



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52013

Entry Year 2019

Acreage: 2,767

County Otsego

Management Area: AuSable Outwash

Revision Date: 2017-03-14

Stand Examiner: Hilary Wells

Legal Description:

T29N, R2W, Sections 13,14,15,22 & 23.

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, and environmental, and economic benefit of the State of Michigan.

Soil and topography:

This compartment is relatively flat with some areas that slightly slope down toward swampy, wet areas. Soil types include Rubicon sand, Croswell-AuGres sands, Kinross-AuGres sands, Tawas-Leafriver mucks, Au Gres sand, AuSable-Bowstring mucks, Deford mucks, Histosols, Graycalm sands, and Grayling sand.

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

Sections 14 and 15 are all state ownership. Sections 13, 22, and 23 have private parcels interspersed as noted on the map. There is a large gas well facility in section 15, numerous gas wells scattered throughout the entirety of the compartment, and extensive buried gas well pipelines.

Unique Natural Features:

Crapo Creek. There are also several representative white pine stands within this compartment which will be managed for their historic, unique, visual, and representative values.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The grass stands and young aspen stands on the western edge of the compartment are managed designated grouse habitat. There is a proposed Type 2 Old Growth stand and a few other smaller stands that may meet other SCA requirements.

Watershed and Fisheries Considerations:

This compartment is in the Au Sable River watershed, and contains portions of Crapo Creek, and an unnamed tributary to Crapo Creek. Crapo Creek is a warm water stream in this area. Proposed prescriptions for this compartment are fine, and promote wildlife species diversity in the riparian zone.

Wildlife Habitat Considerations:

This compartment contains both upland and lowland areas. The lowland area is used by bear, deer, and snowshoe hares. There is a considerable amount of hunting pressure from both upland game hunters and deer hunters throughout this compartment. Both aspen and lowland areas have been managed in the past to promote wildlife habitat. More aspen will be managed this year of entry to maintain early successional habitat. The western stands along compartment 14 are actively managed and are heavily travelled by deer, grouse, woodcock, and open land song birds.

Mineral Resource and Development Concerns and/or Restrictions

The compartment is within the Antrim Shale gas play and the northern Niagaran reef trend. All state land within the compartment is currently leased and held by production. The South Chester 15 underground gas storage field is also within the compartment, which is still producing residual condensate from the storage reservoir. There is some potential for additional Niagaran wells, but the compartment appears fully developed for the Antrim. Sand and gravel pits are not located in the area, but sand potential appears to be good on the uplands.

Vehicle Access:

Turtle Lake Road and Lovells Road are two well traveled seasonal roads that run through this compartment. There are also well kept gas well roads and two-tracks connecting the many gas wells.

Survey Needs:

None known.

Recreational Facilities and Opportunities:

The North Branch Snowmobile Trail and parking lot and ORV trail which is located primarily on the snowmobile trail. The Crapo Creek Motorcycle Trail is also routed through this compartment.

Fire Protection:

The U, UM, and A types along the western boundary are frequently burned for wildlife management with adjacent stands in compartment 14.

Additional Compartment Information:

Most of the compartment is PArVHa with some PArVVB Kotar classifications.

The following reports from the Inventory are attached:

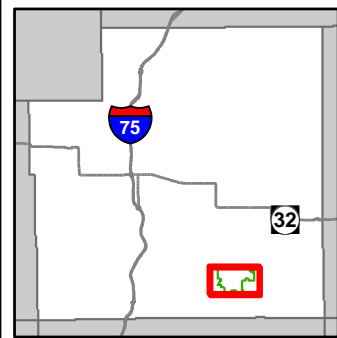
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

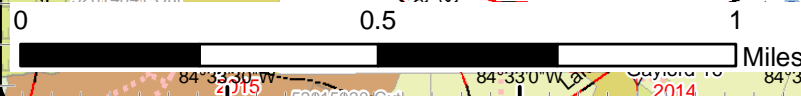
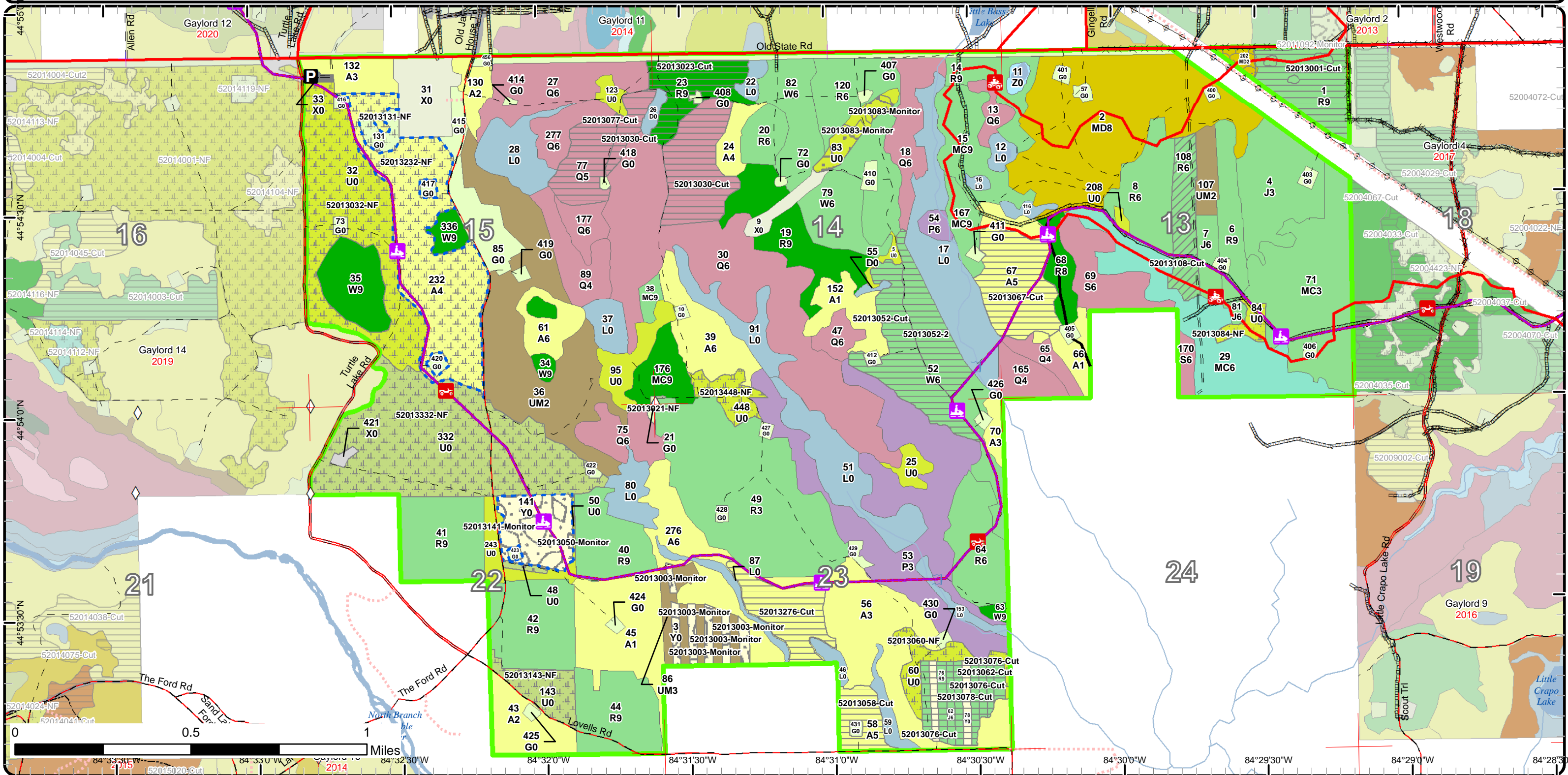
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 13
 T29N, R02W, Sec. 13-15, 22-23
 County: Otsego
 Unit: Gaylord
 Mgmt Area: AuSable Outwash
 YOE: 2019
 Acres: 2766.9 GIS Calculated
 Examiner: Hilary Wells
 Map Revised: 9/12/2017
 Map Phase: Post-Review



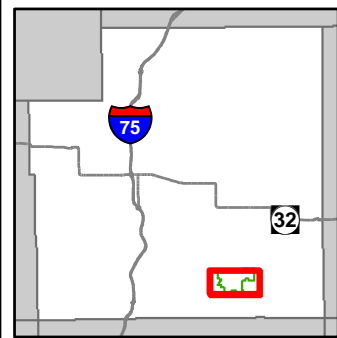
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- Remonumented Section Corners
- Field Grade GPS Corners
- Counties
- Culvert
- Parking Lot
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV
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- Fence
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Site Prep
- 413 - Aspen
- 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
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil
- 790 - Other Bare/Sparingly Vegetated
- Lakes



