvested in 2000, sale was not totally finished, left about 4 acres. Regen looks great except for landing area. This portion of the stand as moderately low stocking, A1. Regen is a mix of QA and BTA, with RM stump sprouts. This stand will provide nice visual barrier from Silery road for harvest prescribed in stand 136. Old Comments: ASPEN C/C WITH SOME OAK RESIDUAL. SALE NOT FINISHED DUE TO WETNESS. 2016 No comments.
37	6120 - Lowland Cedar	Sawtimber Well	5.3	95	51-80	OPIC - FMD: Stand is comprised of steep slopes, ravines, and drainages leading to the Pigeon River to the west, which is outside of the compartment. Sale boundary avoided these areas from previous adjacent harvest which created this stand. No treatment.
38	4199 - Other Mixed Upland Deciduous	Sawtimber Well	54.4	101	51-80	OPIC - FMD: Poor quality hardwood stand with scattered Aspen clones that are mature. Large mast producing NRO are also scattered throughout the stand. Prescription: Thin stand to 80 BA, harvest all aspen clones, which will create nice canopy gaps- will need to mark any other species in aspen clones to create opening. Thin heavy around oaks to promote reproduction. 2016 Stand was thinned in 2010. Canopy closure is closer to 75%. Residual trees are multi-stemmed, poor quality Sugar Maple and beech with some large diameter Red Oak. Beech has heavy beech scale with some breakage. There are some nice pole-sized oak within stand. Retention area is located in the northwest corner of stand. Residual BA is 77.
39	4139 - Aspen, Mixed Deciduous	Sapling Well	7.7	6	Immature	FINAL HARVEST COMPLETED DECEMBER 2010. ASPEN MO. 2016 No comment.
40	4130 - Aspen	Poletimber Well	15.0	39	111-140	OPIC - FMD: Young aspen stand, good quality. No treatment. 2016 No comment.
41	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	14.4	58	111-140	OPIC - FMD: Planted RP, thinned every third row last YOE, needs second thinning this YOE. Mark stand to 90 BA. MARKED THINNING COMPLETED DECEMBER 2010. 2016 Current BA is 140. Southwest part of stand has higher average BA because it was not thinned in 2010.
42	4130 - Aspen	Sapling Well	43.7	28	Immature	OPIC - FMD: Aspen regen 20 yrs old with residual oak, 10 ft/ac and RP. Hardwood component mixed in with Aspen. No treatment. 2016 No comment.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4130 - Aspen	Poletimber Well	46.8	39	Unspecified	OPIC - FMD: Stand was harvested in 78', Aspen regen, most stems not yet to pole timber size, component of RP left in overstory, but less than 10 BA. No treatment. 2016 Heavy beech scale with the beech falling apart.
45	4133 - Aspen, Mixed Pine	Sapling Well	79.7	18	Immature	OPIC - FMD: Stand was harvested last YOE as part of Blatz Hill Aspen 52-038-98-01, 10-30 BA of Oak left as seed source, about a dozen of those trees were selected for scarification. Stand has regenerated very well to a mix of Aspen, Jack Pine, and Oak. There are several RP and WP seedlings well established too. No treatment. 2016 Hilly slopes on the north and west side of the stand.
46	4310 - Pine, Oak Mix	Sawtimber Well	20.7	101	111-140	OPIC - FMD: Old mature super canopy WP and RP with large NRO, over an M6 - A6 type, m2 understory, along with BF, WP seedlings/saplings. Very unique stand, POG, or OG. Stand is across from Crochran Lake public access site. No treatment. 2016 Stand of very tall, large diameter White and Red Pine. Wet drainage way in center of stand. Heavy deer tracks under the cedar. Higher amount of balsam fir understory north of drainage.
47	4310 - Pine, Oak Mix	Sapling Well	1.4	21	Immature	OPIC - FMD: RP, thinning last YOE, Take 2, leave 3 rows. Doing fine BA not requiring thinning yet.
49	4199 - Other Mixed Upland Deciduous	Sawtimber Well	23.2	101	81-110	OPIC - FMD: Sparse stand of mature Oak with immature pole timber of aspen, WP, RM No treatment. Cochran lake public access is just west of this stand. 2016 Some x-sized White Pine along Old Onaway Road. BA is 87.
