



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63007

Entry Year 2021

Acreage: 1,987

County Lake

Management Area: Lake County Moraines

Revision Date: 2019-06-11

Stand Examiner: Michael Aksamit

Legal Description:

Townships 20N,11W Section 33 and 19N,11W Sections 2, 3, 4, 9, 11, 15, 16, 20, and 21.

Identified Planning Goals:

Vegetation management in the Lake county Moraines management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age class distributions of aspen and regenerating red pine and oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are increased recreational pressure (including illegal off-road vehicle impacts) and the need to successfully regenerate and establish oak.

Soil and topography:

Rubicon, Montcalm, Graycalm, well drained, sandy soils. Tawas, Croswell, Lupton poorly drained, mucky & sandy soils. Terrain conditions are nearly level to steep, with bluffs and steep hills around the Pine River.

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

Private ownership occurs in every section with state land. Many seasonal and year-round homes exist along the Pine River. Mostly contiguous state ownership with 2 smaller parcels in sections 20 and 21. There is a 5 acre public safety radio tower in section 21.

Unique Natural Features:

Pine River with some high river bluffs.

Archeological, Historical, and Cultural Features:

Old platted village of Edgettes in E ½ SENE of section 11.

Special Management Designations or Considerations:

The Pine River receives heavy recreational use from the public. Major emphasis is on maintaining the integrity of the Pine River and developed recreational facilities. Timber management, as outlined by the RMU, will be done to the extent that it doesn't adversely affect the recreational use of the RMU.

Watershed and Fisheries Considerations:

The Pine River and Coe Creek flow through Compartment 7. The Pine River and Coe Creek are Designated Trout Streams. Both streams have self-sustaining populations of brown, brook, and rainbow trout. The Pine River is a Natural River, so zoning restrictions apply to both the Pine River and Coe Creek. The Pine River in this area is heavily fished by trout anglers. Coe Creek provides valuable spawning habitat for adult trout from the Pine River, and it also provides valuable rearing habitat for juvenile trout. Management along Coe Creek should be for species other than young aspen, so as to discourage beaver colonization of this important Pine River tributary.

Wildlife Habitat Considerations:

Featured wildlife species include deer, bear, ruffed grouse, woodcock, and turkey. Other species utilizing early-successional communities and young forests will benefit from management for these species. Management objective is to maintain diversity of cover types and age classes as well as maintain and/or enhance habitat including work on openings and edges for wildlife species. Retain soft and hard mast sources where applicable to preserve wildlife hunting and viewing opportunities. A cooperative RGS/DNR shrub planting took place in this compartment in 2017.

Mineral Resource and Development Concerns and/or Restrictions

Sections 2-4, 9, 11, 15-16 & 20-21, T19N-R11W and Section 33, T20N-R11W, Lake County

An active sand/gravel pit is located two miles to the west, and there appears to be sand & gravel (more sand than gravel)

potential within the compartment. The small North Luther Field is located less than one mile to the west. Three of the four wells in the field are still producing, but there has been no new development activity in the field in nearly 40 years and additional future development in this geologic zone is considered low at this time. There may be potential for deep gas production from the St. Peter Sandstone. An active St. Peter well is located two miles to the southeast of the compartment. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Good vehicle access exists across most of Compartment 7 with paved roads surrounding most parcels and dirt roads running through them, however a few exceptions exist. Stands 12 and 16 are only accessible through private land due to the confluence of Coe Creek and the Pine River. Stands on the northern side of the Pine River in the large eastern portion of the compartment are only accessible by a road that briefly crosses private land. The 80 in the south western portion of the compartment has questionable legal access; Old 3 Mile Road is gated at the cemetery. 3 Mile Road has a "private road" sign at its entrance and doesn't show up on the Lake County roads database. Previous access into this parcel was through private to the south. None of these constraints affect stands prescribed in this review process. Any new or reopened roads created for harvesting in the compartment should be closed upon completion of the sale.

Survey Needs:

CN 1/16 of Section 15

Recreational Facilities and Opportunities:

There is a public access site with foot paths to the Pine River that is maintained by Parks and Recreation Division in Section 2. Dispersed camping occurs in areas along the Pine River. Canoeing and fishing are very popular in the Pine River.

Fire Protection:

This compartment has areas of pine plantations. The compartment also has numerous private areas, which adds to the potential for human caused fires, and elevates the urban interface concerns. This area does not allow for a good response time from DNR, or local VFD units, due to its location. Recreational use along the rivers and dispersed camping could influence fire ignitions.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

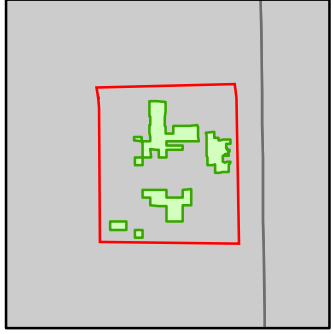
The following information is displayed, where pertinent, on the attached compartment maps:

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

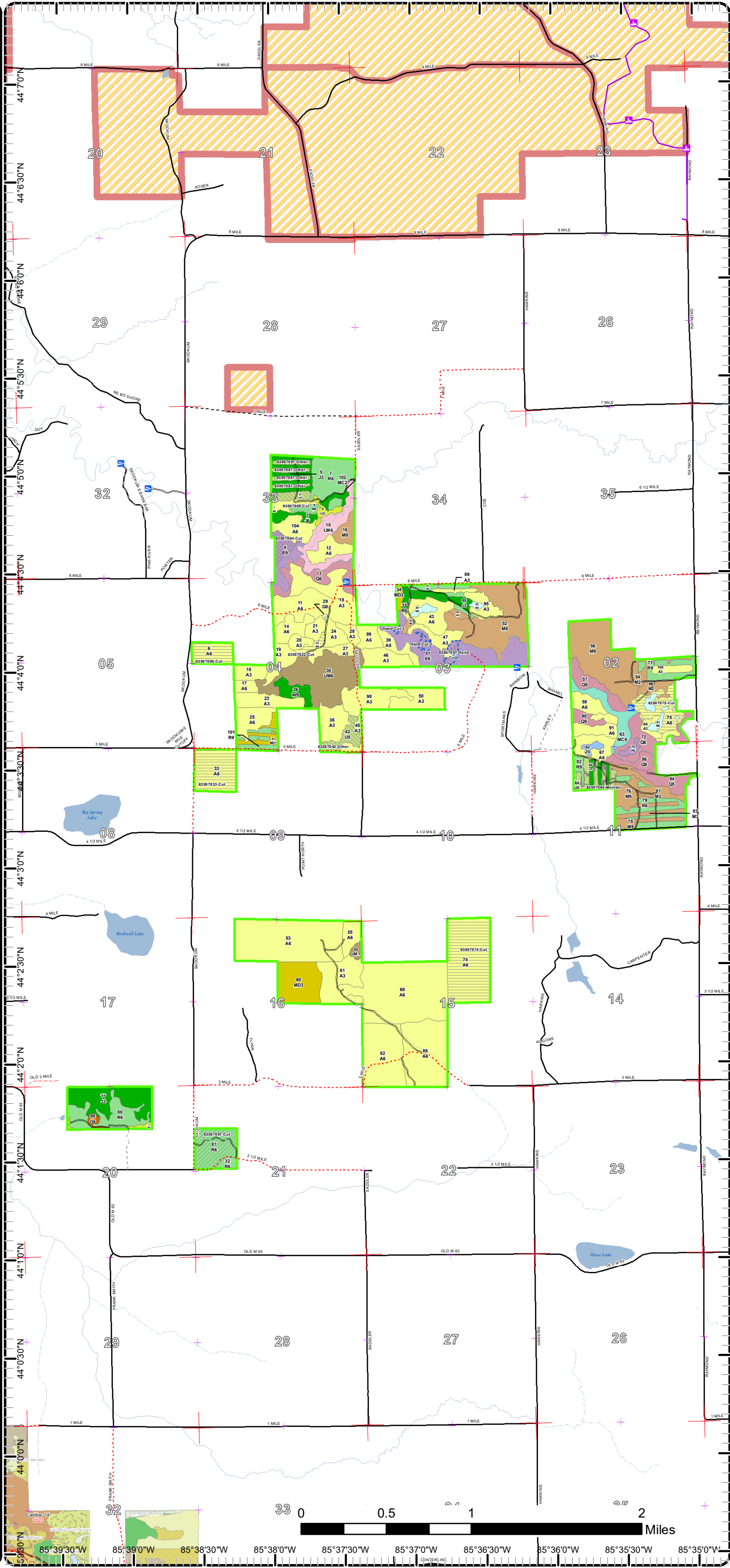
Cover Type & Treatments Map

Compartment: 7

County: Lake
 Unit: Cadillac
 Mgmt Area: Lake County Moraines
 YOE: 2021
 Acres: 1,987 GIS Calculated
 Examiner: Michael Aksamit
 Map Revised: 11/15/2019
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ▭ Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Boating Access Site
- ▭ Compartment Boundary
- ▭ Treatments with Site Conditions
- ▭ Other Harvest - See Comments
- ▭ Other Treatment - See Comments
- ▭ Selection (Group, Single Tree)
- ▭ Clearcut (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- ▭ Regeneration Survey
- 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
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- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 621 - Floating Aquatic
- 623 - Emergent Wetland