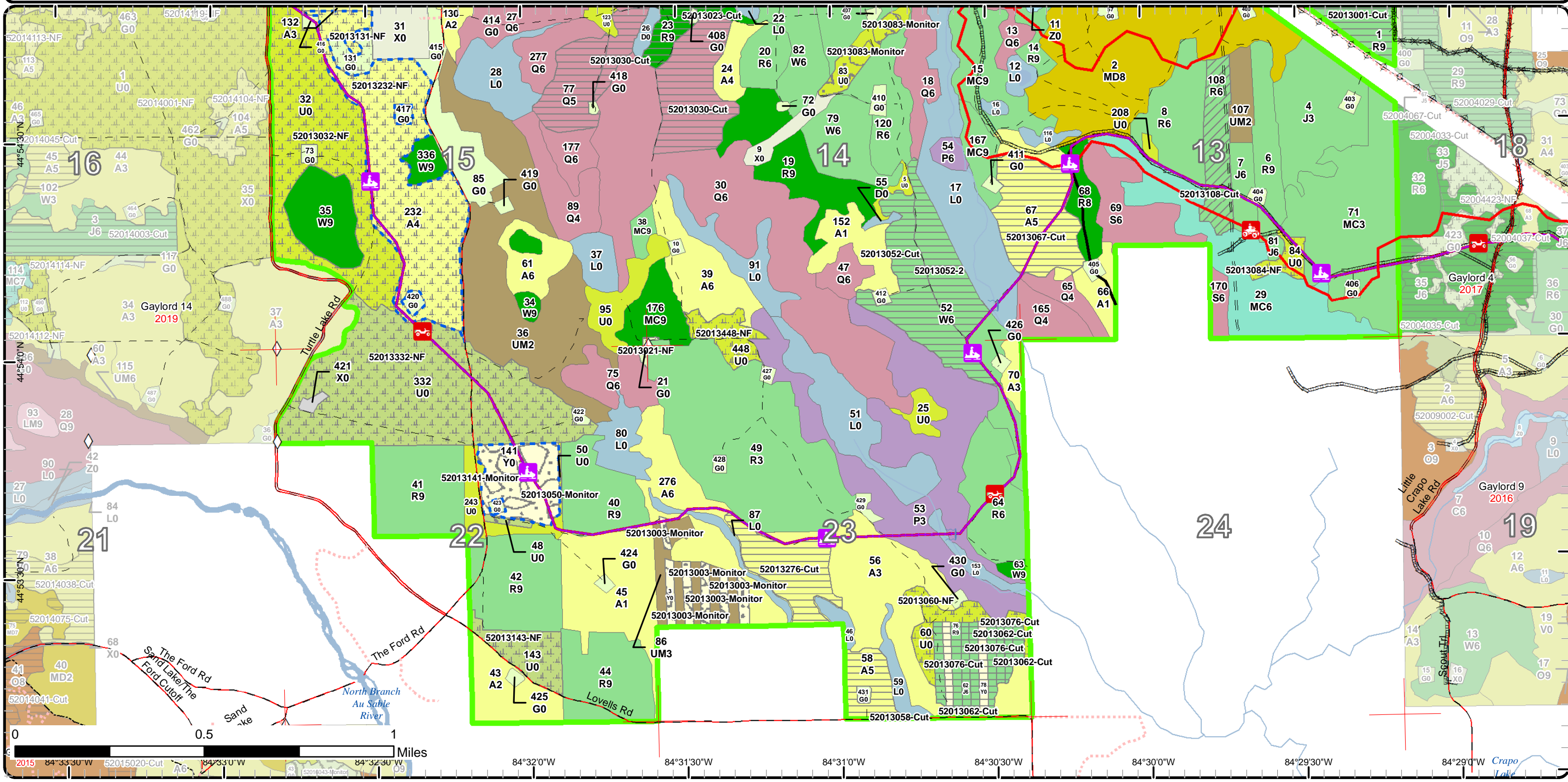
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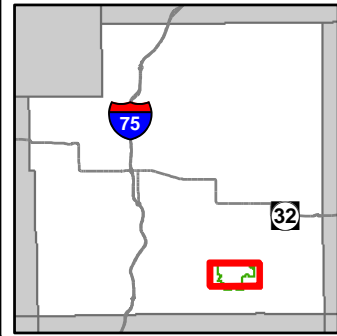


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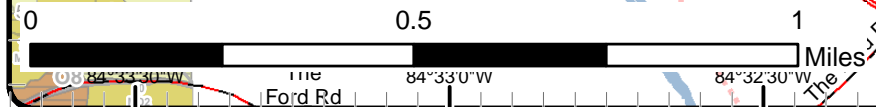
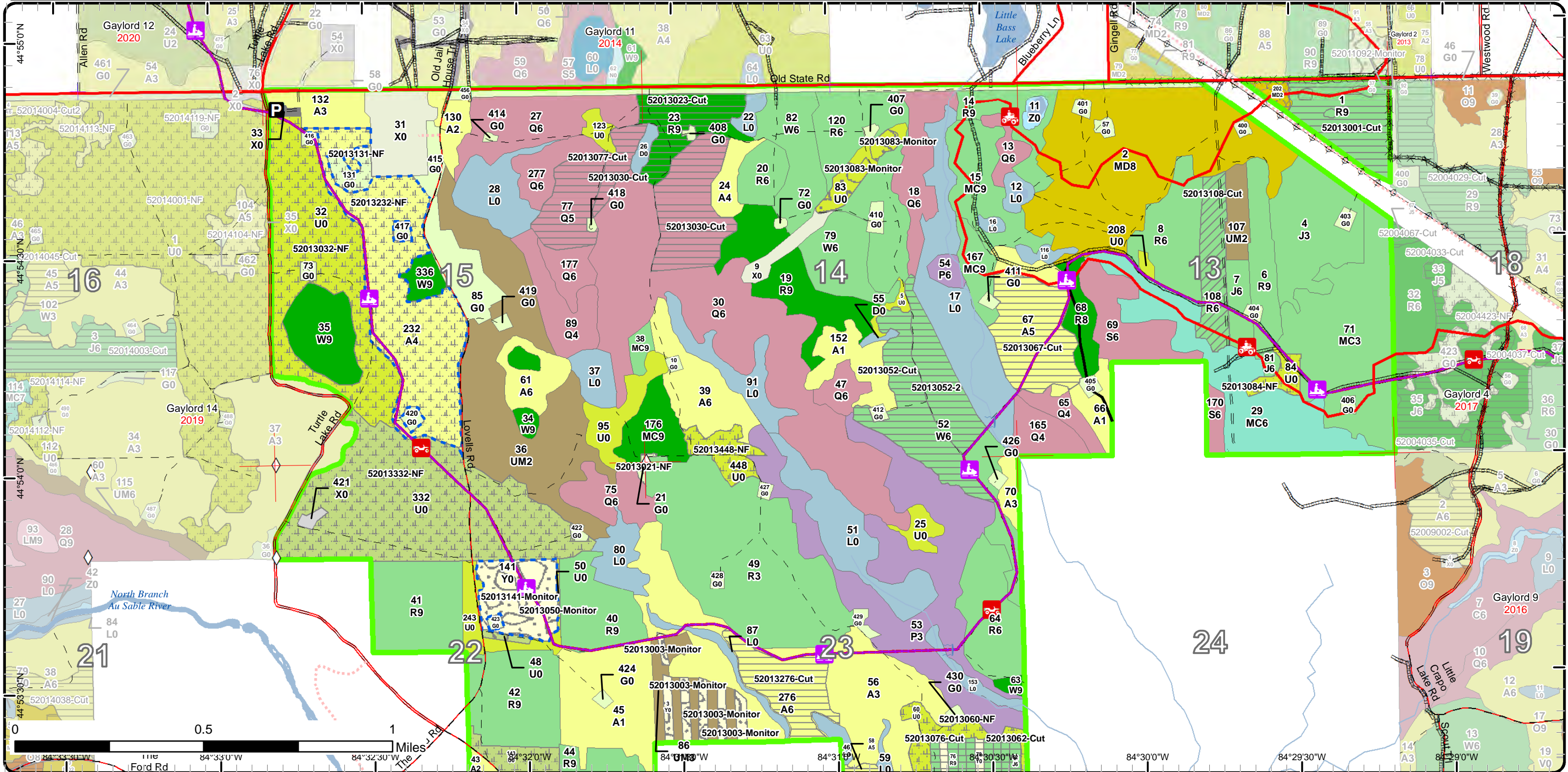


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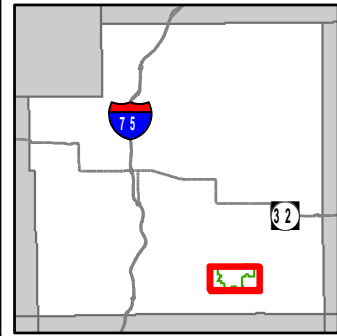


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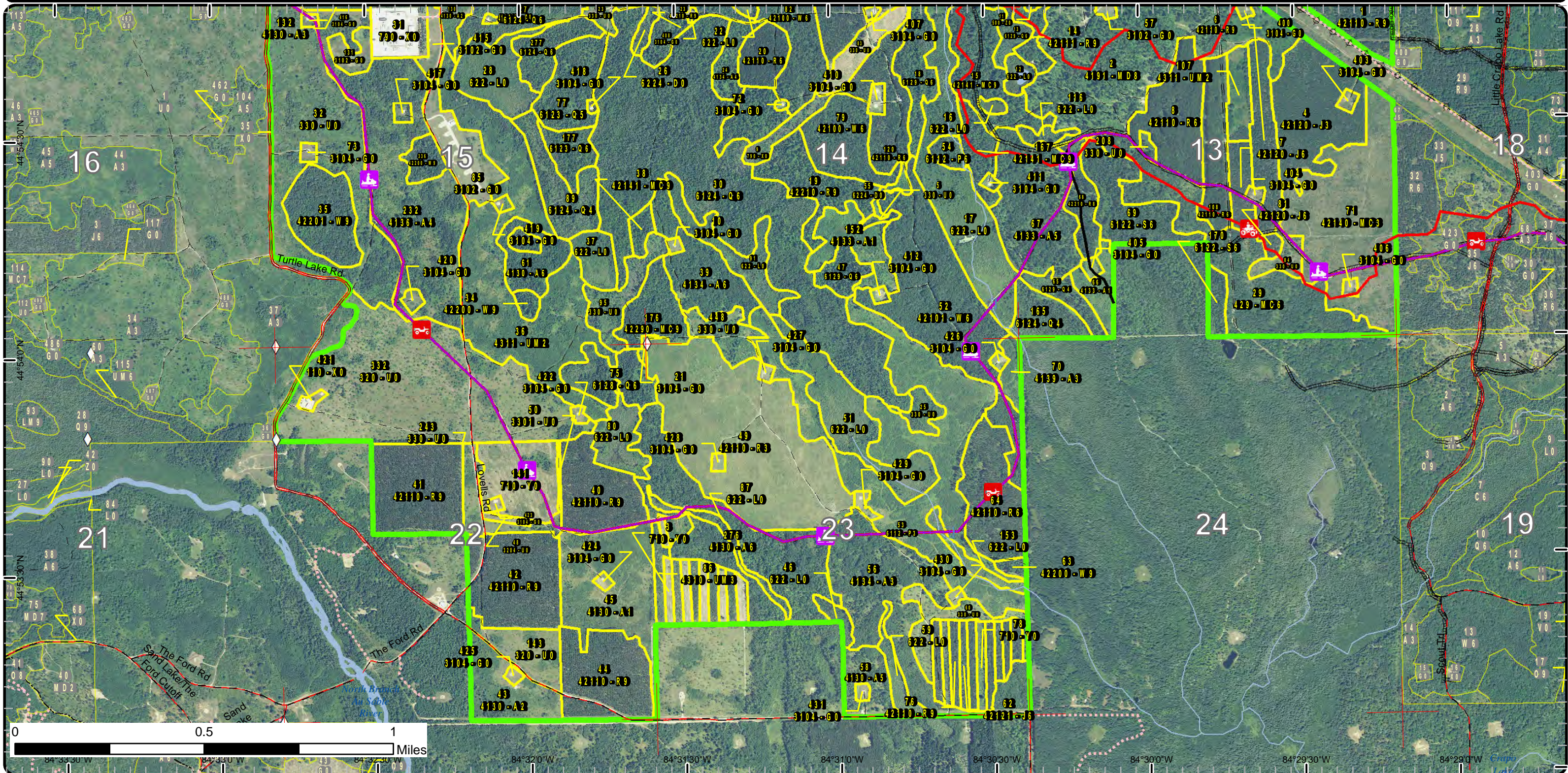


