



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45121

Entry Year 2023

Acreage: 1,878

County Mackinac

Management Area: Mackinac Mix

Stand Examiner: Kenny Fanelli

Legal Description:

T43N R7W SECTIONS 26, 35, 36

Identified Planning Goals:

This compartment contains some upland sandy areas among large areas of lowland, consisting mostly of cedar, spruce, fir, and lowland brush. The upland areas of this compartment consist primarily of aspen, red pine, and grassy openings. Some hardwood extends into the compartment from a large stand to the south. Treatments this entry will include harvesting of mature aspen along Hiawatha trail and thinning the small red pine plantations.

Soil and topography:

Lowland areas consist of mostly Markey-Carbondale muck. The wettest areas are aquents and histosols, ponded. Upland areas of this compartment consist of Wallace sands (0-6%) slope, Paquin-Finch sands (0-6%) slope, and small pockets of Pullup fine sands (6-15%) slope. Compartment terrain is flat to gently rolling areas consisting of low wetland types and sandy ridges and upland ground moraine.

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

This compartment has two 40-acre parcels within the compartment boundary. These parcels are located in the center and north of Section 26. The remainder of the compartment is state ownership. There is one private 40-acre parcel bordering the compartment in the south.

Unique Natural Features:

Potential for Osprey, Eagle, Merlin, and Great Blue Heron Rookery. Potential for wood turtle in Paquin Creek. Potential for threatened and special concern plants in the cedar swamps. Poor Fen records to the east. Potential for Poor Fen in Section 36.

Archeological, Historical, and Cultural Features:

No evidence of any features in the compartment.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains Paquin Creek and the Cut River. Paquin Creek is a designated trout stream less than 50' width. A 300' buffer is recommended for Paquin 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. The Cut River is a non-designated cold stream less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended to protect riparian areas of the Cut River in accordance with Best Management Practices. All cuttings should be designed to convert the stream corridor to coniferous trees.

Wildlife Habitat Considerations:

This compartment is part of the Mackinac Mix Management Area where featured wildlife species include black bear, pileated woodpecker, ruffed grouse, snowshoe hare, and white-tailed deer. The southwestern side of the compartment contains a mix of aspen, northern hardwoods, and planted red pine stands. Uplands transition to wetlands to the north and east, resulting in cedar swamp on both ends. Paquin Creek flows through the northern part of the compartment, while the Cut River is located on the east end. Aspen stands range in age from younger regeneration to mature stands and benefit grouse, deer, and hare. Hardwoods have been managed to produce multiple age classes. However, beech bark disease caused high mortality to beech.

Wildlife objectives include maintaining early successional habitat, cover and food sources for deer, bear, hare, and other species, and diversity of species and age classes that will benefit a variety of species including bear and woodpeckers. Aspen stands will continue to be managed for age class diversity that will benefit ruffed grouse. Retention patches in

treated aspen stands will be placed to benefit grouse and woodpeckers. Most of the compartment is in deer wintering complex. Closed canopy cover, particularly cedar, will be retained to provide wintering cover while young deciduous trees will offer food sources.

Mineral Resource and Development Concerns and/or Restrictions

Sections 23, 26, & 35-36, T43N-R7W, Mackinac County

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. An industrial sand mine is less than three miles to the southeast. There may be potential for additional industrial grade sand within the compartment. Engadine dolomite underlies glacial drift and lacustrine sediments here but appears to be too deep to have economic value. Wetlands, a shallow water table, and road access all limit potential for surface mining within the compartment. The State does not own all the mineral rights within the compartment and may or may not own the rights to the non-metallic minerals depending on deed language. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access into this compartment is limited. Hiawatha Trail runs North/South along the West boundary of the compartment. Hiawatha Trail is a paved county road (all season Rd.). Prout Road runs East/West and represents the Southern boundary of the compartment. Prout Road is DNR maintained and is classified as a good quality dirt road. There are two timber bridges spanning North branches of the Cut River along Prout Road. These bridges are rated for logging/truck traffic. During the winter a portion of Prout road is part of groomed snowmobile trail system. The interior of the compartment is only accessible by two main two-tracks originating from Hiawatha Trail. Any new roads created during treatments will be closed following use.

Survey Needs:

None needed this entry period.

Recreational Facilities and Opportunities:

Hunting is the dominant recreational activity in this compartment. Habitat provides for excellent deer, grouse, and small game hunting. A Snowmobile trail runs along the southern boundary of the compartment (Prout Road).

Fire Protection:

There is potential for fire activity in this compartment. The areas of pine and grassy openings are at most risk. Besides natural ignition sources (i.e., lightning), heavy recreational use during hunting seasons present possible ignition sources. Fires in these sandy soils would not present any extraordinary mop-up problems. There is good access into the pine and grassy areas via two-track. Paquin Creek and Cut River are readily available water sources. Any fires occurring in the remaining lowland areas of this compartment would be less intense, but would present difficult suppression and mop-up conditions due to lack of accessibility, equipment limitations and deeper burning in the heavy muck soils.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

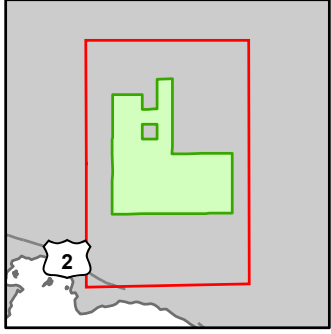
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