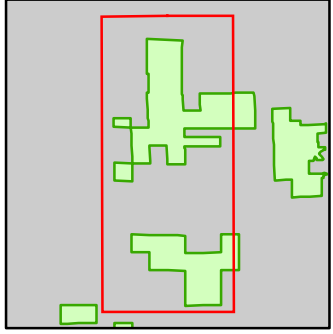


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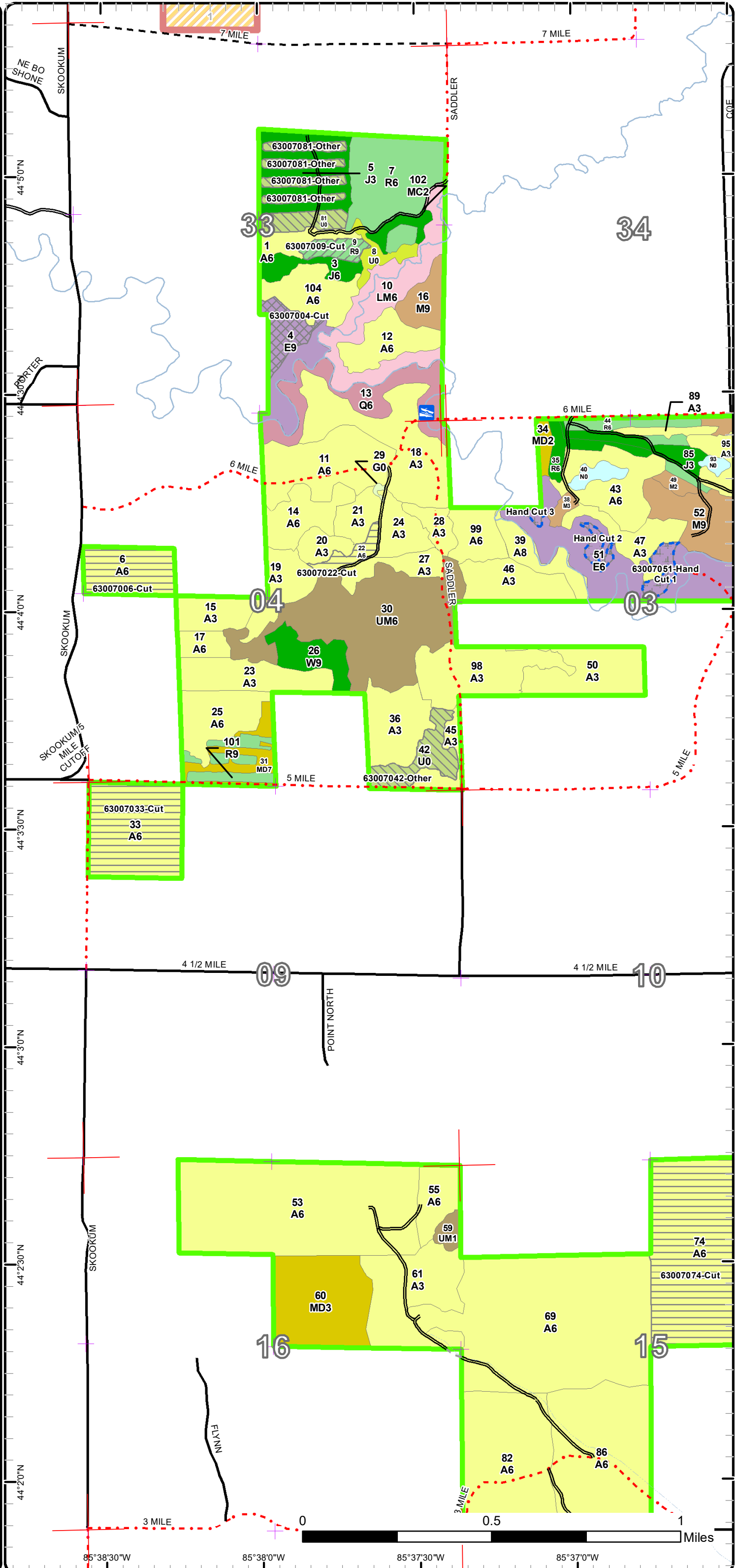
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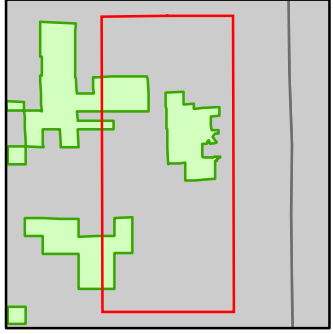
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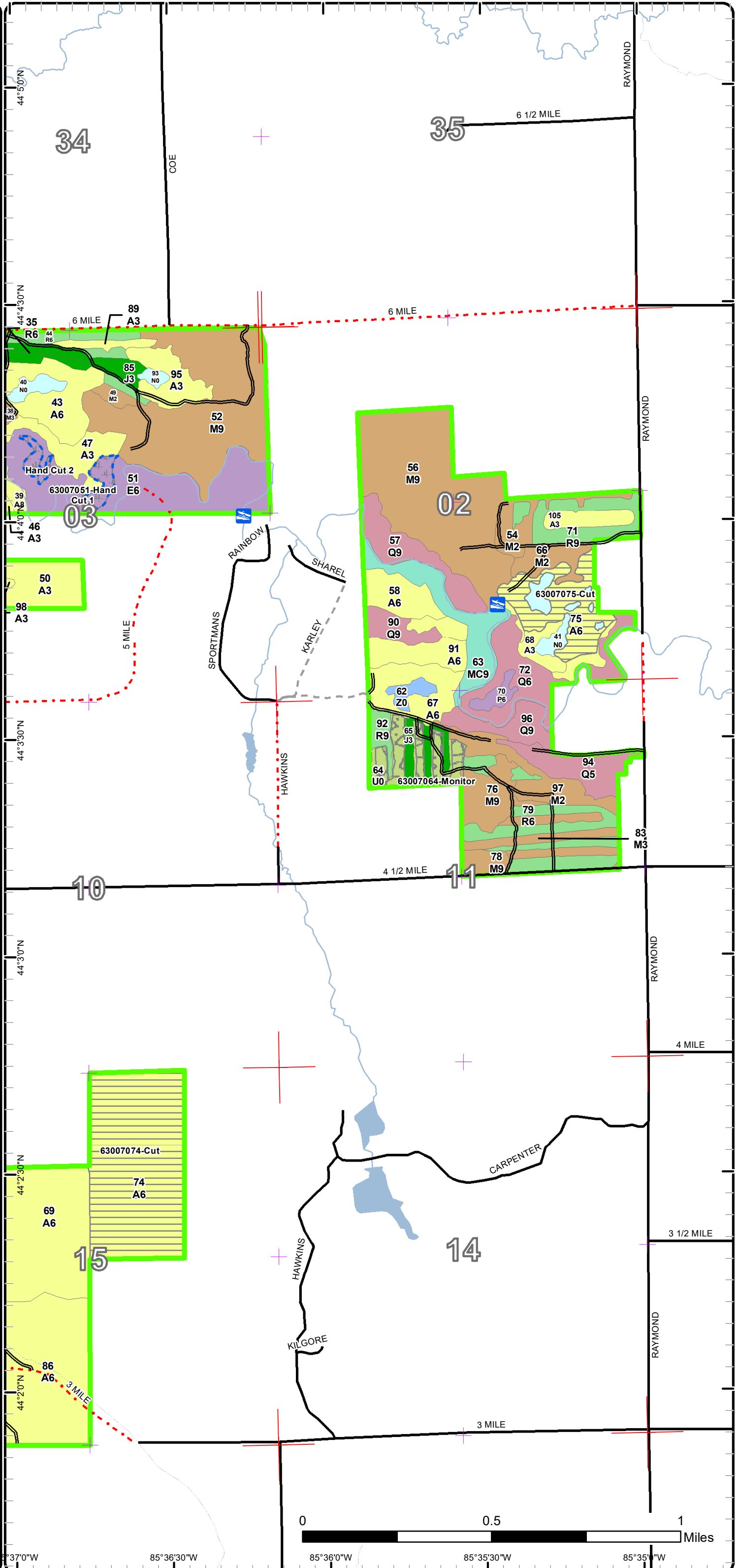
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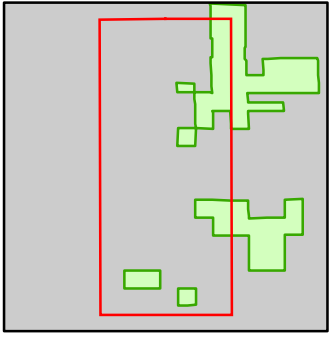


