



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54175

Entry Year 2019

Acreage: 1,806

County Cheboygan

Management Area: Hammond Bay Lake Plain

Revision Date: 2017-05-24

Stand Examiner: Ryan Zimmerman

Legal Description:

T36N,R01E

Sections 1, 2, and 12

Identified Planning Goals:

Soil and topography:

This is a very hilly area in the Black Mountain Recreation Area.

Soil tends to be a sandy loam or loamy sand (PARVvb)

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

This compartment has a high recreational influence due to many ATV, Snowmobile, and hike/bike/ski trails scattered throughout. It also has a campground in the NW1/4 of section 2. Many seasonal homes are directly adjacent to the compartment in section 2 around twin lakes.

Unique Natural Features:

This is a very hilly area with many steep slopes throughout.

Archeological, Historical, and Cultural Features:

This area contains the old Black Mountain Ski Hill. It also contains the site of an old fire tower.

Special Management Designations or Considerations:

This area is within the Black Mountain SCA and contains the Hoop Lake Bog ERA.

Watershed and Fisheries Considerations:

Make sure to keep 150 foot buffer around any lakes within this compartment for timber harvest activities (section 2)

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of heavy aspen and oak provide food and cover for multiple species at a variety of age classes. We are working to maintain oak and other mast producing trees as well as keep a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species. There are a few frost pockets and grassy openings in this compartment

Mineral Resource and Development Concerns and/or Restrictions

Sections 1-3 & 12, T36N R1E, Cheboygan County

There is no metallic mineral potential in this part of the state. A State sand/gravel pit is located roughly two miles to the south, and there does appear to be some potential within the compartment. This area has seen minimal drilling for oil and gas and potential appears to be limited. There are currently no active leases on State land, but there has been recent leasing activity within the compartment.

Vehicle Access:

There are roads that run through the compartment in section 2 and down the east edge as well as through section 1. ATV route runs through section 12.

Survey Needs:

Recreational Facilities and Opportunities:

There is a campground in section 2 and an equestrian campground in section 2. There are also many recreation trails that run throughout the entire compartment. The Black Mountain Scramble Area is in section 12 as well.

Fire Protection:

none

Additional Compartment Information:

Black Mountain SCA

The following reports from the Inventory are attached:

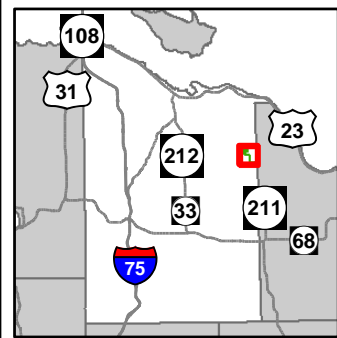
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

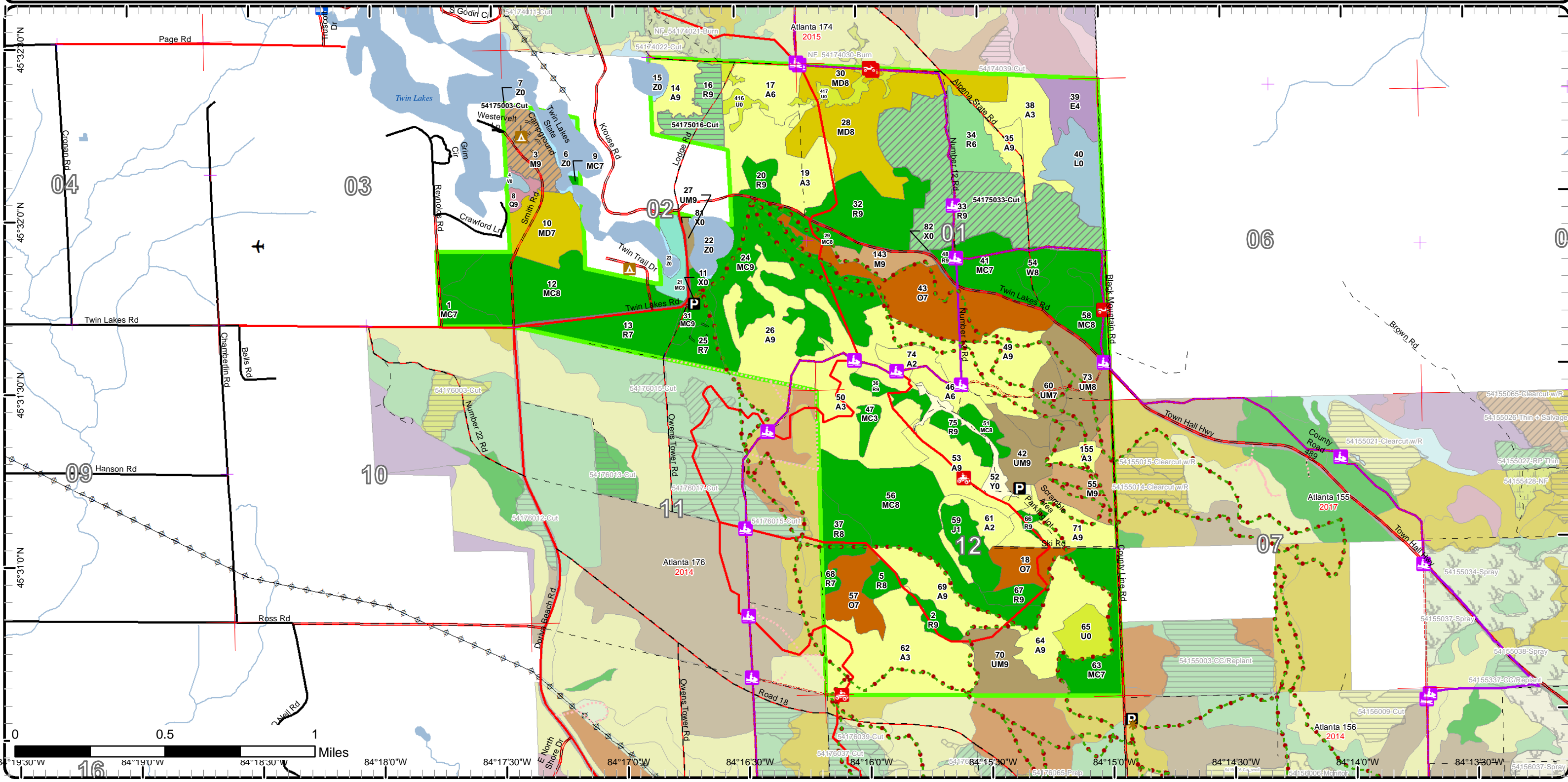
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 175
 T36N, R01E, Sec: 1-3, 12
 County: Cheboygan
 Unit: Atlanta
 Mgmt Area: Hammond Bay Lake Plain
 YOE: 2019
 Acres: 1805.6 GIS Calculated
 Examiner: Ryan Zimmerman
 Map Revised: 10/4/2017
 Map Phase: Post-Review

