



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45159

Entry Year 2023

Acreage: 1,887

County Mackinac

Management Area: Strickler Aspen

Stand Examiner: Andrew Krugh

Legal Description:

T43N 08W Sec 3 E1/2, S1/2NENW, W1/2NWNENW, N1/2NWNW S1/4S1/2 SE, SW Sec 4 SWNE, SE, E1/2SW SWSW, NWNW Sec 9 NWNW, N1/2NW, NE, E1/2SE, Sec10

Identified Planning Goals:

Soil and topography:

The uplands are generally Amadon-Rock outcrop complex, Menominee loamy sand, Wallace sands, and Paquin sand. Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Spot-Finch and Markey-Spot-Finch Complexes. Level lowlands to rolling uplands.

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

Section 10 is entirely state owned. Most of Section 3 is state owned except for the Hudson Township property, which is about 55 acres. The Hudson Township Fire Hall and a recreational area are located on this property. Approximately half of Sections 4 & 9 are privately owned. There is private land along the west edge, while the remainder of the compartment is surrounded by state land with a few scattered holdings of private. The town of Garnet is located along the north edge of Section 4

Unique Natural Features:

Garnet Lake and the headwaters of the Black River are in this compartment

Archeological, Historical, and Cultural Features:

There is a cedar shingle mill located in Garnet that has been operated by the same family for nearly a century

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

This compartment contains the East Branch of the Black River, Borgstrom Creek, and Garnet Lake. The East Branch of the Black River is a designated trout stream less than 50' width. A 300' buffer is recommended for the East Branch of the Black River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. Borgstrom Creek is a designated trout stream less than 50' width. A 300' buffer is recommended for Borgstrom Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. Garnett Lake is a 36-acre inland lake with natural shorelines. 100' plus 5' per 1% increase in slope; buffers are recommended to protect natural shoreline areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is part of the Strickler Aspen Management Area where featured wildlife species include American woodcock, ruffed grouse, snowshoe hare, and white-tailed deer. The compartment is just north of the Strickler GEMS. It contains a mix of aspen, hardwood pockets, and lowland conifer swamp dominated by cedar. Hardwood stands have been managed to increase stand diversity in the past, and aspen has been managed to encourage varying age classes in the area. Cedar and other lowland conifer swamp has been protected. Wildlife objectives involve continuing these practices. Some aspen stands are slated for treatment, which will further increase age class diversity between stands in this area. Some retention will be placed between stands to provide mature pockets near young growth. These practices will benefit all of the species mentioned above as well as other species. Maturing northern hardwoods and swamp areas will benefit hawks, bear, bobcat, and other wildlife.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. Multiple active sand/gravel pits occur within two miles of the compartment. The compartment is also just south of the Graymont land and mineral transaction that was completed around 2015. Engadine limestone underlies glacial drift here but may be too deep to have economic value. Graymont has proposed an underground limestone mine to the north. Potential for sand & gravel may exist within the compartment, but wetlands and a shallow water table would inhibit surface mining.

Vehicle Access:

H-40 and Park Road border the north of the compartment. H-40 is a paved county road while Park Road is a gravel county road. The Borgstrom Road is a paved county road that runs along the west edge. Access to the south is from the Strickler Road, which is a gravel DNR road and several two – tracks. Rocky Ridge Road, a two – track, enters the center of the compartment off of the Borgstrom Road. The eastern portion can be accessed from the Crawfin Lake Road, which is another gravel DNR road, and a couple of two – tracks. The State of Michigan won a lawsuit to keep the Strickler Road open for public use after a private landowner tried to close the portion of the road that runs through their property.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Hunting, fishing, and foraging opportunities exist within the compartment. Strickler GEMS is in a portion of this compartment and is managed for grouse.

Fire Protection:

Large scale fires are a low risk within the area. There are enough roads within the compartment to help with access but a lot of these roads are one way in and out. Hudson Township VFD is right next to this compartment to help with response.

Additional Compartment Information:

The following reports from the Inventory are attached:

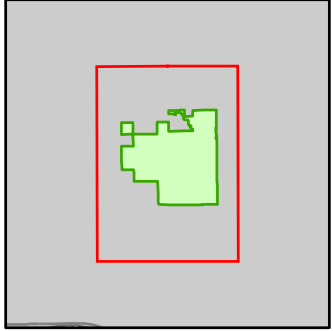
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

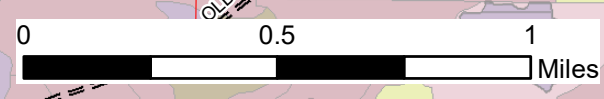
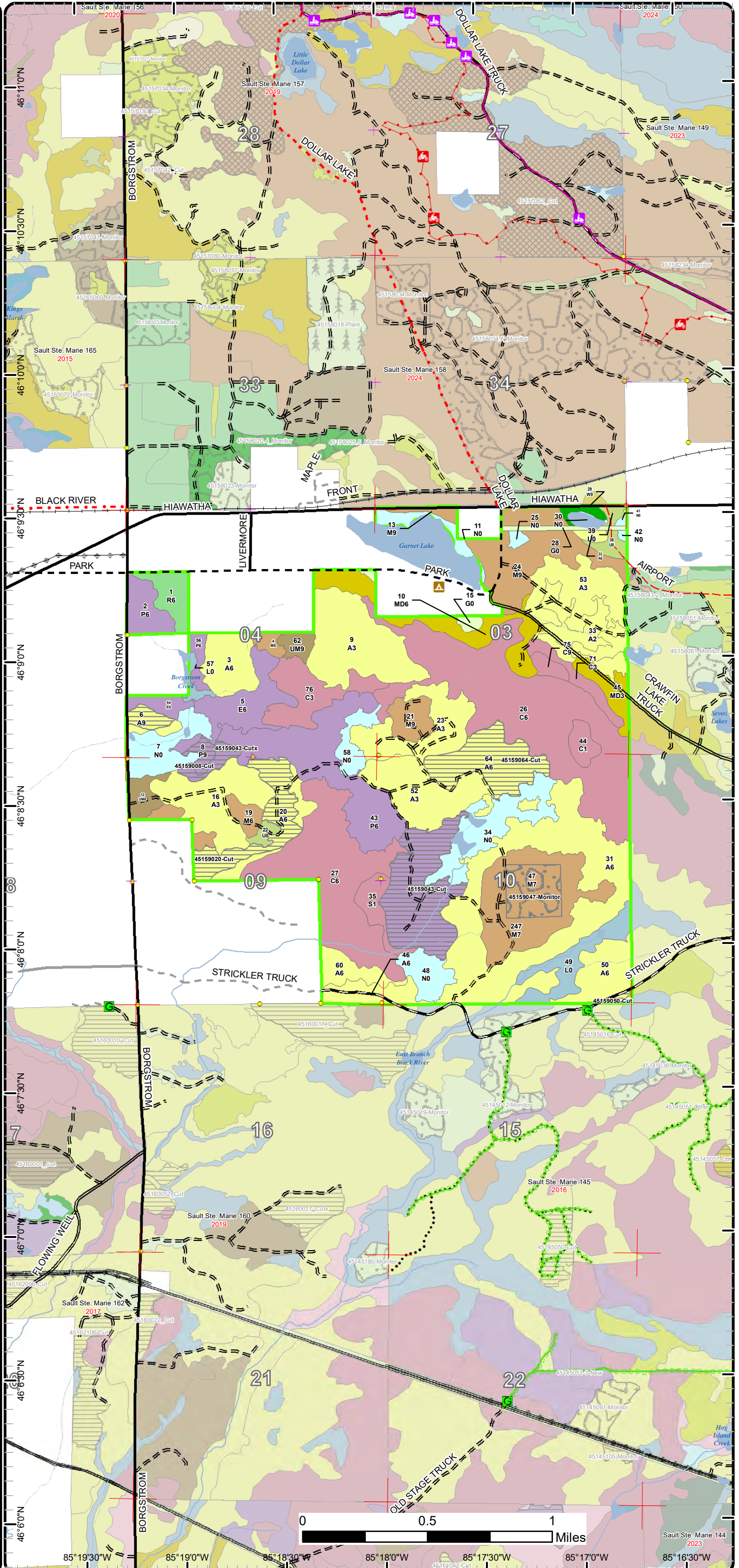
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 159
 T43N,R08W, Sec: 3, 4, 9, 10
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Strickler Aspen
 YOE: 2023
 Acres: 1886.9 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 1/28/2022
 Map Phase: Post Review