Stand Boundary Map

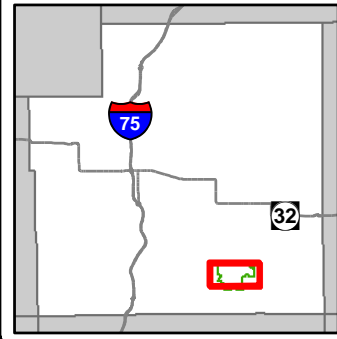
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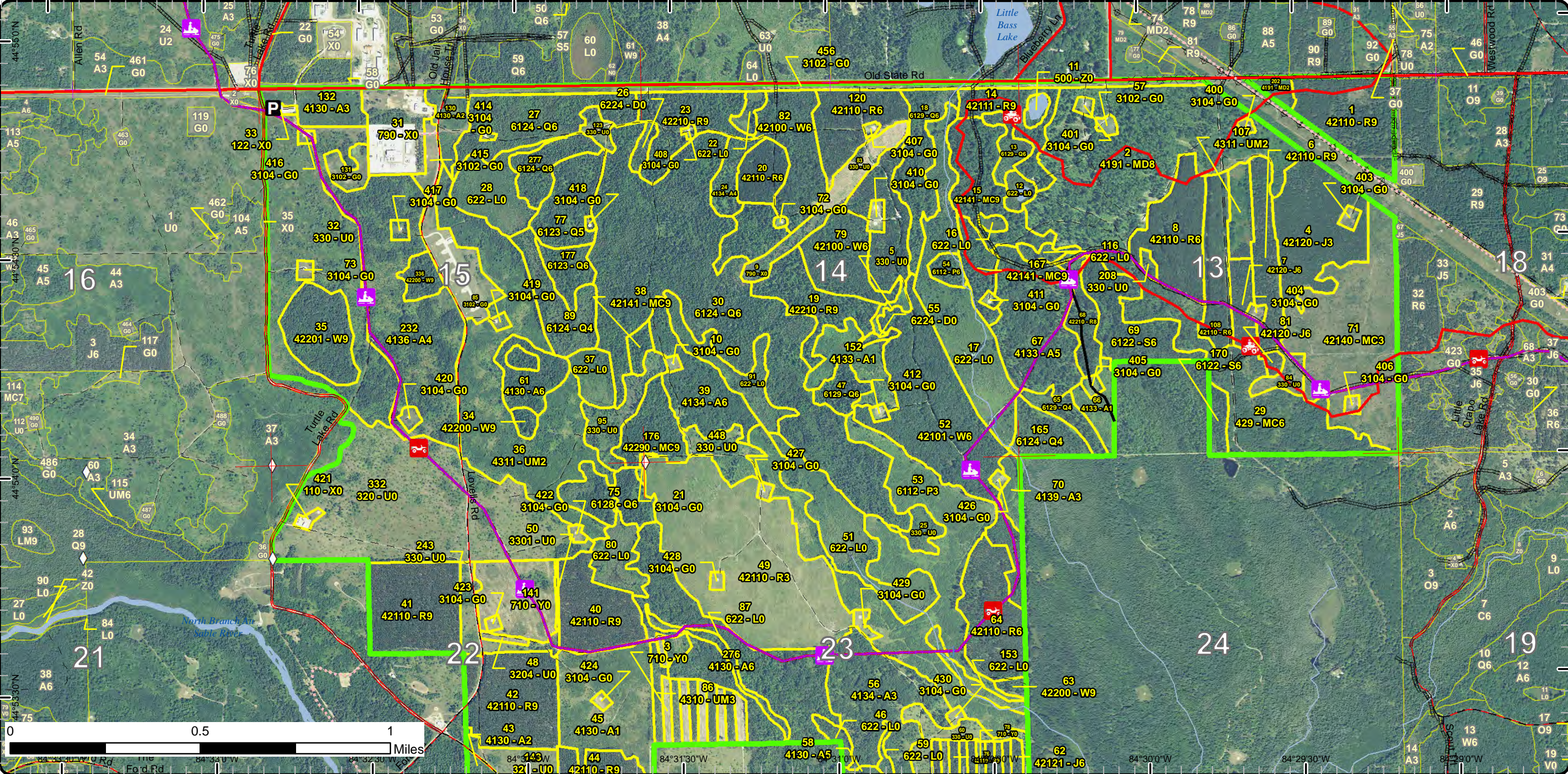


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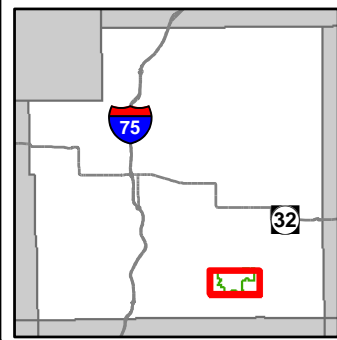
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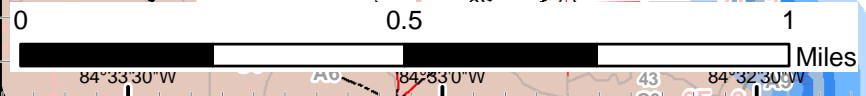
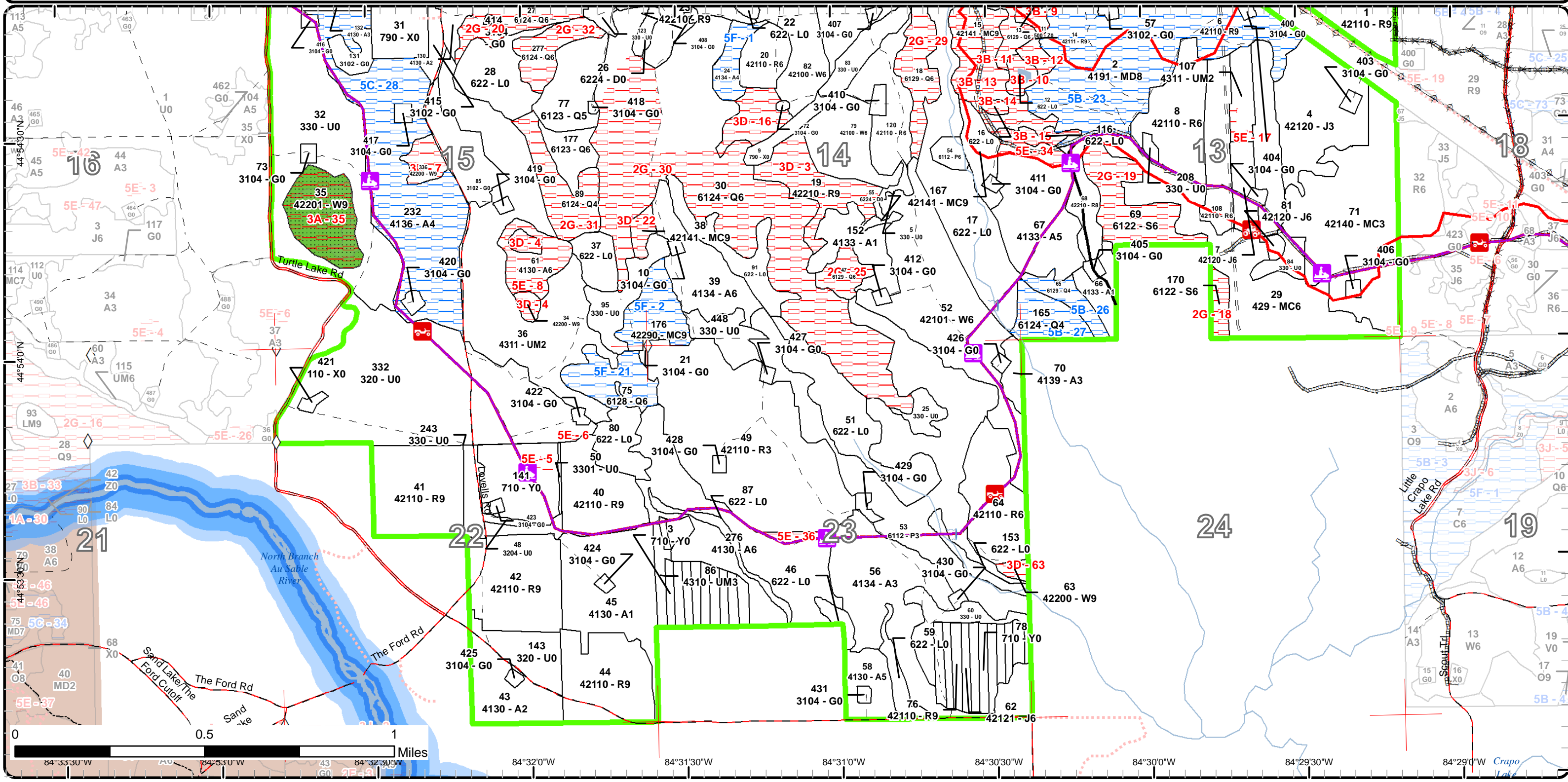


