



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45130

Entry Year 2021

Acreage: 2,316

County Mackinac

Management Area: Sage Truck Trail

Revision Date: 2019-08-02

Stand Examiner: Matt Edison

Legal Description:

T44N R7W Sections 10, 11, 14, and 15; (Hendricks Twp.)

Identified Planning Goals:

The compartment is located approximately 4 miles Northeast of Rexton and, to the immediate north of the Fiborn Quarry. It is within the Sage Truck Trail Management Area. Overall, the compartment is quite diverse in cover type composition. There are extensive marsh areas surrounded by related cedar and lowland conifer stands. There are ridges of pine, aspen, and birch scattered throughout. The upland areas consist predominantly of northern hardwoods of varying quality. In past entries the aspen and northern hardwoods have been actively managed and some areas of suitable areas have been planted to red pine. There are numerous grass opening scattered throughout that should be maintained in the future. This entry, management will focus on final harvest of some mature aspen and mixed upland forest stands, as well as some hardwood thinning. All management activities will be to FMFM work instruction standards.

Soil and topography:

The low areas include Markey-Spot Finch complex associated with cedar and swamp conifers. Paquin-Spot complex is found in the upland areas of hardwoods. Wallace sand is found in the upland areas of paper birch, aspen, and pine.

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

The compartment contains some private ownership in the southwest corner (160 acres), which includes land owned by the Michigan Karst Conservancy. There is also private ownership in the center of the compartment (80 acres). The compartment is bounded by private and state ownership to the East, private ownership to the West, and state ownership to the North and South.

Unique Natural Features:

Per MNFI records, there is potential within this compartment for occurrences of several rare, threatened or endangered species of plants and animals.

Archeological, Historical, and Cultural Features:

One site, 20MK441 (the Fiborn Quarry) extends a bit into stands 46, 61, and 63. However, as there are no treatments proposed in these areas currently, we have no concerns.

Special Management Designations or Considerations:

Buffers will be used in all harvesting to protect any waterways and sensitive areas.

Watershed and Fisheries Considerations:

Fisheries values: moderate.

Fisheries Concerns: Both the Hendrie River and Anguilm Creek are designated trout streams through this compartment. They both support natural brook trout and should be protected accordingly. The aspen clear-cut proposed in stand 24 should have a 300 ft buffer applied in order to discourage any additional beaver activity on Anguilm Creek. The site of the old Fiborn Trout Pond is also located in this compartment, but no longer supports a managed fishery

Wildlife Habitat Considerations:

This compartment is part of the Sage Truck Trail MA where featured wildlife species include American marten, black bear, ruffed grouse, snowshoe hare, and white-tailed deer. It contains a variety of cover types including northern hardwoods, aspen, red pine, cedar and other lowland conifers, and marsh and other non-forested wetlands. Nearly the entire compartment is part of deer wintering complex. The Hendrie River runs through the compartment. Limestone sinkoles and Karst topography are some of the unique features in the area. A bat hibernaculum is nearby which has supported the northern long-eared bat.

Wildlife objectives include maintaining deer wintering complex, diversifying northern hardwoods and mixed stands to benefit marten, hawks, and bear, and maintaining lowland cover for a variety of wildlife including deer and bear.

Treatments in wintering complex will be conducted during the winter months so tops are available as browse to wintering

deer. Harvest activities in northern hardwoods will focus mostly on areas with higher basal area; some areas will likely be left. Snags and coarse woody debris will be left. These actions will benefit deer, bear, marten and some bats. Hemlock will be retained, and cherry and other mast-producing species will be encouraged to provide food sources for bear and other wildlife. Rare species and their habitats will be protected.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are located to the southwest. There appears to be some sand potential within the compartment. There is very good potential for high-purity limestone in this area. The former Fiborn Quarry is adjacent to the compartment, and Garymont's limestone mining operations are just a couple of miles to the southwest. There are numerous wetland areas within the compartment that could inhibit any potential mineral development. There is no known metallic mineral potential in this area, and there is no current economic oil and gas production in the UP.

Vehicle Access:

Access is via Fiborn Quarry Road (County Gravel), which runs north off County Road H-40. Fiborn Junction Rd. (Public Gravel) runs north/south through the compartment. Hendrie River Truck Trail (poor dirt) runs west off Fiborn Junction Rd. Johnson Paul Rd. (poor dirt) runs north off the Hendrie River Truck Trail.

Survey Needs:

Recreational Facilities and Opportunities:

The compartment is used for hunting of deer, grouse, and other small game. Fishing in Hendrie River and Anguilm Creek (see Fisheries comments). ORV traffic is evident along roads.

Fire Protection:

Fire danger is minimal in the marsh areas. Limited access reduces human ignition factors. There are scattered two tracks that provide access to interior portions of the compartment. Water sources are limited in the compartment to the Hendrie River and potentially scattered bog water holes.