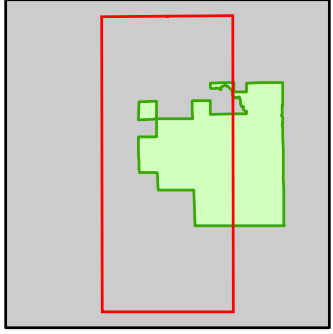
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- Private - Paved Road
- Private - Dirt / Gravel Road
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- Active Railroads
- Motorcycle Trails (DNR License)
- Designated Hunter Walking Trails
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- Designated Snowmobile Trails
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- Lakes and Rivers
- Gate
- Campground
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
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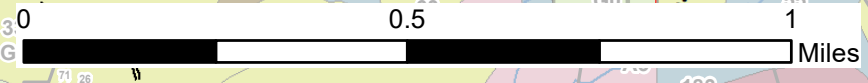
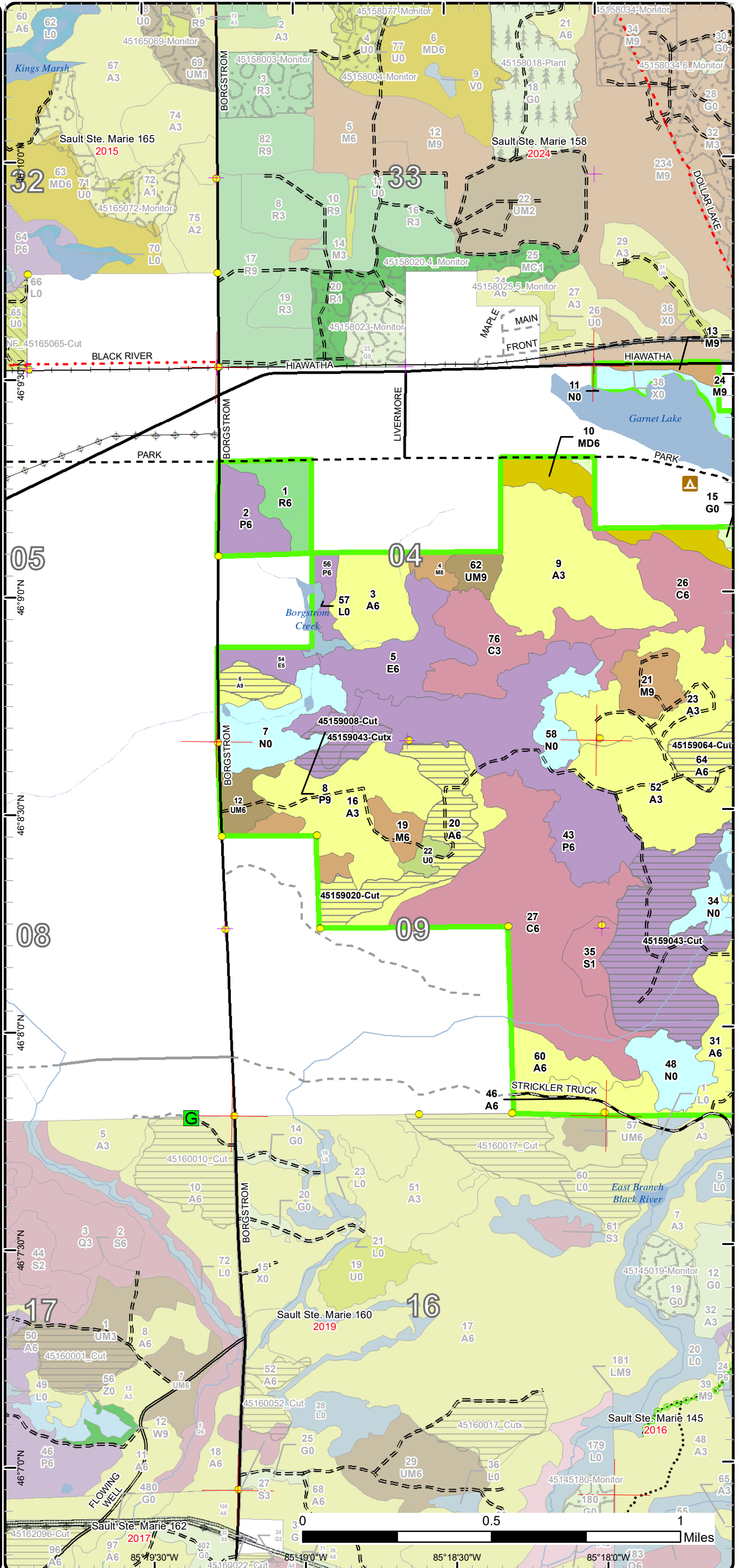
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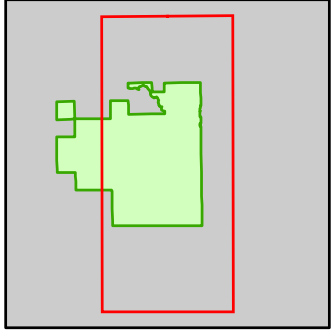
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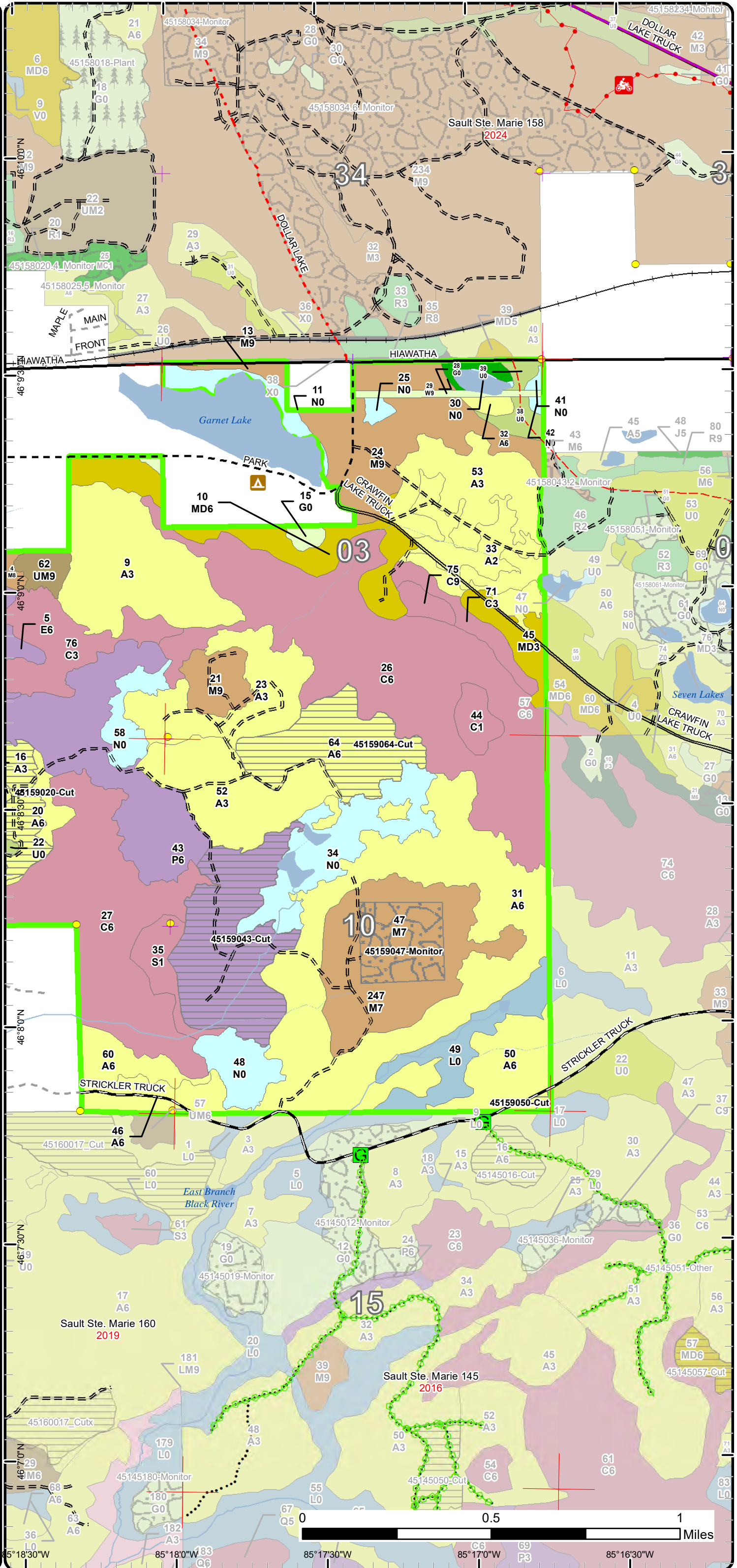
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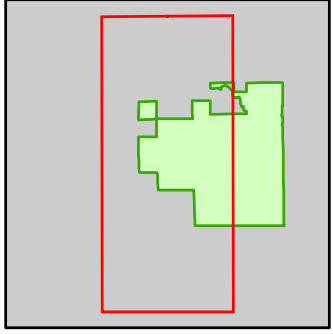