Special Conservation Areas & Site Conditions Map

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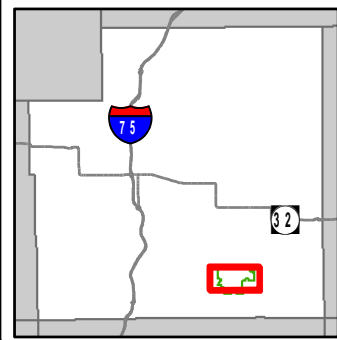


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- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Verified Type 1 Old Growth
- Research, Development, and Military Lands
- Possible Type 1 Old Growth

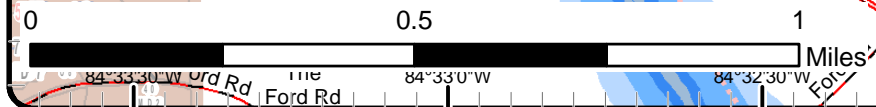
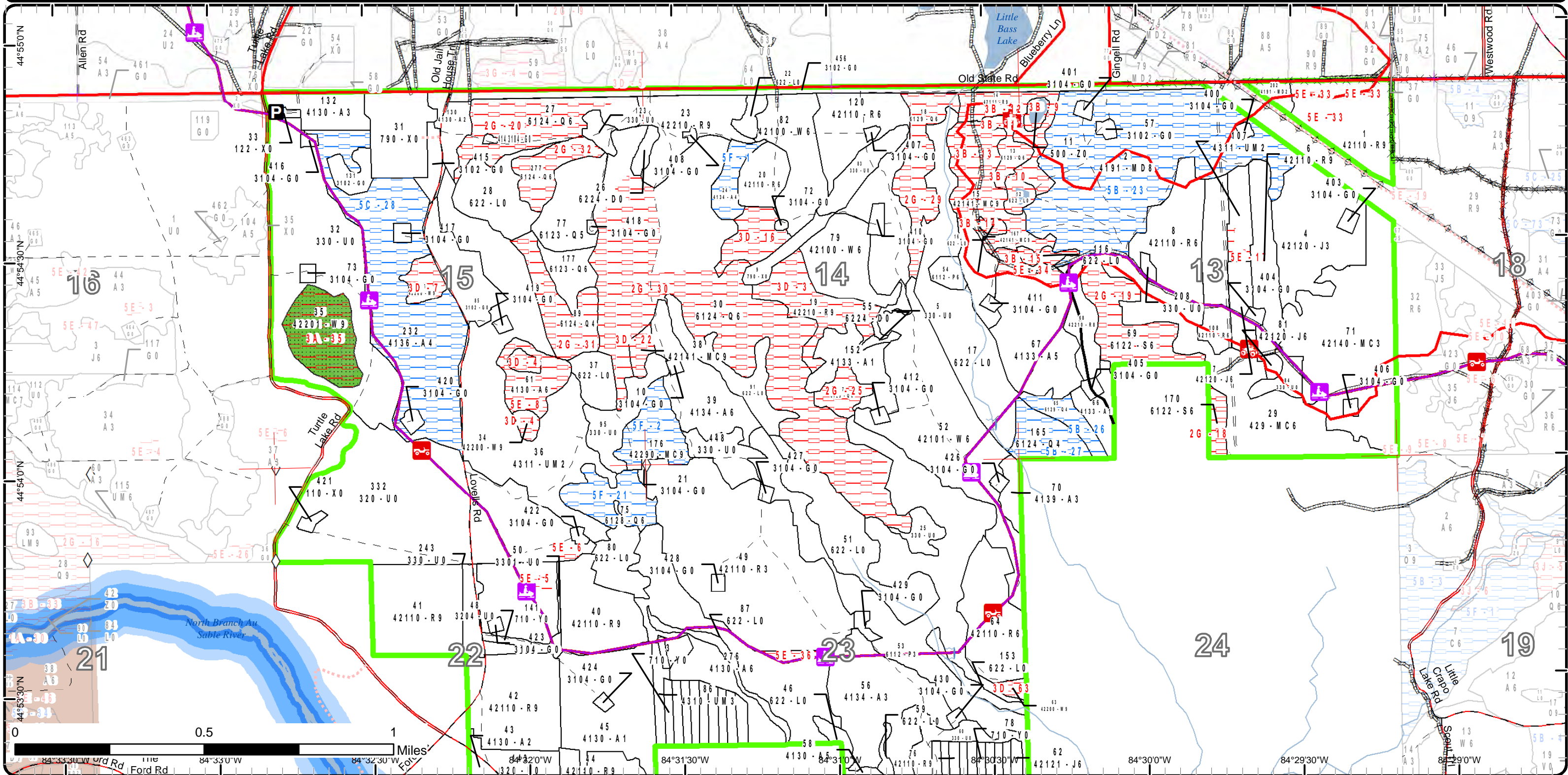


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Report 1 – Total Acres by Cover Type and Age Class



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	123	0	87	92	44	95	0	0	0	0	0	0	0	0	0	0	0	441
Bare/Sparsely Vegetated	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Herbaceous Openland	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
Jack Pine	0	0	0	42	0	9	10	0	0	0	0	0	0	0	0	0	0	0	61
Low-Density Trees	162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162
Lowland Aspen/Balsam Poplar	0	101	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	105
Lowland Conifers	0	0	0	0	0	0	64	34	0	48	7	192	0	0	0	0	0	0	345
Lowland Shrub	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	0	4	0	0	0	0	0	0	0	117	0	0	0	0	0	0	0	0	121
Natural Mixed Pines	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	17
Planted Mixed Pines	0	76	0	0	0	0	11	28	0	0	4	0	0	0	0	0	0	0	119
Red Pine	0	107	0	0	0	0	220	151	0	24	0	0	0	0	0	0	0	34	536
Sand, Soil	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Upland Mixed Forest	0	103	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121
Upland Shrub	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	120	0	0	0	0	0	0	2	0	0	36	0	158
Total	654	514	0	147	152	53	520	217	17	189	42	192	0	2	0	0	36	34	2769



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 13

Total Compartment Acres: 2,767

Commercial Harvest - 297
 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	76	0	0	0	0	0	0	0	0	76
Jack Pine	8	0	0	0	0	0	0	0	0	8
Lowland Conifers	63	0	0	0	0	0	0	0	0	63
Red Pine	68	0	0	0	20	0	0	0	0	88
Sand, Soil	7	0	0	0	0	0	0	0	0	7
White Pine	56	0	0	0	0	0	0	0	0	56
Total	277	0	0	0	20	0	0	0	0	297

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	297	4	0	0	0	49	0	344		694
Next Step	0	235	119	0	0	118	366	0	0	838
Total	297	239	119	0	0	118	415	0	344	1532



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
1	52013001-Cut	28.8	42110 - Planted Red Pine	Sawtimber Well	58	141- 170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Field Boundary - Ready for VMS

Habitat Cut: No**Site Condition:**

Prescription Clearcut then trench and plant with stand 202. Leave all oak. Include trail protection specs to ensure trees with trail markers are left and limit trail crossings.

Specs:

Advance the sale to a 2017 YOE sale so it can be cut with red pine in adjacent compartment.

Next Step SitePrep, Trenching; Planting, Initial Plant; SitePrep, Roller Chopping; Pesticide, Skidder/Mechanical

Treatments:

Acceptable Replant to red pine. Include hard and soft mast species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016

3	52013003-Monitor	12.9	710 - Sand, Soil	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Year 1 regen survey

Specs:

Next Step

Treatments:

Acceptable A well stocked red pine plantation.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016

21	52013021-NF	0.9	3104 - Degraded	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

23	52013023-Cut	22.8	42210 - Natural Red Pine	Sawtimber Well	85	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all species 2 inches dbh and up. Watch for variable soil moistures when placing the boundary line. Incorporate mast species into replanting. No other retention due to SE finger of stand already being left and to facilitate with replanting.

Specs:

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

Treatments: Artificial Regen(3yr)

Acceptable Red pine with a component of mast producing species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
30	52013030-Cut	42.6	6124 - Lowland Spruce-Fir	Poletimber Well	100	81-110	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Two-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Winter harvest for SBW. Avoid vernal ponds an wetter areas within stand 30 when setting up the sale. Leave all white pine greater than 20 inch
Specs: dbh and leave all cedar. Stand should hold until 2019 YOE.