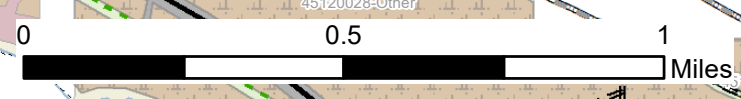
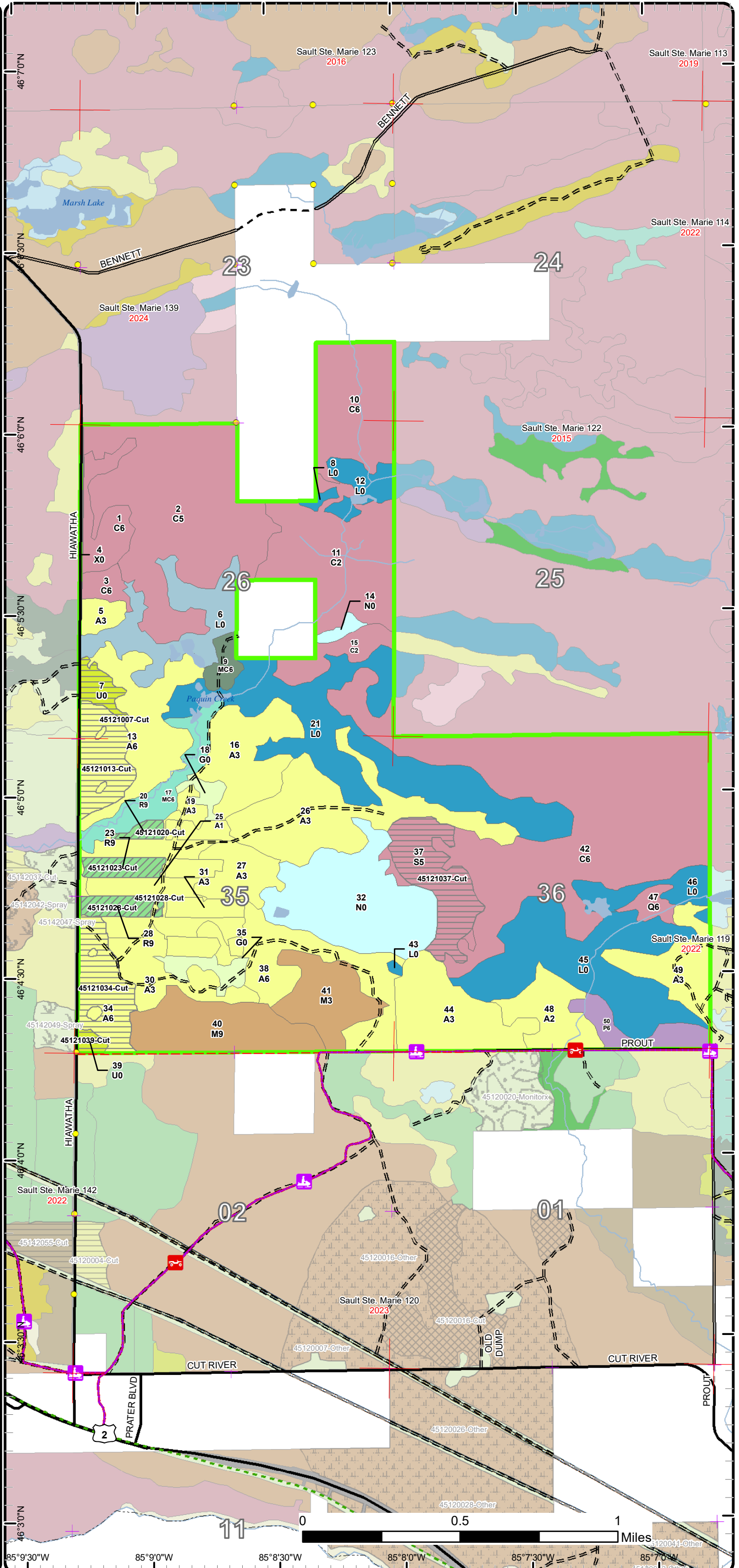
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 121
 T43N,R07W, Sec. 23, 26, 35, 36
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Mackinac Mix
 YOE: 2023
 Acres: 1877.5 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/28/2022
 Map Phase: Post Review



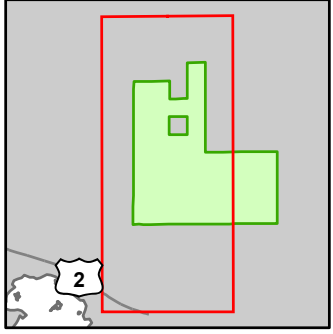
- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - County - Dirt Road (Seasonal)
- - Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
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- Lake/Pond
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- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland



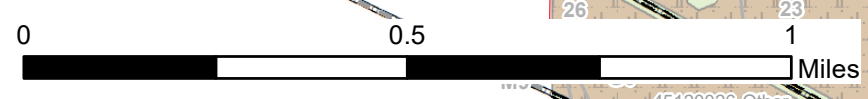
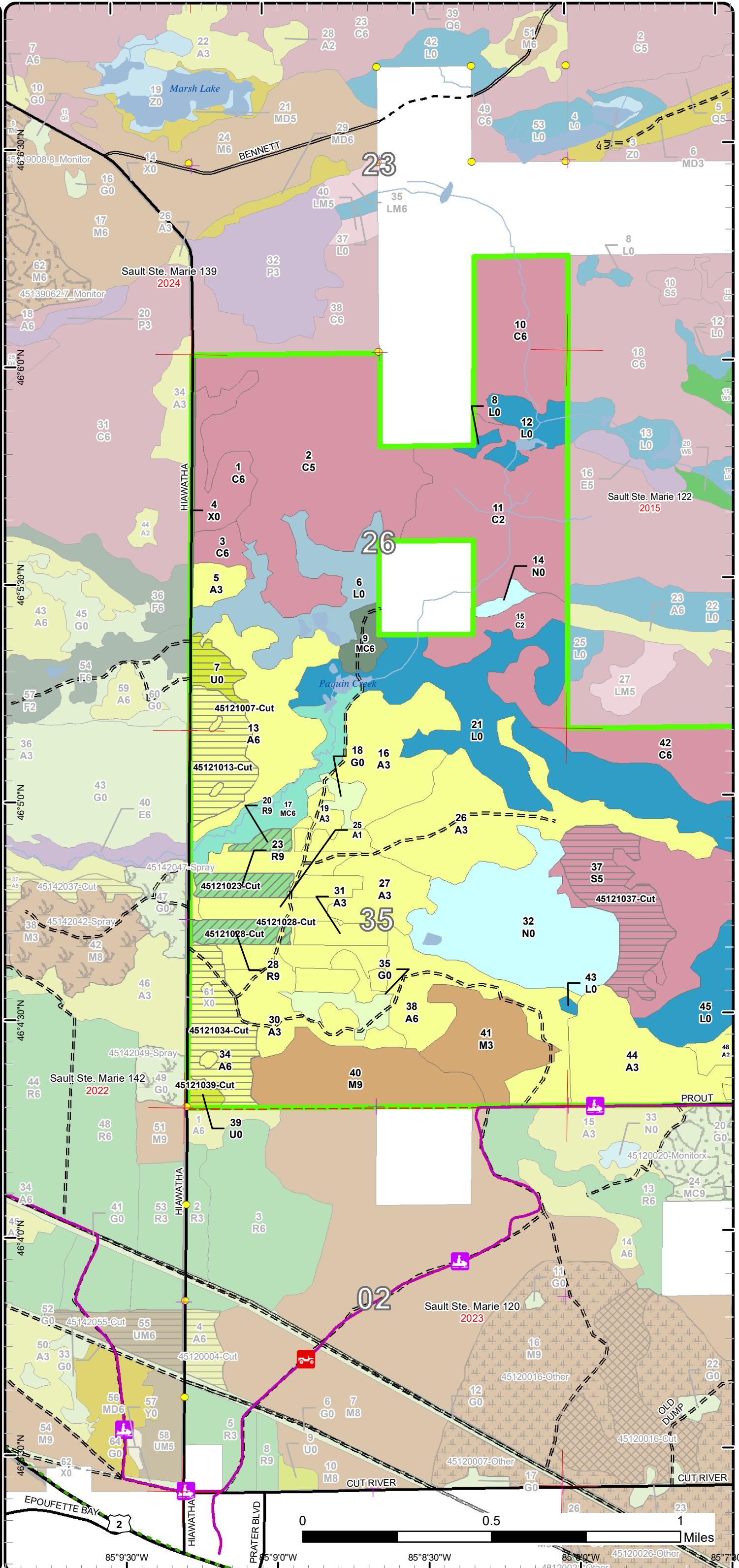
85°9'30"W 85°9'0"W 85°8'30"W 85°8'0"W 85°7'30"W 85°7'0"W