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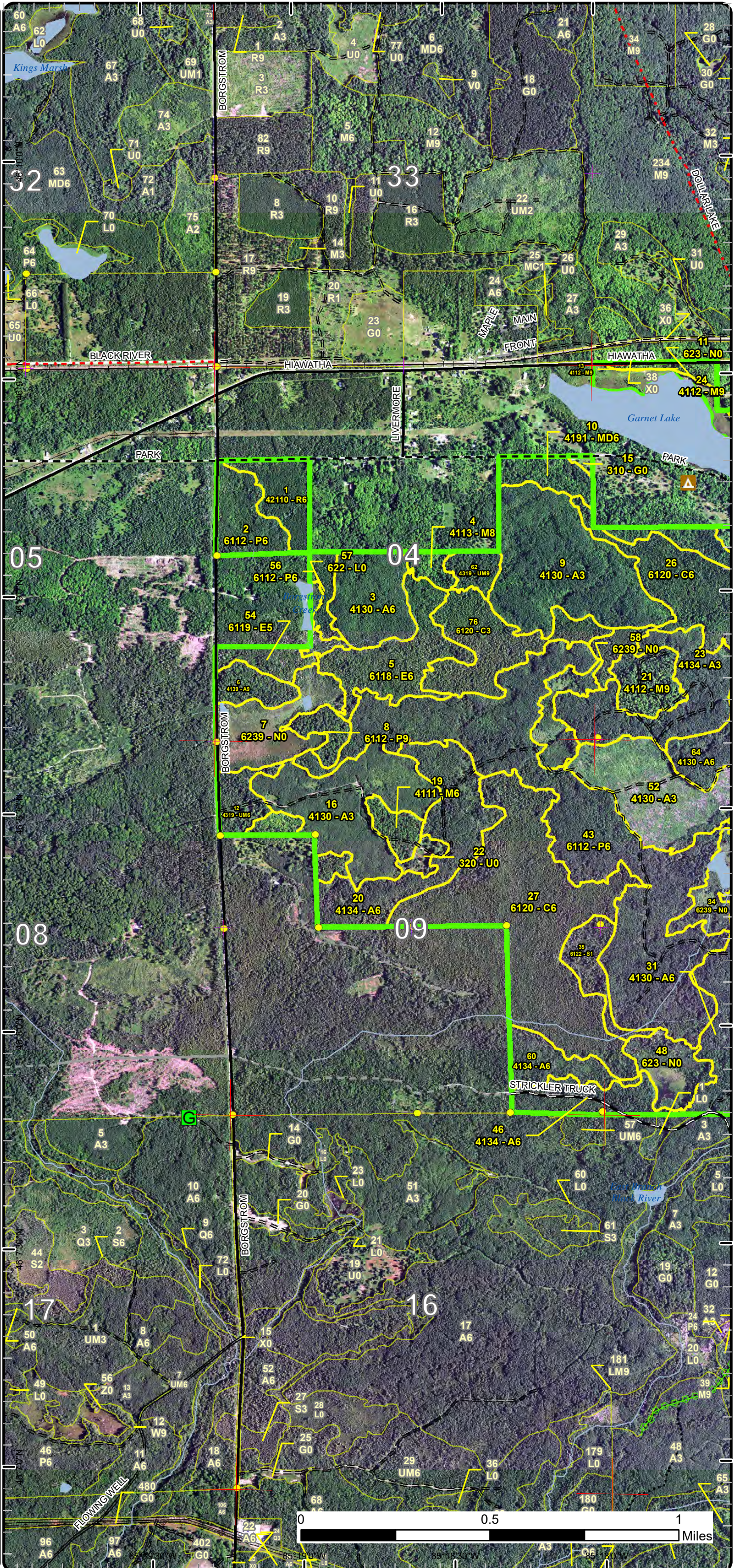