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

Acceptable Cedar, tamarack, balsam, spruce, aspen, red maple
Regen:

Other Actual placement and design of sale is subject to change per wildlife biologist's and forester's discretion. In total sale should be ~40 acres.
Comment:

Proposed Start Date: 05/02/2017

32	52013032-NF	80.7	330 - Low-Density Trees	Nonstocked		1-50	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn,brush, or herbicide to maintain openings. Plant hard and soft mast.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Ensure the recreational trails in the treatment area are protected during the implimentation of the non-forested treatments.
Comment:

Proposed Start Date: 10/01/2018

48	52013048- Monitor	1.5	3204 - Mast Producing Shrub	Nonstocked	59	Unspec ified	Monitoring	Artificial Regen(1yr)	3204 - Mast Producing Shrub		Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Year one regen survey.
Specs:

Next Step Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Good survival amongst planted crabapples, quality of mast production.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2016

50	52013050- Monitor	0.8	3301 - Low Density Deciduous Trees	Nonstocked	59	Unspec ified	Monitoring	Artificial Regen(1yr)	330 - Low- Density Trees		Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Year one regen survey.
Specs:

Next Step Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Good survival on planted oak saplings.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
52	52013052-2	22.4	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	57	141- 170	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Due to poor form and low potential of stand, clear cut and allow to naturally regenerate. Follow standard retention guidelines and focus it along the snowmobile trail and along stand 17 to the east.

Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Acceptable Any mix of aspen with pine and lowland components.

Other Add specs for hare habitat improvement and work with wildlife on placement. Also add trail protection specs for snowmobile trail.

Proposed Start Date: 10/01/2018

52	52013052-Cut	33.4	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	57	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Due to poor form and low potential of stand, clear cut and replant to red pine. Follow standard retention guidelines and focus it along the snowmobile trail. Also add trail protection specs.

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

Acceptable Planted red pine.

Other Wait to harvest SE corner when adjacent A3 is of merchantable size to also help with trail protection.

Proposed Start Date: 10/01/2018

58	52013058-Cut	13.4	4130 - Aspen	Poletimber Medium	30	81-110	Harvest	Clearcut	413 - Aspen	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clearcut all species except oak. No other retention due to small size of stand. Cut right to the edge of the adjacent wetlands.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Aspen, pine, red maple, oak

Other

Proposed Start Date: 10/01/2018

60	52013060-NF	13.5	330 - 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, burn, brush, or herbicide to maintain openings. Plant hard and soft mast.

Next Step

Acceptable

Other

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
62	52013062-Cut	7.7	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	57	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Remove dying jack pine and aspen and replant to red pine with adjacent strips. Focus retention along boundary of stand 56 in the SE corner.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable Planted red pine.

Regen:

Other May need to spray aspen further down the road.

Comment:

Proposed Start Date: 10/01/2018

67	52013067-Cut	36.5	4133 - Aspen, Mixed Pine	Poletimber Medium	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark out 3-5 white pine to leave per acres and protect advanced oak regen. Add trail protections specs to make sure trees with trail markers are

Specs: left and to cut stumps flush to the ground within 5 feet of the trail.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with a mixed pine component.

Regen:

Other Due to the acres being left along the recreation trails to the north, and the residual trees being left throughout the sale no other retention will be

Comment: necessary.

Proposed Start Date: 10/01/2018

76	52013076-Cut	16.3	42110 - Planted Red Pine	Sawtimber Well	57	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with adjacent strips and replant to red pine. Focus retention along stand 53 to the SE.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable Replant to red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

77	52013077-Cut	20.7	6123 - Lowland Fir	Poletimber Medium	56	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Winter harvest for SBW. Focus retention around areas with wetter soils to the west. Stand should hold until 2019 YOY.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any lowland conifer mix.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
78	52013078-Cut	6.5	710 - Sand, Soil	Nonstocked	0	Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Remove the one strip of jack pine that is left and replant to red pine with adjacent strips.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable Planted red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

83	52013083-Monitor	8.3	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Year one regen survey.

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable A fully stocked red pine plantation

Regen:

Other

Comment:

Proposed Start Date: 05/01/2018

84	52013084-NF	6.0	330 - 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, burn, brush, or herbicide to maintain openings. Plant hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Ensure the recreational trails in the treatment area are protected during the implementation of the non-forested treatments.

Comment:

Proposed Start Date: 10/01/2018

108	52013108-Cut	20.1	42110 - Planted Red Pine	Poletimber Well	55	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Third-row thin. Only remove deciduous species from rows already being harvested to reduce damage. Add trail protection specs for the

Specs: snowmobile trail and ORV route. Make sure trees with markers are left and to limit crossings.

Next Step

Treatments:

Acceptable Planted red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
131	52013131-NF	6.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

141	52013141-Monitor	25.5	710 - Sand, Soil	Nonstocked	59	Unspec ified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition: Long-Term Retention

Prescription Year one regen survey.

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable A well stocked red pine plantation of artificial origin.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016

143	52013143-NF	15.3	320 - Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

202	52013202-Prep	3.8	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	7	Immature	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Prep with stand 1.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable Planted red pine. Include hard and soft mast.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
232	52013232-NF	86.1	4136 - Aspen, Mixed Conifer	Poletimber Poor	59	1-50	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No **Site Condition: Age-Class or Site Quality**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Ensure the recreational trails in the treatment area are protected during the implementation of the non-forested treatments.

Comment:

Proposed Start Date: 10/01/2018

276	52013276-Cut	25.7	4130 - Aspen	Poletimber Well	36	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Clearcut all species. Buffer along the lowland stands and focus retention along the snowmobile trail. Add trail protection specs.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Any mix of aspen, oak, pine, and lowland conifer.

Regen:

Other

Comment:

Proposed Start Date: 02/24/2017

332	52013332-NF	124.5	320 - Upland Shrub	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Ensure the recreational trails in the treatment area are protected during the implementation of the non-forested treatments.

Comment:

Proposed Start Date: 10/01/2018

448	52013448-NF	11.1	330 - 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, burn, brush, or herbicide to maintain openings. Plant hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 693.9**

Report 4 – Site Conditions

Gaylord Mgt. Unit
Hilary Wells : Examiner

Compartment: 13
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
441	324	95	23

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions									
					5B	5C	5F	2G	3A	3B	3D	5E		
441	324	95	23		Aspen		86	8						23
30	30	0	0		Bare/Sparsely Vegetated				0					
89	89	0	0		Herbaceous Openland									
61	61	0	0		Jack Pine									
162	162	0	0		Low-Density Trees									
105	105	0	0		Lowland Aspen/Balsam Poplar									
343	78	39	227		Lowland Conifers	22		17	220		7			
177	168	0	9		Lowland Shrub				0		9			
31	0	0	31		Lowland Spruce/Fir				31					
121	4	117	0		Mixed Upland Deciduous	117								
17	0	17	0		Natural Mixed Pines			17						
119	87	0	32		Planted Mixed Pines						28	4		
537	484	0	53		Red Pine						17	34	2	
45	44	0	1		Sand, Soil									1
4	4	0	0		Treed Bog									
60	60	0	0		Upland Conifers									
121	119	0	2		Upland Mixed Forest									2
141	140	0	1		Upland Shrub									1
3	3	0	0		Urban									
3	0	0	3		Water						3			
158	120	0	38		White Pine					25		14		
2,767	2,079	267	420		Total Forested Acres	139	86	42	251	25	64	52	29	
	75%	10%	15%		Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5F: Evaluated for Forest Health Considerations	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SBW considerations. Low lowland BA observed in the past.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Hilary Wells : Examiner

Compartment: 13
Year of Entry: 2019

2	Available	5F: Evaluated for Forest Health Considerations	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High BA of BF poles.							
3	Unavailable	3D: Recreational / Scenic values	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3D: Recreational / Scenic values	5	3A: Conservation Values incompatible with harvest at this time	5E: Long-Term Retention	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3D: Recreational / Scenic values	6	3A: Conservation Values incompatible with harvest at this time	5E: Long-Term Retention	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Hilary Wells : Examiner

Compartment: 13
Year of Entry: 2019

9	Unavailable	3B: Threatened, endangered, and special concern species	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3B: Threatened, endangered, and special concern species	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3B: Threatened, endangered, and special concern species	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3B: Threatened, endangered, and special concern species	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3B: Threatened, endangered, and special concern species	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Hilary Wells : Examiner

Compartment: 13
Year of Entry: 2019

14	Unavailable	3B: Threatened, endangered, and special concern species	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3B: Threatened, endangered, and special concern species	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3D: Recreational / Scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SBW considerations. Low lowland BA observed in the past.							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Oak logs and planted jack pine left as retention from harvest of stand 107.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Hilary Wells : Examiner

Compartment: 13
Year of Entry: 2019

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5F: Evaluated for Forest Health Considerations	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3D: Recreational / Scenic values	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5B: Maintain for regeneration purposes	117	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Hilary Wells : Examiner

Compartment: 13
Year of Entry: 2019

27	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	86	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Grouse habitat burn unit.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	127	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Hilary Wells : Examiner

Compartment: 13
Year of Entry: 2019

33	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Left to ensure trail protection.							
35	Unavailable	3A: Conservation Values incompatible with harvest at this time	25	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Qualifies as Type 2 old growth.							
36	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
63	Unavailable	3D: Recreational / Scenic values	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
	Type 1 or Type 2 Old Growth	Possible Type 1 Old Growth Area	Proposed SCA	17
Comments				
Maintain SCA coding as Old Growth: Remnant virgin WP stand.				
52013 Old Growth	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	Proposed SCA	17
Comments				
Maintain SCA coding as Old Growth: Remnant virgin WP stand.				