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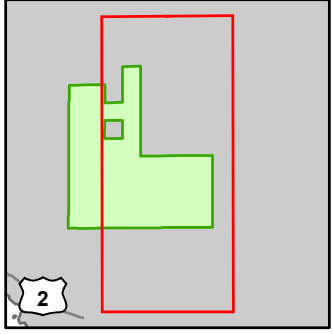
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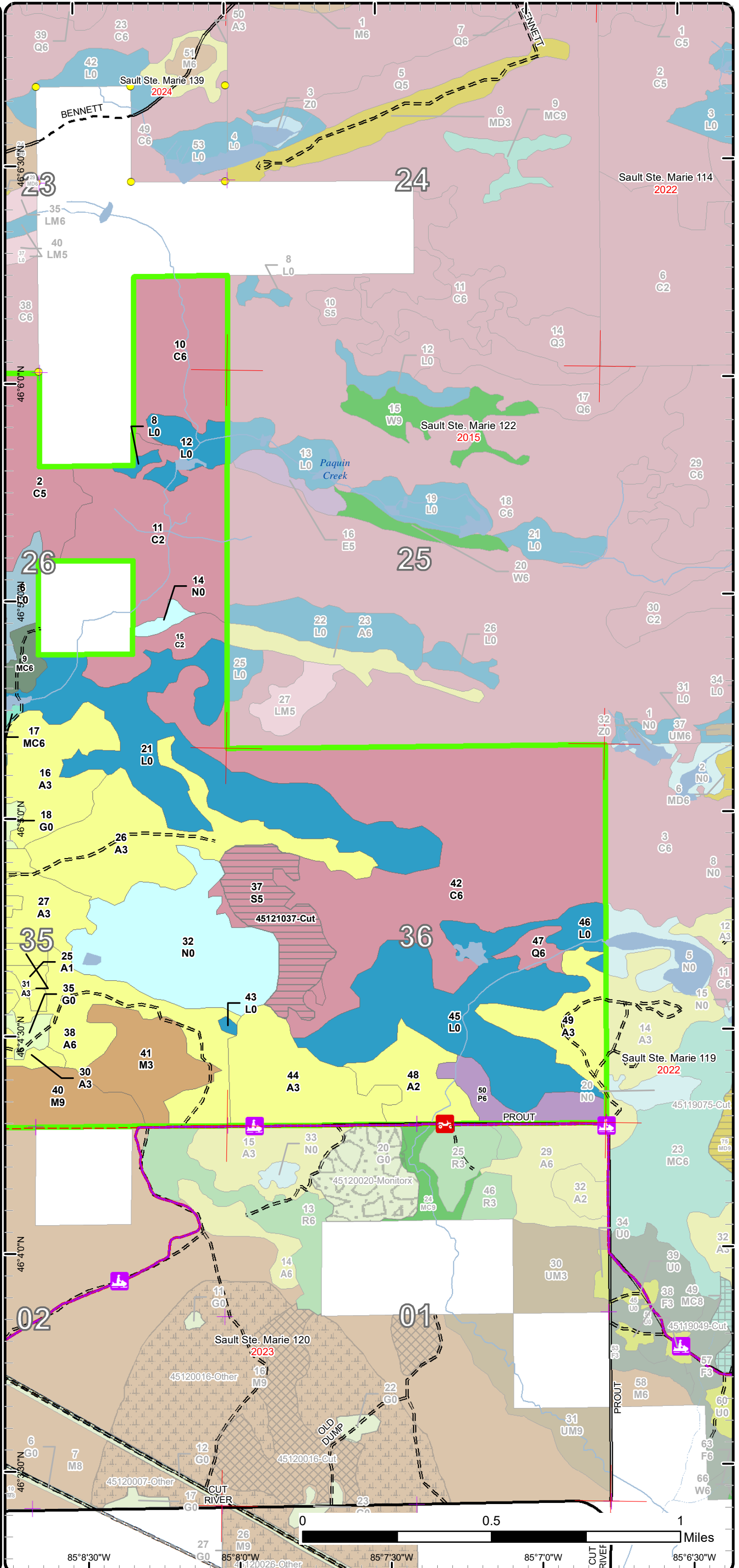
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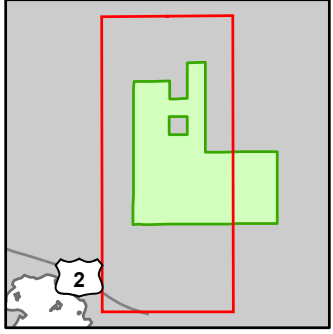