Additional Compartment Information:

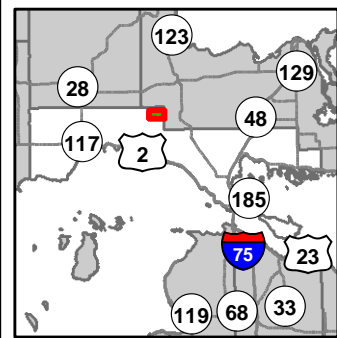
The following reports from the Inventory are attached:

- 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:

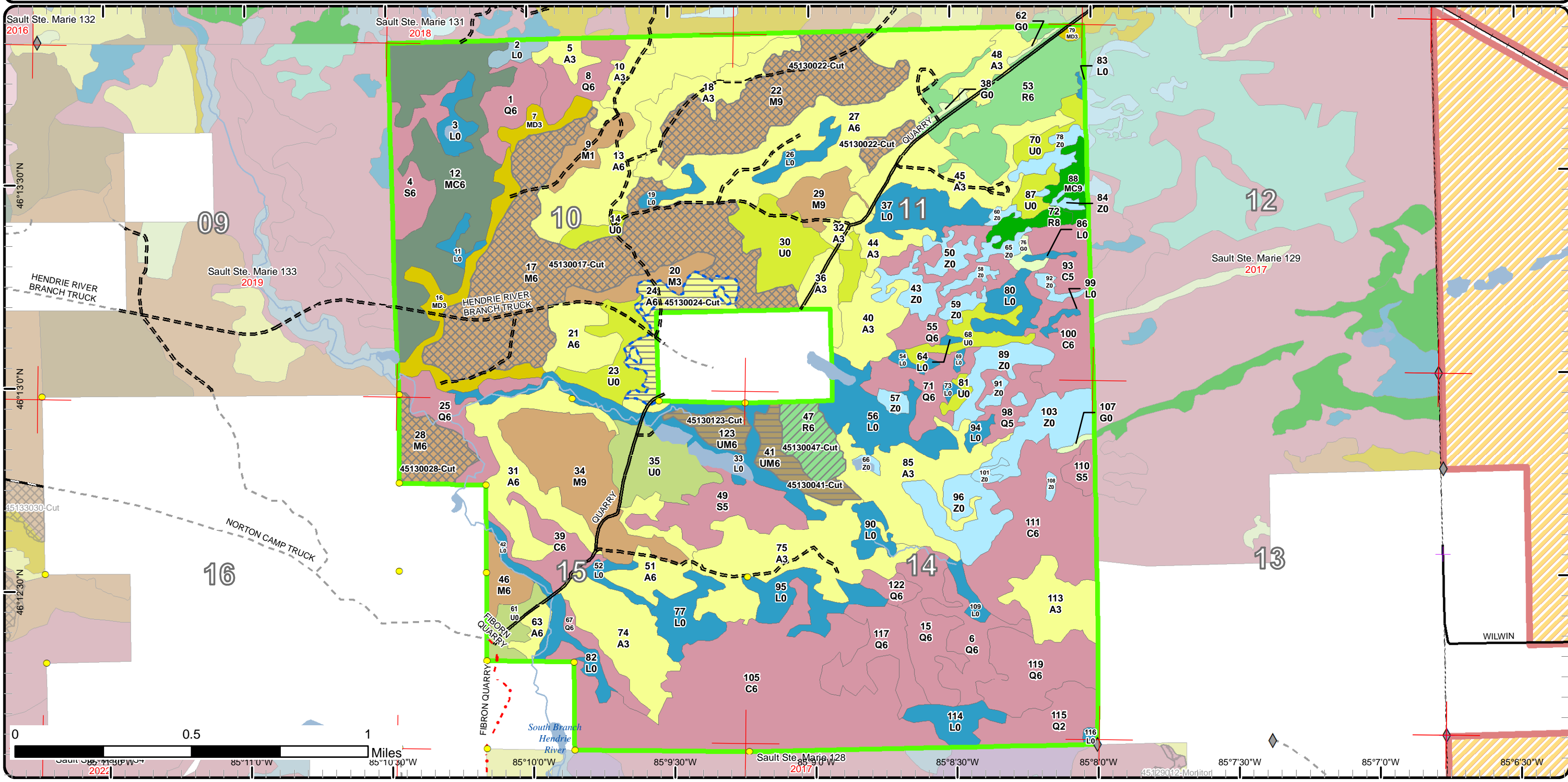
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



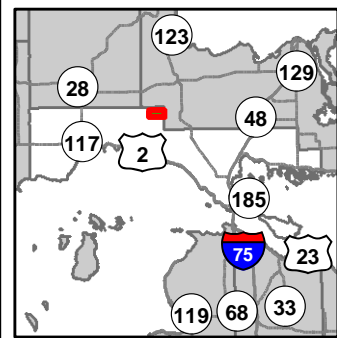
Compartment: 130
 T44N, R07W, Sec: 10, 11, 14, 15
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Sage Truck Trail
 YOE: 2021
 Acres: 2,316 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 9/17/2019
 Map Phase: Web Post

- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- Lakes

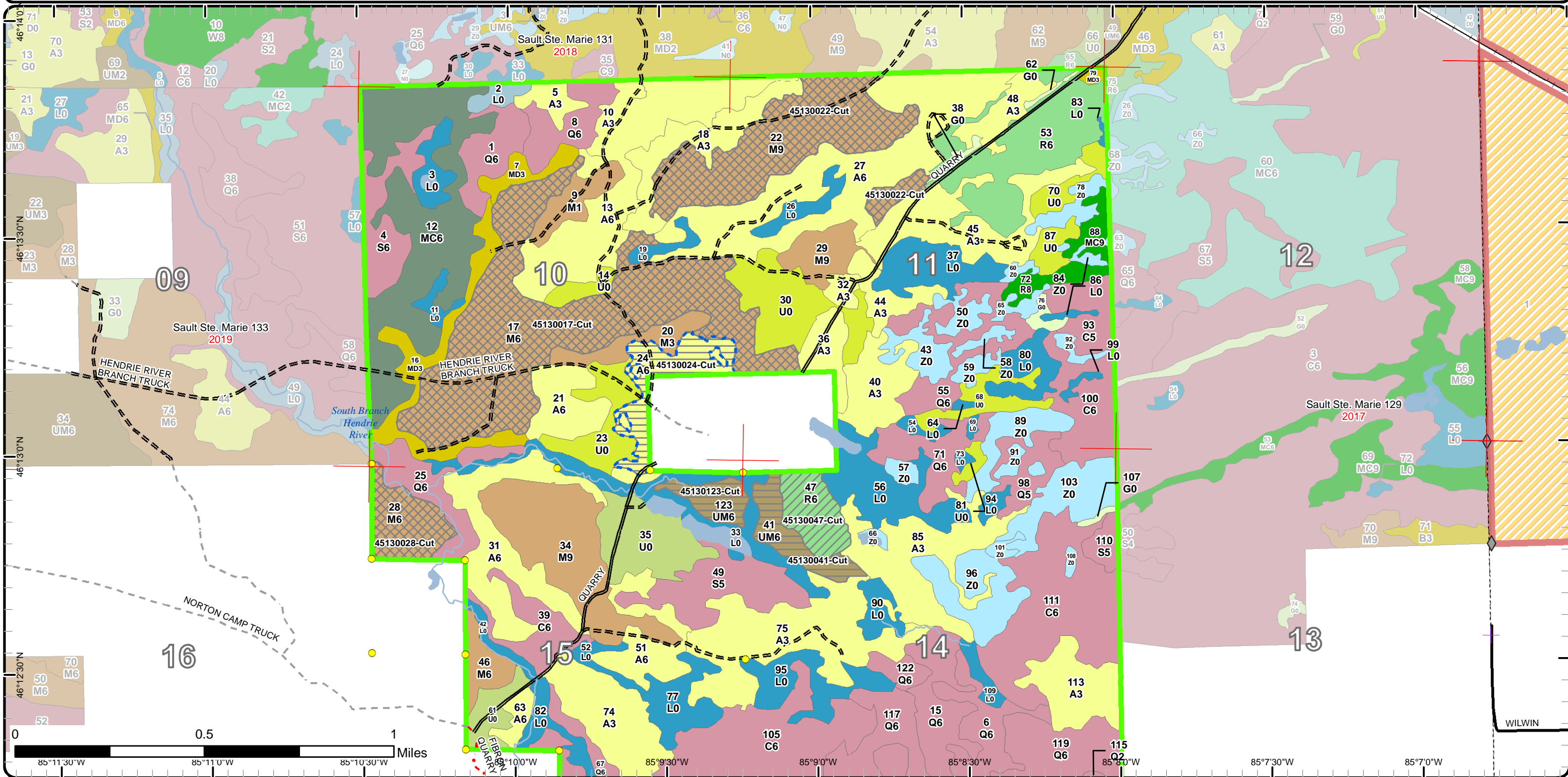


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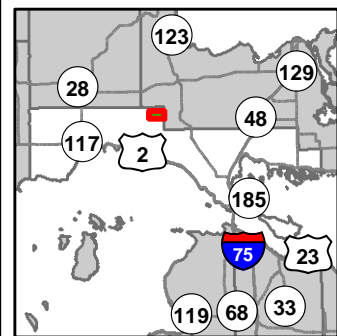


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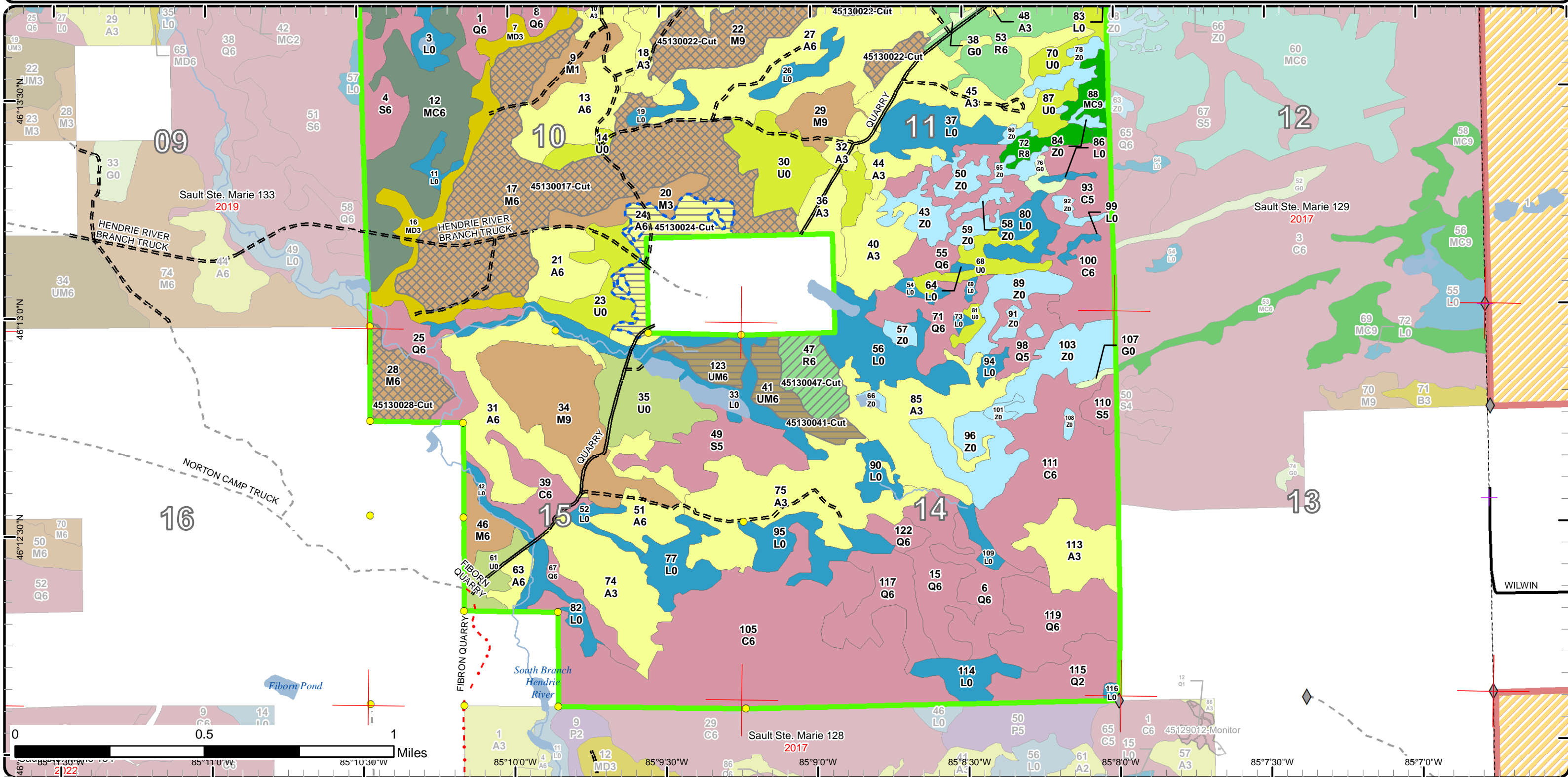