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	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	Sawtimber Well	32.6	58	141-170	OPIC - FMD: Section 13 NENE. (1996 comments: Third Row Thin Red Pine. Thin competing species Oak and Aspen only from rows being cut. Thin 27 acres north of powerline. Remove all Jack Pine.) 2006 comment: No cut prescribed for 10 years. 2017: Jack pine and aspen components are on edge of the stand. BA and stocking is variable. Scattered large oak logs.
2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	117.3	85	51-80	OPIC - FMD: Section 13 N1/2NW. Mature oak stand with mixture of young (<20 yrs old) and mature aspen (50+ yrs old). Oak is mixed quality. Some A3Rm3. Prescription: (GMSC) Final harvest a portion of this stand, Selection cut completed in 2011. 2017: During previous harvest some areas that were cut were heavier to aspen so BA of oak is variable. Decent regeneration, but a lot of red maple. Some wet areas with lowland species.
4	42120 - Planted Jack Pine	Sapling Well	41.9	24	Immature	OPIC - FMD: Section 13 NE1/4 Almost no understory due to close proximity planting and browse.
6	42110 - Planted Red Pine	Sawtimber Well	20.2	58	81-110	OPIC - FMD: Section 13 W1/2E1/2. Thinning completed in 2011. 2017-Transitioning from pole to log stand. Some red pine also present in sub-canopy. Hold for another 10 years.
7	42120 - Planted Jack Pine	Poletimber Well	9.2	45	111-140	OPIC - FMD: Section 13 W1/2E1/2 2017: Very branchy, small poles. Some pocket mortality.
8	42110 - Planted Red Pine	Poletimber Well	28.9	55	111-140	OPIC - FMD: Section 13 E1/2N1/2. (1996 comments: Third Row Thin. Species Thin Aspen & Mixed Oak only from rows being cut.) 2017: In transition from pole sized stand to small logs. Some areas with a lower BA. Some larger oak in clumps on the edge.
13	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.8	98	51-80	OPIC - FMD: Section 13 NWNW. Standing water. Thick swamp with a lot of tag alder in the understory.
14	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	17.1	67	81-110	OPIC - FMD: Section 14 NENE. (1996 comments: SELECT MARK OUT PINE & REMOVE ASPEN. FAVOR OAK FOR DEER. WINTER HARVEST.) Thick white pine understory. Some storm damage on the western edge. Similar to stand 15, just more red pine.
15	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	28.1	67	81-110	OPIC - FMD: Section 15 NENE. (1996 comments: SELECT MARK R&W.PINE AND THIN OUT INTERMIXED ASPEN & HARDWOOD. WINTER HARVEST. MARK TO ENCOURAGE WHITE PINE AND OAK REGENERATION.) Regenerating well. Very thick white pine understory.
18	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	22.6	85	111-140	OPIC - FMD: Section 14 NE1/4. Northern most area along Old State Rd. is tamarack. Pretty typical spruce/fir swamp. Storm damage along Old State Rd.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	42210 - Natural Red Pine	Sawtimber Well	34.3	85	51-80	OPIC - FMD: Central section 14: (1996 comments: SELECTIVELY LOGGED IN 1990.) 2007 comments: Recommend SCA. Unique red pine white pine sawlog stand managed for visual and aesthetic values. 2017-Stand is separated by line of storm damage. Most of BF in the understory is not of merchantable size. Low, wet areas closer to stand 30.
20	42110 - Planted Red Pine	Poletimber Well	11.6	57	111-140	OPIC - FMD: Section 15 NWNE. Thinning completed on 12-20-2013. Hold for one more cycle then thin again.
23	42210 - Natural Red Pine	Sawtimber Well	24.4	85	81-110	OPIC - FMD: Section 14 NWNW. Super canopy red pine and white pine over a thick, mixed understory. Scattered BF logs. Old notes said it was thinned in 1990.
24	4134 - Aspen, Spruce/Fir	Poletimber Poor	8.5	50	1-50	OPIC - FMD: Section NW1/4 Scattered log/pole WP throughout the stand. Thick aspen saplings.
27	6124 - Lowland Spruce-Fir	Poletimber Well	34.2	65	81-110	OPIC - FMD: Section 15 N1/2NE. Mixed swamp conifer stand with areas of red maple, aspen very dense balsam regeneration, some blow down, open marsh, and upland. Measured a cedar 21.9" dbh. 2017: Very thick understory. Some cedar blowdown. White pine of every size class.
29	429 - Mixed Upland Conifers	Poletimber Well	59.6	30	81-110	Mixed bag of species across stand. Larger conifers mixed with a deciduous understory. Hypoxylon canker present on pole sized aspen. Good advanced oak regeneration, but smaller saplings are heavily browsed and stunted.
30	6124 - Lowland Spruce-Fir	Poletimber Well	170.2	100	81-110	OPIC - FMD: Section 14 W1/2 and section 15 E1/2. Most of this stand will be too wet to manage. Most of the stand is Black Spruce with areas of this Balsam Fir regen and poles.
34	42200 - Natural White Pine	Sawtimber Well	5.2	151	81-110	Remnant stands of virgin White Pine similar to stands 336 and 35. White Pine is super canopy with other species underneath.
35	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	24.6	158	111-140	OPIC - FMD: Section 15 NWSW. (1996 comments: REMANT VIRGIN STAND REMAINING FROM OLD LOGGING ERA DO NOT CUT.) 2006 comments: Recommend SCA designation for historical and representative values of large diameter white pine with mixed hardwood. 2016-Continue to hold for same reasons as before. Age estimated due to difficulty getting full length core. Stand year of origin was used and what I could count on the core to get age.
36	4311 - Pine, Aspen Mix	Sapling Medium	93.5	6	1-50	OPIC - FMD: Section 15 center. Leave 10 acres for retention. 2016 comments-Part of "Misfit Mix" finished in 2012. Coming back very heavy to aspen as expected. Very similar to stand 232, but thicker regeneration.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	3.9	95	111-140	OPIC - FMD: Section 14 NWSW. SELECTIVELY LOGGED IN 1990. Recommend SCA for visual and aesthetic values. Southern part of stand was damaged in a tornado. Very thick BF sapling understory.
39	4134 - Aspen, Spruce/Fir	Poletimber Well	26.9	26	Immature	OPIC - FMD: Section 15 SE1/4. Cut in 1991. Areas of very thick aspen clones. Continue to hold for at least another 10 years to increase merchantability.
40	42110 - Planted Red Pine	Sawtimber Well	27.5	60	111-140	OPIC - FMD: Section 22 SENE. THINNING COMPLETED IN 1996. 2006 comments: Marked thinning to reduce BA to 120. Thinning completed in Dec., 2012. Very similar to other plantations around it. Transitioning from pole size to small logs.
41	42110 - Planted Red Pine	Sawtimber Well	36.9	62	111-140	OPIC - FMD: Section 22 SENW. (1996 comments: THINNING COMPLETED IN 1996.) 2006 comments: <30% of volume logs, most are too branchy to be considered logs. Thinning completed in Dec., 2012. Stand in great shape since harvest. Transitioning from a pole to log stand.
42	42110 - Planted Red Pine	Sawtimber Well	38.6	62	111-140	OPIC - FMD: Section 22 NWSE. THINNING COMPLETED IN 1996. 2012: Final harvest of Red Pine completed in 2012. FTP prepared to replant. Currently considering planting red pine instead of white pine which was the original MO and prescription. A chapter 7 will be needed. Was not final harvested. Also transitioning to log stand. Private property signs on state along Lovells Road will need to be removed.
43	4130 - Aspen	Sapling Medium	22.0	5	Immature	OPIC - FMD: Section 22 SWSE. Final harvest completed in Dec. 2012. A lot of different species regenerating, but very heavy to aspen.
44	42110 - Planted Red Pine	Sawtimber Well	34.1	59	111-140	OPIC - FMD: Section 22 SESE. THINNING COMPLETED IN 1996. Thinning completed in Dec. 2012. BA a little higher than in other thinned red pine stands nearby. A lot of trees with browning needles in this stand along the pipeline/Lovells Rd. A bit more oak regenerations in this one as well, but it's heavily browsed. 5/9/2017-More browning needles observed along Lovells Rd and spreading into stand. Forest Health Report has been completed. Possible Diplodia.
45	4130 - Aspen	Sapling Poor	45.5	5	Immature	OPIC - FMD: Section 22 NESE. Some hypoxylon. Small amount of Upland brush mixed in. Final harvest completed in Dec. 2012. Some area thick with saplings, but mostly non-forested. Pine volunteers. Oak is heavily browsed.
47	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	7.8	80	81-110	OPIC - FMD: Section 14 W1/2 and section 15 E1/2. Super canopy white and red pine with a mixed swamp conifer understory.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	42110 - Planted Red Pine	Sapling Well	106.6	8	Immature	SALE FINISHED JULY 2010. LOTS OF SLASH - FTP FOR BURN C52-306 COMPLETED 7/21/2010. Trenched in 2011. Planted in 2012. Herbicided 9/13. Oak planted 2014 as well. Year 1 and 3 survey's complete. Very good looking young stand.
52	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	70.1	57	141-170	OPIC - FMD: Section 14 SE1/4. Growing out of weevil damage. Scattered aspen saplings in the understory. A lot of poor formed tops and very branchy.
53	6112 - Lowland Aspen	Sapling Well	100.7	7	Immature	OPIC - FMD: Section 23NE1/4. Very wet site. Final harvest may produce aspen, red maple, or tag alder as regeneration in varying degrees of density and location. Leave 5 acres in wet areas for retention. HARVESTED IN 2010. 2017-Very thick aspen regeneration. Soil still has variable degrees of moisture.
54	6112 - Lowland Aspen	Poletimber Well	4.1	61	81-110	Small aspen stand within lowland area.
56	4134 - Aspen, Spruce/Fir	Sapling Well	59.9	23	Immature	OPIC - FMD: Section 23 W1/2SE1/4. 2017-Open grown red pine and white pine logs, scattered lowland conifer poles, and doghair thick aspen clones. Oak is browsed and stunted.
58	4130 - Aspen	Poletimber Medium	13.4	30	81-110	OPIC - FMD: Section 23 SWSE. BA is variable with some small, open areas. Decent sized aspen clones.
61	4130 - Aspen	Poletimber Well	13.9	30	51-80	OPIC - FMD: Section 15 center. Leave 10 acres for retention. Kept as long term retention in the past and buffer around patches of legacy trees.
62	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	7.7	57	111-140	OPIC - FMD: Section 23 SESE. (1996 comments: THIRD ROW THIN & REMOVE INTERMIXED SPECIES. FDF POTENTIAL.) 2006 remarks: Mark to reduce basal area to 130. Leave rows in eastern most group for Retention which equals approximately 10% of stand. Thinning completed on 12-20-2013. 2017-Jack pine is in very bad shape and falling out of the stand. There will be more clean up than actual harvesting.
63	42200 - Natural White Pine	Sawtimber Well	2.2	125	51-80	OPIC - FMD: Section 23 NESE. (1996 comments: FAVOR WELL ESTABLISHED WHITEPINE UNDERSTORY.) 2007 comment: Unique large dbh white pine stand. Mangle for SCA for historical and representative values. 2017-Super canopy white pine with mixed understory. Continue to hold for scenic values.
64	42110 - Planted Red Pine	Poletimber Well	31.0	60	111-140	OPIC - FMD: Section 23 SENE. Thinning completed in Dec, 2013. Large white pine along edge of stand with a few mixed in. A lot of aspen clones throughout stand as well. Hold and cut next cycle.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	8.1	101	1-50	OPIC - FMD: Section 13 SWSW. Upland spruce adjacent to lowland swamp type of mostly spruce. Reproduction could be balsam, spruce red male or aspen. Retain 4-5 balsam trees in 4-5 groups to be cut in 5 years for snowshoe hares. Leave 1-2 acres for retention. HARVESTED IN 2010. 2017-Soil moisture is variable. Mostly aspen coming back.
66	4133 - Aspen, Mixed Pine	Sapling Poor	9.0	7	Immature	OPIC - FMD: Section 13 SWSW. HARVESTED IN 2010. Pine volunteers and aspen clones.
67	4133 - Aspen, Mixed Pine	Poletimber Medium	43.9	48	81-110	OPIC - FMD: Section 13 NWSW. Open grown aspen with pockets of red pine, white pine and upland brush. Cut in 2019. Aspen and mixed, open grown pine with a brushy understory. Good advanced oak regeneration.
68	42210 - Natural Red Pine	Sawtimber Medium	11.2	58	81-110	OPIC - FMD: Section 13 NWSW. (1996 comments: OPEN GROWN RED PINE WITH SCATTERED LOW QUALITY ASPEN.) 2017-Very branchy, open grown pine with lowland aspen poles. Lowland encroachment from neighboring swamp.
69	6122 - Black Spruce	Poletimber Well	25.3	98	81-110	OPIC - FMD: Section 13 N1/2SW1/4. Same swamp as 170, just divided by private property.
70	4139 - Aspen, Mixed Deciduous	Sapling Well	5.5	7	Immature	OPIC - FMD: Section 14 SE1/4. Small opening filling in with aspen clones.
71	42140 - Planted Mixed Pine	Sapling Well	76.0	9	Immature	OPIC - FMD: Final harvest completed in 2010. Plans have been made to trench & plant. Stand was trenched & planted with red pine. A lot of jack pine volunteers, most of them larger than the planted red pine.
75	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.1	80	51-80	OPIC - FMD: Section 15 center. Leave 10 acres for retention. Lowland conifer stand with varying degrees of wet soil.
76	42110 - Planted Red Pine	Sawtimber Well	16.3	57	111-140	2006 remarks: Mark to reduce basal area to 130. Leave rows in eastern most group for Retention which equals approximately 10% of stand. Thinning completed on 12-20-2013. When rest is harvested plant back to red pine and include adjacent openings. Nice log stand. Ready to cut with adjacent stands.
77	6123 - Lowland Fir	Poletimber Medium	20.7	56	51-80	OPIC - FMD: Section 15 NE1/4. Cut 1981, transitioning to A4F4F2S1(A6). Could find no record of the 1981 harvest, but it appear some treatment did happen. Upland brush is filling in the more open areas. May be a good indicator of what will happen if we harvest adjacent stands for SBW.
79	42100 - Planted White Pine	Poletimber Well	22.8	57	141-170	OPIC - FMD: Section 14 northcentral. Area southwest of stand 410 is a narrow wetland with White Pine and Red Pine sawlog size trees along edges less than 2 acres. 2017-Same stand as 82 before tornado damage. Very branchy. A lot of split tops so probably had weevil issues in the past. A few larger scattered RP throughout stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	42120 - Planted Jack Pine	Poletimber Well	1.9	50	81-110	Small stand of jack pine that was left out previous harvests. Quite a bit of mortality. Jack pine volunteers also present in sub-canopy.
82	42100 - Planted White Pine	Poletimber Well	26.8	57	141-170	OPIC - FMD: Section 14 northcentral. Area southwest of stand 410 is a narrow wetland with White Pine and Red Pine sawlog size trees along edges less than 2 acres. 2017-Same stand as 79 before tornado damage. Very branchy. A lot of split tops so probably had weevil issues in the past. A few larger scattered RP throughout stand.
86	4310 - Pine, Oak Mix	Sapling Well	17.5	22	Immature	Variance approved to plant Red Pine and use herbicide if needed 12/15/2014. Examined by TMS in 2014.
89	6124 - Lowland Spruce-Fir	Poletimber Poor	19.8	55	81-110	OPIC - FMD: Section 14 W1/2 and section 15 E1/2. Stand is mostly standing, dead black ash with a low density mix of species listed. Understory is thick BF in some areas.
107	4311 - Pine, Aspen Mix	Sapling Medium	9.6	7	Immature	OPIC - FMD: Section 13 W1/2E1/2 Regeneration objective is for aspen, oak, red maple and or jack pine. Leave oak and leave south most acre for retention. Stand was cut in June, 2010. Large oak left as retention on western edge and jack pine left in the south. Regenerating nicely with a lot of pine volunteers.
108	42110 - Planted Red Pine	Poletimber Well	20.1	55	171-200	OPIC - FMD: Section 13 E1/2N1/2. (1996 comments: Third Row Thin. Species Thin Aspen & Mixed Oak only from rows being cut.) 2007 comment: Not cut. Very branchy. 2017: Pretty branchy in areas. A lot of double stems. A lot of poles and small logs.
120	42110 - Planted Red Pine	Poletimber Well	45.5	57	111-140	OPIC - FMD: Section 15 NWNE. Thinning completed in Dec. 2013. Stand data estimated. It was updated after a portion of this stand was salvaged/Transitioning from pole to log sized stand. Salvaged area in the middle of stand to be planted in the spring.
130	4130 - Aspen	Sapling Medium	9.2	6	Immature	OPIC - FMD: Section 15 NENW. \ Cut in 2012.
132	4130 - Aspen	Sapling Well	14.5	6	Immature	OPIC - FMD: Section 15 N1/2 NWNW. (1996 comment: DESIGNATED SHARPTAIL GROUSE MANAGEMENT AREA. SCATTERED ASPEN CLONES.) Cut in 2012. Coming back very thick.
152	4133 - Aspen, Mixed Pine	Sapling Poor	17.5	7	Immature	OPIC - FMD: Section 14 W1/2SE. Upland spruce adjacent to lowland swamp type of mostly spruce. Retain trees 1/2 chain around wet areas of stand 55 for retention. HARVESTED IN 2010.
165	6124 - Lowland Spruce-Fir	Poletimber Poor	13.4	101	51-80	OPIC - FMD: Section 13 SWSW. Lowland swamp type of mostly spruce. Reproduction could be balsam, spruce red male or aspen. Leave 1-2 acres for retention. Avoid Crapo Creek. HARVESTED IN 2010. 2017-Similar to adjacent stand 65, just has a higher BA and less of an understory. Soil moisture is also variable.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
167	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	10.9	57	81-110	OPIC - FMD: Section 13 NWSW. A lot of larger white pine mixed in with poles and saps. Thick white pine seedlings in understory.
170	6122 - Black Spruce	Poletimber Well	5.4	92	81-110	OPIC - FMD: Section 13 NESW. Wet Spruce swamp. Private property signs on edge far off the actual property line. Virtually no understory except on the very eastern edge.
176	42290 - Natural Mixed Pine	Sawtimber Well	16.6	70	51-80	OPIC - FMD: Section 15 SESE. Transition from pole to sawlog stand. Could not see any rows and no information in the historical data so assumed to be a natural stand. Some lower, wet areas in stand and areas of thick balsam. Some storm damage along NW edge.
177	6123 - Lowland Fir	Poletimber Well	9.7	55	51-80	OPIC - FMD: Section 15 SENE. Very dense stand of balsam regeneration approaching pole size. Still a very thick BF stand. High BA of saplings and poles.
202	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	3.9	7	Immature	OPIC - FMD: Section 13 N1/2NW. Mature oak stand with mixture of aspen oak and red maple. Oak is mixed quality. Goal is to produce a mixed species composition stand of oak, red pine, aspen, and red maple. Plant red pine. Harvest completed in 2010. Sale closed 10-2013. 2017: Scattered oak logs left after harvest. ORV trail cuts through stand.
232	4136 - Aspen, Mixed Conifer	Poletimber Poor	86.1	59	1-50	OPIC - FMD: Section 15 E1/2W1/2. (1996 comment: DESIGNATED SHARPTAIL GROUSE MANAGEMENT AREA. SCATTERED ASPEN CLONES.) 2007 comment: Part of large opening maintenance area. Let stand regenerate naturally over the next 10 year period. Reevaluate the stand for alternative 2016-BA is variable due to aspen clone patches. Regenerating well after burn.
276	4130 - Aspen	Poletimber Well	65.3	36	51-80	OPIC - FMD: Section 23 center W1/2W1/2. Variable density and degrees of wet soil. SE part of stand was recently purchased. All sizes of aspen are present.
277	6124 - Lowland Spruce-Fir	Poletimber Well	12.9	55	51-80	OPIC - FMD: Section 15 N1/2NE. Some decent sized BF, but mostly BS poles. Soil moisture is variable.
336	42200 - Natural White Pine	Sawtimber Well	6.4	151	81-110	OPIC - FMD: Section 15 center. Small acreage, unique, remnant white pine stand. Manage as SCA for historic and representative values. 2016 comment-most trees still healthy. A few showing their age. Hard to get accurate age reading doing to large size so year of origin and estimation from core sample was used.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	710 - Sand, Soil	12.9		Variance approved to plant Red Pine and use herbicide if needed 12/15/2014. Stand planted 4/25/2016. Also wildlife planted red/white oak saplings and crabapple.
5	330 - Low-Density Trees	2.5	No	Small opening filling in with immature aspen.
9	790 - Other Bare/Sparsely Vegetate	6.6		OPIC - FMD: Section 15 NWNE. Thinning completed in Dec. 2013. Stand data estimated. It was updated after a portion of this stand was salvaged 2017:Area of blow down caused by tornado. Partially salvaged and now trenched. Will be replanted this spring.
10	3104 - Degraded	0.9	No	Gas well pad.
11	500 - Water	2.8	No	OPIC - FMD: Section 13 NWNW. Bog pond.
12	622 - Lowland Shrub	4.1	No	OPIC - FMD: Section 13 SWNW.
16	622 - Lowland Shrub	1.7	No	OPIC - FMD: Section 14 SENE. Pond with some pine encroachment from surrounding stands.
17	622 - Lowland Shrub	50.0	No	OPIC - FMD: Section 14 E1/2NE Low BA of lowland species. A lot of dead/blown over cedar.
21	3104 - Degraded	0.9	No	Old landing.
22	622 - Lowland Shrub	3.8	No	OPIC - FMD: Section 14 NENW. Bog.
25	330 - Low-Density Trees	5.8	No	OPIC - FMD: Section 14 W1/2 and section 15 E1/2. Low density lowland trees and shrubs.
26	6224 - Treed Bog	3.0	No	OPIC - FMD: Section 15 NENE. Bog with scattered lowland species. Some blow down.
28	622 - Lowland Shrub	20.7	No	Open marsh land with lowland species along outside edge and some scattered throughout.
31	790 - Other Bare/Sparsely Vegetate	23.6	No	Gas treatment facility. Also includes ANR Pipeline facility and vacated CPF.
32	330 - Low-Density Trees	80.7	Yes	(1996 comment: DESIGNATED SHARPTAIL GROUSE MANAGEMENT AREA. SCATTERED ASPEN CLONES.) Prescribed for wildlife burn FTP W-52-243 during 2007. Managed/burned opening with scattered aspen and cherry. Some oak. Will be prescribed for burn again.