51	42110 - Planted Red Pine	Poletimber Medium	12.9	34	1-50	OPIC - FMD: RP saplings with component of JP, almost pole sized. Sparse in some areas. 2016 Short, slow growth on Red Pine. Some small pockets of no trees.
52	4123 - Red Oak	Sawtimber Poor	32.5	96	1-50	OPIC - FMD: Oak stand w RO and WO both well represented, both saws and pulp. Aspen is mature, RM scattered throughout the stand. Shelterwood harvest, by removing all aspen and RM, leave Oak and WP (few individuals) protect WP understory. Specify short wood operation to minimize damage to residual Oak and WP. Acceptable Regen will be a mix of Aspen, Oak, and RM. STAND WAS HARVESTED IN MAY 2012. DS. 2016 BA is 50. Stand is wetter to the north.
53	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	15.2	91	51-80	OPIC - FMD: Poor quality Pin Oak over aspen and JP regen. A few scattered RpP here and there. No treatment. 2016 BA is 67. Some bigger diameter Jack Pine 10 DBH.
54	4123 - Red Oak	Sawtimber Well	6.9	96	111-140	OPIC - FMD: Small stand on high ground, adjacent to ravine leading to the Pigeon River. Stand was left out of adjacent harvest, two track was used rather than running the private boundary. Canopy is closed, but mast production is great. 2016 A few x-sized red Oak trees. BA is 120.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	4131 - Aspen, Oak	Sapling Well	69.7	18	Immature	OPIC - FMD: Stand was harvested last YOY. Regen looks good, mostly aspen and good oak regeneration around residual oak from harvest. Also several RM stump sprouts. Oak reproduction is mostly from seed, doing well competing with aspen. Nice mix of WO,RO,and Pin Oak in the overstory, but less than 10 ba across the stand. No treatment. Old Comments: LEAVE ALL OAK OVER 8" PROTECT WHITE PINE REPRO. 2016 No comments.
57	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	25.6	36	Unspecified	OPIC - FMD: Jack Pine Saplings with less than 10 BA of pin oak over top. No treatment. 2016 Very short, very branchy, poor quality, Jack Pine of 1 to 2 sticks tall.
58	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	31.8	5	Immature	OPIC - FMD: Mature JP stand, poor quality stems, same with oak. Stand is bordered by Old Onaway Rd and Big Sky Trail, visual management is going to be a concern, leave 5 trees per acre to address those concerns, require low stump heights. Chip tops. Re-plant to JP. 11/15/2011 HARVEST COMPLETED 07/2011. GRECO HAS POSTPONED CULTURAL TREATMENTS FOR ONE YEAR TO RE-EVALUATE EXCEPTIONAL OAK REGENERATION. STAND WAS TRENCHED IN 2011 AND PLANTED TO JACK PINE 05/2012.
60	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	50.6	5	Immature	OPIC - FMD: Mature stand of JP, sparse area in middle of stand between RP stands. Final harvest, chip tops. Re-plant to Jack Pine. 11/15/2011 HARVEST COMPLETED IN 2011. GRECO HAS POSTPONED CULTURAL TREATMENTS TO RE-EVALUATE EXCEPTIONAL OAK REGEN. 12/13/2012 STAND WAS TRENCHED 12/13/2011 AND RE-PLANTED TO JACK PINE 05/2012.
61	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	31.6	58	111-140	OPIC - FMD: Planted RP, 40 yrs old, BA of RP is at about 130, when you add the oak and scattered JP BA is at 190. Thin stand, take out every third row and remove all JP in adjacent rows. Cut the Oak in the Take rows, leave on ground for CWD, stand will result in a BA of about 120. 11/15/2011. HARVEST COMPLETED IN 2011. 2016 Better quality, straighter trees compared to stand 63. BA is 113.
63	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	25.7	58	111-140	OPIC - FMD: Planted RP, 40 yrs old, BA of RP is at about 130, when you add the oak and scattered JP BA is at 190. Thin stand, take out every third row and remove all JP in adjacent rows. Cut the Oak in the Take rows, leave on ground for CWD, stand will result in a BA of about 120. 11/15/2011 HARVEST COMPLETED IN 2011. 2016 BA is 120 Some areas of smaller diameter Red Pine. There is small area in the north part of the stand that was not thinned during the cutting in 2011.