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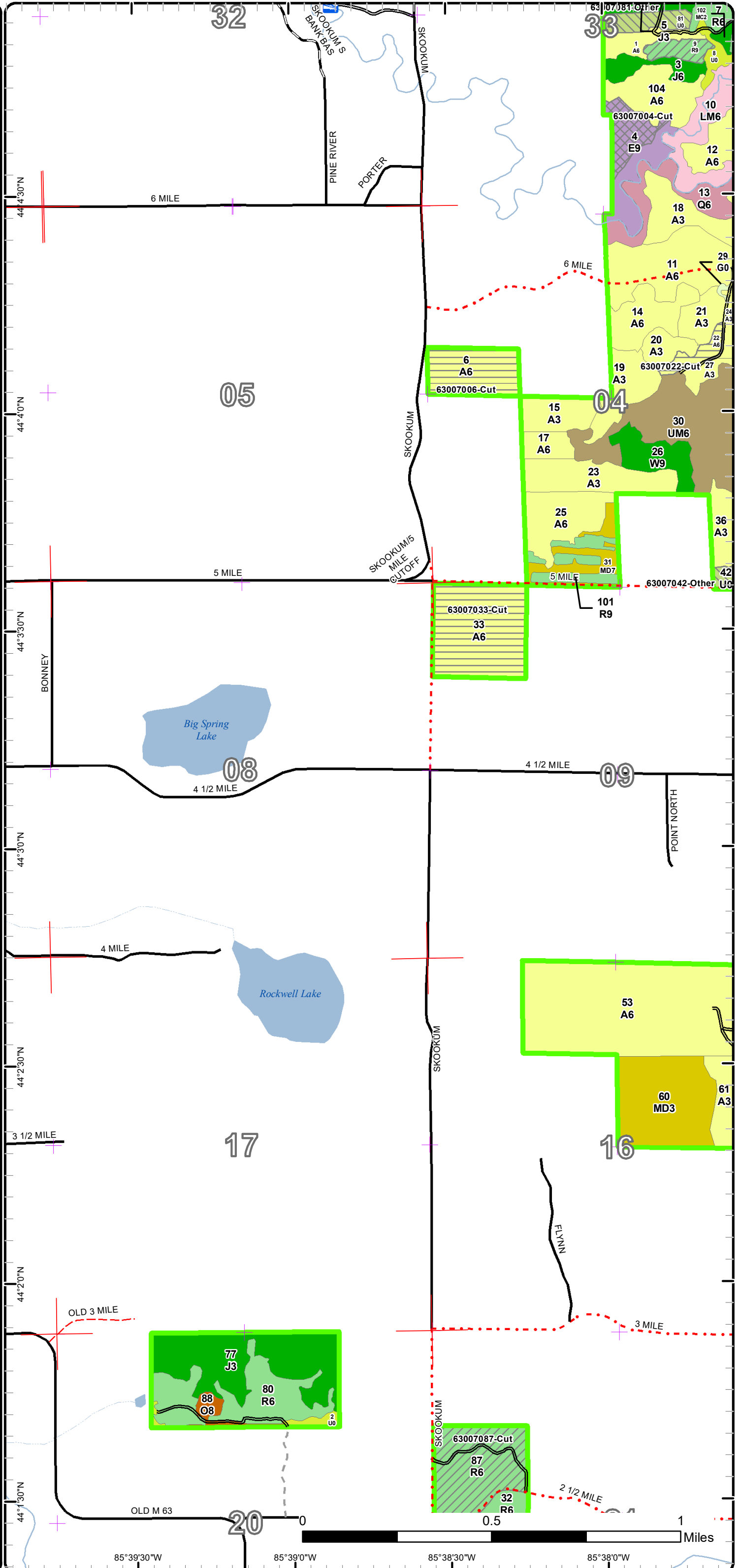


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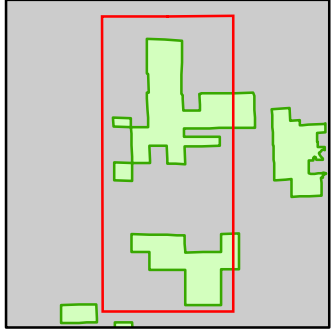
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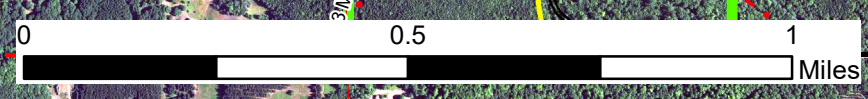
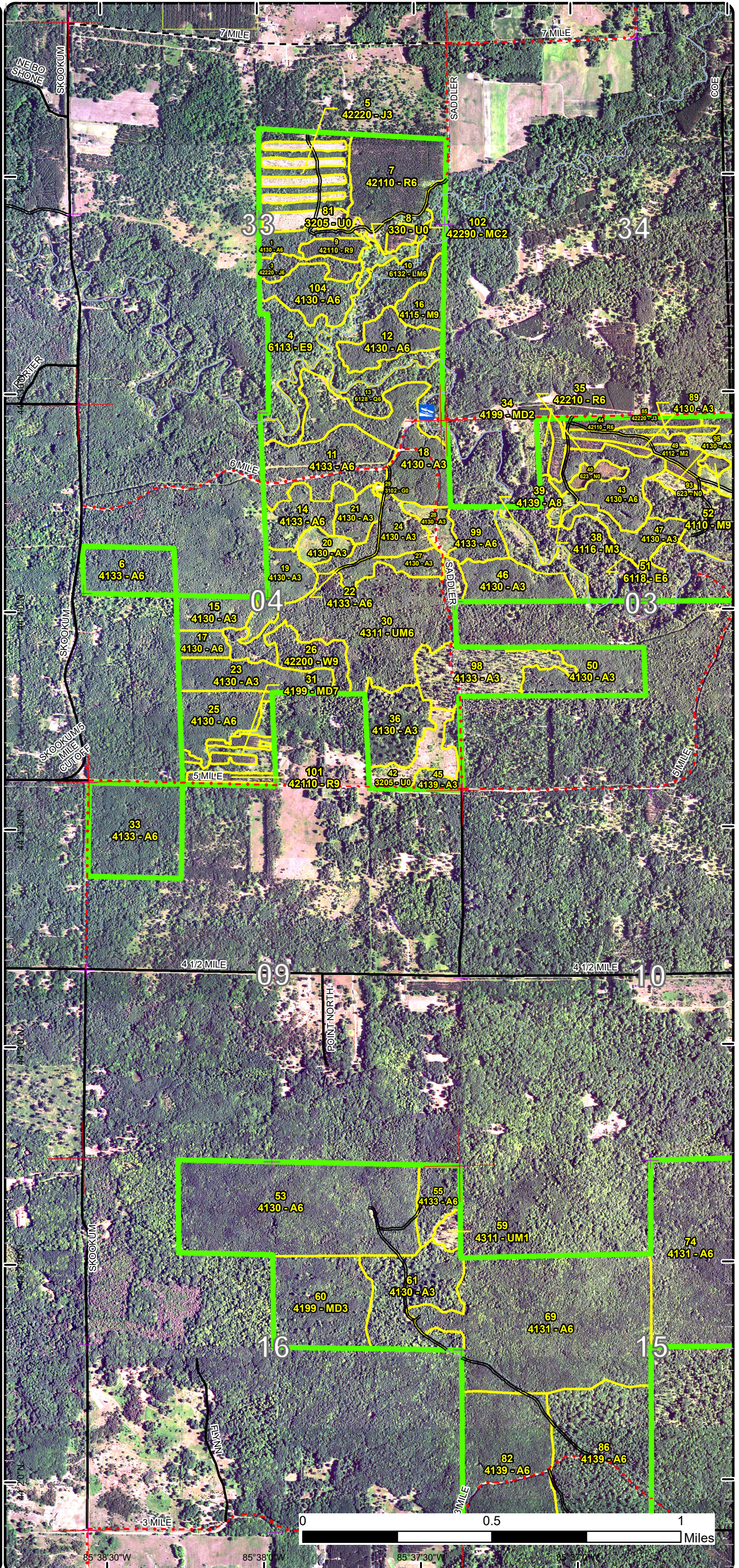
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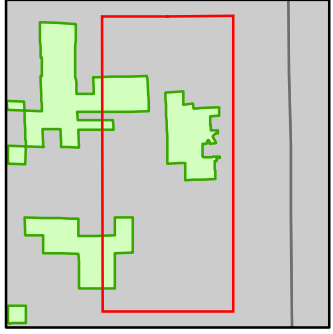


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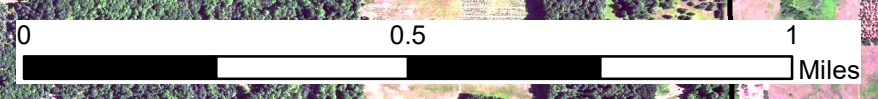
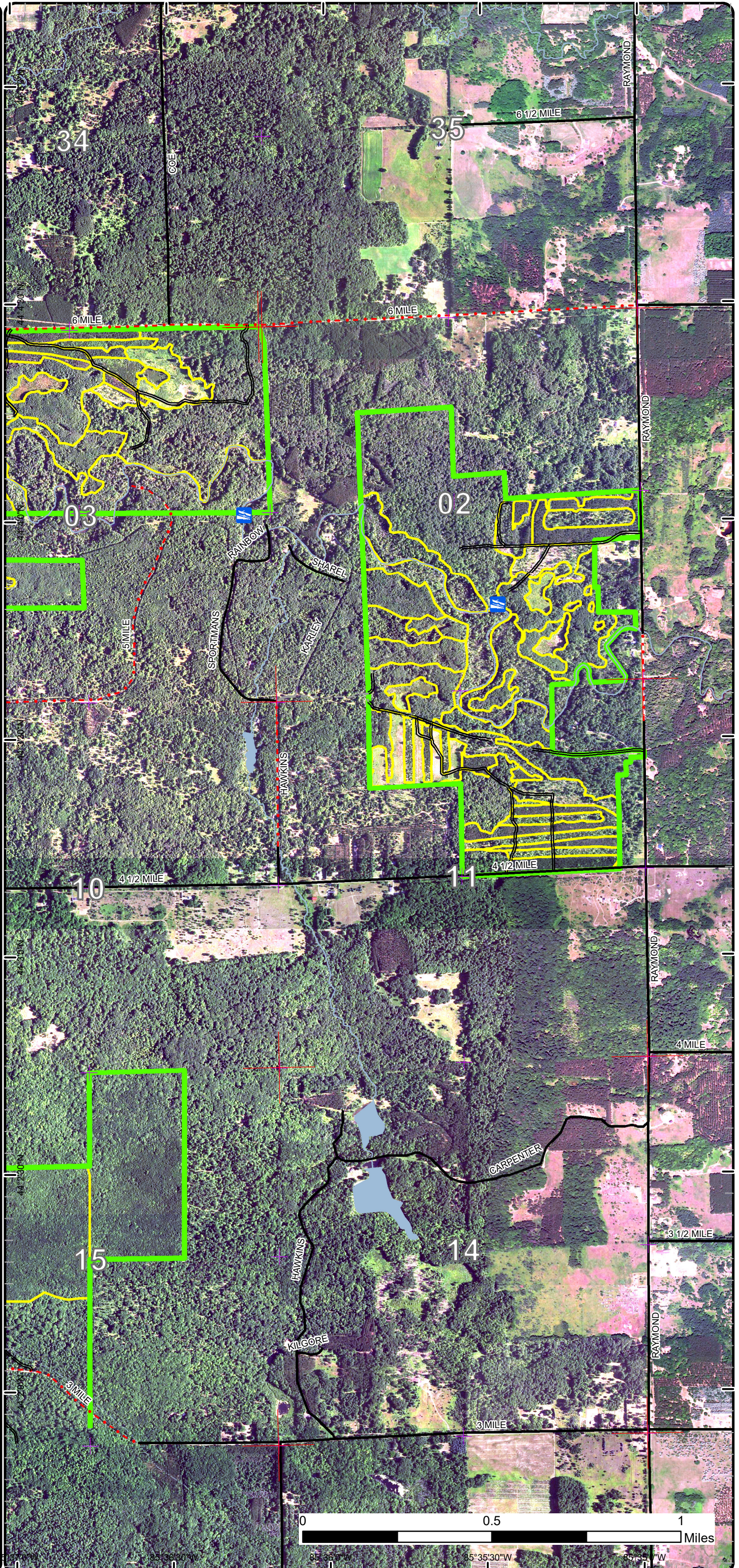
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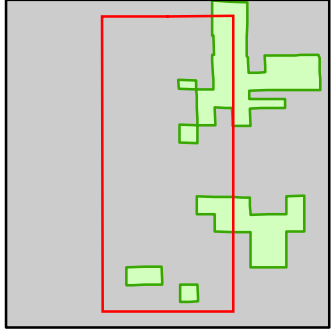