Stand Boundary Map

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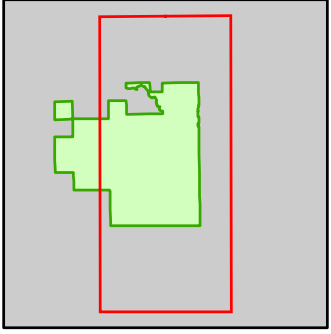


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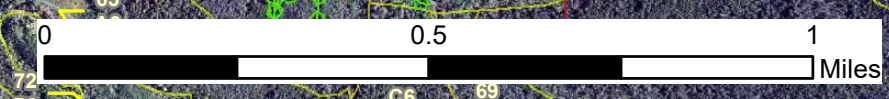
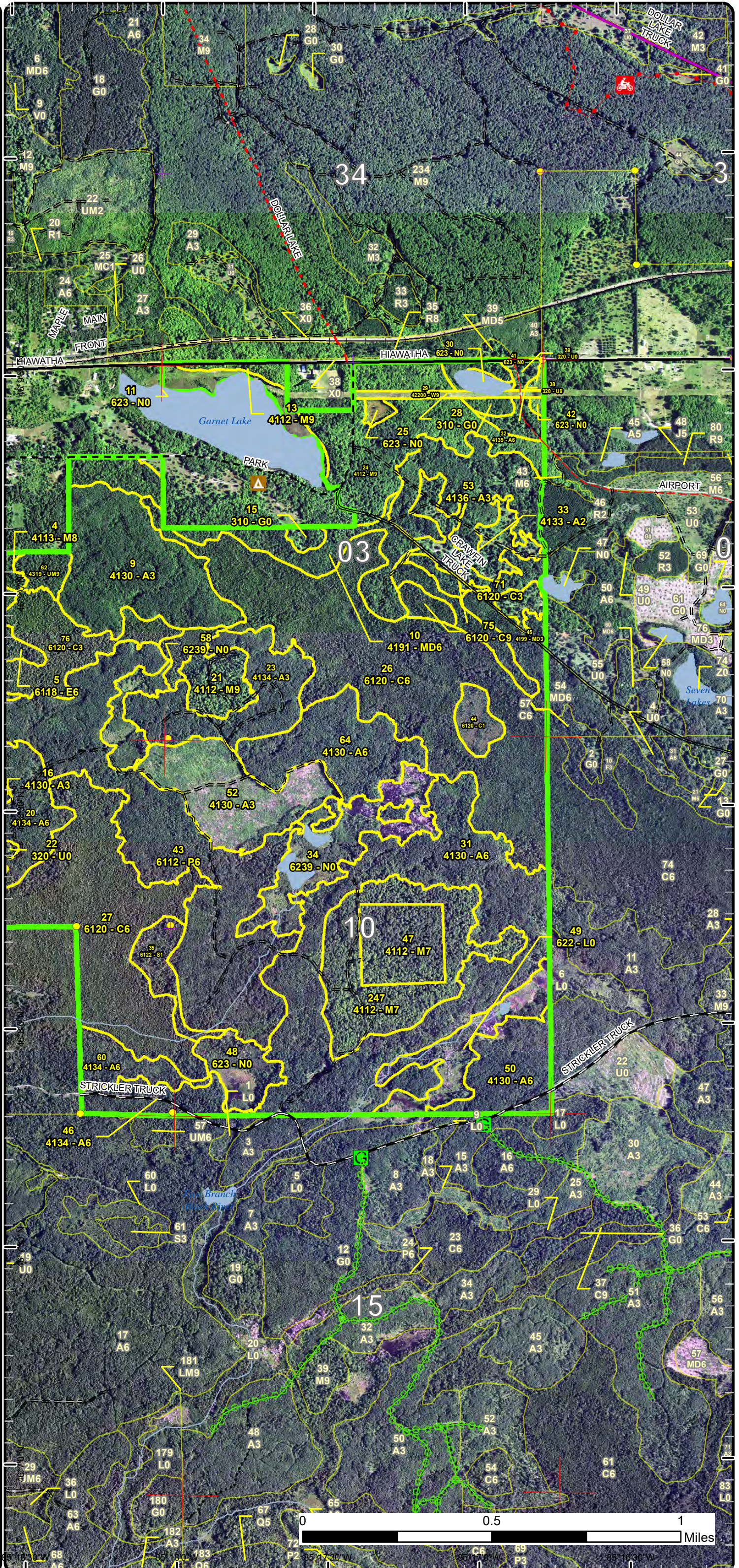


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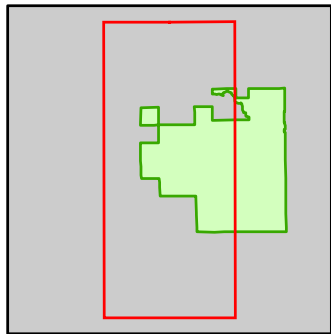