64	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	29.0	5	Immature	OPIC - FMD: Mature JP stand. Stand is adjacent to old Onaway Rd., visual concerns may become an issue. Final harvest, chip tops, replant to Jack Pine 11/15/2011. HARVEST COMPLETED IN 2011. GRECO HAS POSTPONED CULTURAL TREATMENTS TO RE-EVALUATE MO BECAUSE OF EXCEPTIONAL OAK REGEN. 12/13/2012 STAND WAS TRENCHED 12/13/2011 AND RE-PLANTED TO JACK PINE 05/2012.
65	42110 - Planted Red Pine	Sawtimber Well	4.0	58	141-170	2016 Stand has never been treated. 3-stick tall, very branchy, slow growth Red Pine. BA is 150.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	42110 - Planted Red Pine	Sawtimber Well	5.7	58	51-80	2016 Poor quality Red Pine that is 2 stick tall and very branchy. BA is 77. Jack Pine planted in Red Pine planting. Some larger 10 DBH Jack Pine. Jack Pine planted in Red Pine planting.
67	42120 - Planted Jack Pine	Poletimber Well	148.9	40	Unspecified	OPIC - FMD: OI Stand Year Origin was 1977. 2016 Some 10 DBH Jack Pine scattered in stand.
68	42110 - Planted Red Pine	Sawtimber Well	3.0	58	111-140	OPIC - FMD: RP pole timber with JP component, small acreage. 2016 Stand has not been thinned. Some 10 DBH Jack Pine. BA is 120.
69	42120 - Planted Jack Pine	Sapling Well	99.3	18	Immature	OPIC - FMD: Planted last YOY, doing well. 2016 No comment.
70	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	39.4	6	Immature	OPIC - FMD: Poor quality JP, mature with Oak component. Final harvest, chip tops. Plant to Jack Pine. UPDATE: Stand was clearcut as part of contract 52-120-08-01. FTP has been created for planting. (Scheele) STAND WAS FINAL HARVESTED IN 2009, TRENCHED IN 2010, AND RE-PLANTED TO JACK PINE IN 2011. 2016 Retention area in north part of stand.
71	42220 - Natural Jack Pine	Poletimber Well	72.5	38	1-50	OPIC - FMD: Low stocking, open grown JP with Pin oak seedlings mixed in. No treatment. 2016 Very branchy Jack Pine.
73	42110 - Planted Red Pine	Sawtimber Poor	3.7	58	81-110	OPIC - FMD: RP JP mix, planted in 1961 (old oi) poor quality and stocking. No treatment. 2016 Red Pine is very branchy and short. Hard to see the rows. BA is 100.
75	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	4.5	57	171-200	OPIC - FMD: RP pole stand with JP mixed in, ba 120. No treatment. 2016 Variable DBH in red Pine from 4 to 10 inches with poor growth rings in last 20 years. Some Jack Pine dying and falling over. BA is 177.
76	42110 - Planted Red Pine	Poletimber Well	12.7	58	111-140	OPIC - FMD: RP pole stand with JP mixed in, ba 120. No treatment. 2016 Jack Pine dying out. Variable DBH in Red Pine from 3 to 10 inches. Hard to see the rows. BA is 113.
77	42250 - Pine, Oak	Sapling Well	73.2	8	Immature	OPIC - FMD: Mature Jack Pine with Oak component. Final harvest, mark 2 JP trees an acre as seed trees and 3-5 Oak per acre as leave trees, when harvesting specify to leave 50% of the tops on the ground to help carry the fire, chip the rest. Do a post harvest burn after seed drops to promote natural JP reproduction. UPDATE: Stand was clearcut as part of contract 52-120-08-01. FTP has been created for planting. AFTER POST-HARVEST SURVEY, IT WAS DECIDED TO LET NATURAL REGEN OCCUR AND NOT TO TRENCH AND PLANT THIS STAND. RE-EVALUATE FOR POSSIBLE HERBICIDE RELEASE. 2016 No comments.
79	42110 - Planted Red Pine	Poletimber Well	52.5	34	51-80	2016 20 to 30 feet tall Red Pine Missing trees within the rows and in pockets. Canopy closure is closer to 75%. BA is 80.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	42110 - Planted Red Pine	Sawtimber Well	9.0	76	171-200	OPIC - FMD: RP, thinning last YOE, Take 2, leave 3 rows. Doing fine BA not requiring thinning yet. 2016 Jack Pine removed in 1998. Areas of 3 to 6 rows of red Pine with areas of 2 rows removed. DBH is variable from 4 to 12 inches. BA is 188.