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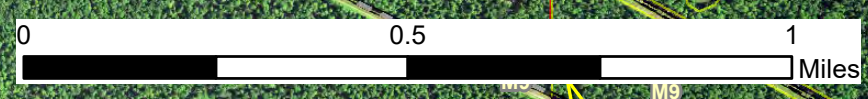
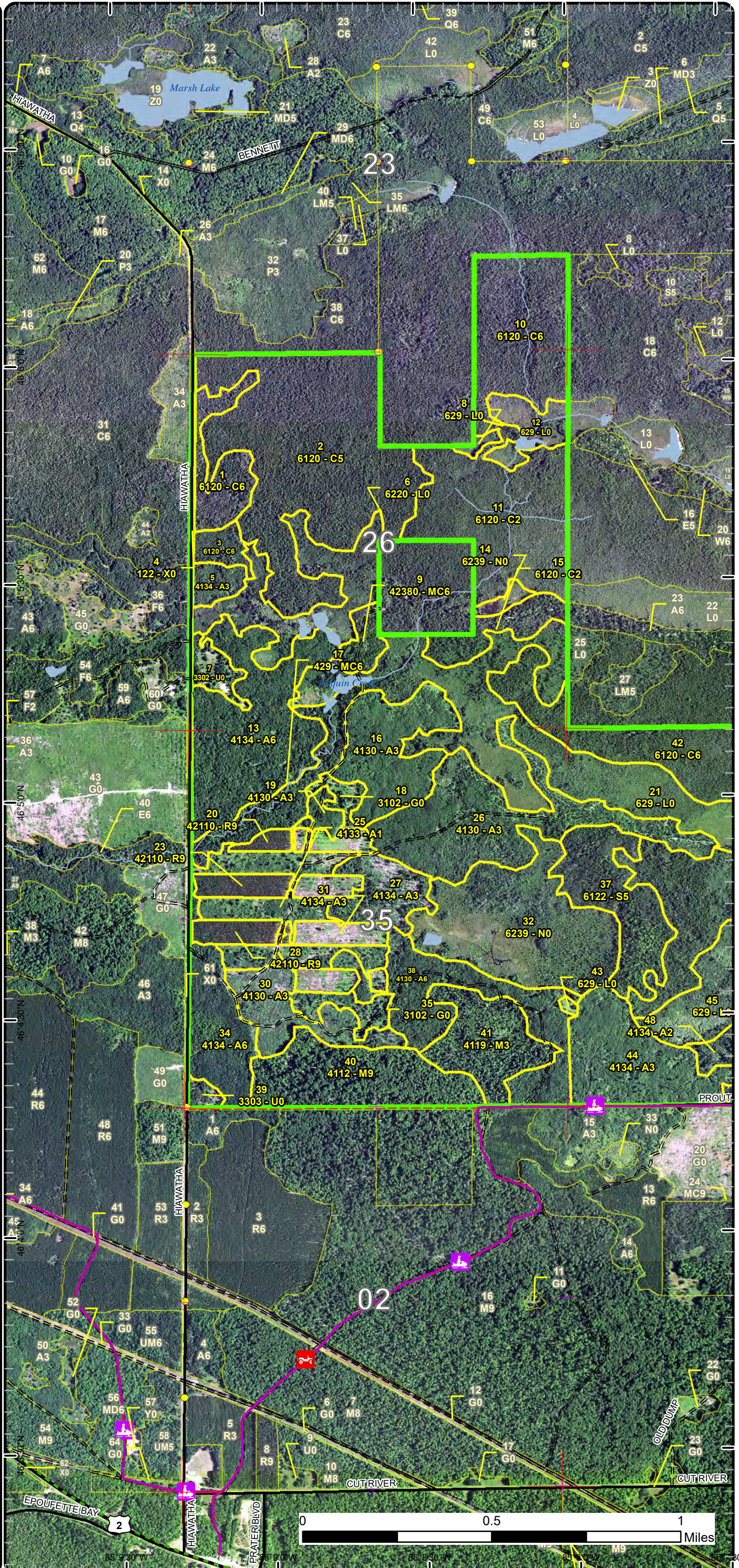


Stand Boundary Map

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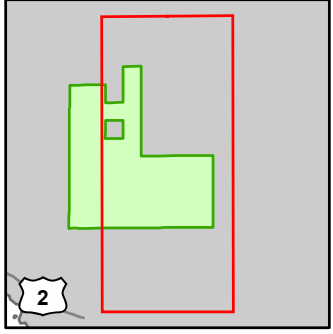


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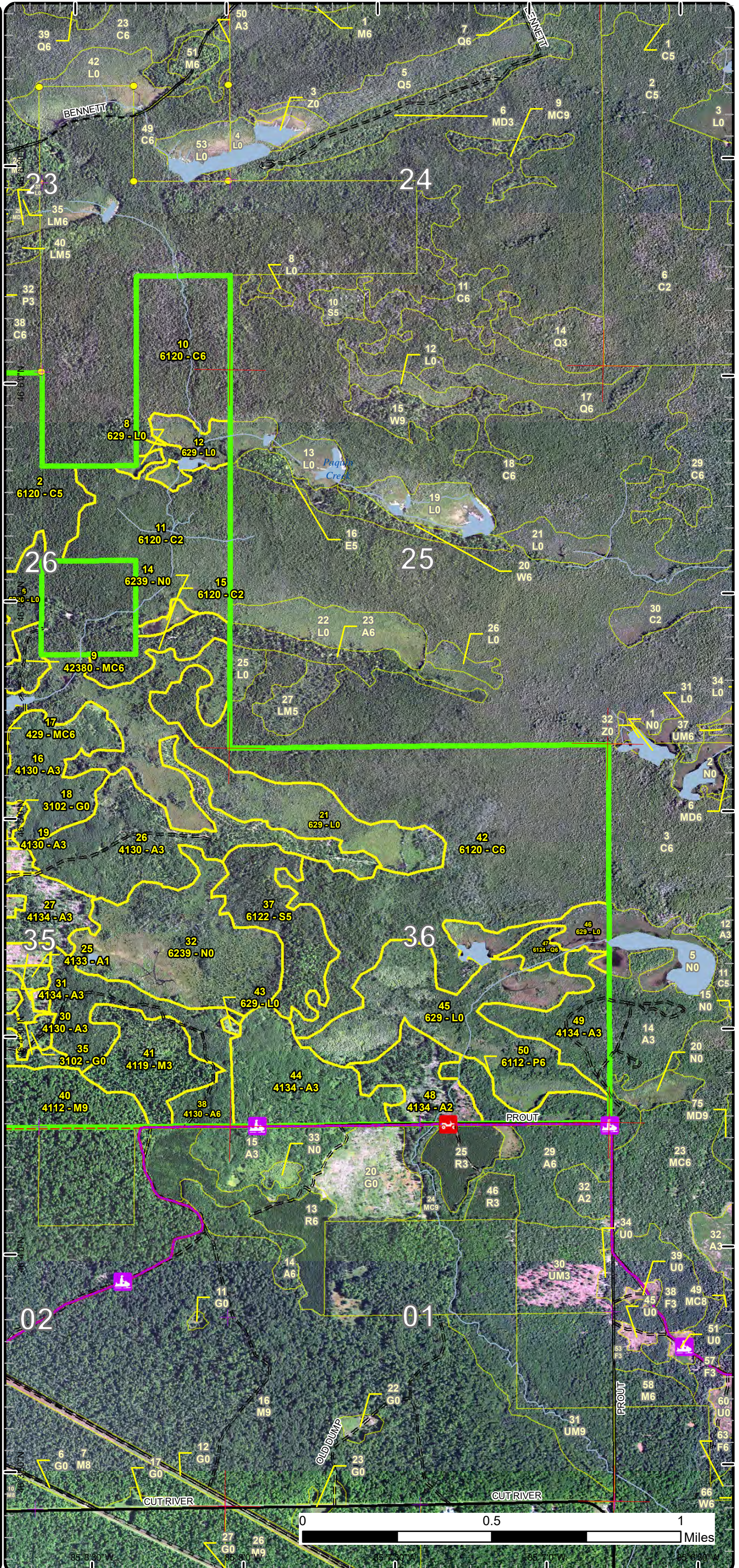