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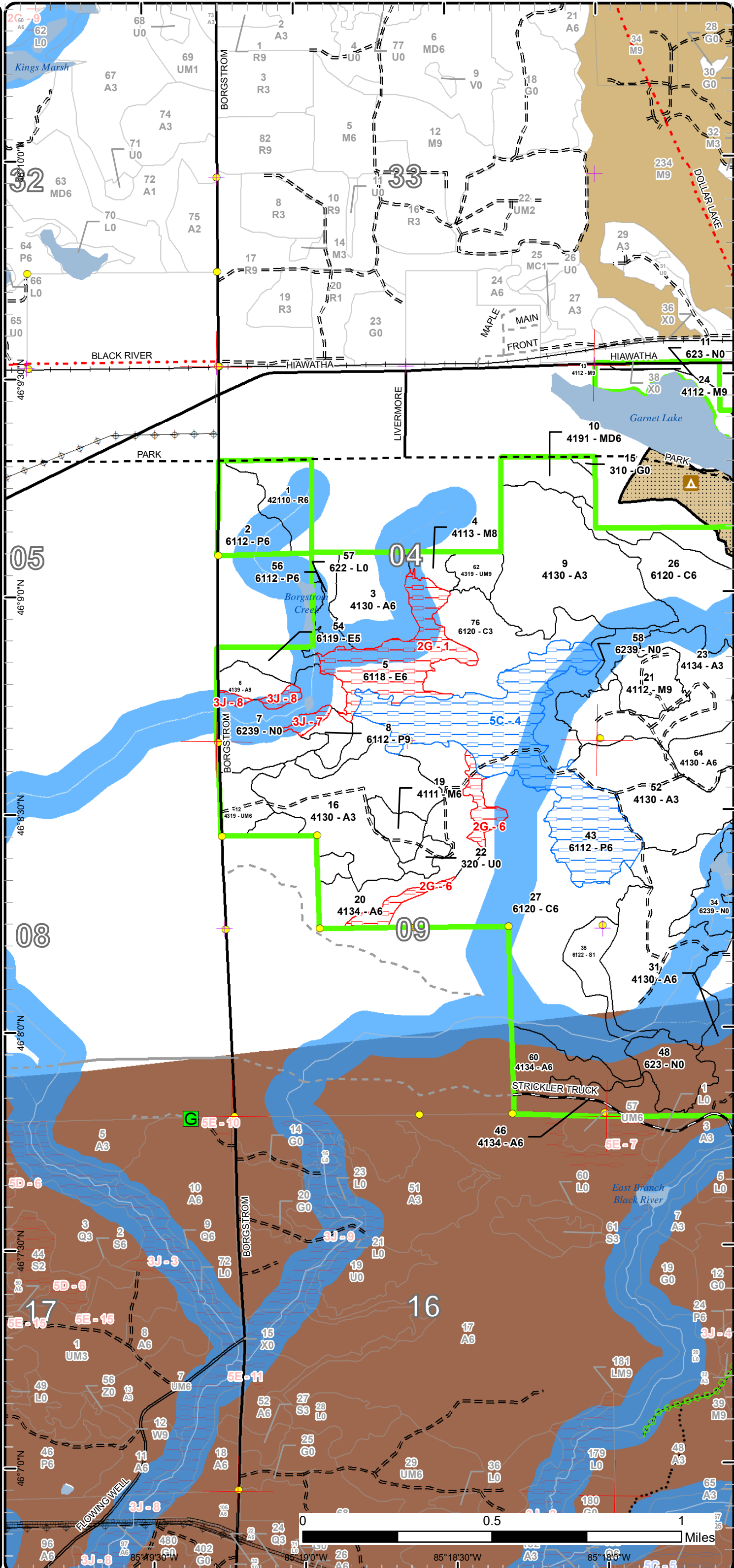


Special Conservation Areas

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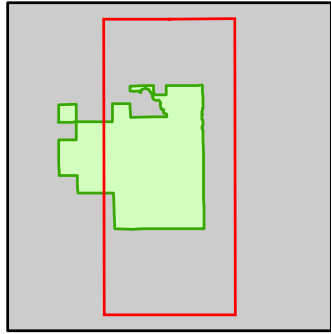