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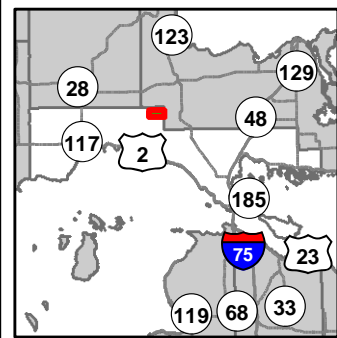
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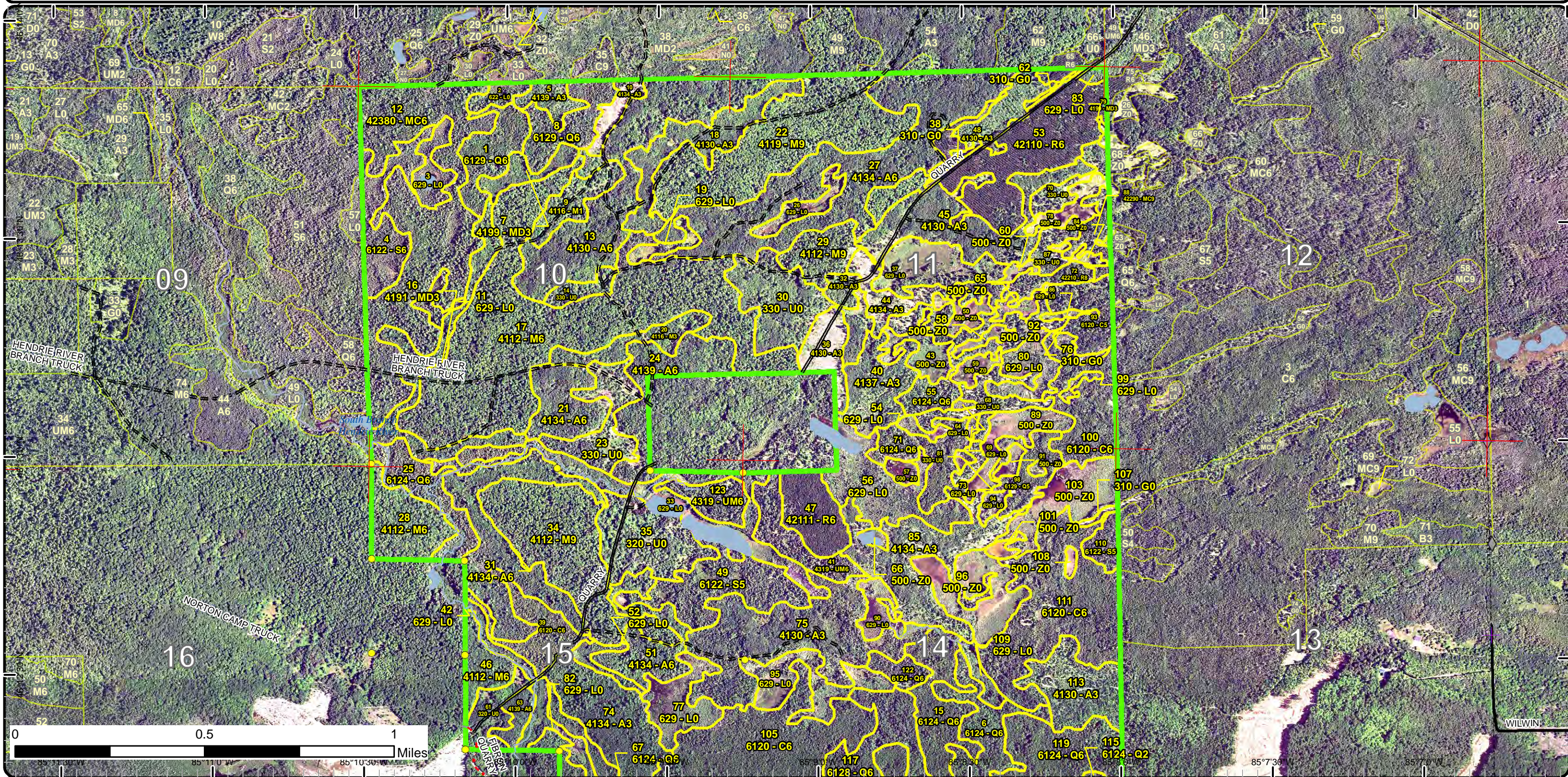
Stand Boundary Map