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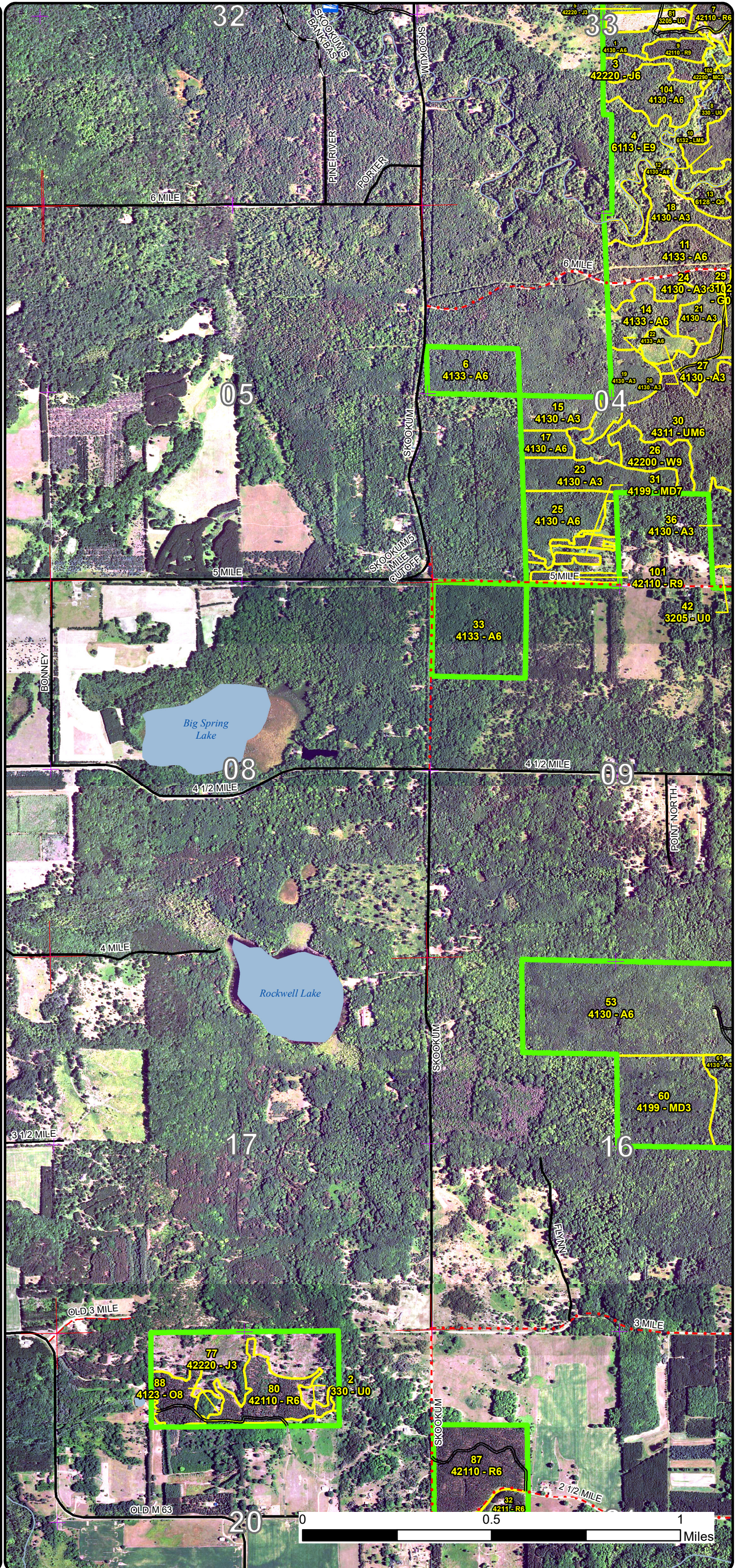
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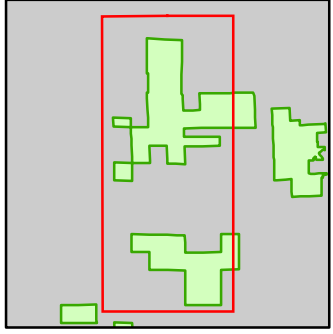
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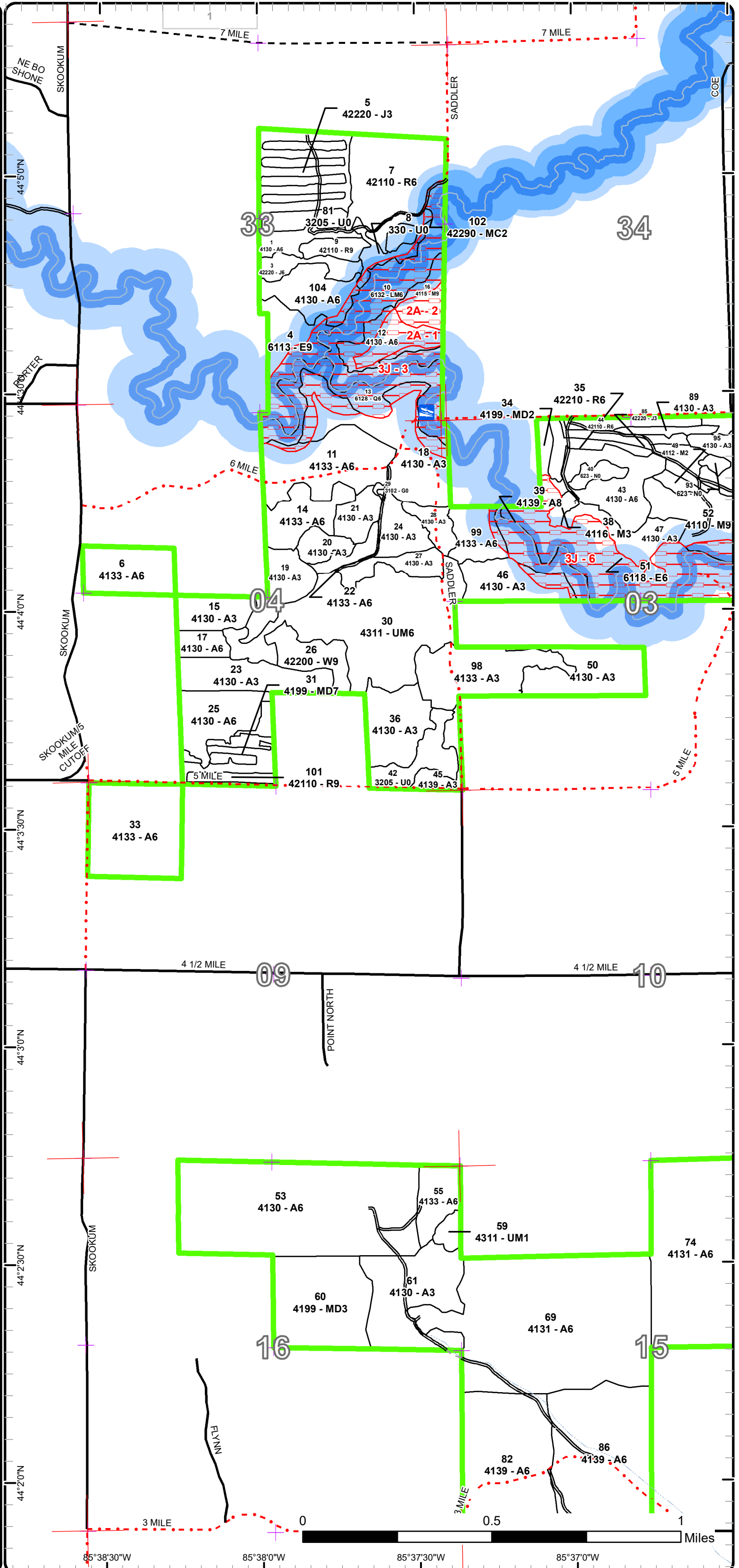
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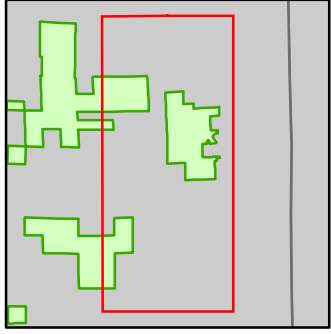
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- Compartment Boundary
- Unavailable
- 2A: Adjacent landowner denied access
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer