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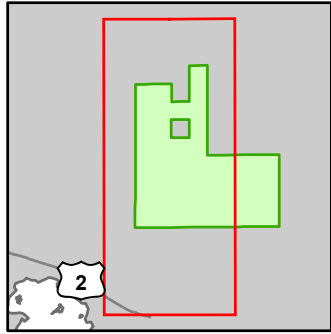


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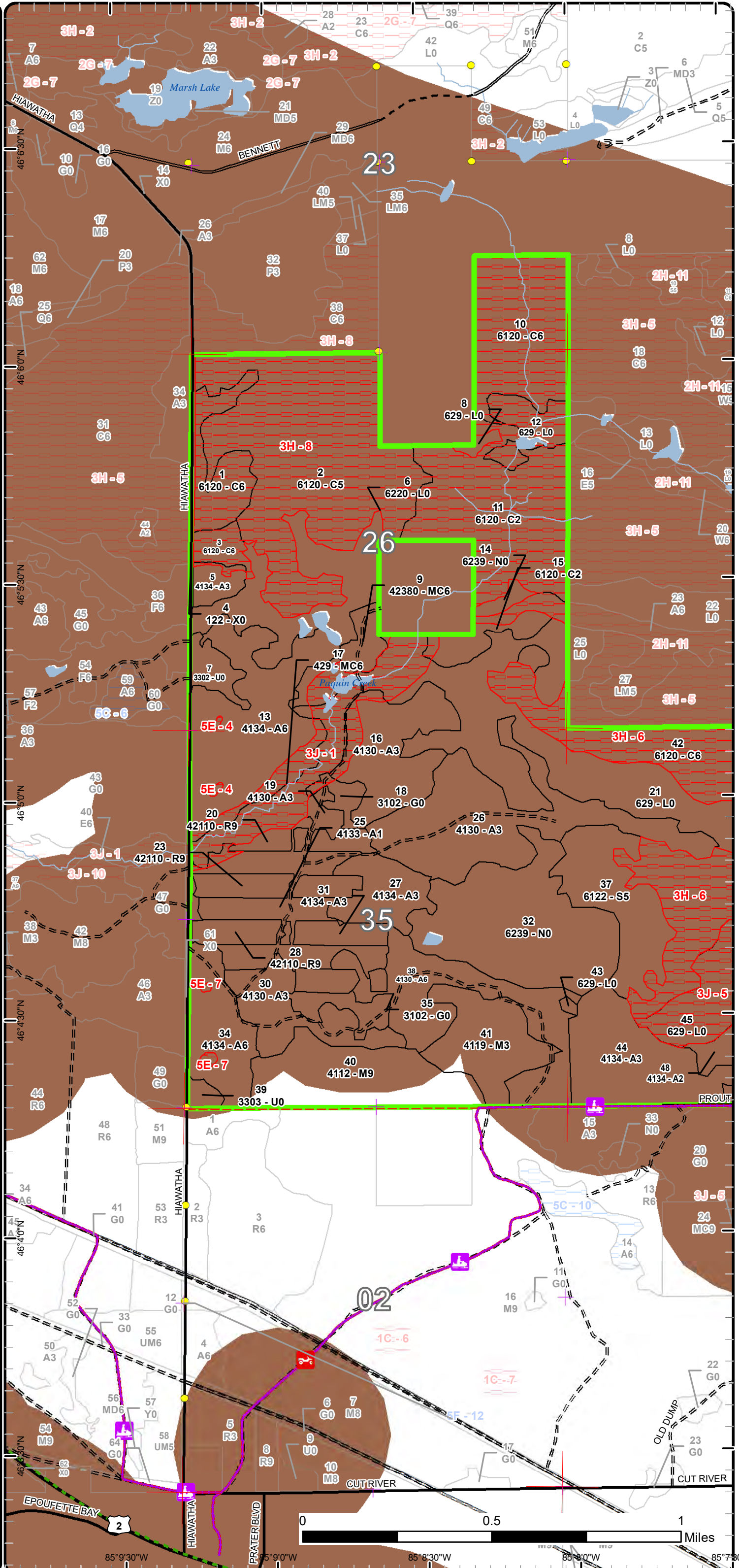


Special Conservation Areas

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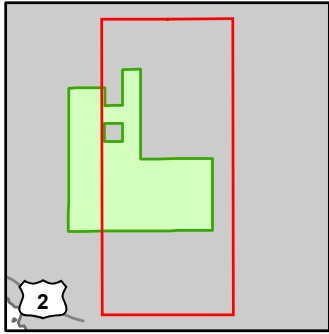


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- Pipeline
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range

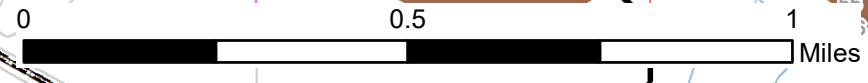
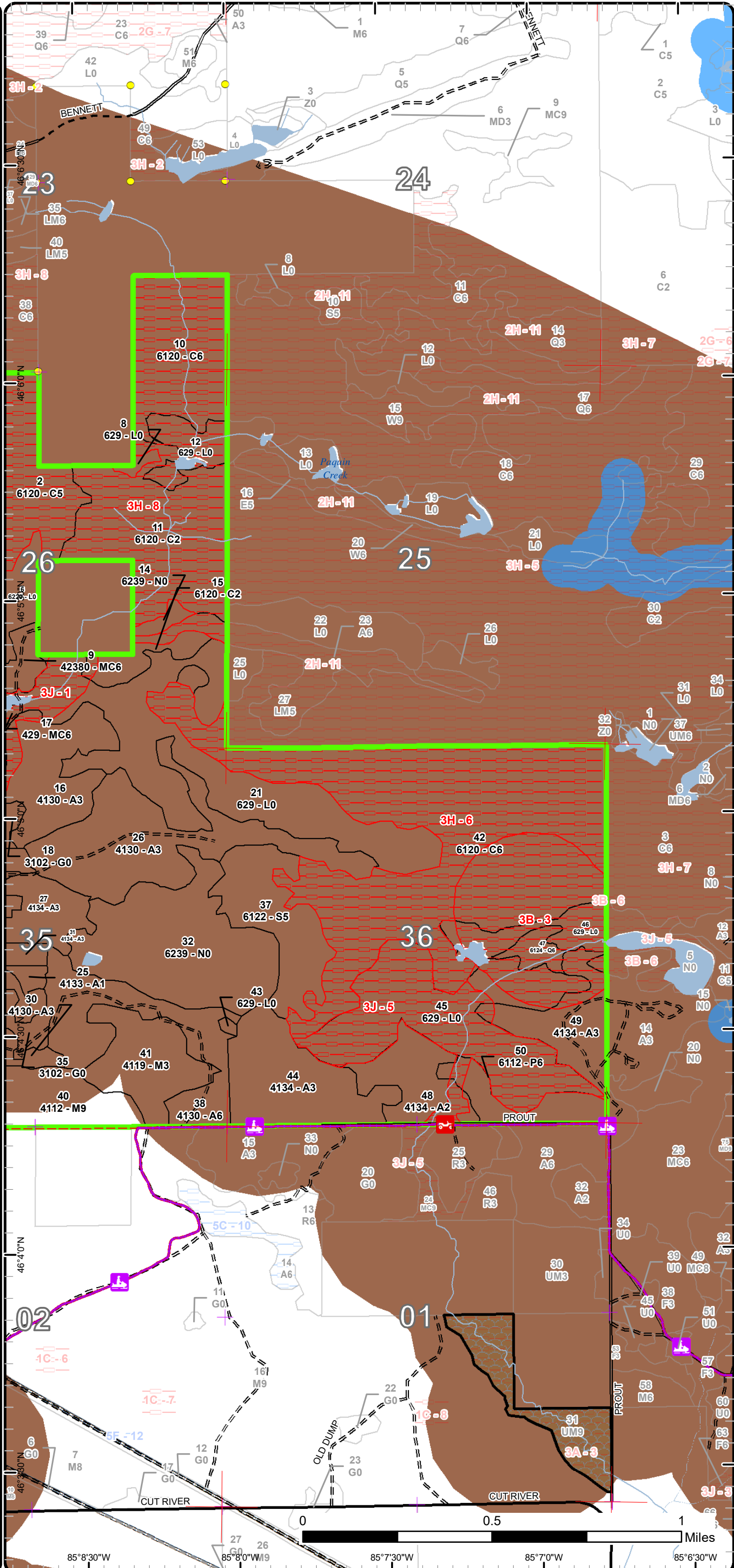