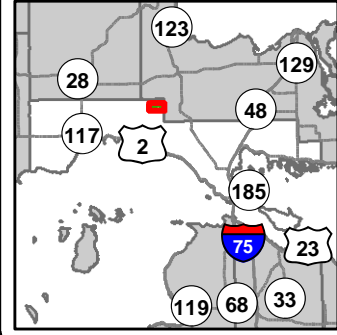
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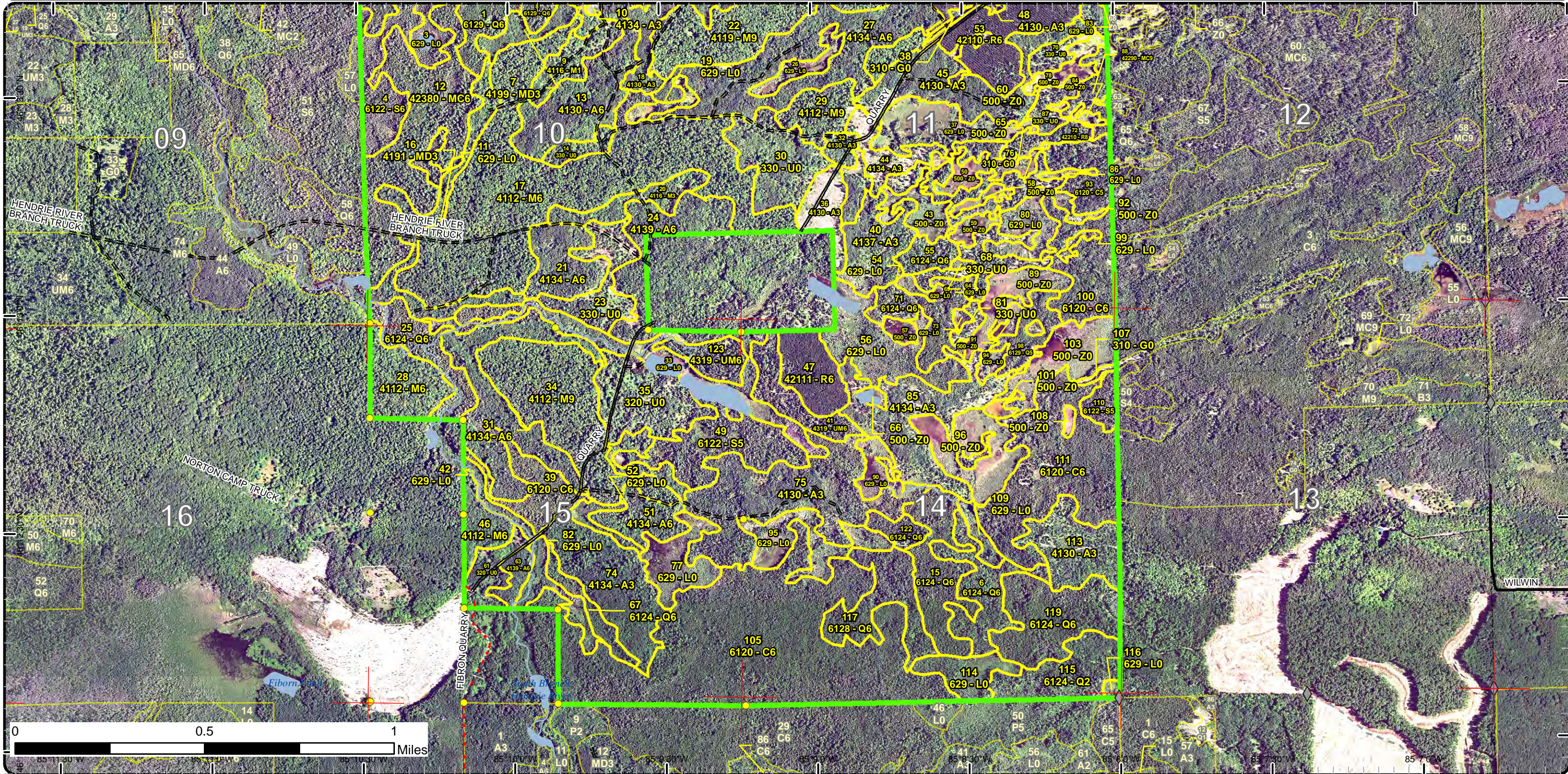