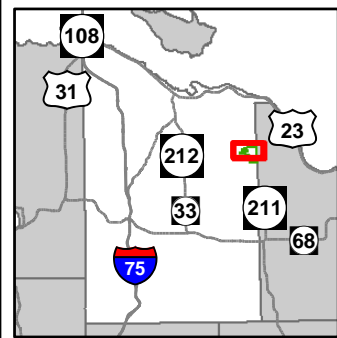


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|---|--|---|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners — Counties ▲ Campground P Parking Lot * Trailhead ORV Trails ORV Routes Snowmobile Trails — Designated Hiking Trails - - Designated Bicycle Trails • Designated Equestrian Trails | <ul style="list-style-type: none"> — Designated Ski Trails — Designated ATV — Designated ORV Route — Designated Snowmobile Trails — County Paved Roads — Paved Roads — County Gravel Roads — Gravel Roads — County Poor Dirt Roads — Poor Dirt Roads — Closed — Streams — Lakes and Rivers All — Powerline — Compartment Boundary | <ul style="list-style-type: none"> □ Clearcut (w/Reserves) □ Thinning (Crown, Low, Systematic) □ 411 - Northern Hardwood □ 412 - Oak Types □ 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 □ 122 - Roads/Parking Lot □ 330 - Low Density Trees □ 500 - Water | <ul style="list-style-type: none"> □ 622 - Lowland Shrub □ 710 - Sand/Soil □ Lakes |
|---|--|---|---|

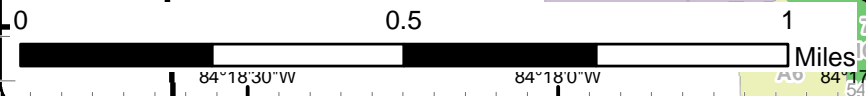
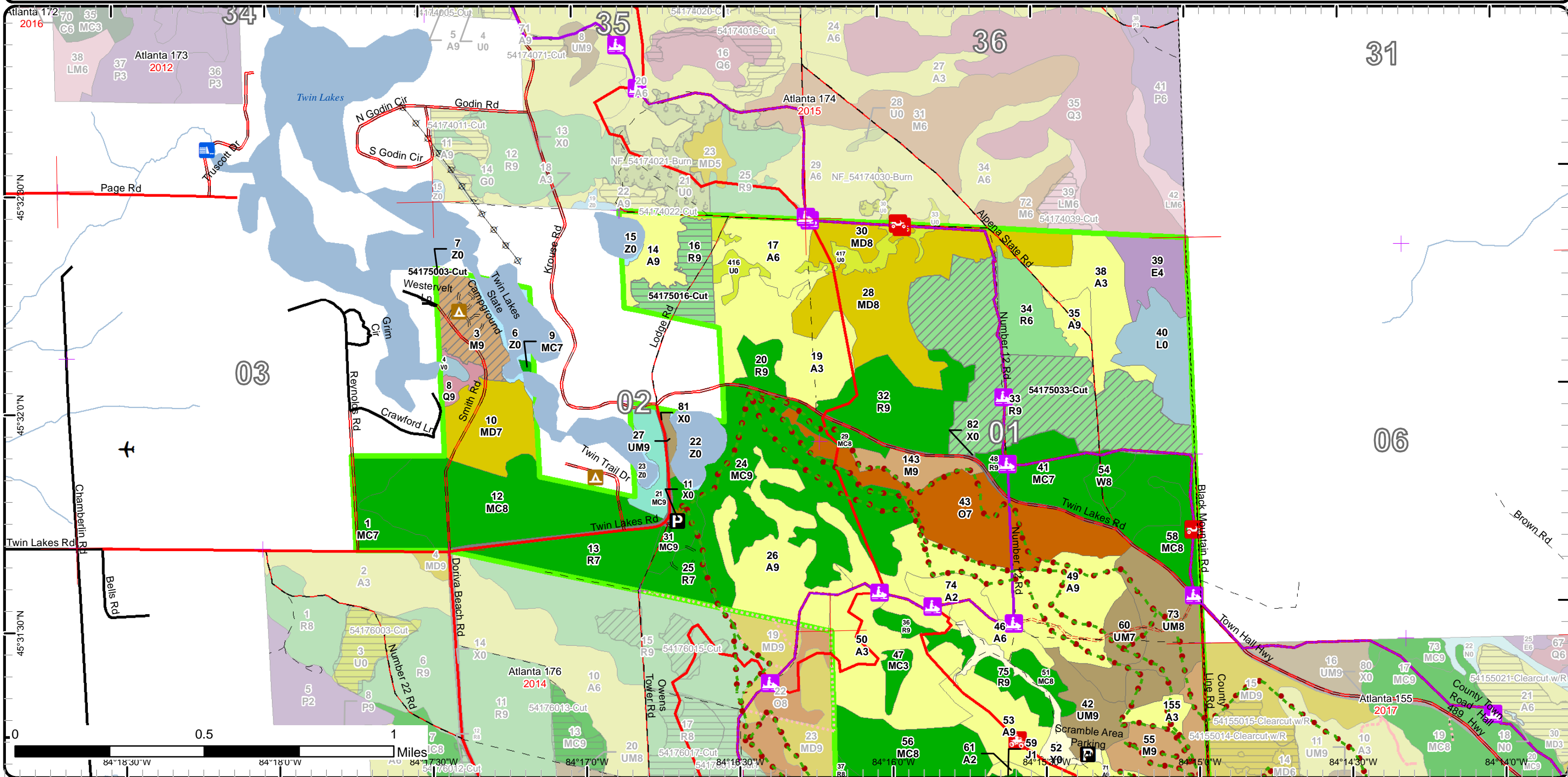