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- State Forest Campground

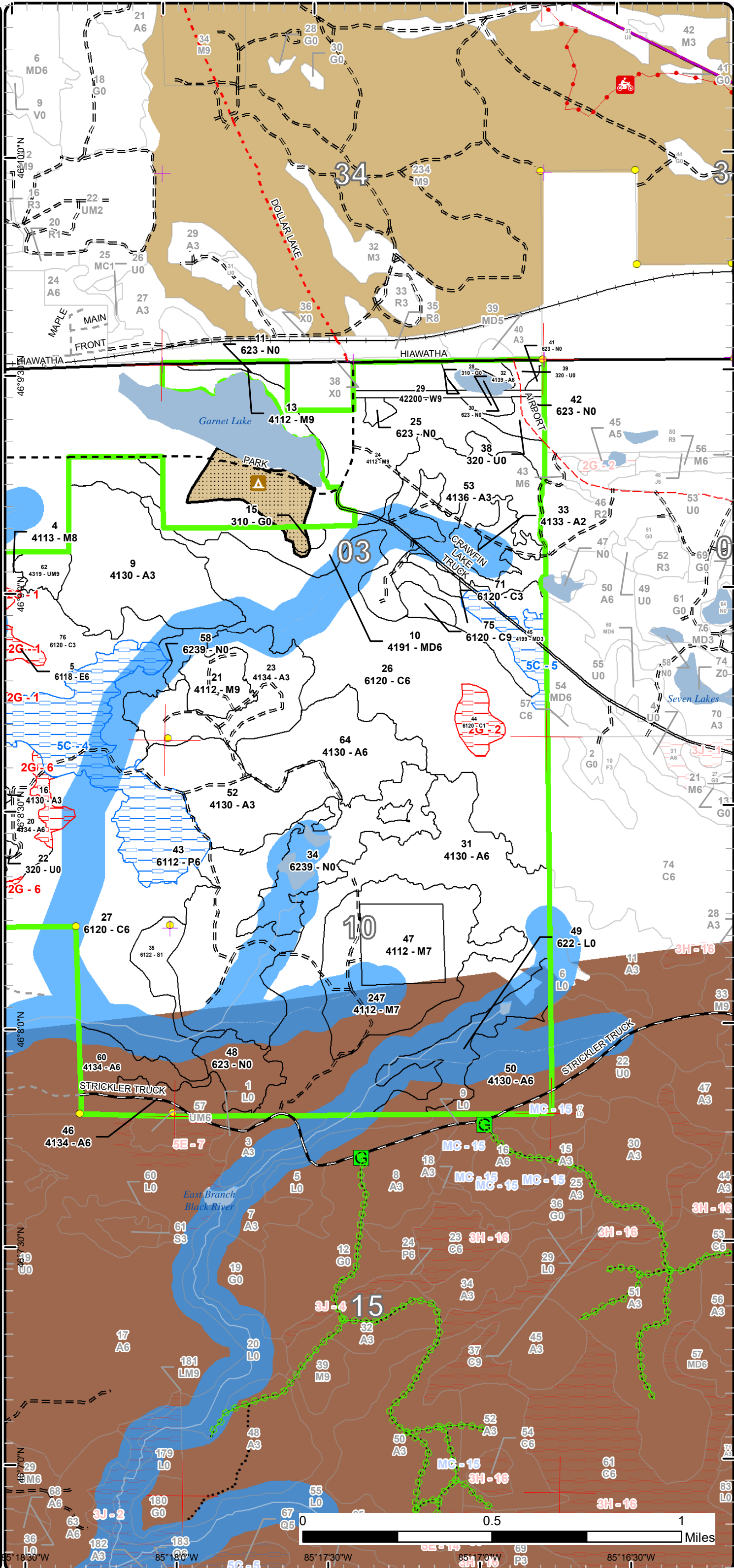


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	54	150	48	76	327	52	0	12	0	0	0	0	0	0	0	0	0	719
Cedar	0	0	0	0	0	0	10	0	13	0	0	6	0	233	122	0	0	0	384
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	0	0	0	0	7	21	177	0	9	0	0	0	0	0	0	0	0	0	214
Lowland Deciduous	0	0	0	0	0	10	37	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Spruce/Fir	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Marsh	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134
Mixed Upland Deciduous	0	0	0	0	16	0	0	44	0	0	0	0	0	0	0	0	0	0	60
Northern Hardwood	0	0	0	0	0	0	0	0	23	87	101	0	0	0	0	0	0	0	211
Red Pine	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Upland Mixed Forest	0	0	0	0	0	0	12	0	8	0	0	0	0	0	0	0	0	0	20
Upland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
White Pine	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Total	195	54	150	67	114	358	288	44	70	87	101	6	0	0	233	122	0	0	1888



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 159
Total Compartment Acres: 1,887

Commercial Harvest - 188
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	99	0	0	0	0	0	0	0	0	99
Lowland Aspen/Balsam Poplar	90	0	0	0	0	0	0	0	0	90
Total	188	0	0	0	0	0	0	0	0	188

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	188	0	0	0	0	0	30	0	0	218
Next Step	0	0	0	0	0	0	188	0	0	188
Total	188	0	0	0	0	0	218	0	0	406



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

6	45159006-Cut	7.8	4139 - Aspen, Mixed Deciduous	Sawtimber Well	72	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all species 4 inches and greater at DBH. No retention due to small size. Buffer any BMP issues where found.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked Aspen, Maple, Fir, Pine</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 /2022</p>											
8	45159008-Cut	6.3	6112 - Lowland Aspen	Sawtimber Well	77	Unspec ified	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all deciduous 2 inches and greater at DBH and all conifer 4 inches and greater at DBH. Do not cut any cedar or hemlock where present. Acreage may change during prep and is ok. This is because of low areas that may not be harvestable. Create some brush piles through normal processing operations where possible, focusing on areas near low conifer cover in adjacent stands, for hare.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked aspen, maple, birch, pine, fir, and spruce.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention is already represented within stream buffer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
20	45159020-Cut	39.1	4134 - Aspen, Spruce/Fir	Poletimber Well	51	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all species 2 inches and greater at dbh. Leave all hemlock where present. Leave 3-10% retention in patch(s) where best suited for species and age class diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked aspen, maple, fir, and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> could use wet areas as 3-10% retention. Retention should be representative of the stand in both species and age class.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
43 45159043-Cut	75.3	6112 - Lowland Aspen	Poletimber Well	58	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all deciduous 2 inches and greater at DBH and all conifer 4 inches and greater at DBH. Do not cut any cedar or hemlock where present. Acreage may change during prep and is ok. This is because of low areas that may not be harvestable. These low areas may also count towards the 3-10% retention, but retention should be representative of the stand in both species and age class. Create some brush piles through normal processing operations where possible, focusing on areas near low conifer cover in adjacent stands, for hare.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> moderate to fully stocked aspen, maple, burch, fir, and pine.</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 /2022</p>										
43 45159043-Cutx	8.1	6112 - Lowland Aspen	Poletimber Well	58	111-140	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all deciduous 2 inches and greater at DBH and all conifer 4 inches and greater at DBH. Do not cut any cedar or hemlock where present. Acreage may change during prep and is ok. This is because of low areas that may not be harvestable. Create some brush piles through normal processing operations where possible, focusing on areas near low conifer cover in adjacent stands, for hare.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked aspen, maple, fir, spruce, and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> No retention due to small size.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
47 45159047-Monitor	29.6	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	98	1-50	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Comments – Monitoring of research results to be done by MSU (MWR research project)</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/15/2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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50	45159050-Cut	2.0	4130 - Aspen	Poletimber Well	43	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 100ft.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Other

Comment: Old next step comments: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Site Condition

Proposed Start Date: 10/1 /2020

64	45159064-Cut	49.8	4130 - Aspen	Poletimber Well	46		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all species 2 inches and greater at dbh except white pine 6 inches and greater. Leave all hemlock and cedar where present. Leave 3-10% retention in patch(s) where best suited for species diversity. Leave some retention patches along stand edge adjacent to young aspen. Retention should include areas representative of the stand, not just wet inclusions in the stand. Leave some cherry. Create some brush piles through normal processing operations where possible, focusing on areas near low cover in adjacent stands, for hare. Acreage may change depending on ground conditions on set up.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Moderate to fully stocked aspen, maple, fir, and white pine

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed: 218

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 159

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions				
Acres	Available	With Condition	Not Available	5C	MC	2G	3J	
717	700	1	16	Aspen		1	12	4
385	375	0	10	Cedar			10	
11	11	0	0	Herbaceous Openland				
214	118	94	3	Lowland Aspen/Balsam Poplar	94			3
47	10	0	37	Lowland Deciduous			37	
34	34	0	0	Lowland Shrub				
15	15	0	0	Lowland Spruce/Fir				
134	134	0	0	Marsh				
60	44	16	0	Mixed Upland Deciduous	16			
211	211	0	0	Northern Hardwood				
19	19	0	0	Red Pine				
21	21	0	0	Upland Mixed Forest				
15	15	0	0	Upland Shrub				
5	5	0	0	White Pine				
1,887	1,712	110	66	Total Forested Acres	109	1	59	7
	91%	6%	3%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 159

Year of Entry: 2023

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	94	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	3L: Other wildlife concerns	5E: Long-Term Retention	Unspecified	Unspecified
Comments: Buffer for trout stream.							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	3L: Other wildlife concerns	5E: Long-Term Retention	Unspecified	Unspecified
Comments: Buffer for trout stream.							