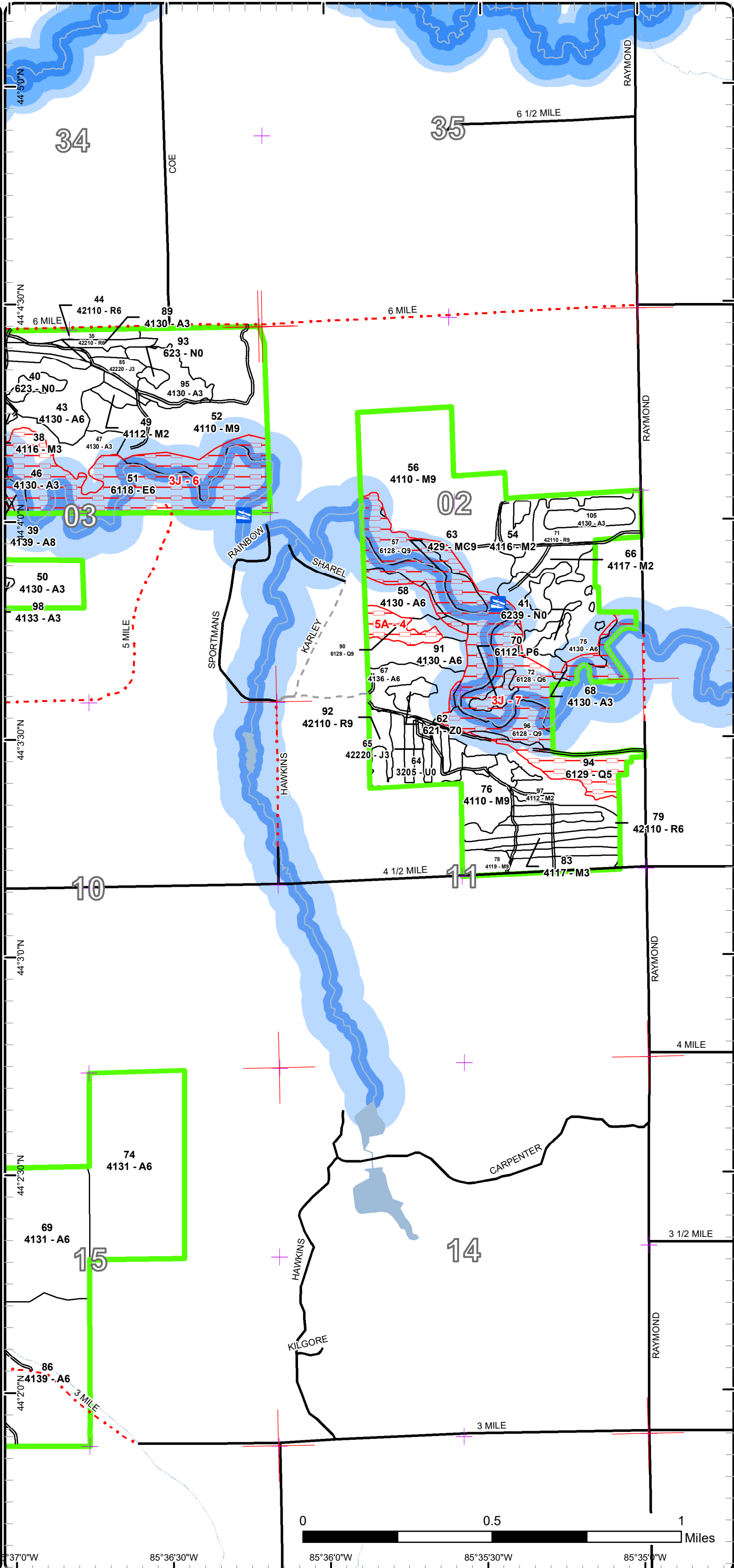
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- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Special Conservation Areas

Compartment: 7

County: Lake

Unit: Cadillac

Mgmt Area: Lake County

Moraines

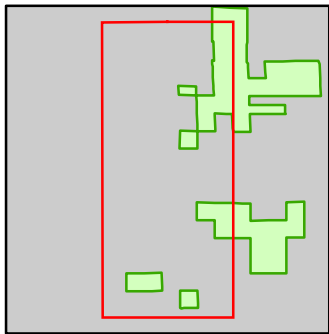
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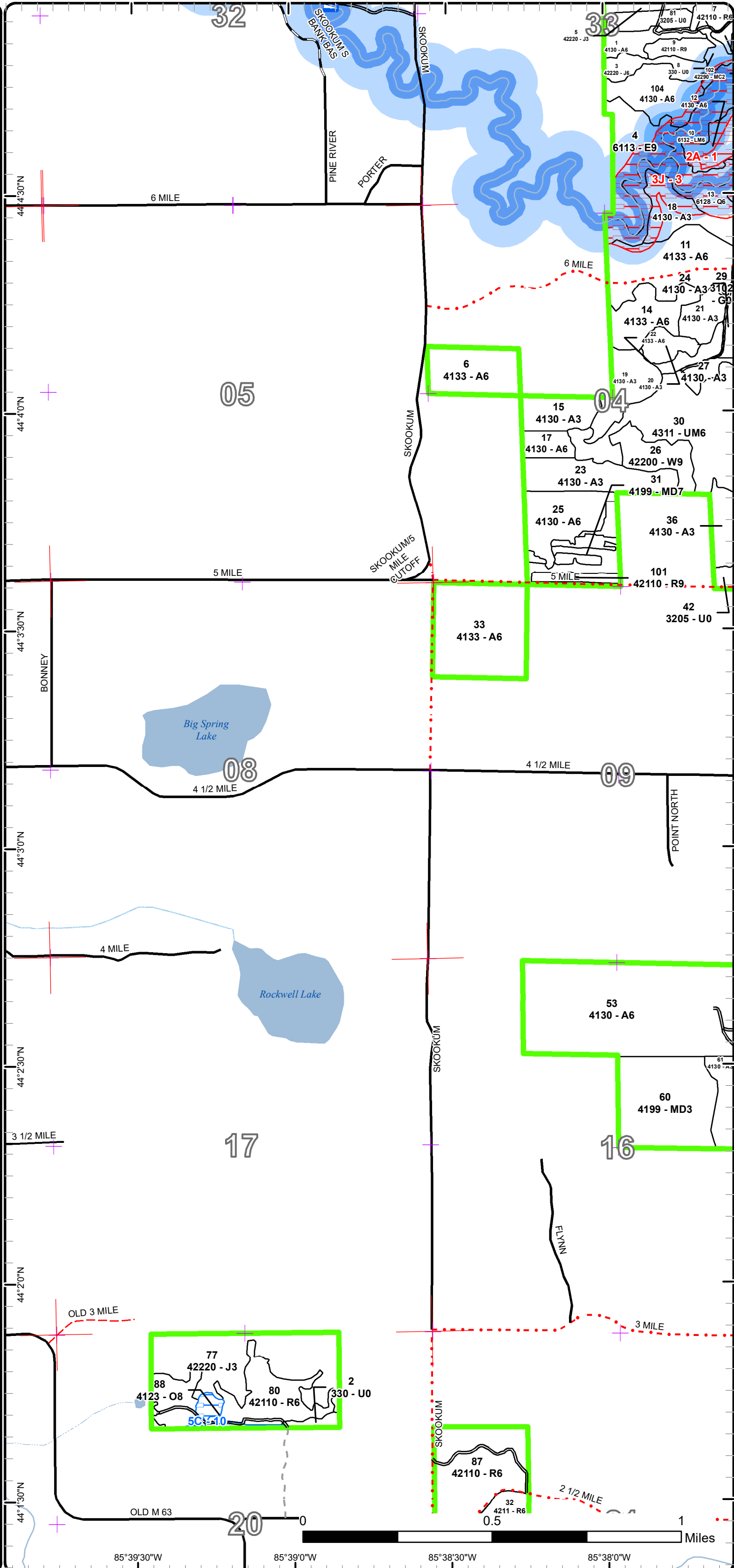
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
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- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 7

Year of Entry 2021

Michael Aksamit : 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	60	204	146	309	186	99	5	11	0	0	0	0	0	0	0	0	0	1020
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack Pine	0	51	21	7	0	8	0	0	0	0	0	0	0	0	0	0	0	0	86
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	25	0	24	51	0	0	0	0	0	0	100
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	0	88
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	32
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	0	3	39	0	0	0	11	0	0	0	0	0	0	0	0	0	0	53
Natural Mixed Pines	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	30	24	0	0	0	0	0	75	77	30	0	0	0	0	0	0	0	236
Oak	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	0	70	111	0	0	0	0	0	0	0	0	0	0	181
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	20
Upland Mixed Forest	0	4	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	75
Upland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	12
Total	74	149	252	192	309	198	253	127	111	81	176	72	0	0	0	0	0	0	1988



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Compartment 7

Year of Entry: 2021

Acres of Harvest

Total Compartment Acres: 1,987

Commercial Harvest - 216
 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	167	0	0	0	0	0	0	0	0	167
Lowland Deciduous	0	10	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	39	0	0	0	0	39
Total	167	10	0	0	39	0	0	0	0	216

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	216	0	0	0	0	14	41	0	0	270
Next Step	0	0	0	0	0	255	0	0	0	255
Total	216	0	0	0	0	269	41	0	0	525



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

4	63007004-Cut	10.0	6113 - Lowland Maple	Sawtimber Well	92	141-170	Harvest	Single Tree Selection	6113 - Lowland Maple	Even-Aged	No
---	--------------	------	----------------------	----------------	----	---------	---------	-----------------------	----------------------	-----------	----

Prescription Thin to a residual basal area of 70-90 with regeneration gaps.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed northern hardwoods.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