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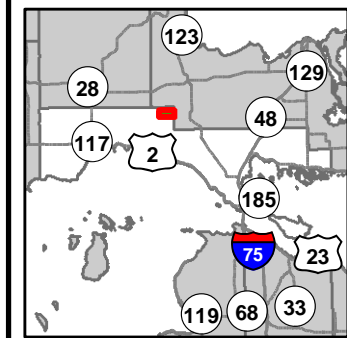
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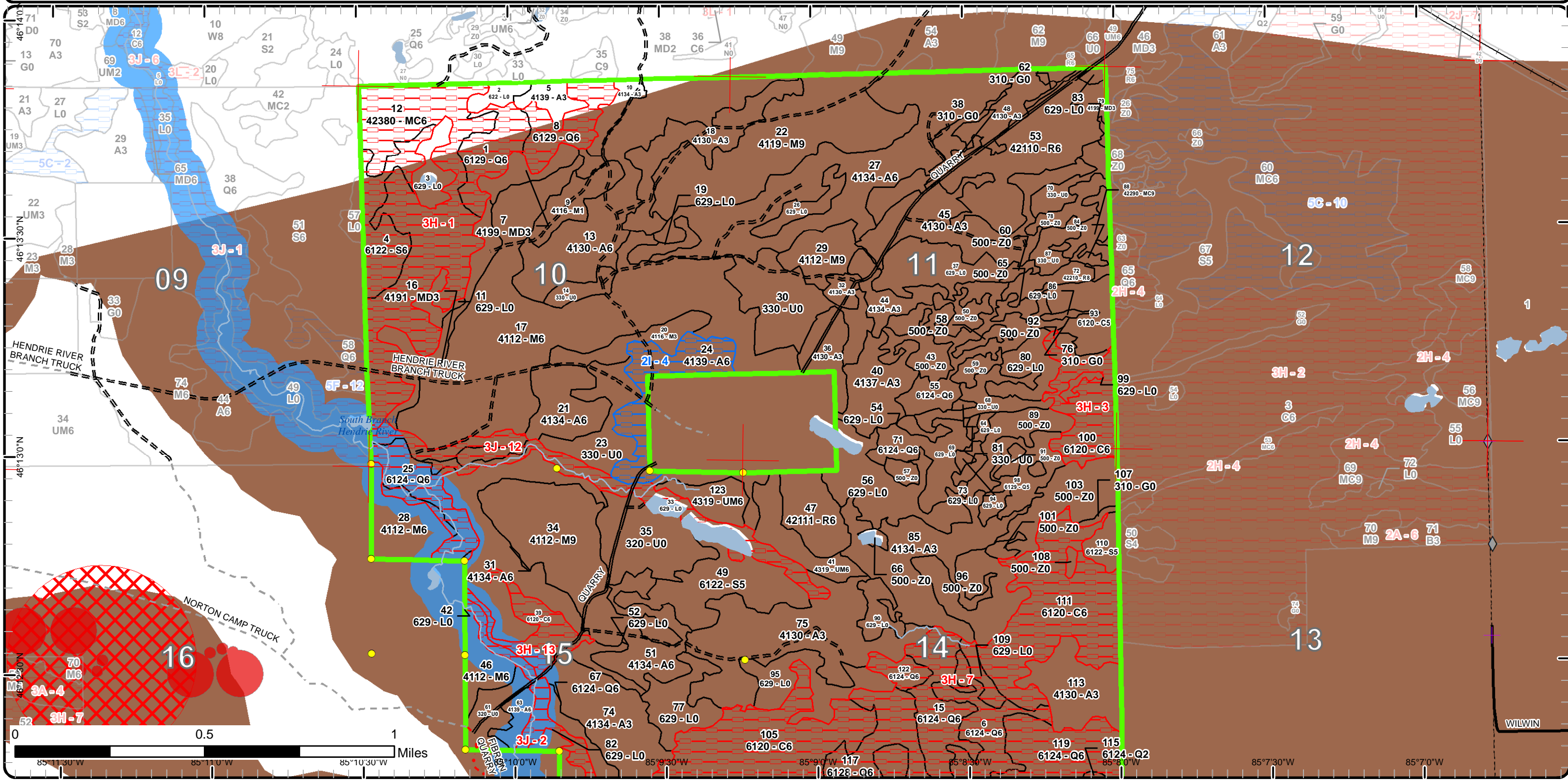


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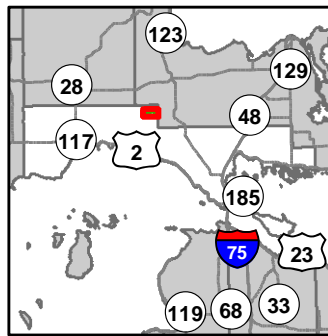


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- 2I: Survey needed
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Northern Long-Eared Bat Hibernacula Buffers
- Deer Winter Range