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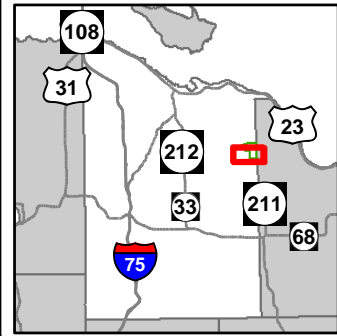
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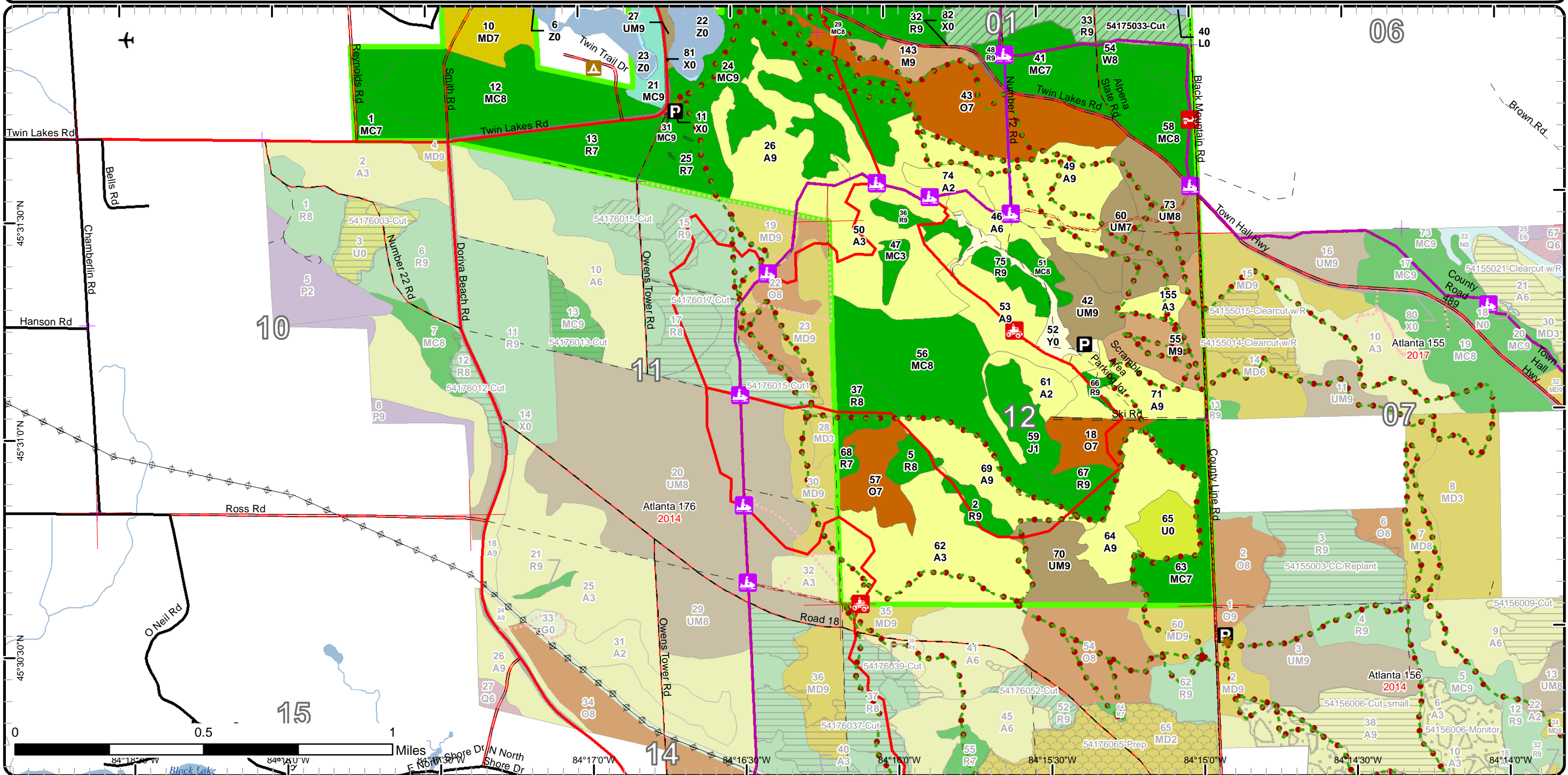
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 Longitude: 84°18'30"W, 84°18'0"W, 84°17'30"W, 84°17'0"W, 84°16'30"W, 84°16'0"W, 84°15'30"W, 84°15'0"W, 84°14'30"W, 84°14'0"W

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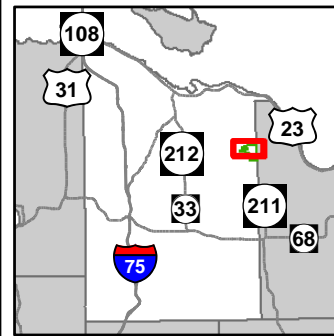


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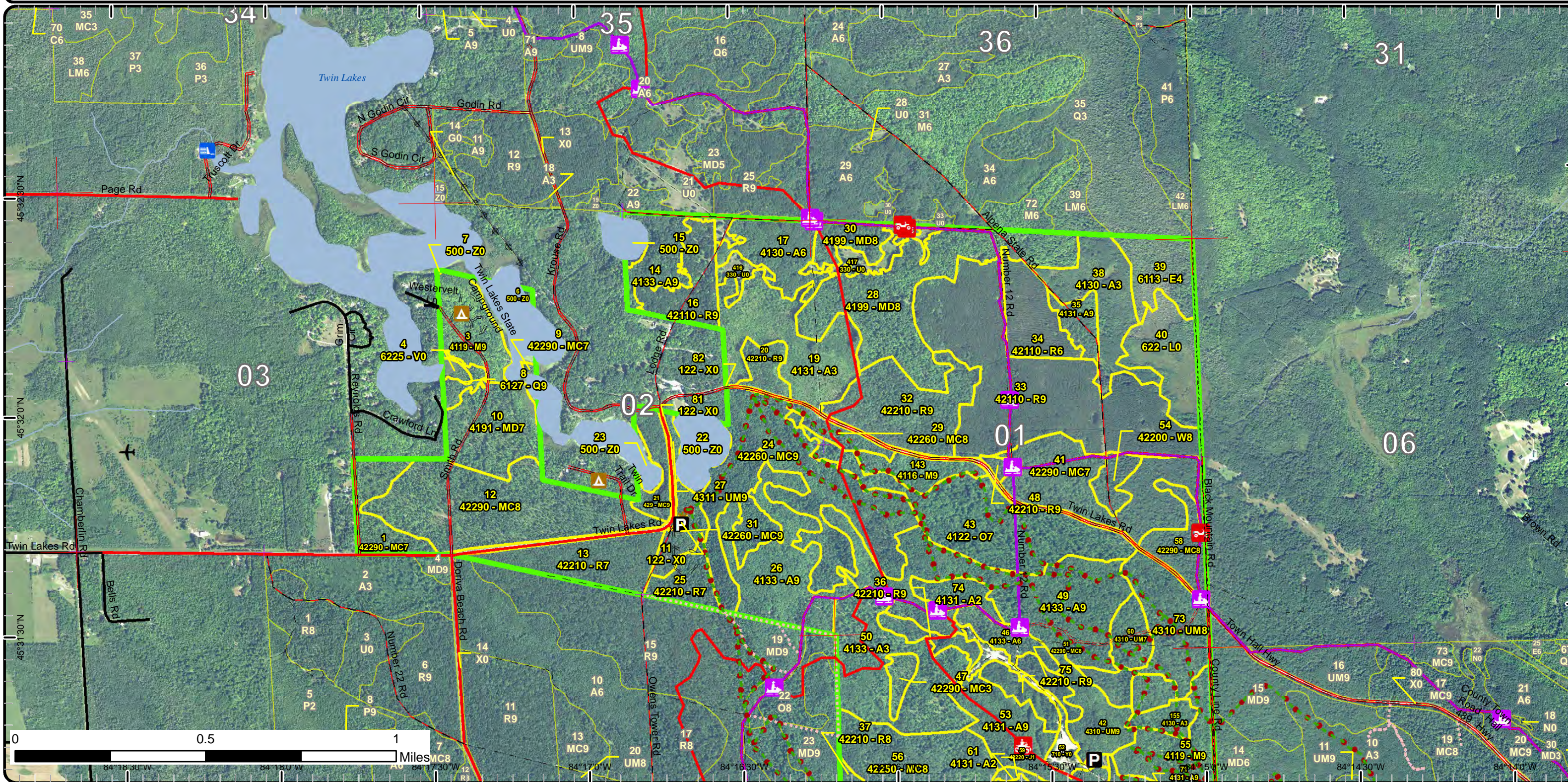