85	42140 - Planted Mixed Pine	Poletimber Well	31.4	34	51-80	OPIC - FMD: RP saplings with component of JP, almost pole sized. Sparse in some areas. 2016 Some Jack Pine dying out. BA is 70.
87	42220 - Natural Jack Pine	Sawtimber Medium	2.8	81	51-80	OPIC - FMD: Mature JP stand, med stocking level. Stand is adjacent to M-68, south side of M-68 highway, small triangle shaped piece between highway and Crumley Creek Rd. 2016 Jack Pine dying out.
88	6124 - Lowland Spruce-Fir	Sawtimber Well	14.9	66	111-140	OPIC - FMD: Ravine with Q type, intermitten flow of water. No treatment. 2016 No comment.
89	4123 - Red Oak	Sawtimber Poor	22.8	96	1-50	OPIC - FMD: Oak stand with healthy component of pole timber and saws. Stand has a fair amount of hardwood competition, Aspen are mature. Ridge tops have stunted tree heights, all species, west side of ridge is lesser quality, lower stocking. Prescription: Shelterwood, mark 40 BA of mature healthy crowned Oak as leave trees for regen protection, age class diversity, mast production, and seed source. Do not cut scattered RP and WP. Harvest all aspen, various hardwood species, and unmarked Oak. 11/15/2011 SALE COMPLETED 10/11. ABOUT 20 SQ. FT. OF RED OAK WITH REGENERATING HARDWOOD AND ASPEN IN UNDERSTORY. 2016 Very hilly with a west facing slope. Current BA is 20. Previous management objective was oak.
90	42220 - Natural Jack Pine	Sawtimber Well	12.3	71	81-110	2016 This stand is retention for stands 70 and 77.
91	4130 - Aspen	Poletimber Well	27.6	39	81-110	OPIC - FMD: Stand harvested in 1978, left some residual oaks from the harvest. Regen is mostly aspen, with a decent component of Oak and RM as well. Stand has trail road running north/south through stand which leads to blatz hill from the northwest. No treatment. 2016 No comment.
92	42210 - Natural Red Pine	Sawtimber Well	15.1	91	81-110	OPIC - FMD: Two aged stand of Oak overstory with scattered aspen, hardwood understory still immature. There is also a decent WP/RP component of all size classes. Let hardwood mature. 2016 Stand was cut in 2011. A more dense 2 acre pocket of untreated Red Pine is in southwest corner of stand. Nice quality, tall 12 inch DBH trees. BA ranges from 80 to 126. Small pocket of x-sized DBH White Pine in southeast corner of stand. Possible retention area if treated.
93	4122 - Oak, Pine	Sawtimber Medium	33.5	91	51-80	OPIC - FMD: Aspen/Oak/RP stand with component of red maple through out. Aspen is mature, Oak is decent, poor quality for product, but valuable mast producers. Final harvest with residuals. Leave all Oak, RP, WP. Harvest all aspen and RM. Aspen will regenerate with a mix of Oak and pine. 11/15/2011 HARVEST COMPLETED 10/2011. 2016 Aspen was the M.O. for this stand. Currently 60 BA. Pockets of higher residual BA.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
94	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	19.4	86	111-140	OPIC - FMD: Stand is located near the top of Blatz Hill. Variable stocking levels of RP, short for it's age (typical height for top of hill). Some areas heavier to poor quality BT aspen pole timber, not yet mature. Would recommend holding harvest until regen from harvests to the south have reached 20 ft. tall. This harvest will be visible from great distances. No treatment this YOE. 2016 Very hilly with short, steep slopes. Poor quality aspen with slow yearly growth on the Red Pine. Mostly pole-sized timber with some logs. DBH is fairly variable. Pockets of smaller diameter timber. Higher concentration of aspen in center of stand. BA is 130.
95	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	15.1	38	Unspecified	
96	4123 - Red Oak	Sawtimber Medium	17.2	91	1-50	OPIC - FMD: Nice quality stems of northern red oak and various hardwood species, on the top of Blatz Hill, Soil is an East Lake sand. Stand has Aspen clones that are mature and should be removed before they start to decline. Oak crowns are becoming crowded. Thin stand to 70 BA, mark trees Oak and hardwood trees to cut, designate aspen for harvest, leave tree mark a few aspen per acre to leave as snag trees. Found Leatherwood in the stand. 11/15/2011 HARVEST COMPLETED 10/2011. 2016 Canopy closure is closer to 50%. Current BA is 50. Epicormic branching on many of the residual oak trees. Management objective for this stand was oak.