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
Garnet Lake Campground	Concentrated Recreation Area	State Forest Campground	SCA	26
Comments				
day use area				



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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
1	42110 - Planted Red Pine	Poletimber Well	18.6	25	Immature	N/A	Red pine doing pretty good. When this stand is ready for its first release thinning, it will most likely have to be marked since current roads are hard to follow. The survey corner is on east side of 14 inch spruce at the base of the tree.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>95</td> <td>Pole</td> <td>6</td> <td>25</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	5	Pole	5		Red Pine	95	Pole	6	25																																							
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Quaking Aspen	5	Pole	5																																																										
Red Pine	95	Pole	6	25																																																									
2	6112 - Lowland Aspen	Poletimber Well	20.9	43	141-170	N/A	Southern portion of the stand looks alot better then north and west parts.																																																						
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																					
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Bigtooth Aspen	10	Pole/Sapling	5																																																										
3	4130 - Aspen	Poletimber Well	30.5	41	141-170	N/A	Decent aspen stand, some clones seem larger than others.																																																						
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Balsam Fir	10	Pole/Sapling	6																																																										
4	4113 - R.Maple, Conifer	Sawtimber Medium	6.0	74	51-80	N/A	Poor quality maple, adds diversity to the area.																																																						
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Red Maple	60	Log	12	74																																																									
Paper Birch	10	Log	12																																																										
5	6118 - Lowland Deciduous with Cedar	Poletimber Well	36.6	57	81-110	N/A	very wet ground.																																																						
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Quaking Aspen	15	Pole/Sapling	6																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4139 - Aspen, Mixed Deciduous	Sawtimber Well	11.7	72	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		3	Pole	7		Balsam Fir	
Balsam Fir		10	Pole	7		High	
Quaking Aspen		45	Log	12	72	Variable	
Red Maple		30	Log	12		Sapling	
Paper Birch		10	Pole/Log	9			
White Spruce		2	Pole	6			

7	6239 - Mixed Emergent Wetland	Nonstocked	32.6	0		No	
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8	6112 - Lowland Aspen	Sawtimber Well	8.9	77	Unspecified	N/A	Very wet aspen and bam. Look at cutting in ten yrs.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		30	Pole/Log	9		Balsam Fir	
Black Spruce		10	Pole/Log	8		High	
Balsam Fir		10	Pole	7		Variable	
Quaking Aspen		50	Log/Pole	10	77	Sapling	
						Tag Alder	
						Medium	
						Variable	
						Tall Shrub	

9	4130 - Aspen	Sapling Well	75.7	37	171-200	N/A	Nice aspen stand. Not that much balsam or spruce in the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Sapling	4		Balsam Fir	
Red Maple		10	Sapling	4		Low	
Paper Birch		10	Sapling	4		Variable	
White Spruce		5	Sapling	4		Sapling	
Quaking Aspen		70	Sapling	4	37		

10	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	44.2	65	81-110	N/A	Decent, young maple. Heavy conifer component. South East finger has a high Hemlock and Aspen component.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		15	Pole/Sapling	5		Red Maple	
Red Maple		45	Pole/Log/Sap	8	65	Low	
Hemlock		5	Log	13		5 - 10 feet	
Sugar Maple		10	Pole/Sapling	6		Sapling	
White Spruce		20	Pole/Sapling	6		Quaking Aspen	
Paper Birch		5	Pole	6		Medium	
						Variable	
						Sapling	
						Balsam Fir	
						High	
						5 - 10 feet	
						Sapling	

11	623 - Emergent Wetland	Nonstocked	13.4			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 4319 - Mixed Upland Forest Poletimber Well 12.3 53 141-170 N/A Upland mackinac mix stand. look at cutting in 10 yrs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
Black Cherry	5	Sapling/Pole	4					
Balsam Fir	30	Pole/Sapling	5	53				
Red Maple	10	Pole/Sapling	6					
White Spruce	20	Pole/Sapling	5					
Paper Birch	10	Pole/Sapling	6					
Northern White Cedar	5	Sapling/Pole	4					

13 4112 - Maple, Beech, Cherry Association Sawtimber Well 5.6 94 81-110 N/A Buffer along north side of Garnet Lake.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	6		Sugar Maple	Medium	< 5 feet	Sapling
Sugar Maple	65	Log	10	94	Balsam Fir	High	< 5 feet	Sapling
Red Maple	30	Log	10					

15 310 - Herbaceous Openland Nonstocked 4.7 No

16 4130 - Aspen Sapling Well 57.4 18 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	2	
Quaking Aspen	60	Sapling	1	18
Red Maple	15	Sapling	1	
Black Cherry	15	Sapling	1	

19 4111 - S.Maple, Hard Mast Association Poletimber Well 17.1 72 81-110 N/A This stand is made up by three small hardwood patches. Stand was thinned in 2016 (stuck in the Muck Mix 45-108-13).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole	9		Beech	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Sugar Maple	60	Pole	9	72	Sugar Maple	Medium	5 - 10 feet	Sapling
Beech	10	Pole	8		Red Maple	Medium	< 5 feet	Sapling

20 4134 - Aspen, Spruce/Fir Poletimber Well 51.5 51 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Pole	7	51	Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	15	Pole	7					
Balsam Fir	15	Pole/Sapling	6					
White Spruce	10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.0	88	51-80	N/A	Stand was thinned in fall of 2005 (Bluff Charge Hwd 45-111-03). nice regen, look at thinning again in 30 yrs or take the top off.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		25	Log	12		Beech		Medium	< 5 feet	Sapling
Beech		5	Log	12		Balsam Fir		Low	< 5 feet	Sapling
Sugar Maple		70	Log	12	88	Sugar Maple		High	< 5 feet	Sapling
						Red Maple		High	< 5 feet	Sapling

22	320 - Upland Shrub	Nonstocked	4.8			No	
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23	4134 - Aspen, Spruce/Fir	Sapling Well	47.6	26	171-200	N/A	Nice young aspen, stand has some wet areas.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Spruce		10	Sapling	4						
Bigtooth Aspen		10	Sapling	4						
Balsam Fir		10	Sapling	4						
Quaking Aspen		70	Sapling	4	26					

24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	70.0	83	81-110	N/A	Stand was thinned in 2016.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		40	Log/Pole	10	83	Beech		Medium	< 5 feet	Sapling
Paper Birch		10	Log/Pole	10		Sugar Maple		Medium	< 5 feet	Sapling
Red Maple		30	Log/Pole	10		Balsam Fir		Full	Variable	Sapling
Hemlock		5	Log	12						
Yellow Birch		5	Log	10						
Beech		10	Log	12						

25	623 - Emergent Wetland	Nonstocked	2.7			No	
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26	6120 - Lowland Cedar	Poletimber Well	194.4	134	171-200	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		10	Pole/Sapling	5		Balsam Fir		High	Variable	Sapling
Black Spruce		5	Pole/Sapling	5						
Northern White Cedar		80	Pole/Sap/Log	6	134					
Paper Birch		5	Pole/Sapling	5						

27	6120 - Lowland Cedar	Poletimber Well	122.3	141		N/A	Nicer cedar stand, pretty open understory in places.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		90	Pole	7	141	Tag Alder		Low	Variable	Tall Shrub
Paper Birch		3	Pole	5		Balsam Fir		Medium	Variable	Sapling
Red Maple		2	Pole	7						
Balsam Fir		5	Pole	5						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28 310 - Herbaceous Openland Nonstocked 5.9 No