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- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA Removal
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Possible Type 1 Old Growth



85°8'30"W 85°8'0"W 85°7'30"W 85°7'0"W 85°6'30"W

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	118	148	96	176	37	0	0	0	0	0	0	0	0	0	0	0	0	575
Cedar	0	0	0	0	0	0	0	0	0	285	86	0	253	0	0	0	0	0	623
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	317	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	317
Lowland Spruce/Fir	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	46
Marsh	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Northern Hardwood	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	95
Red Pine	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	25
Upland Conifers	0	0	0	0	0	29	0	9	0	0	0	0	0	0	0	0	0	0	37
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	447	118	187	96	204	66	46	34	0	285	86	0	253	0	0	0	0	56	1876



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 121
Total Compartment Acres: 1,878

Commercial Harvest - 145
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	64	0	0	0	0	0	0	0	0	64
Low-Density Trees	13	0	0	0	0	0	0	0	0	13
Lowland Spruce/Fir	43	0	0	0	0	0	0	0	0	43
Red Pine	0	0	0	0	25	0	0	0	0	25
Total	120	0	0	0	25	0	0	0	0	145

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	145	0	0	0	0	0	0	0	0	145
Next Step	0	0	0	0	0	120	0	0	0	120
Total	145	0	0	0	0	120	0	0	0	265



Stand	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:

7	45121007-Cut	9.5	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Clear cut all species 2" and up. Winter cut only for deer yard. This is for opening maintenance and therefore there will be no retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> None. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											

13	45121013-Cut	29.5	4134 - Aspen, Spruce/Fir	Poletimber Well	36	111-140	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all deciduous species to 2" and all conifer species to 4". Retain 3-10% of the stand in pockets. Winter harvest only for the deer yard. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked aspen, spruce, and fir. <u>Regen:</u> <u>Other</u> The west half of stand 13 will be harvested this YOY and the east half will be harvested next. <u>Comment:</u> Consider reducing deer yard restrictions due to the stand being along a paved road. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											

20	45121020-Cut	4.4	42110 - Planted Red Pine	Sawtimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine to 120 BA. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <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
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23	45121023-Cut	10.2	42110 - Planted Red Pine	Sawtimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine to 120 BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

28	45121028-Cut	10.1	42110 - Planted Red Pine	Sawtimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine to 120 BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

34	45121034-Cut	34.6	4134 - Aspen, Spruce/Fir	Poletimber Well	40	Unspecified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
----	--------------	------	--------------------------	-----------------	----	-------------	---------	-------------------------	--------------------------	-----------	----

Prescription Clear cut all deciduous species to 2" and conifers to 4". 3-10% retention in pockets with additional retention along the red line along stand
Specs: 30. Winter harvest for the deer yard.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked aspen, spruce, fir, and white pine.

Regen:

Other

Comment:

Consider reducing deer yard restrictions due to the stand being along a paved road.

Site Condition

Proposed Start Date: 10/1 /2022

37	45121037-Cut	42.6	6122 - Black Spruce	Poletimber Medium	56	81-110	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
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Prescription Clear cut all deciduous species to 2" and conifer species to 4". Retain 3-10% of the stand. Winter harvest only for the deer yard and wet
Specs: ground conditions. Leave all cedar. Final acreage may vary from original prescription due to ground conditions.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked spruce, fir, aspen, birch, and cedar.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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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39	45121039-Cut	3.9	3303 - Mixed Low Density Trees	Nonstocked	Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		No
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Prescription Clear cut all tree which are 2" and up at DBH. This is for opening maintenance therefore there will be no retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable none

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed: 144.8

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 121

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	3B	3H	3J	5E	
576	543	0	33	Aspen	7	1	23	2
623	14	0	609	Cedar	49	559	1	
17	16	0	1	Herbaceous Openland			1	
13	13	0	0	Low-Density Trees				
20	19	0	2	Lowland Aspen/Balsam Poplar			2	
8	0	0	8	Lowland Conifers	8			
317	167	0	149	Lowland Shrub	33	17	100	
46	46	0	0	Lowland Spruce/Fir				
94	94	0	0	Marsh				
95	95	0	0	Northern Hardwood				
25	25	0	0	Red Pine			0	
38	10	0	28	Upland Conifers			28	
6	6	0	0	Urban			0	
1,878	1,048		830	Total Forested Acres	97	576	155	2
	56%		44%	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	3J: Water quality / BMPs (stream, river, or lake)	66	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3B: Threatened, endangered, and special concern species	97	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 121