97	4199 - Other Mixed Upland Deciduous	Sawtimber Well	23.8	96	81-110	OPIC - FMD: Very steep slopes heading West to the top of Blatz Hill, nice hardwood site, good quality Red Oak also. Regen is apparent in the stand, canopy has not closed. No treatment. 2016 Very hilly with steep slopes and ravines. Would be very difficult to run equipment in this stand. BA is 110.
99	4122 - Oak, Pine	Poletimber Well	4.9	29	Immature	OPIC - FMD: RP planted in 1988, stocking levels vary. NE corner of stand has no RP, only Oak stump sprouts, was not planted. 2016 Possibly a failed planting area. Evidence of old trenches but no trees in them. May want to combine stand with the stand to the north in the next YOE.
100	4133 - Aspen, Mixed Pine	Poletimber Well	6.2	38	1-50	2016 Small hill running west to east along the south boundary of the stand. Red Pine is located on top of small hill.
102	4130 - Aspen	Sapling Well	26.6	28	Immature	OPIC - FMD: Aspen regen 20 yrs old with residual oak, 10 ft/ac and RP. Hardwood component mixed in with Aspen. No treatment. 2016 Stand density is higher compared to the stand 42 to the south. Stand is relatively hilly with a few ravines to the south.
103	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.7	86	81-110	11/15/2011 ADJACENT HARVEST COMPLETED 10/2011. 2016 This area was never cut during timber harvest in 2011. Very hilly with steep ravines and slopes running to the east. Pockets of Red Pine on top of the ridges. Poor quality, multi-stemmed hardwood trees. Beech scale is present on the beech. There is an iron post at the 40 acre section line with blue paint along the north boundary of the stand. BA is 96. Would be very difficult to run equipment in this stand because of the steep slopes.
104	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	2.8	71	111-140	12/18/2015 This is the retention to stand 136.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
106	6112 - Lowland Aspen	Sapling Well	10.0	16	Immature	OPIC - FMD: Stand was harvested in 2000, sale was not totally finished, left about 4 acres. Regen looks great except for landing area. This portion of the stand as moderately low stocking, A1. Regen is a mix of QA and BTA, with RM stump sprouts. This stand will provide nice visual barrier from Silery road for harvest prescribed in stand 136. Old Comments: ASPEN C/C WITH SOME OAK RESIDUAL. SALE NOT FINISHED DUE TO WETNESS. 2016 No comments.
107	42290 - Natural Mixed Pine	Sawtimber Well	24.9	106	81-110	OPIC - FMD: Long linear stand following banks of Kimberly Creek and other streams leading to the little pigeon river. Beaver activity is heavy in some areas of the stand, other areas range from an E type to a Q type. Large WP are scattered throughout the stand, wet ground and surrounded by steep banks, which prevent it from ever being harvested, along with BMP concerns. Recommend entering the stand as a POG.
108	42290 - Natural Mixed Pine	Sawtimber Well	21.8	66	81-110	2016 BA is 110 with scattered pockets of higher BA.
110	6113 - Lowland Maple	Poletimber Well	2.1	51	111-140	2016 Multi-stemmed clumps of Red Maple with some larger diameter trees. Flooded area
111	429 - Mixed Upland Conifers	Sawtimber Well	20.8	61	81-110	2016 South part of stand has higher amount of White Pine and is more upland. White Pine is fairly branchy. BA is 100.
112	42210 - Natural Red Pine	Sawtimber Well	23.4	101	81-110	OPIC - FMD: Long linear stand following steep ravines associated with little Pigeon river, Kimberley Creek, and Morrow Creek, which all come together in the compartment. The Pine type is more prevalent on the side slopes and on top of the ravines where they level off. Bottom of the ravines are Q types, too small to delineate as separate stand. Area is too steep to harvest, especially with no access from the bottom of the ravines where it's too wet. 2016 White Pine is very branchy. BA is 83.
113	42210 - Natural Red Pine	Sawtimber Well	11.4	106	111-140	2016 BA is 123. Factor limit because of BMP's adjacent to watercourse.