Stand Boundary Map

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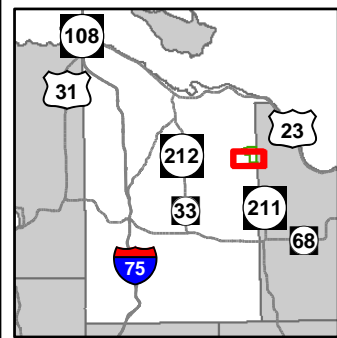


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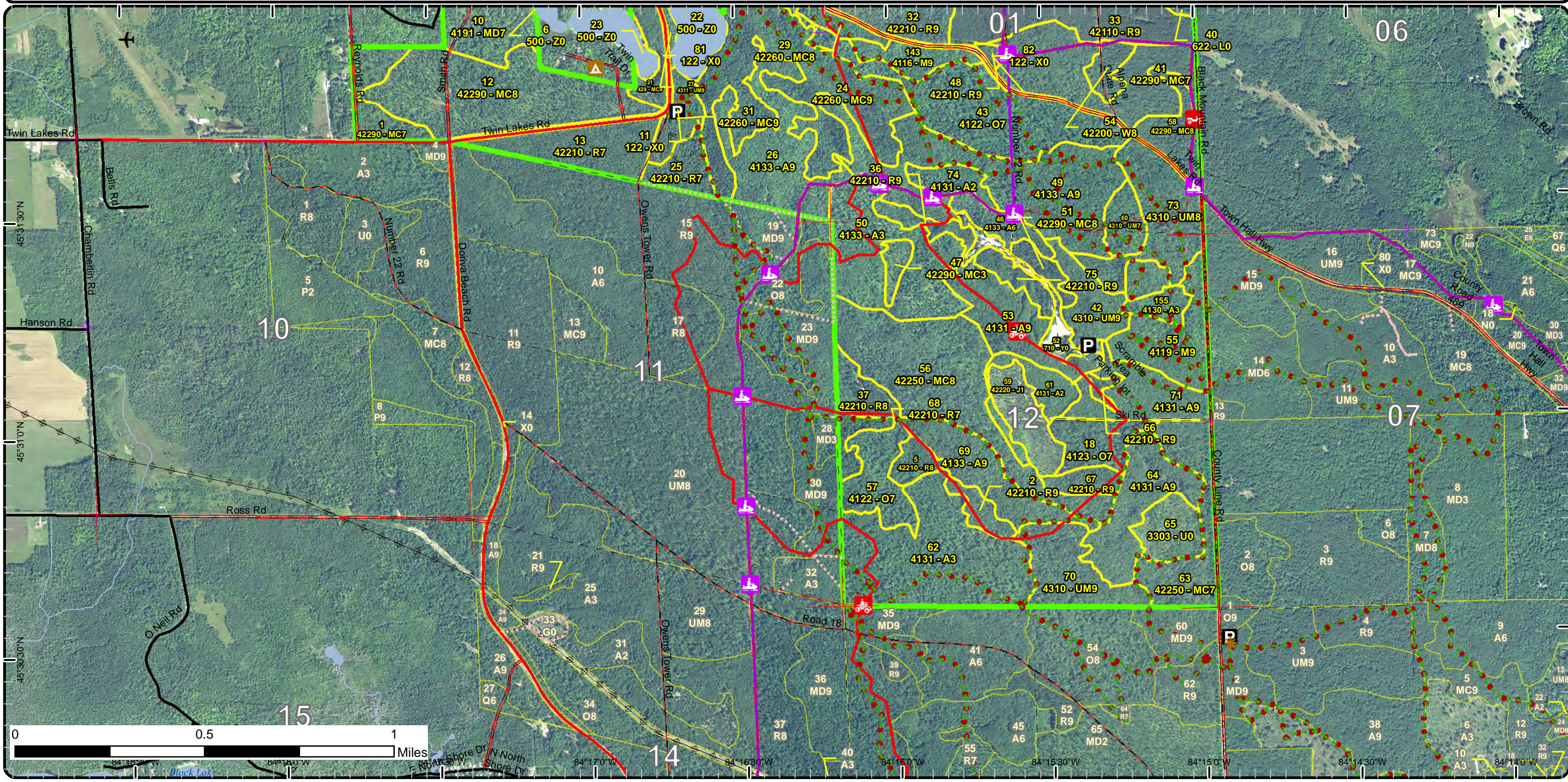


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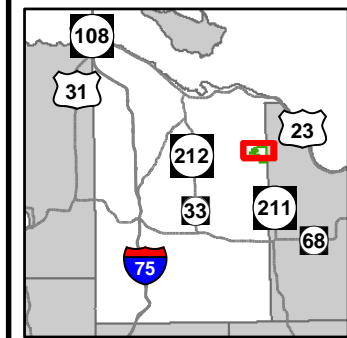