Year of Entry: 2023

4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	89	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	214	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	362	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 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	6120 - Lowland Cedar	Poletimber Well	23.4	91	81-110	N/A	Cedar mixed with black spruce and fir. Few birch trees.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole/Sapling	5		Northern White Cedar	
Balsam Fir		10	Pole/Sapling	5		Tag Alder	
Tamarack		10	Sapling/Pole	4		Balsam Fir	
Northern White Cedar		60	Pole/Sapling	6	91		
Paper Birch		10	Pole/Sapling	7			
% Cover		Size Class	DBH	Age	Density		Avg. Height
Northern White Cedar		85	Pole	8	119	Northern White Cedar	
Tamarack		10	Pole/Sapling	5		Balsam Fir	
Black Spruce		5	Pole/Sapling	6			
2	6120 - Lowland Cedar	Poletimber Medium	157.9	119	51-80	N/A	Typical wet cedar swamp. Not very high quality.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		85	Pole	8	119	Northern White Cedar	
Tamarack		10	Pole/Sapling	5		Balsam Fir	
Black Spruce		5	Pole/Sapling	6			
% Cover		Size Class	DBH	Age	Density		Avg. Height
Northern White Cedar		53	Pole/Sapling	5	112	Black Spruce	
Tamarack		20	Pole/Sapling	5		Northern White Cedar	
Black Spruce		12	Sapling/Pole	4			
Paper Birch		15	Sapling/Pole	4			
3	6120 - Lowland Cedar	Poletimber Well	8.5	112	141-170	N/A	Very low ground cedar, very thick, but small diameter. Hard to even walk into. Scattered small diameter birch in higher clumps. Some tamarack. Tag alder where open.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		53	Pole/Sapling	5	112	Black Spruce	
Tamarack		20	Pole/Sapling	5		Northern White Cedar	
Black Spruce		12	Sapling/Pole	4			
Paper Birch		15	Sapling/Pole	4			
% Cover		Size Class	DBH	Age	Density		Avg. Height
Black Spruce		Medium		5 - 10 feet		Sapling	
Northern White Cedar		Low		< 5 feet		Sapling	
4	122 - Road/Parking Lot	Nonstocked	6.3		Unspecified	No	Borgstrom Rd.
5	4134 - Aspen, Spruce/Fir	Sapling Well	8.5	24	Immature	N/A	Dense aspen saplings with tag alder in the wettest parts of the stand. Stand still is not merchantable. Check again in 10 years. Intermittent stream meanders through the stand. Cut in Le Pew Aspen 44-16-94 in 1998.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		70	Sapling/Pole	3	24	Conifers	
Balsam Fir		15	Sapling/Pole	4		Tag Alder	
Paper Birch		10	Sapling/Pole	4			
Black Spruce		5	Sapling/Pole	4			
% Cover		Size Class	DBH	Age	Density		Avg. Height
Conifers		Medium		< 5 feet		Sapling	
Tag Alder		Medium		Variable		Tall Shrub	
6	6220 - Alder/willow	Nonstocked	48.0		Unspecified	No	
7	3302 - Low Density Conifer Trees	Nonstocked	9.5		Unspecified	Managed Opening	cc along with adjacent stand to maintain opening.
Sub-Canopy Species		Density	Avg. Height	Size			
Conifers		Low	Variable	Sapling	Sand pit in stand. Pavement disposal site.		
Conifers		Low	>20 feet	Pole			
8	629 - Mixed non-forested wetland	Nonstocked	2.4		Unspecified	No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 9.4 62 81-110 N/A Small, narrow ridge of small birch and fir that slopes down into a cedar swamp. Leave for age class diversity.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole/Sapling	4		Paper Birch	Low	5 - 10 feet	Sapling
Balsam Fir	30	Pole	5		Conifers	Medium	5 - 10 feet	Sapling
Northern White Cedar	20	Pole	6					
Paper Birch	35	Pole/Sapling	5	62				
Hemlock	10	Pole	6					

10 6120 - Lowland Cedar Poletimber Well 62.2 92 81-110 N/A Very poor quality stand of small diameter cedar mixed with some tamarack. Tag alder all through stand. Very wet and vitually unmerchantable. A scrubby black spruce here and there.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	5	Pole/Sapling	5		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole/Sapling	5					
Northern White Cedar	90	Pole/Sapling	5	92				

11 6120 - Lowland Cedar Sapling Medium 86.3 111 Unspecified N/A Very wet, sparse, non-merchantable cedar. No access. A lot of tag alder and some open water areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	95	Sapling/Pole	5	111	Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	5	Sapling/Pole	4					

12 629 - Mixed non-forested wetland Nonstocked 16.5 Unspecified No

13 4134 - Aspen, Spruce/Fir Poletimber Well 83.4 36 111-140 N/A Mostly aspen and fir. The aspen is more prevalent and larger in the west half of the stand. It gets much heavier to Balsam fir in east and north.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Pole	8		Conifers	Medium	Variable	Sapling
Balsam Fir	30	Pole/Sapling	5					
Red Maple	10	Pole	7					
Black Spruce	10	Pole/Sapling	6					
Quaking Aspen	35	Pole/Sapling	6	36				

Stand was cut in 1986.

14 6239 - Mixed Emergent Wetland Nonstocked 4.1 Unspecified No

15 6120 - Lowland Cedar Sapling Medium 18.8 81 Unspecified N/A Inaccessible cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	10	Sapling	4	
Northern White Cedar	90	Sapling	4	81



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
16	4130 - Aspen	Sapling Well	46.7	18	Immature	N/A	Harvested in 2004. Ninety Six Mix 45-102-03																																																																								
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17	429 - Mixed Upland Conifers	Poletimber Well	28.5	48	111-140	N/A	Narrow stand that is corridor for Paquin creek. Lots of poorly formed white pine with a mix of other conifer and deciduous species.																																																																								
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18	3102 - Grass	Nonstocked	6.3		Immature	No																																																																									
19	4130 - Aspen	Sapling Well	5.1	27	Immature	N/A	Harvested in 95.																																																																								
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21	629 - Mixed non-forested wetland	Nonstocked	127.7			No																																																																									
23	42110 - Planted Red Pine	Sawtimber Well	10.2	61	141-170	N/A	BA currently around 160. As high as 200 in a couple spots.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
25	4133 - Aspen, Mixed Pine	Sapling Poor	46.4	13	Immature	N/A	Opening that has filled in with aspen and Jack pine.																														
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White Spruce	5	Sapling	2																																		
26	4130 - Aspen	Sapling Well	82.7	27	Immature	N/A	Aspen is looking good. We'll over 30' tall. Probably ready to cut in 20 years. Harvested in 95.																														
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Quaking Aspen	70	Sapling/Pole	4	27																																	
27	4134 - Aspen, Spruce/Fir	Sapling Well	23.9	7	Immature	N/A	Cut in 2015. Prout Spruce. #45-125-13-01.																														
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Balsam Fir	25	Pole	6																																		
28	42110 - Planted Red Pine	Sawtimber Well	10.1	61	141-170	N/A	BA currently 140-160. Second thin in 2015. 45-124-13-01. Prout Pine.																														
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Red Pine	100	Log/Pole	10	61																																	
30	4130 - Aspen	Sapling Well	31.3	7	Immature	N/A	Regen looking really good. Nice and thick. 15' tall. Cut in 2015. Prout Spruce. #45-125-13-01																														
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Canopy Species	% Cover	Size Class	DBH	Age																																	
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Quaking Aspen	72	Sapling	1	7																																	
Red Maple	5	Sapling	1																																		
Balsam Fir	10	Sapling	1																																		
31	4134 - Aspen, Spruce/Fir	Sapling Well	31.2	7	Immature	N/A	Aspen regen looking good. Cut in 2015. Prout Spruce. #45-125-13-01.																														
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Quaking Aspen	75	Sapling	1	7																																	
White Spruce	25	Sapling	1																																		
32	6239 - Mixed Emergent Wetland	Nonstocked	89.5		Immature	No																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34 4134 - Aspen, Spruce/Fir Poletimber Well 37.2 40 Unspecified N/A Aspen is doing well. Deceny amount fir in the understory. Could cut this yoe.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole/Sapling	5		Conifers	Medium	Variable	Sapling
Balsam Fir	25	Pole/Sapling	5					
Northern White Cedar	1	Pole/Sapling	6					
Quaking Aspen	53	Pole	6	40				
White Pine	1	Log	10					
Paper Birch	5	Sapling/Pole	4					
Black Cherry	5	Sapling	4					