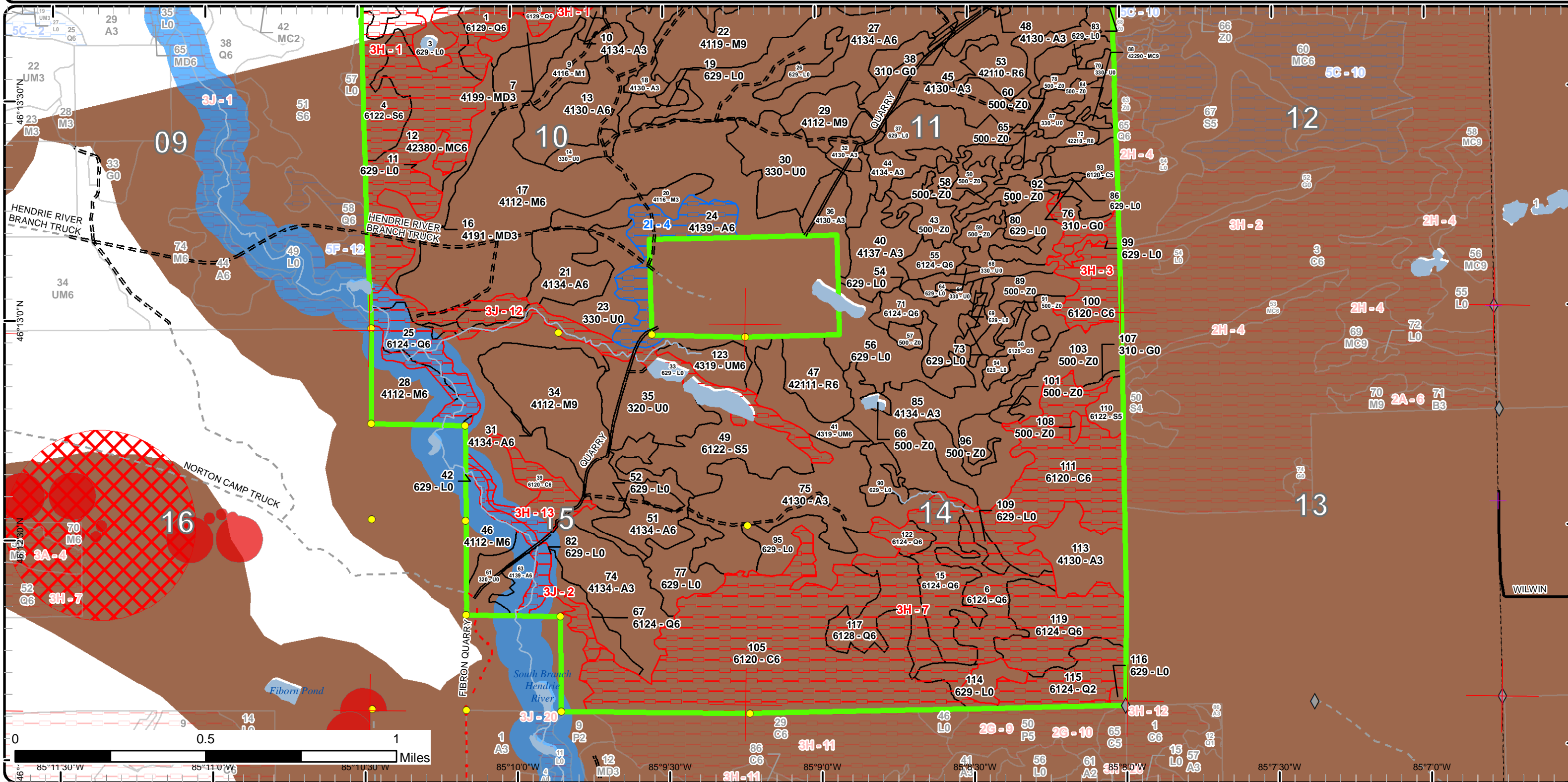


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Report 1 – Total Acres by Cover Type and Age Class



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	45	61	85	356	20	27	0	0	0	0	0	0	0	0	0	0	0	593
Cedar	0	0	0	0	0	0	0	0	0	83	42	167	0	0	0	0	0	0	291
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Low-Density Trees	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Lowland Conifers	0	0	0	0	26	31	14	29	50	18	18	89	0	0	0	0	0	0	275
Lowland Shrub	226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	226
Lowland Spruce/Fir	0	0	0	0	33	0	6	0	23	0	0	0	0	0	0	0	0	0	62
Mixed Upland Deciduous	0	0	10	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Natural Mixed Pines	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	0	13	13	0	0	11	23	304	0	0	0	0	0	0	0	0	0	364
Red Pine	0	0	0	0	76	0	0	0	7	0	0	0	0	0	0	0	0	0	83
Upland Conifers	0	0	0	0	0	0	0	96	0	0	0	0	0	0	0	0	0	0	96
Upland Mixed Forest	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	27
Upland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Water	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
Total	478	45	84	98	518	51	85	61	480	18	101	131	167	0	0	0	0	0	2315



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 130
Total Compartment Acres: 2,316

Commercial Harvest - 301
Harvests with Site Condition - 23
Next Step Harvest - 79
Habitat Cut - 79

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	23	0	0	0	0	0	0	0	0	23
Northern Hardwood	0	255	0	0	0	0	0	0	0	255
Red Pine	0	0	0	0	19	0	0	0	0	19
Upland Mixed Forest	27	0	0	0	0	0	0	0	0	27
Total	50	255	0	0	19	0	0	0	0	324

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	324	0	0	0	0	0	0	0	0	324
Next Step	79	0	0	0	0	227	0	0	0	305
Total	403	0	0	0	0	227	0	0	0	629



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
17	45130017-Cut	153.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	73	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Select cut- Mark for best tree in place, but favor for promoting mast producing where possible. Mark to regulate basal area, approx. 80ba. Leave								
<u>Specs:</u>			some large wolfy trees & snags. Leave oak, some cherry, and all hemlock. Winter cut (Dec. 1 - Mar. 31) for wintering deer. Actual sale acreage and area will reflect what is found during sale prep. and may vary from prescribed acres.								
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Any mix of maple, aspen, birch, spruce/fir, cherry, hemlock, cedar, or pine								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/1 /2020								
22	45130022-Cut	78.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	71	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Select cut- Promote mast producing trees. Mark to regulate basal area to approx. 80ba. Leave some large wolfy trees & snags. Leave oak,								
<u>Specs:</u>			some cherry and yellow birch, and all hemlock. Winter cut (Dec. 1 - Mar. 31) for wintering deer. Actual sale acreage and area will reflect what is found during sale prep. and may vary from prescribed acres.								
<u>Next Step</u>			Harvest, Single Tree Selection								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Any mix of maple, birch, aspen, beech, spruce/fir, cherry, hemlock, or cedar.								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/1 /2020								
24	45130024-Cut	23.0	4139 - Aspen, Mixed Deciduous	Poletimber Well	54	111-140	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u>			Clearcut with retention- Leave some patches for retention. Actual sale acreage and area will reflect what is found during sale prep. and may vary								
<u>Specs:</u>			from prescribed acres.								
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Any mix of aspen, birch, maple, spruce/fir, cherry, pine, hemlock, beech, or cedar.								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/1 /2020								
28	45130028-Cut	22.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	61	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Select cut- Mark for best tree in place, but favor for promoting of mast producing species where possible. Mark to regulate basal area approx.								
<u>Specs:</u>			80ba. Leave some large wolfy trees & snags. Leave oak, some cherry and yellow birch, and all hemlock. Winter cut (Dec. 1 - Mar. 31) for wintering deer. Actual sale acreage and area will reflect what is found during sale prep. and may vary from prescribed acres.								
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Any mix of maple, aspen, birch, cherry, spruce/fir, pine, hemlock, or cedar								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/1 /2020								