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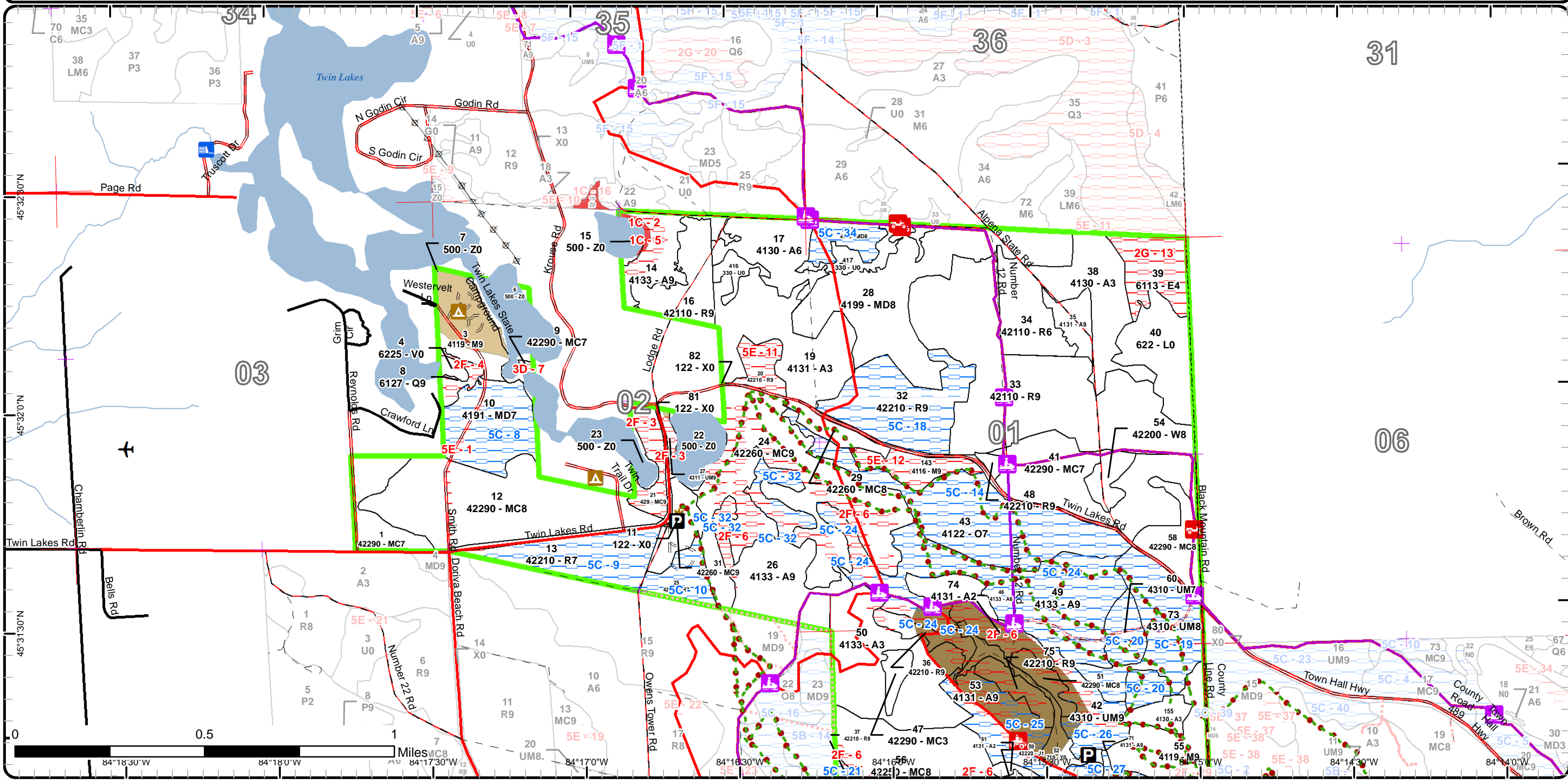


Special Conservation Areas & Site Conditions Map

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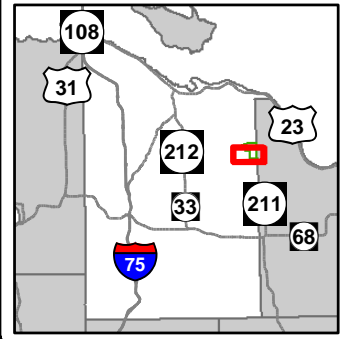


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|---|--|---|--|

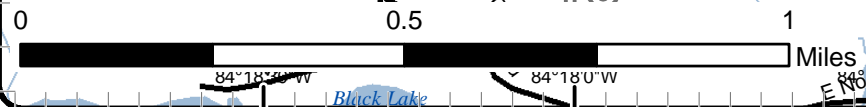
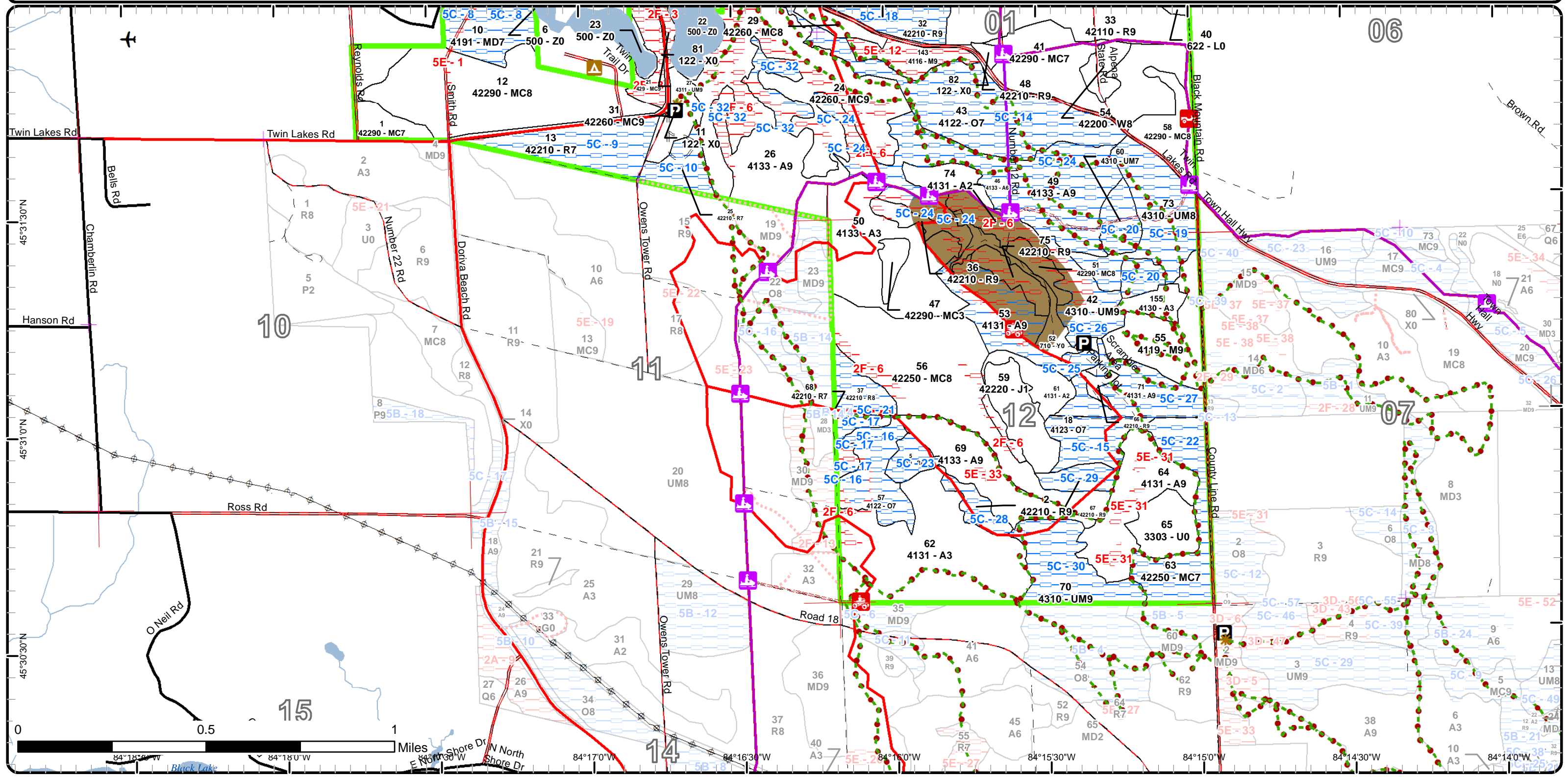