6	63007006-Cut	19.4	4133 - Aspen, Mixed Pine	Poetimber Well	57	Unspecified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
---	--------------	------	--------------------------	----------------	----	-------------	---------	-------------------------	--------------------------	-----------	----

Prescription Clearcut with standard retention representative of parent stand. Include grouse spec, consult with unit wildlife biologist for details.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

9	63007009-Cut	5.4	42110 - Planted Red Pine	Sawtimber Well	68	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to a residual BA of 110-130 focusing on suppressed and low quality trees as well as crown spacing.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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22	63007022-Cut	4.8	4133 - Aspen, Mixed Pine	Poletimber Well	60	Unspec ified	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	No
----	--------------	-----	--------------------------	-----------------	----	--------------	---------	----------	--------------------------	-----------	----

Prescription Clearcut with no retention due to small size of stand. Include grouse spec, consult with unit wildlife biologist for details.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

33	63007033-Cut	39.3	4133 - Aspen, Mixed Pine	Poletimber Well	48	141-170	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
----	--------------	------	--------------------------	-----------------	----	---------	---------	-------------------------	--------------------------	-----------	----

Prescription Clearcut with standard retention representative of parent stand. Remove all jack pine that is starting to fall out. Include grouse spec, consult with unit wildlife biologist for details. Include Oak Wilt spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

42	63007042-Other	12.7	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	Other	Other	4211 - Planted Red Pine	Even-Aged	No
----	----------------	------	---------------------------	------------	--	--------------	-------	-------	-------------------------	-----------	----

Prescription Hand release with brush saw. Western portion of stand has heavy competition from red maple, cherry, and jack pine.

Specs:

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

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

51	63007051-Hand Cut 1	4.5	6118 - Lowland Deciduous with Cedar	Poletimber Well	98	171-200	Other	Other	6112 - Lowland Aspen	Even-Aged	No
----	---------------------	-----	-------------------------------------	-----------------	----	---------	-------	-------	----------------------	-----------	----

Prescription Hand cut by WLD for young aspen and woody debris.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Cooperative agreement with RGS.

Comment:

Site Condition BMPs

Proposed Start Date: 1 /1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
64	63007064-Monitor	13.7	3205 - Mixed Upland Shrub	Nonstocked		Unspecified	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> regen check <u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> red pine <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>											
74	63007074-Cut	79.5	4131 - Aspen, Oak	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention representative of parent stand. Include oak wilt spec. Include grouse spec, consult with unit wildlife biologist <u>Specs:</u> for details.</p> <p><u>Next Step</u> ; Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, mixed hardwoods. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
75	63007075-Cut	23.8	4130 - Aspen	Poletimber Well	47	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention representative of parent stand. Include grouse spec, consult with unit wildlife biologist for details. Winter harvest only. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen & or Mixed Hardwoods <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
81	63007081-Other	19.5	3205 - Mixed Upland Shrub	Nonstocked		Unspecified	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Release with brush saw. Southernmost two strips have heavy deciduous competition and are in need of release. Northern three strips have <u>Specs:</u> less immediate need for release but should be assessed come start date.</p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
87	63007087-Cut	33.5	42110 - Planted Red Pine	Poletimber Well	62	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to a residual BA of 110-130 focusing on suppressed and low quality trees as well as crown spacing.</p> <p><u>Specs:</u> Michigan State Police would like the red pine on their parcel south of the road clearcut when this stand is harvested. Contact Brian Aprill for further instruction at 517-284-4087 or aprillb@michigan.gov.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
51	Hand Cut 2	2.9	6118 - Lowland Deciduous with Cedar	Poletimber Well	98	171-200	Other	Other	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Hand cut by WLD for young aspen and woody debris.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Cooperative agreement with RGS.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> BMPs</p> <p><u>Proposed Start Date:</u> 1 /1 /2020</p>											
51	Hand Cut 3	1.3	6118 - Lowland Deciduous with Cedar	Poletimber Well	98	171-200	Other	Other	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Hand cut by WLD for young aspen and woody debris.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Cooperative agreement with RGS.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> BMPs</p> <p><u>Proposed Start Date:</u> 1 /1 /2020</p>											

Total Treatment 270.3
Acres Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit

Michael Aksamit : Examiner

Compartment: 7

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2A	3J	5A
		With Condition	Not Available					
1018	964	0	54	Aspen		9	45	
0	0	0	0	Herbaceous Openland				
86	86	0	0	Jack Pine				
9	7	0	2	Low-Density Trees			2	
4	0	0	4	Lowland Aspen/Balsam Poplar			4	
100	0	0	100	Lowland Conifers			92	7
88	10	0	78	Lowland Deciduous			78	
33	0	0	33	Lowland Mixed Forest			33	
13	13	0	0	Marsh				
53	53	0	0	Mixed Upland Deciduous				
4	4	0	1	Natural Mixed Pines			1	
236	209	0	27	Northern Hardwood		6	20	
4	0	4	0	Oak	4			
182	182	0	0	Red Pine				
21	0	0	21	Upland Conifers			21	
75	75	0	0	Upland Mixed Forest				
47	47	0	0	Upland Shrub				
4	4	0	0	Water				
12	12	0	0	White Pine				
1,987	1,665	4	318	Total Forested Acres	4	16	294	7
	84%	0%	16%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2A: Adjacent landowner denied access	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Cadillac Mgt. Unit

Michael Aksamit : Examiner

Compartment: 7

Year of Entry: 2021

2	Unavailable	2A: Adjacent landowner denied access	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	94	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	3G: Other Influence zones - See comments	Unspecified
Comments: Site condition project trout buffer along the Pine River, as well as wet and steep areas in stands surrounding river.							
4	Unavailable	5A: Not able to obtain desirable regeneration	7	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	95	3G: Other Influence zones - See comments	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified
Comments: Site condition project trout buffer along the Pine River, as well as wet and steep areas in stands surrounding river.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	106	3G: Other Influence zones - See comments	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified
Comments: Site condition project trout buffer along the Pine River, as well as wet and steep areas in stands surrounding river.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4130 - Aspen	Poletimber Well	7.4	38	111-140	N/A	Cut timber sale 009-81A.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole	7		Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen		65	Pole	7	38				
Beech		10	Pole/Sapling	5					
2	330 - Low-Density Trees	Nonstocked	3.1	0	Unspecified	No	5/13/19: Small pocket of red oak and sugar maple. Autumn olive starting to spread in eastern portion of stand. Possible trespass concern in western portion of stand.		
3	42220 - Natural Jack Pine	Poletimber Well	7.6	43	81-110	N/A	Stand treated timber sale #63-015-11-01, "C7 Red Pine"		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		65	Pole/Log	9	43	Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen		22	Pole	6		Ironwood	Low	10 - 20 feet	Sapling
Red Oak		7	Log/Pole	10		Beech	Low	< 5 feet	Sapling
						Red Pine	Low	< 5 feet	Seeding
4	6113 - Lowland Maple	Sawtimber Well	20.7	92	141-170	N/A	Very low and flat stand adjacent to the Pine River. Ash has all died.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		65	Log/Pole	12	92	Black Cherry	Medium	5 - 10 feet	Sapling
Red Maple		10	Pole/Log	8		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Basswood		10	Log	12		Red Maple	Medium	5 - 10 feet	Sapling
Black Cherry		10	Log/Pole	10					
5	42220 - Natural Jack Pine	Sapling Well	20.5	10	51-80	N/A	1/14/19 - Thick pine regen of varying species Stand cut timber sale #009-81A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		62	Sapling	4	10	Jack Pine	High	< 5 feet	Seeding
Red Pine		25	Sapling	3					
White Pine		6	Sapling	2					
Red Oak		7	Pole/Sapling	7					
6	4133 - Aspen, Mixed Pine	Poletimber Well	19.4	57	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		60	Pole/Sap/Log	8	57	White Pine	High	5 - 10 feet	Sapling
White Pine		25	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
7	42110 - Planted Red Pine	Poletimber Well	35.8	65	141-170	N/A	2019: Large pocket of red maple regen in southern portion of stand. Good natural red pine regen between rows. Southern polygon merged with stand 7. Planting record indicated it was only 3 years older. Similar BA and size. 2014: Stand treated timber sale #63-015-11-01, "C7 Red Pine", thinned in 2013. Southern polygon inadvertently treated with same timber sale and thinned at the same time. Issues worked out with no problems. Previous Comment: Row thinned timber sale "Big Tom", 1991.																																																								
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8	330 - Low-Density Trees	Nonstocked	5.6		Unspecified	No	Low stocking non-forested stand. Clumps of mixed white, red, and jack pine. Scattered cherry.																																																								
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10	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	32.5	99	81-110	N/A	Musclewood and ironwood on eastern side of riverbank, especially between stand 10 and stand 12.																																																								
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11	4133 - Aspen, Mixed Pine	Poletimber Well	31.3	30	Unspecified	N/A																																																									
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12	4130 - Aspen	Poletimber Well	15.3	28	Unspecified	N/A	2019: Low quality aspen and cherry with thick musclewood and ironwood under canopy. Aspen is patchy, with some areas in stand being entirely musclewood, especially closer to river.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 24.4 102 111-140 N/A Pine river runs through stand; very steep terrain and wet areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	15	Pole/Log	10		Red Maple	Low	5 - 10 feet	Sapling
Northern White Cedar	10	Pole/Log	8					
White Pine	40	Log/Pole/XLog	12	102				
Hemlock	10	Pole/Log	9					

14 4133 - Aspen, Mixed Pine Poletimber Well 15.3 32 81-110 N/A Fruit trees planted in this stand by RGS.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	80	Pole/Sapling	7	32	White Pine	Low	5 - 10 feet	Sapling
White Pine	10	Pole/Log	8					
Red Pine	10	Pole/Log	10					