29 42200 - Natural White Pine Sawtimber Well 4.9 76 111-140 N/A Small stand that provides cover and erosion control for wetland.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log	11	
Quaking Aspen	5	Pole/Log	9	
White Pine	85	Log	14	76

30 623 - Emergent Wetland Nonstocked 3.4 No

31 4130 - Aspen Poletimber Well 166.1 46 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	6	
Quaking Aspen	60	Pole	7	46
Bigtooth Aspen	15	Pole	6	
Paper Birch	10	Pole	7	
White Spruce	5	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling

32 4139 - Aspen, Mixed Deciduous Poletimber Well 3.4 47 81-110 N/A Nice aspen/maple stand. look at cutting in 10 to 20 years.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole	6	
Paper Birch	10	Pole	6	
Quaking Aspen	40	Pole/Sapling	7	47
Red Maple	45	Pole	7	47

33 4133 - Aspen, Mixed Pine Sapling Medium 31.7 19 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Pole/Sapling	6	
White Spruce	5	Pole/Sapling	6	
Black Cherry	5	Pole/Sapling	5	
Quaking Aspen	55	Sapling/Pole	3	19
Jack Pine	15	Pole/Sapling	6	
Red Pine	10	Pole/Sapling	6	

34 6239 - Mixed Emergent Wetland Nonstocked 46.8 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
35	6122 - Black Spruce	Sapling Poor	14.8	36	51-80	N/A																															
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38	320 - Upland Shrub	Nonstocked	6.8		Unspecified	No																															
39	320 - Upland Shrub	Nonstocked	3.6			No	Almost an aspen stand. The stand does not have enough canopy closure to be forested.																														
41	623 - Emergent Wetland	Nonstocked	1.2			No																															
42	623 - Emergent Wetland	Nonstocked	1.0			No																															
43	6112 - Lowland Aspen	Poletimber Well	177.0	58	111-140	N/A																															
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44	6120 - Lowland Cedar	Sapling Poor	10.2	56	1-50	N/A	good spruce and cedar regen that is 3 feet or less.																														
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45	4199 - Other Mixed Upland Deciduous	Sapling Well	15.5	37	141-170	N/A	Red maple is out competing everything. Stand was cut in 1985 to promote more aspen.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
46	4134 - Aspen, Spruce/Fir	Poletimber Well	21.0	47	111-140	N/A	Nice aspen stand, almost a pole stand.																																					
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47	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	29.5	98	1-50	N/A	Cut as MWR in 2017. Rocket Maple MWR 45-107-17-01.																																					
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48	623 - Emergent Wetland	Nonstocked	19.0			No																																						
49	622 - Lowland Shrub	Nonstocked	30.2			No																																						
50	4130 - Aspen	Poletimber Well	34.8	43	141-170	N/A	Stand already being treated with aspen in 45145 in 2021 YOE.																																					
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52	4130 - Aspen	Sapling Well	53.9	6	Immature	N/A	Stand was cut in 2016.																																					
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53	4136 - Aspen, Mixed Conifer	Sapling Well	60.5	19	81-110	N/A																																																
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54	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	10.3	46	111-140	N/A																																																
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56	6112 - Lowland Aspen	Poletimber Well	7.4	33	111-140	N/A	Stand is variable. The lower ground areas are slightly smaller with less density. While the slightly more upland areas are looking great with higher density and slightly larger dbh. There is currently not enough difference to make separate stands.																																															
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57	622 - Lowland Shrub	Nonstocked	4.3			No	Lots of tag alder																																															
58	6239 - Mixed Emergent Wetland	Nonstocked	13.8		Immature	No	Tag alder swamp.																																															
60	4134 - Aspen, Spruce/Fir	Poletimber Well	17.2	47	81-110	N/A	Nice aspen stand, almost a pole stand.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
62	4319 - Mixed Upland Forest	Sawtimber Well	8.3	76	81-110	N/A	This is a nice stand of larger timber that adds a good diversity within the area and should be held for at least one more cycle.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		40	Log	12	76			
White Spruce		20	Log/Pole	12				
Northern White Cedar		30	Log/Pole	10				
Paper Birch		10	Log/Pole	10				
64	4130 - Aspen	Poletimber Well	53.9	46		N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Balsam Fir		10	Pole/Sapling	6				
Quaking Aspen		60	Pole	7	46			
Bigtooth Aspen		15	Pole	6				
Paper Birch		10	Pole	7				
White Spruce		5	Pole	5				
		Sub-Canopy Species	Density	Avg. Height	Size			
		Balsam Fir	Medium	Variable	Sapling			
71	6120 - Lowland Cedar	Sapling Well	13.4	71	201+	N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Black Spruce		20	Sapling	3				
Balsam Fir		10	Sapling	3				
Northern White Cedar		70	Sapling	3	71			
		Sub-Canopy Species	Density	Avg. Height	Size			
		Balsam Fir	High	Variable	Sapling			
75	6120 - Lowland Cedar	Sawtimber Well	6.3	109	171-200	N/A	Nice ceader stand. Cores sampled suggest good open growing for first 60 years then growth rings shrink suggesting fully closed canopy.	
Canopy Species		% Cover	Size Class	DBH	Age			
Paper Birch		5	Pole/Sapling	5				
Black Spruce		5	Pole/Sapling	5				
Red Maple		5	Pole/Log	8				
Northern White Cedar		75	Log/Pole	10	109			
Balsam Fir		10	Pole/Sapling	5				
		Sub-Canopy Species	Density	Avg. Height	Size			
		Balsam Fir	High	Variable	Sapling			
76	6120 - Lowland Cedar	Sapling Well	38.6	134		N/A	Wet cedar stand, has a ridge of red maple in it.	
Canopy Species		% Cover	Size Class	DBH	Age			
Paper Birch		5	Pole/Sapling	5				
Red Maple		5	Pole/Sapling	5				
Northern White Cedar		75	Sapling	4	134			
Black Spruce		5	Pole/Sapling	5				
Balsam Fir		10	Pole/Sapling	5				
		Sub-Canopy Species	Density	Avg. Height	Size			
		Balsam Fir	High	Variable	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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247 4112 - Maple, Beech, Cherry Association Sawtimber Poor 65.7 98 81-110 N/A

This stand was thinned in 2005 (Bluff Charge Hwd 45-111-03). stand is still about 90 BA.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75	Log	12	98
White Pine	5	Log/XLog	16	
Beech	5	Log	12	
Red Maple	15	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	< 5 feet	Sapling
Sugar Maple	High	< 5 feet	Sapling
Beech	Medium	< 5 feet	Sapling