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- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Scramble Area



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 175 Year of Entry 2019

Ryan Zimmerman : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	47	192	0	0	24	0	0	106	174	0	0	0	0	0	0	0	0	543
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Lowland Deciduous	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	21
Lowland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	112
Natural Mixed Pines	0	0	5	0	0	0	0	0	88	202	92	0	1	0	0	0	0	0	387
Northern Hardwood	0	0	0	0	0	0	0	0	0	29	12	22	0	0	0	0	0	0	63
Oak	0	0	0	0	0	0	0	0	17	85	0	0	0	0	0	0	0	0	102
Red Pine	0	0	0	0	0	22	112	30	21	94	29	0	0	0	0	0	0	0	308
Sand, Soil	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Conifers	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	0	0	0	0	0	0	0	0	18	87	0	0	0	0	0	0	0	0	105
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
White Pine	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Total	125	47	216	0	0	46	112	30	271	802	133	26	1	0	0	0	0	0	1808



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 175

Total Compartment Acres: 1,806

Commercial Harvest - 326
 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	101	0	0	0	0	0	0	0	0	101
Mixed Upland Deciduous	69	0	0	0	0	0	0	0	0	69
Northern Hardwood	0	0	0	0	0	22	0	0	0	22
Red Pine	21	0	0	0	0	112	0	0	0	134
Total	191	0	0	0	0	135	0	0	0	326

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	326	0	0	0	0	0	0	0	0	326
Next Step	0	182	91	0	0	112	282	0	0	667
Total	326	182	91	0	0	112	282	0	0	993



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	54175003-Cut	22.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	102	111- 140	Harvest	Low Thinning	411 - Northern Hardwood	Two-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Remove beech and ash. Also, remove any hazard trees. Thin down to 90 BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Campground is located within this stand. Winter harvest only. More of a visual harvest and hazard tree removal. Contact local park manager to help design and mark stand.

Proposed Start Date: 10/01/2018

14	54175014-Cut	9.4	4133 - Aspen, Mixed Pine	Sawtimber Well	80	111- 140	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand. Do not cut any hemlock.

Specs: Add Grouse spec drumming logs

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium to well stocked aspen

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

16	54175016-Cut	21.4	42110 - Planted Red Pine	Sawtimber Well	62	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand with retention left in areas to minimize visual impact from adjacent landowner to the south.

Specs:

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

Treatments: Pesticide, Skidder/Mechanical; Monitoring, Artificial Regen(3yr)

Acceptable Well stocked red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

26	54175026-Cut	30.7	4133 - Aspen, Mixed Pine	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention left around old fire tower site.

Specs: Include appropriate trail specs for snowmobile trail.
Include Grouse spec drumming log

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium to well stocked aspen

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
28	54175028-Cut	69.4	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	87	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal - Approval Pending Edits

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention around heavy pockets of oak.

Specs: Include trail protection and sign protection specs for ORV and Snowmobile trail.

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

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Well stocked red pine

Regen:

Other This will be a single rotation of red pine to help bring back desirable understory regeneration of oak/maple. Also, wildlife would like to plant oak

Comment: scattered through the red pine as well.

Proposed Start Date: 10/01/2018

33	54175033-Cut	112.2	42110 - Planted Red Pine	Sawtimber Well	53	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin down to 120 BA.

Specs: Add snowmobile trail spec.

Next Step

Treatments:

Acceptable Well stocked Red Pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

35	54175035-Cut	8.9	4131 - Aspen, Oak	Sawtimber Well	75	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all species.

Specs: Add Grouse spec drumming logs

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium to well stocked aspen.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

64	54175064-Cut	27.7	4131 - Aspen, Oak	Sawtimber Well	82	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention left in pockets to reduce visual impact. Include appropriate motorized and non-motorized trail specs. Protect trail marker

Specs: trees.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen medium to well stocked

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
69	54175069-Cut	23.8	4133 - Aspen, Mixed Pine	Sawtimber Well	78	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention focused on SE corner where trails intersect.

Specs: Include appropriate motorized and non-motorized trail specs. Protect trail sign trees.
Add Grouse spec drumming logs

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen medium to well stocked

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 325.8**

Report 4 – Site Conditions

Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 175

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				5C	1C	2F	2G	3D	5E	
541	360	122		59	Aspen	122	8	45				7
2	2	0		0	Bog							
19	19	0		0	Jack Pine			0				
32	32	0		0	Low-Density Trees							
4	0	0		4	Lowland Conifers			4				
21	0	0		21	Lowland Deciduous				21			
27	27	0		0	Lowland Shrub							
112	69	40		2	Mixed Upland Deciduous	40						2
387	304	33		50	Natural Mixed Pines	33		47		1		2
63	51	0		12	Northern Hardwood							12
102	0	99		3	Oak	99		3				
308	168	121		19	Red Pine	121		10				9
12	11	0		1	Sand, Soil			1				
11	0	0		11	Upland Conifers			11				
104	0	94		10	Upland Mixed Forest	94		10				
14	14	0		0	Urban							
38	37	0		0	Water		0	0				
8	8	0		0	White Pine							
1,806	1,103	510		193	Total Forested Acres	510	8	132	21	1		31
	61%	28%		11%	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	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -retention for stand 10							
2	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 150 ft. buffer on Hoop Lake ERA.							

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3	Unavailable	2F: Too steep	14	3D: Recreational / Scenic values	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
4	Unavailable	2F: Too steep	4	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments: Steep slope that leads down to Twin Lakes. Pockets of hemlock throughout stand. Directly across the street from Twin Lakes campground.							
5	Unavailable	1C: Other dept or div proc/practices	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Hoop Lake Bog.							
6	Unavailable	2F: Too steep	114	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Black Mountain Recreation Area. Steep slopes.							
7	Unavailable	3D: Recreational / Scenic values	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Surrounded by a very high concentration of people and homes. Also a very visible area from across the lake.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest just completed in 2015.							