35 3102 - Grass Nonstocked 10.7 Unspecified No Stand swapped from Forested to Non-Forested.

37 6122 - Black Spruce Poletimber Medium 45.9 56 81-110 N/A Wet, spruce pole stand. Could harvest under frozen conditions.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Sapling	6		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	5	Pole/Sapling	5		White Pine	Low	< 5 feet	Sapling
Northern White Cedar	5	Pole/Sapling	5		Northern White Cedar	Low	Variable	Sapling
White Pine	5	Log/Pole	11		Tag Alder	Medium	Variable	Tall Shrub
Black Spruce	70	Pole	6	56				

38 4130 - Aspen Poletimber Well 58.5 31 Immature N/A Aspen is just reaching merchantability. Look at harvesting next yoe.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Sapling	4		Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	15	Pole/Sapling	5					
Quaking Aspen	65	Pole/Sapling	5	31				
Balsam Fir	10	Sapling	3					

39 3303 - Mixed Low Density Trees Nonstocked 3.9 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low		Sapling
Conifers	Low		Sapling

40 4112 - Maple, Beech, Cherry Association Sawtimber Well 56.1 74 51-80 N/A Basal area is around 80 throughout. Lower in some areas. Good number of maple saplings in the subcanopy. 1-2" and 15-20' tall.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Log/Pole	13		Beech	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Log	11		Red Maple	Medium	10 - 20 feet	Sapling
Hemlock	5	Log	11		Sugar Maple	Medium	10 - 20 feet	Sapling
Sugar Maple	55	Log/Pole	13	74				

Beech salvaged and died out. Reduced basal area throughout. Bombed Out Beech #45-106-14-01.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
41	4119 - Mixed Northern Hardwoods	Sapling Well	39.0	17	Immature	N/A	Hemlock is the dominant mature species remaining. There are a few white pine and yellow birch around. Regen is doing well. 15'+ high. Cut in 2005 in Ninety Six Mix 45-102-03. All trees were cut except hemlock, white pine, and yellow birch.																																													
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Canopy Species	% Cover	Size Class	DBH	Age																																																
Quaking Aspen	8	Sapling	1																																																	
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Balsam Fir	6	Sapling	1																																																	
Yellow Birch	2	Log/Pole	10																																																	
42	6120 - Lowland Cedar	Poletimber Well	265.7	88	51-80	N/A	Large stand is mix of cedar, black spruce, and tag alder. Very wet in lowest areas and sparse trees. non-merchantable. Low productivity.																																													
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Northern White Cedar	60	Pole/Sapling	6	88																																																
43	629 - Mixed non-forested wetland	Nonstocked	1.0		Unspecified	No																																														
44	4134 - Aspen, Spruce/Fir	Sapling Well	55.6	17	Immature	N/A	Aspen regen is pretty good. About 25' tall on average. Ninety Six Mix 45-102-03. Cut in '05.																																													
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45	629 - Mixed non-forested wetland	Nonstocked	99.4		Immature	No																																														
46	629 - Mixed non-forested wetland	Nonstocked	21.7		Unspecified	No																																														
47	6124 - Lowland Spruce-Fir	Poletimber Well	7.9	31	81-110	N/A	Stand is part of previous A2 that is regenerating with heavynbalsam spruce vs. aspen. Much wetter ground than remainder of stand. Aspen is there just less significant.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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48	4134 - Aspen, Spruce/Fir	Sapling Medium	31.6	7	Immature	N/A	Aspen is coming in patchy in more of the middle/northern part of the stand. Fir and spruce regenerating in the rest. Decent amount of mature trees still including a small buffer along a stream. Cut in 2015. Prout Spruce. #45-125-13-01
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Sapling	1	
Red Maple	10	Sapling	1	
White Spruce	15	Sapling	1	7
Paper Birch	15	Sapling	1	
Quaking Aspen	45	Sapling	1	7

49	4134 - Aspen, Spruce/Fir	Sapling Well	33.6	31	81-110	N/A	Stand is aspen, birch, fir, spruce, and cedar. Wet low quality stand. Lots of beaver sign in the area.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Sapling	3	
Quaking Aspen	40	Sapling/Pole	4	31
Northern White Cedar	5	Sapling	4	
Paper Birch	35	Sapling	3	
Balsam Fir	15	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	Sapling
Northern White Cedar	Low	< 5 feet	Sapling

50	6112 - Lowland Aspen	Poletimber Well	20.4	32	111-140	N/A	Variable stand. Notes from last yoe describe it well (below). Smaller aspen is up to 30'. More mature aspen is still looking good. Stand is complete jumbled mix, varying every 50 ft. from aspen regen, 15-20ft, to scattered mature aspen with spruce/fir, to white pine with paper birch. Tag alder throughout. Ground gradiates from lowland holding water to small ridge between wetlands. Not much merchantability here. Best use is as is/ habitat.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	10	Pole/Sapling	6	
Paper Birch	20	Pole/Sapling	6	
White Pine	5	Log/Pole	12	
Quaking Aspen	45	Pole/Sapling	7	32
Red Maple	10	Pole	8	
White Spruce	10	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	10 - 20 feet	Tall Shrub
White Pine	Low	5 - 10 feet	Sapling
Conifers	High	10 - 20 feet	Sapling