Stand	Cover Type	Acres	Managed Site	General Comments:
33	122 - Road/Parking Lot	1.3	No	NORTH BRANCH SNOWMOBILE TRAIL PARKING LOT
37	622 - Lowland Shrub	9.3	No	OPIC - FMD: Section 15 SE1/4.
46	622 - Lowland Shrub	3.4	No	OPIC - FMD: Section 23 SWSE. Small lowland area.
48	3204 - Mast Producing Shrub	1.5	No	Site planted 4/25/2016. Regen one survey to be done in 2017. 40 crabapples planted south of road.
50	3301 - Low Density Deciduous Tree	0.8	No	Site planted 4/25/2016. Regen one survey to be done in 2017. 25 red oak and 25 white oak saplings planted.
51	622 - Lowland Shrub	33.4	No	OPIC - FMD: Section 23 W1/2NE1/4. Vein off of Crapo Creek.
55	6224 - Treed Bog	1.2	No	OPIC - FMD: Section 14 NESE. Retain trees 1/2 chain around wet areas for retention of cut in stand 152.
57	3102 - Grass	1.4	No	Old gas well pad.
59	622 - Lowland Shrub	6.5	No	OPIC - FMD: Section 23 SWSE. Lowland, swampy area.
60	330 - Low-Density Trees	13.5	No	OPIC - FMD: Section 23 NESE. Open brush stand.
72	3104 - Degraded	0.6	No	Gas well.
73	3104 - Degraded	1.3	No	Gas well.
78	710 - Sand, Soil	6.5	No	2006 comments: Cut western most group and 3rd group from west. Leave one row per group for retention which equals approximately 5% of stand. Harvest completed in Dec. 2013 with some narrow strips of half dead jack pine left for retention. Stand currently being managed for wildlife, but will be converted to red pine management when adjacent pine stands are harvested.
80	622 - Lowland Shrub	12.7		OPIC - FMD: Section 22 NESE. Some hypoxylon. Small amount of Upland brush mixed in. Final harvest completed in Dec. 2012. Majority of stand is a tag alder swamp with aspen regenerating around the perimeter.