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9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Excellent white pine understory coming in. Delay treatment to allow white pine to establish.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest completed 17 years ago. Very low residual overstory.							
11	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from harvest that occurred in stand 19.							
12	Unavailable	5E: Long-Term Retention	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from stand 43							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention from timber sale for stand 64.							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat stand with adjacent stand to west, stand 17.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42290 - Natural Mixed Pine	Sawtimber Poor	17.2	91	1-50	SCA Black Mountain Forest Recreation Area. Harvest was done in 9/2014 and all oak, white pine, and red pine we left.
2	42210 - Natural Red Pine	Sawtimber Well	7.4	85	111-140	SCA Black Mountain Forest Recreation Area.
3	4119 - Mixed Northern Hardwoods	Sawtimber Well	22.3	102	111-140	SCA Black Mountain Forest Recreation Area. State forest campground (Twin Lakes) is located within this stand.
5	42210 - Natural Red Pine	Sawtimber Medium	7.1	88	81-110	SCA Black Mountain Forest Recreation Area.
8	6127 - Lowland Pine	Sawtimber Well	4.4	107	51-80	SCA Black Mountain Forest Recreation Area. This stand has steep slopes and is across the road from Twin Lakes Campground. It is also surrounded by a high concentration of people and homes.
9	42290 - Natural Mixed Pine	Sawtimber Poor	0.7	117	1-50	SCA Black Mountain Forest Recreation Area.
10	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	31.6	86	1-50	Around 30% canopy cover with pockets that have much less. Very good understory regeneration. OPIC - FMD: SCA Black Mountain Forest Recreation Area. Remove aspen and red maple. Protect WP, RP and oak regeneration. Beech in understory. Sale area may be somewhat less do to slope and buffers on water. Leave retention along roads and emphasize aesthetics.
12	42290 - Natural Mixed Pine	Sawtimber Medium	74.5	91	51-80	-finished cutting stand 5/12/14 OPIC - FMD: SCA Black Mountain Forest Recreation Area. 1/2 to 3/4 live crown. W2r1. Disregard partial cut record and follow this prescription: Harvest aspen and red maple, if present. Thin red pine to half-height spacing (where inter-tree spacing approximates the combined heights of both leave-trees, divided by two.) Emphasize aesthetics for both residual and retention. Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand.
13	42210 - Natural Red Pine	Sawtimber Poor	28.8	93	1-50	Two aged stand with heavy component of white pine and aspen in understory. SCA Black Mountain Forest Recreation Area.
14	4133 - Aspen, Mixed Pine	Sawtimber Well	16.8	80	111-140	SCA Black Mountain Forest Recreation Area. This stand slopes down to the water, and ends in a ring of conifer around the lake. No future cutting within 150 feet of Hoop Lake Bog ERA unless beneficial to the ERA.
16	42110 - Planted Red Pine	Sawtimber Well	21.4	62	111-140	SCA Black Mountain Forest Recreation Area. Very hard to see rows. They do not run straight and have variable stocking. Planted around existing large trees.
17	4130 - Aspen	Poletimber Well	23.5	43	1-50	SCA Black Mountain Forest Recreation Area.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4123 - Red Oak	Sawtimber Poor	17.0	78	1-50	SCA Black Mountain Forest Recreation Area. Residual oak and red pine left from previous sale.
19	4131 - Aspen, Oak	Sapling Well	46.6	6	Immature	SCA Black Mountain Forest Recreation Area. Natural, advanced red pine and white pine regeneration. Very good stocking.
20	42210 - Natural Red Pine	Sawtimber Well	8.7	79	81-110	SCA Black Mountain Forest Recreation Area. Retention from sale in stand 19.
21	429 - Mixed Upland Conifers	Sawtimber Well	11.2	86	111-140	SCA Black Mountain Forest Recreation Area. Has influence zones for water, steepness, travel, recreation, and visual concerns. Very visible area and adjacent to Black Mountain Lodge.
24	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	90.5	81	81-110	SCA Black Mountain Forest Recreation Area. Many steep slopes in the stand. BA averaged out to 85 with inconsistent canopy cover. Estimated canopy cover to be around 80%. Majority of stems are in the pole size with larger ones scattered in the less dense areas.
25	42210 - Natural Red Pine	Sawtimber Poor	12.1	86	1-50	Two aged stand with 30% canopy cover. SCA Black Mountain Forest Recreation Area.
26	4133 - Aspen, Mixed Pine	Sawtimber Well	46.3	89	81-110	SCA Black Mountain Forest Recreation Area. Old fire tower site has become scenic party spot. Easy access to fire tower location.
27	4311 - Pine, Aspen Mix	Sawtimber Well	2.4	87	81-110	OPIC - FMD: SCA Black Mountain Forest Recreation Area. Has influence zones for water, steepness, travel, recreation, and visual concerns.
28	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	69.4	87	51-80	SCA Black Mountain Forest Recreation Area. Selection harvest bought by Schepke Forest Products and completed by the spring of 2011. Timber sale name was "Beech Contract" with sale number 54-049-09-01.
29	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	7.5	78	81-110	SCA Black Mountain Forest Recreation Area. Slightly smaller diameter trees than adjacent red pine stands.
30	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	10.9	87	51-80	SCA Black Mountain Forest Recreation Area. Selection harvest bought by Schepke Forest Products and completed by the spring of 2011. Timber sale name was "Beech Contract" with sale number 54-049-09-01. Same parent stand as 28. But, treat this stand along with the adjacent stand to the west (stand 17). Poor quality hardwoods.
31	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	11.1	82	81-110	Equestrian campground is located within the southern end of this stand and ski/hike trail head parking area is located within the middle of this stand. SCA Black Mountain Forest Recreation Area.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42210 - Natural Red Pine	Sawtimber Well	41.2	81	81-110	SCA Black Mountain Forest Recreation Area. Jack pine, aspen, maple, and some oak were removed in 1991. There are several chains of retention along the south edge.
33	42110 - Planted Red Pine	Sawtimber Well	112.2	53	141-170	SCA Black Mountain Forest Recreation Area. Third row thinned 2001, sale 004-99. Reduce BA to 90-100. Sale cut again in 2012 54-056-09-01 Slow Roller Red Pine. Northwest edge has lower stocking. Stand has a residual BA of 163 in 2017.
34	42110 - Planted Red Pine	Poletimber Well	21.8	48	111-140	SCA Black Mountain Forest Recreation Area. Third row thin. Sale cut in 2012 54-056-09-01 Slow Roller Red Pine. Understory exists mostly on the north end of the sale. Has very wide row spacing.
35	4131 - Aspen, Oak	Sawtimber Well	8.9	75	81-110	SCA Black Mountain Forest Recreation Area.