15 4130 - Aspen Sapling Well 11.3 28 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	100	Sapling/Pole	4	28	White Pine	Low	10 - 20 feet	Sapling
					Black Cherry	Low	< 5 feet	Sapling

16 4115 - Y.Birch, Hemlock NH Sawtimber Well 9.8 99 81-110 N/A Access will be a problem. Check with adjacent landowners.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Log/Pole	12	99	Sugar Maple	Low	5 - 10 feet	Sapling
Hemlock	15	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	10	Log/Pole	10		Hemlock	Low	5 - 10 feet	Sapling
Beech	10	Log/Pole/XLog	14		Ironwood	Low	5 - 10 feet	Sapling

17 4130 - Aspen Poletimber Well 6.0 37 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	80	Pole/Sapling	7	37	White Pine	Low	5 - 10 feet	Sapling
White Pine	15	Log/Pole/XLog	12		Black Cherry	Low	5 - 10 feet	Sapling

18 4130 - Aspen Sapling Well 39.3 29 51-80 N/A Fruit trees planted by RGS.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	80	Sapling/Pole	3	29	Witch Hazel	Low	5 - 10 feet	Tall Shrub
					Red Maple	Low	5 - 10 feet	Sapling
					White Pine	Low	5 - 10 feet	Sapling

19 4130 - Aspen Sapling Well 13.9 17 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	68	Sapling/Pole	3	17	White Pine	Medium	5 - 10 feet	Sapling
Quaking Aspen	20	Sapling/Pole	3		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
20	4130 - Aspen	Sapling Well	6.1	6	Immature	N/A	Aspen cut in 1987.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		95	Sapling	1	6	Stand treated timber sale #63-053-11-01, "Little Otter Mix".			
21	4130 - Aspen	Sapling Well	7.9	18	51-80	N/A	Stand treated timber sale #630110101, "Slo-gro aspen", 2002.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		95	Sapling	3	18				
22	4133 - Aspen, Mixed Pine	Poletimber Well	4.8	60	Unspecified	N/A	NE corner of stand is older jack pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		70	Pole/Sapling	7	60	White Pine	Medium	10 - 20 feet	Sapling
White Pine		15	Pole/Log	8		Red Pine	Low	5 - 10 feet	Sapling
Red Pine		10	Pole/Log	8		Black Cherry	Low	5 - 10 feet	Sapling
23	4130 - Aspen	Sapling Well	19.7	28	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		97	Sapling/Pole	4	28	White Pine	Medium	10 - 20 feet	Sapling
24	4130 - Aspen	Sapling Well	10.6	29	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		90	Sapling/Pole	3	29	White Pine	Medium	5 - 10 feet	Sapling
White Pine		6	Pole/Sapling	5		Jack Pine	Low	< 5 feet	Sapling
25	4130 - Aspen	Poletimber Well	19.3	33	Unspecified	N/A	Pocket of large white pine in the northeast portion of the stand and a small vernal pond in the southwest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		55	Pole/Log	9	33	White Pine	Low	5 - 10 feet	Sapling
Quaking Aspen		25	Pole	7		Red Maple	Low	Variable	Sapling
White Pine		10	Log/XLog	16		Witch Hazel	Low	5 - 10 feet	Tall Shrub
26	42200 - Natural White Pine	Sawtimber Well	12.5	57	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		15	Pole	6		White Pine	Medium	5 - 10 feet	Sapling
White Pine		70	Log/Pole	10	57	White Pine	Medium	< 5 feet	Seeding
Jack Pine		12	Pole	8					
27	4130 - Aspen	Sapling Well	9.3	17	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		78	Sapling/Pole	3	17	White Pine	Low	5 - 10 feet	Sapling
Red Pine		7	Log/Pole	10					
Quaking Aspen		10	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	4130 - Aspen	Sapling Well	6.3	5	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		75	Sapling	1	5	White Pine	Low	5 - 10 feet	Sapling
Red Maple		20	Sapling	1		Jack Pine	Low	< 5 feet	Sapling
29	3102 - Grass	Nonstocked	0.5	0	Unspecified	No	RGS wildlife opening w/ planted shrubs, mapped at the request of the unit wildlife biologist.		
30	4311 - Pine, Aspen Mix	Poletimber Well	71.0	52	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		40	Pole	7	52	White Pine	High	Variable	Sapling
White Pine		50	Pole/Log	9	52				
31	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	10.9	61	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole/Log	9	61	Red Maple	Low	Variable	Sapling
Red Pine		10	Log/Pole	10		Beech	Low	< 5 feet	Seeding
Red Oak		25	Log/Pole	12		Red Pine	Low	< 5 feet	Seeding
Black Cherry		25	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Paper Birch		10	Pole	8					
32	4211 - Planted Red Pine	Poletimber Well	4.4	62	171-200	N/A			
33	4133 - Aspen, Mixed Pine	Poletimber Well	39.3	48	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		60	Pole/Log	9	48	White Pine	High	5 - 10 feet	Sapling
White Pine		25	Log/Pole	10		Quaking Aspen	Low	10 - 20 feet	Sapling
Jack Pine		10	Log/Pole	11		Beech	Low	< 5 feet	Seeding
34	4199 - Other Mixed Upland Deciduous	Sapling Medium	3.2	12	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Red Oak		20	Pole	8					
Red Maple		20	Sapling	2					
Black Cherry		30	Sapling	2	12				
Red Pine		10	Sapling	2					
Bigtooth Aspen		10	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
35	42210 - Natural Red Pine	Poletimber Well	6.6	64	111-140	N/A																															
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36	4130 - Aspen	Sapling Well	20.2	14	Immature	N/A																															
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38	4116 - Mixed N. Hardwood - Aspen	Sapling Well	2.4	6	Immature	N/A	Stand treated timber sale #63-053-11-01, "Little Otter Mix". Cut in 2013.																														
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39	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	10.6	70	51-80	N/A	Steep hillside down to the pine river.																														
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Black Cherry	10	Pole	8																																		
40	623 - Emergent Wetland	Nonstocked	3.9	0	Unspecified	No																															
41	6239 - Mixed Emergent Wetland	Nonstocked	7.0	0	Unspecified	No																															
42	3205 - Mixed Upland Shrub	Nonstocked	12.7		Unspecified	42110 - Planted Red Pine	5/17/19: Planted red pine looking good - very low mortality w/ some volunteer red pine between trenches. Scattered jack pine and cherry across eastern portion of site. Untrenched and unplanted pocket of red maple regen at 10-20ft in center of stand. Western portion of stand has high competition from cherry and needs released. Scattered residual red pine across site.																														
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Sub-Canopy Species	Density	Avg. Height	Size																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	4130 - Aspen	Poletimber Well	21.9	37	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	3		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen		85	Pole/Sapling	6	37	Black Cherry	Low	5 - 10 feet	Sapling
44	42110 - Planted Red Pine	Poletimber Well	10.2	64	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole/Log	9	64	Red Maple	Medium	10 - 20 feet	Sapling
						Beech	Low	5 - 10 feet	Sapling
45	4139 - Aspen, Mixed Deciduous	Sapling Well	6.6	17	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		40	Sapling	2					
Bigtooth Aspen		55	Sapling	3	17				
46	4130 - Aspen	Sapling Well	17.3	27	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		95	Sapling/Pole	4	27	White Pine	Low	Variable	Sapling
47	4130 - Aspen	Sapling Well	13.5	15	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		82	Sapling	3	15	White Pine	Low	5 - 10 feet	Sapling
Red Maple		10	Sapling	2		Black Cherry	Low	< 5 feet	Sapling
49	4112 - Maple, Beech, Cherry Association	Sapling Medium	2.6	6	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		65	Sapling	2	6	Red Pine	Low	< 5 feet	Sapling
Beech		25	Sapling	1		Jack Pine	Low	< 5 feet	Sapling
50	4130 - Aspen	Sapling Well	23.2	10	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		95	Sapling/Pole	3	10	Bigtooth Aspen	Full	5 - 10 feet	Sapling
						White Pine	Low	5 - 10 feet	Sapling
51	6118 - Lowland Deciduous with Cedar	Poletimber Well	67.8	98	171-200	N/A	Pocket of red pine in western side of stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		42	Pole/Log	9	98	Ironwood	Medium	5 - 10 feet	Sapling
Northern White Cedar		20	Pole	8		Gray Dogwood	Low	5 - 10 feet	Tall Shrub
Hemlock		15	Pole	8		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub

Thinned in 2001.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
52	4110 - Sugar Maple Association	Sawtimber Well	75.0	70	81-110	N/A																																																	
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53	4130 - Aspen	Poletimber Well	99.0	36	Unspecified	N/A																																																	
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54	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	9.9	16	Immature	N/A	2019: Some residual ~4 inch red maple and aspen that wasn't harvested in sale. Canopy closure is around 70%. Some very wet areas on north side of road with dogwood and other shrubs. Just starting to see some mixed regeneration.																																																
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55	4133 - Aspen, Mixed Pine	Poletimber Well	11.7	27	111-140	N/A																																																	
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56	4110 - Sugar Maple Association	Sawtimber Well	76.9	88	81-110	N/A	Pocket of Red Pine in western portion of stand. Stand treated timber sale #630100101, "Pine River Hardwoods", 2004.																																																
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57	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	16.6	98	51-80	N/A	Some very steep areas down to bank of the Pine. Wet sensitive soils with many small drainages running downhill.																																																
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58	4130 - Aspen	Poletimber Well	11.8	37	Unspecified	N/A	Aspen stand with small wet area.																																					
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59	4311 - Pine, Aspen Mix	Sapling Poor	3.6	6	1-50	N/A	2019: Residual white pine starting to die. Oak stumps aren't sprouting; one vein of aspen regeneration across northern edge of site. Stand treated timber sale #63-068-11-01, "Paranormal Pine".																																					
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60	4199 - Other Mixed Upland Deciduous	Sapling Well	38.8	27	81-110	N/A																																						
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62	621 - Floating Aquatic	Nonstocked	3.5		Unspecified	No																																						
63	429 - Mixed Upland Conifers	Sawtimber Well	20.5	105	141-170	N/A	Steep bank going down to the pine river.																																					
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64	3205 - Mixed Upland Shrub	Nonstocked	14.9		Unspecified	42110 - Planted Red Pine	Site has been recently trenched to plant red pine.																																					
65	42220 - Natural Jack Pine	Sapling Well	6.7	20	Immature	N/A																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
66	4117 - Mixed N. Hardwood - Pine	Sapling Medium	8.6	5	Immature	N/A	2019: Mixture of jack pine, beech, and red maple regenerating in stand with poor stocking and closure.																																									
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67	4136 - Aspen, Mixed Conifer	Poletimber Well	20.4	27	Unspecified	N/A																																										
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69	4131 - Aspen, Oak	Poletimber Well	118.2	47	Unspecified	N/A	Pocket of WP in NE corner																																									
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70	6112 - Lowland Aspen	Poletimber Well	3.6	47	81-110	N/A	All ash in stand has died.																																									
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71	42110 - Planted Red Pine	Sawtimber Well	15.5	66	111-140	N/A	2014 Comment: Stand treated timber sale #63-015-11-01, "C7 Red Pine", thinned in 2013. Previous Comment: Moderate amount of sugar maple saplings up to 15' in height, especially along stand edges. Sugar maple seedlings up to 6". Stand thinned timber sale #63-102-01-01, "Rainman's Access", 2004.																																									
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72	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	24.9	70	51-80	N/A	Occasional basswood and birch.																																									
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75	4130 - Aspen	Poletimber Well	28.2	47	Unspecified	N/A	Varied stand with some wet pockets and lowland areas. All ash in stand has died.																																																						
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76	4110 - Sugar Maple Association	Sawtimber Well	14.8	92	81-110	N/A	There are areas of dense black cherry regeneration in areas with a less dense canopy.																																																						
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77	42220 - Natural Jack Pine	Sapling Well	42.4	6	Immature	N/A	Stand treated timber sale #63-068-11-01, "Paranormal Pine". 5/13/19: Original treatment objective of mixed hardwood has failed. Thick JP regeneration across site w/ patches of beech and cherry. Some residual red oak in the canopy.																																																						
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78	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.2	92	81-110	N/A	There is a small wet pocket in the middle of the stand.																																																						
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79	42110 - Planted Red Pine	Poletimber Well	26.3	59	141-170	N/A	2019: Stand 84 (two northern polygons) merged into Stand 79. Same age and size, slightly lower stocking. Stand treated timber sale #63-015-11-01, "C7 Red Pine". Thinned in 2013.																																																						
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80	42110 - Planted Red Pine	Poletimber Well	29.9	55	141-170	N/A	Stand treated timber sale #63-068-11-01, "Paranormal Pine". Stand row thinned timber sale #630840101, 2004.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		97	Pole/Log	9	55	Black Cherry	Low	5 - 10 feet	Sapling
						Beech	Low	< 5 feet	Sapling
						White Pine	Medium	5 - 10 feet	Sapling
						Red Pine	Low	< 5 feet	Seeding
81	3205 - Mixed Upland Shrub	Nonstocked	19.5		Unspecified	4211 - Planted Red Pine	2019: Southern two strips have heavy competition from deciduous regen, but the acreage isn't high		
Sub-Canopy Species		Density	Avg. Height	Size					
Red Pine		Full	< 5 feet	Seeding	Stand trenched and planted to red pine per FTP #C63-753 (2017) in June 2016 and May 2017.				
Beech		Low	< 5 feet	Sapling	Stand treated timber sale #63-015-11-01, "C7 Red Pine".				
Hawthorn (spp.)		Medium	5 - 10 feet	Tall Shrub					
Black Cherry		Medium	< 5 feet	Sapling					
82	4139 - Aspen, Mixed Deciduous	Poletimber Well	56.9	36	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole	9		Beech	Medium	5 - 10 feet	Sapling
Beech		10	Pole/Sapling	5		White Pine	Low	5 - 10 feet	Sapling
Red Oak		15	Pole	7					
Bigtooth Aspen		55	Pole	7	36				
83	4117 - Mixed N. Hardwood - Pine	Sapling Well	14.3	16	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		30	Sapling	2	16				
Beech		15	Sapling	1					
Red Maple		30	Sapling	1	16				
Sugar Maple		10	Sapling	1					
Red Oak		10	Sapling	1					
85	42220 - Natural Jack Pine	Sapling Well	8.4	6	Immature	N/A	Heavy JP regeneration with some pockets of red maple.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		75	Sapling	2	6				
Red Maple		25	Sapling	2					
86	4139 - Aspen, Mixed Deciduous	Poletimber Well	64.6	18	Unspecified	N/A	Stand treated timber sale #630640101, "Ellsworth Aspen", 2001.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	5		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Red Oak		15	Log/Pole	11		Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen		52	Pole/Sapling	5	18				
White Pine		15	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
87	42110 - Planted Red Pine	Poletimber Well	33.5	62	171-200	N/A	Stand treated in timber sale #63-068-11-01, "Paranormal Pine"; row thinned timber sale #630800101, 2003.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole/Log	9	62	Beech	Low	5 - 10 feet	Sapling
						Red Pine	Low	< 5 feet	Seeding
88	4123 - Red Oak	Sawtimber Medium	4.4	80	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		80	XLog/Log/Pole	22	80	Hemlock	Medium	10 - 20 feet	Pole
Basswood		15	XLog/Log	18		White Pine	Medium	10 - 20 feet	Sapling
						Ironwood	Low	10 - 20 feet	Sapling
89	4130 - Aspen	Sapling Well	3.6	12	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		60	Sapling	2	12				
Red Maple		30	Sapling	2					
Jack Pine		10	Sapling	1					
90	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	7.4	90	Unspecified	N/A	Hemlock stand with areas of aspen regeneration on the upland hills.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock		90	Log/Pole	10	90	Bigtooth Aspen	Low	5 - 10 feet	Sapling
White Pine		10	Log	14		Red Maple	Low	Variable	Sapling
						White Pine	Low	5 - 10 feet	Sapling
91	4130 - Aspen	Poletimber Well	11.4	33	Unspecified	N/A	Hemlock located around wet pockets within the stand. White pine located in eastern portion of the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock		10	Pole	8		Black Cherry	Low	Variable	Sapling
Bigtooth Aspen		75	Pole	7	33	Red Maple	Low	Variable	Sapling
						Ironwood	Low	Variable	Sapling
						White Pine	Low	Variable	Sapling
92	42110 - Planted Red Pine	Sawtimber Well	5.0	56	141-170	N/A	Red pine plantation with a small pocket of aspen in the southern portion.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		90	Log/Pole	10	56	Red Maple	Low	5 - 10 feet	Sapling
						White Pine	Medium	Variable	Sapling
						Beech	Medium	5 - 10 feet	Sapling
93	623 - Emergent Wetland	Nonstocked	1.7	0	Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
94	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	15.5	105	51-80	N/A	2019: 1.5 ac of BT aspen at 2" DBH in the northwest. Varied stand with pockets of aspen regeneration. Eastern portion of stand is very wet. All the ash in the stand has died.																																					
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95	4130 - Aspen	Sapling Well	12.7	6	Immature	N/A	Stand treated timber sale #63-066-11-01, "Old Grade Aspen".																																					
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96	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	10.9	105	141-170	N/A	Lowland mix with aspen on the higher ground.																																					
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97	4112 - Maple, Beech, Cherry Association	Sapling Medium	16.4	8	Immature	N/A	2019: Some large overstory sugar maple. Mixture of red maple and beech leading the regen with white, red, and jack pine seedlings <1'. Poor canopy closure (50-75%).																																					
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98	4133 - Aspen, Mixed Pine	Sapling Well	27.8	6	Immature	N/A	Stand treated timber sale #63-053-11-01, "Little Otter Mix". Cut in 2013.																																					
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99	4133 - Aspen, Mixed Pine	Poletimber Well	11.6	38	Unspecified	N/A																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
101	42110 - Planted Red Pine	Sawtimber Well	9.2	56	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		90	Log/Pole	10	56	White Pine	Low	< 5 feet	Seeding
						Beech	Low	< 5 feet	Seeding
102	42290 - Natural Mixed Pine	Sapling Medium	4.4	4	Immature	N/A	2019: Appears to be jack pine that was recently harvested; can't find timber sale folder. Mixture of red, white, and jack pine regeneration with some scattered beech and red maple.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		45	Sapling	1	4				
Red Pine		20	Sapling	1					
Beech		15	Sapling	2					
White Pine		15	Sapling	2					
104	4130 - Aspen	Poletimber Well	16.9	38	Unspecified	N/A	Stand cut timber sale #009-81A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		79	Pole/Sapling	5	38	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Red Oak		13	Pole	8		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
105	4130 - Aspen	Sapling Well	6.6	6	Immature	N/A	2019: Multiple patches of heavy bigtooth aspen regen at 10-15' tall.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech		15	Pole/Sapling	5	6	Jack Pine	Medium	< 5 feet	Sapling
Bigtooth Aspen		70	Sapling/Pole	2	6	Beech	Medium	5 - 10 feet	Sapling
White Pine		10	Pole	6		Black Cherry	Low	< 5 feet	Sapling
							2014: Stand treated timber sale #63-015-11-01, "C7 Red Pine", thinned in 2013.		
							Previous Comment: Moderate amount of sugar maple saplings up to 15' in height, especially along stand edges. Sugar maple seedlings up to 6". Stand thinned timber sale #63-102-01-01, "Rainman's Access", 2004.		