Stand	Cover Type	Acres	Managed Site	General Comments:
83	330 - Low-Density Trees	10.6		OPIC - FMD: Section 15 NWNE. Thinning completed in Dec. 2013. Stand data estimated. It was updated after a portion of this stand was salvaged 2017:Area of blow down caused by tornado. Partially salvaged and now trenched. Will be replanted this spring. Trenched 6/15/2016. Planted by Superior Forestry 5/5/2017. Initial plant 876 trees per acre.
84	330 - Low-Density Trees	6.0	No	OPIC - FMD: Section 13 SWSE. Opening off of red pine planting. Scattered trees encroaching from neighboring stands.
85	3102 - Grass	18.1	No	Underground gas storage field facility.
87	622 - Lowland Shrub	5.9	No	Wetland vein running through an aspen stand. Variable densities and soil wetness.
91	622 - Lowland Shrub	16.7	No	OPIC - FMD: Section 14 W1/2 and section 15 E1/2. Mixed swamp conifer swamp of various species mixes and densities as well as wet soils.
95	330 - Low-Density Trees	14.6	No	OPIC - FMD: Section 15 SE1/4. Standing dead black ash and storm damage. Occasional lowland conifers still standing.
116	622 - Lowland Shrub	3.2	No	OPIC - FMD: Section 13 SWNEW. Small lowland/bog.
123	330 - Low-Density Trees	3.9	No	OPIC - FMD: Section 15 NENE. Old gas well pad with pine volunteers and upland shrub species.
131	3102 - Grass	6.1	No	Opening adjacent to gas facility. Slowly filling in with aspen and other species from surrounding stand.
141	710 - Sand, Soil	25.5		Site planted 4/25/2016. Regen one survey to be done in 2017.
143	320 - Upland Shrub	15.3	No	OPIC - FMD: Section 22 SWSE. SCATTERED ASPEN CLONES Harvest completed in Dec., 2012.
153	622 - Lowland Shrub	5.9	No	OPIC - FMD: Section 23 NESE. Vein off of Crapo Creek.
208	330 - Low-Density Trees	1.4	No	OPIC - FMD: Section 13 NESW. Small area that is seasonally wet. Mostly pine and aspen with tag alder.
243	330 - Low-Density Trees	11.3	No	Area along edge of red pine stands used as landing for harvest completed in Dec. 2012.



Stand	Cover Type	Acres	Managed Site	General Comments:
332	320 - Upland Shrub	124.5	Yes	OPIC - FMD: Section 15 S1/2SW1/4 and section 22 W1/2NE1/4. (1996 comment: DESIGNATED SHARPTAIL GROUSE MANAGEMENT AREA. SCATTERED ASPEN CLONES.) Much more open than stands to the north. Still a lot of scattered trees. Will be prescribed to burn.
400	3104 - Degraded	0.9	No	Gas well pad.
401	3104 - Degraded	1.3	No	Gas well pad.
403	3104 - Degraded	1.5	No	Gas well pad.
404	3104 - Degraded	1.2	No	Gas well pad.
405	3104 - Degraded	1.5	No	Gas well pad.
406	3104 - Degraded	1.1	No	Gas well pad. Some trees filling in.
407	3104 - Degraded	0.8	No	Gas well pad.
408	3104 - Degraded	0.6	No	Gas well.
410	3104 - Degraded	2.1	No	Gas well.
411	3104 - Degraded	1.0	No	Gas well.
412	3104 - Degraded	1.1	No	Gas well.
414	3104 - Degraded	0.5	No	OPIC - FMD: Section 15 NWNE. Gas well.
415	3102 - Grass	5.3	No	Gas well pad.
416	3104 - Degraded	0.9	No	Gas well.
417	3104 - Degraded	1.5	No	Gas well with a lot of encroachment from surrounding stand.
418	3104 - Degraded	0.6	No	Gas well.



Stand	Cover Type	Acres	Managed Site	General Comments:
419	3104 - Degraded	1.0	No	Gas well.
420	3104 - Degraded	1.7	No	Gas well.
421	110 - Low Intensity Urban	1.4	No	Gas well/facility.
422	3104 - Degraded	1.1	No	Gas well.
423	3104 - Degraded	0.8	No	Gas well.
424	3104 - Degraded	1.0	No	Gas well.
425	3104 - Degraded	0.9	No	OPIC - FMD: Section 22 SWSE. Gas well.
426	3104 - Degraded	1.0	No	Gas well.
427	3104 - Degraded	1.0	No	Gas well.
428	3104 - Degraded	1.1	No	Gas well.
429	3104 - Degraded	1.7	No	Gas well.
430	3104 - Degraded	1.0	No	Gas well.
431	3104 - Degraded	1.0	No	Gas well.
448	330 - Low-Density Trees	11.1	No	Grassy opening that was opened up and used as a landing for a sale in the stand to the south.
456	3102 - Grass	24.4	No	Pipeline corridor.