36	42210 - Natural Red Pine	Sawtimber Well	7.4	87	81-110	SCA Black Mountain Forest Recreation Area. Typically very steep in this stand.
37	42210 - Natural Red Pine	Sawtimber Medium	11.6	79	81-110	SCA Black Mountain Forest Recreation Area. All species except red pine and oak were removed in 2000.
38	4130 - Aspen	Sapling Well	31.5	16	Immature	SCA Black Mountain Forest Recreation Area. Harvested in 2001 54-020-99-01. Wet on east edge of stand. Very well stocked stand.
39	6113 - Lowland Maple	Poletimber Poor	20.6	79	1-50	SCA Black Mountain Forest Recreation Area. Very wet with open water in February. Low quality and stunted growth. Scattered dead black ash throughout the stand.
41	42290 - Natural Mixed Pine	Sawtimber Poor	51.1	82	1-50	SCA Black Mountain Forest Recreation Area.
42	4310 - Pine, Oak Mix	Sawtimber Well	18.0	79	81-110	SCA Black Mountain Forest Recreation Area. Most of this stand is very steep except the Southwest portion.
43	4122 - Oak, Pine	Sawtimber Poor	62.8	84	1-50	SCA Black Mountain Forest Recreation Area. Cut in 2001, sale 54-021-99-01.
46	4133 - Aspen, Mixed Pine	Poletimber Well	10.9	76	81-110	SCA Black Mountain Forest Recreation Area. Very steep slopes. On the hillside of the scramble area.
47	42290 - Natural Mixed Pine	Sapling Well	5.2	17	Immature	SCA Black Mountain Forest Recreation Area. Frost pocket area within stand 50.
48	42210 - Natural Red Pine	Sawtimber Well	2.0	80	81-110	SCA Black Mountain Forest Recreation Area.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4133 - Aspen, Mixed Pine	Sawtimber Well	77.6	82	111-140	SCA Black Mountain Forest Recreation Area. Stand has inconsistent stocking throughout. Variable stand with some areas having more understory than other spots.
50	4133 - Aspen, Mixed Pine	Sapling Well	51.8	17	Immature	SCA Black Mountain Forest Recreation Area. Scattered oak throughout stand let from residual cut.
51	42290 - Natural Mixed Pine	Sawtimber Medium	6.3	77	81-110	SCA Black Mountain Forest Recreation Area. Very steep on the side of the hill for the scramble area.
53	4131 - Aspen, Oak	Sawtimber Well	30.7	77	81-110	SCA Black Mountain Forest Recreation Area. ALONG TOP AND SIDES OF STEEPRIDGE EXTREMELY DIFFICULT TO WORK.
54	42200 - Natural White Pine	Sawtimber Medium	7.8	84	51-80	SCA Black Mountain Forest Recreation Area.
55	4119 - Mixed Northern Hardwoods	Sawtimber Well	28.9	87	81-110	SCA Black Mountain Forest Recreation Area. Hemlock is present on the east side of the stand in a lower area by the road.
56	42250 - Pine, Oak	Sawtimber Medium	74.0	73	51-80	SCA Black Mountain Forest Recreation Area. All species except red pine and oak were removed in 2000. ORV trails run through some of the area on old skid trails, but most trails dead end to nothing due to large debris.
57	4122 - Oak, Pine	Sawtimber Poor	22.3	87	1-50	SCA Black Mountain Forest Recreation Area. Aspen cut in 2000.
58	42290 - Natural Mixed Pine	Sawtimber Medium	15.9	84	51-80	SCA Black Mountain Forest Recreation Area.
59	42220 - Natural Jack Pine	Sapling Poor	18.8	17	Immature	SCA Black Mountain Forest Recreation Area. Frost pocket area.
60	4310 - Pine, Oak Mix	Sawtimber Poor	16.8	85	1-50	SCA Black Mountain Forest Recreation Area. All species except oak and red pine were removed in 2000.
61	4131 - Aspen, Oak	Sapling Medium	13.7	17	Immature	SCA Black Mountain Forest Recreation Area.
62	4131 - Aspen, Oak	Sapling Well	78.2	17	Immature	SCA Black Mountain Forest Recreation Area. Stand was cut in 2000. Scattered oak throughout stand. Maybe 20% canopy cover for residual oak from sale.
63	42250 - Pine, Oak	Sawtimber Poor	33.1	86	1-50	SCA Black Mountain Forest Recreation Area. Only pine and oak were left from previous harvest.
64	4131 - Aspen, Oak	Sawtimber Well	32.9	82	111-140	SCA Black Mountain Forest Recreation Area.
66	42210 - Natural Red Pine	Sawtimber Well	2.6	82	81-110	SCA Black Mountain Forest Recreation Area.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	42210 - Natural Red Pine	Sawtimber Well	8.0	80	81-110	SCA Black Mountain Forest Recreation Area.
68	42210 - Natural Red Pine	Sawtimber Poor	7.1	85	1-50	OPIC - FMD: SCA Black Mountain Forest Recreation Area. Aspen cut in 2000.
69	4133 - Aspen, Mixed Pine	Sawtimber Well	28.6	78	111-140	SCA Black Mountain Forest Recreation Area.
70	4310 - Pine, Oak Mix	Sawtimber Well	29.6	83	51-80	SCA Black Mountain Forest Recreation Area. All species except oak and red pine harvested in 2000.
71	4131 - Aspen, Oak	Sawtimber Well	26.4	79	81-110	SCA Black Mountain Forest Recreation Area.
73	4310 - Pine, Oak Mix	Sawtimber Medium	37.5	86	81-110	SCA Black Mountain Forest Recreation Area. Pockets of very dense white pine regeneration.
74	4131 - Aspen, Oak	Sapling Medium	9.6	17	Immature	SCA Black Mountain Forest Recreation Area. Harvested in 2000. Very few red pine and oak were left from harvest.
75	42210 - Natural Red Pine	Sawtimber Well	8.7	67	111-140	SCA Black Mountain Forest Recreation Area. Steep slopes within the scramble area.
143	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	12.1	91	81-110	SCA Black Mountain Forest Recreation Area. Retention from sale to the south.
155	4130 - Aspen	Sapling Well	7.2	17	Immature	SCA Black Mountain Forest Recreation Area. Left all red pine, white pine, and oak from previous harvest.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	6225 - Bog	2.2	No	SCA Black Mountain Forest Recreation Area. Lowland area that floods when water levels are high. No tree growth within this area.
6	500 - Water	16.9	No	SCA Black Mountain Forest Recreation Area Twin Lakes
7	500 - Water	0.1	No	Twin Lakes
11	122 - Road/Parking Lot	0.5	No	Black Mountain Ski and hiking trail head parking lot.
15	500 - Water	3.6	No	SCA Black Mountain Forest Recreation Area. Hoop Lake. Hoop Lake ERA.
22	500 - Water	12.9	No	SCA Black Mountain Forest Recreation Area. TWIN LAKE #1 (ALSO CALLED EAST TWIN LAKE)
23	500 - Water	4.1	No	SCA Black Mountain Forest Recreation Area. TWIN LAKE #2
40	622 - Lowland Shrub	27.1	No	SCA Black Mountain Forest Recreation Area.
52	710 - Sand, Soil	11.6	No	SCA Black Mountain Forest Recreation Area. Scramble area - Used heavily by ORV's and snowmobiles. Originally this was developed as an Alpine ski slope. A concrete foundation and possibly some pulleys still remain.
65	3303 - Mixed Low Density Trees	15.8	No	SCA Black Mountain Forest Recreation Area. Frost pocket area.
81	122 - Road/Parking Lot	6.4	No	SCA Black Mountain Forest Recreation Area. Twin Lakes Hwy, west part.
82	122 - Road/Parking Lot	7.3	No	SCA Black Mountain Forest Recreation Area. Twin Lakes Hwy, east part.
416	330 - Low-Density Trees	7.3	No	SCA Black Mountain Forest Recreation Area. Scattered trees throughout, but mostly open grassy area and rubus.
417	330 - Low-Density Trees	9.1	No	SCA Black Mountain Forest Recreation Area. Appears to have an historic RR grade. This may be an old siding or camp. Mostly open grassy area with rubus.