123	6120 - Lowland Cedar	Poletimber Well	24.1	101	51-80	OPIC - FMD: Very Dense stand of cedar, variable in size and stocking depending on location within stand. Dense areas had BA's @ 290sq', others were down around 200sq'. More BF in areas of lesser stocking. Heavy deer use for bedding, also a lot of Snow Shoe Hare sign. NO TREATMENT. 2016 No comments.
130	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.1	89	111-140	OPIC - FMD: Even aged stand of NH along Ostrander rd, north edge, low stocking, poor quality. Aspen are mature in most areas of the stand. This stand was a buffer left when harvests to the north were done. There are very few stands still at a hardwood type in the comp, so recommend holding for age/size/cover type diversity. Considered removing aspen, but residual stand would be damaged significantly during harvest. 2016 Poor quality, multi-stemmed trees with beech scale and beech dying out. BA is 111.
139	6118 - Lowland Deciduous with Cedar	Poletimber Well	8.4	39	111-140	

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Gaylord Mgt. Unit

Report 7 – Forested Stands

Compartment: 175

Year of Entry: 2018



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
141	42110 - Planted Red Pine	Sawtimber Well	7.7	58	111-140	OPIC - FMD: Planted RP, thinned every third row last YOE, needs second thinning this YOE. Mark stand to 90 BA. 2016 Thinned in 2010. BA is 120.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	622 - Lowland Shrub	19.5	No	OPIC - FMD: Lowland Brush, stream runs into Little Pigeon River, stream flowing East to west. Several Beaver Dams.
3	330 - Low-Density Trees	0.8	No	
7	310 - Herbaceous Openland	2.0	No	
11	623 - Emergent Wetland	29.2	No	OPIC - FMD: Lowland Brush, stream runs into Little Pigeon River, stream flowing East to west. Several Beaver Dams.
35	622 - Lowland Shrub	1.3	No	OPIC - FMD: Small depression with lowland Brush type.
43	622 - Lowland Shrub	5.8	No	OPIC - FMD: Lowland brush with many snags, most of L type is on pvt, this stand is a small piece on state.
72	330 - Low-Density Trees	4.1	No	OPIC - FMD: Sparse regen, will continue to grow to an Oak Barren type, small acreage. 2016 Changed to a low density tree stand.
78	122 - Road/Parking Lot	5.8	No	OPIC - FMD: Old Onaway RD and adj power line
83	122 - Road/Parking Lot	12.7	No	OPIC - FMD: Old Onaway RD and adj power line
86	122 - Road/Parking Lot	12.5	No	OPIC - FMD: m-68
98	122 - Road/Parking Lot	1.7	No	OPIC - FMD: Ostrander RD county Gravel road
101	330 - Low-Density Trees	2.4	No	
105	310 - Herbaceous Openland	1.3	No	
109	330 - Low-Density Trees	1.8	No	
136	6230 - Cattail	23.6	No	OPIC - FMD: Lowland hardwood stand with strong component of WB throughout. Also a decent component of Aspen and Black Ash. Aspen are mature-over mature. Would like to promote Birch regeneration in the stand after harvest. Mark 20 BA of leave trees of healthy crowned WB. Specify summer cut for scarification purposes, recommend tree length skidding as well. Acceptable mix of regen will include WB, Bam, Aspen, RM, BF, BA. 2016 Stand was cut in 2012. Residual White Birch trees are dead or dying. No regeneration at this time. Stand 104 is retention for this stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
400	3303 - Mixed Low Density Trees	4.2	No	OPIC - FMD: Nice opening, could be planted in conjunction with 401. Cedar swamp to the East, A3 to the west, May be able to work with Afton deer management group to maintain, possible Ruffed Grouse Society funds as well.
401	310 - Herbaceous Openland	0.9	No	OPIC - FMD: Nice opening, smaller than st 400, but could be planted in conjunction with it. Cedar swamp to the East, A3 to the west, May be able to work with Afton deer management group to maintain, possible Ruffed Grouse Society funds as well. 2016 No comments.
403	3303 - Mixed Low Density Trees	4.0	No	OPIC - FMD: Nice opening, could be planted in conjunction with 400, 401. L type to the south, A3 to the north, May be able to work with Afton deer management group to maintain, possible Ruffed Grouse Society funds as well.