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
41	45130041-Cut	16.1	4319 - Mixed Upland Forest	Poetimber Well	57	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention- Harvest all, but leave retention patches of representastive andsome white pine and all hemlock.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of aspen, birch, spruce/fir, maple, cherry, pine, hemlock, or cedar.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

47	45130047-Cut	18.8	42111 - Planted Red Pine, Mixed Deciduous	Poetimber Well	35	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest every 3rd row.

Specs:

Next Step

Treatments:

Acceptable Planted RP

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

123	45130123-Cut	10.9	4319 - Mixed Upland Forest	Poetimber Well	57	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention- Provide for retention patches and retain all hemlock and some scattered white pine.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of aspen, birch, maple, spruce/fir, pine, hemlock, cherry, or cedar.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 324.0**

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 130

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2I	5C	3H	3J
593	566	27	0	Aspen	27			0
292	28	0	264	Cedar			264	
7	7	0	0	Herbaceous Openland				
90	90	0	0	Low-Density Trees				
274	69	0	205	Lowland Conifers			182	23
226	172	0	54	Lowland Shrub			11	43
62	40	0	23	Lowland Spruce/Fir			23	
37	27	0	10	Mixed Upland Deciduous				10
9	9	0	0	Natural Mixed Pines		0		
364	361	0	3	Northern Hardwood				3
83	83	0	0	Red Pine				
96	0	0	96	Upland Conifers			96	
27	27	0	0	Upland Mixed Forest				
42	42	0	0	Upland Shrub				
113	113	0	0	Water				
2,316	1,634	27	654	Total Forested Acres	27	0	575	79
	71%	1%	28%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	155	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2I: Survey needed	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	377	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard.							

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.
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
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1	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	18.0	89	141-170	N/A	Wet lowground stand of cedar mix.
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Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole	6		Conifers	Medium	5 - 10 feet	Sapling
Black Spruce	25	Sapling/Pole	5					
Northern White Cedar	40	Pole/Sapling	6	89				
Tamarack	15	Sapling/Pole	5					
White Pine	10	Log/Pole	12					

2	622 - Lowland Shrub	Nonstocked	5.0		Unspecified	No	
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3	629 - Mixed non-forested wetland	Nonstocked	9.3		Unspecified	No	
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4	6122 - Black Spruce	Poletimber Well	22.8	76	81-110	N/A	Lowland spruce/fir with some large w.p.. Small dia's, wet.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Pole	5	
Black Spruce	65	Pole	6	76
Tamarack	20	Sapling/Pole	5	

5	4139 - Aspen, Mixed Deciduous	Sapling Well	7.3	16	Immature	N/A	Cut in 2003.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Sapling	3	
Quaking Aspen	31	Sapling	3	16
Bigtooth Aspen	20	Sapling/Pole	3	
Balsam Fir	10	Sapling	3	
Black Cherry	29	Sapling	3	

6	6124 - Lowland Spruce-Fir	Poletimber Well	23.6	101	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	8		Conifers	Medium	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Sapling	6					
Balsam Fir	25	Pole	6					
Black Spruce	25	Sapling/Pole	6					
Northern White Cedar	30	Pole/Sapling	7	101				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
7	4199 - Other Mixed Upland Deciduous	Sapling Well	8.4	12	Immature	N/A	Cut in 1997.																																	
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Canopy Species	% Cover	Size Class	DBH	Age																																				
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Black Cherry	30	Sapling	3																																					
8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	18.4	99	141-170	N/A	Lowland conifer & cedar, with tag alder edges. Small dia. black spruce.																																	
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Conifers	Medium	5 - 10 feet	Sapling																																					
9	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	12.9	25	Immature	N/A	Stand is opening filling in with cherry brush and aspen in spots. A few large maple field trees are scattered. Almost non-forested, but filling in now.																																	
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White Pine	10	Log/Pole	10																																					
Black Cherry	60	Pole/Sapling	5	25																																				
10	4134 - Aspen, Spruce/Fir	Sapling Well	6.8	4	Immature	N/A	Cut in 2016 Fiborn Plots #45-115-11-01. Good looking aspen regeneration with mixed un-merchantable balsam fir mix.																																	
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11	629 - Mixed non-forested wetland	Nonstocked	4.1		Unspecified	No																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 95.6 73 81-110 N/A Similar to adjacent stand, but with more conifer. Large scattered w.p. supercanopy. Small dia.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	4	
Paper Birch	10	Sapling	4	30
Quaking Aspen	10	Sapling	4	
Balsam Fir	19	Pole	5	
White Spruce	10	Pole	4	
Black Spruce	21	Pole	5	73
White Pine	10	Log/XLog	14	
Hemlock	10	Pole	9	

13 4130 - Aspen Poletimber Well 66.3 38 81-110 N/A Cut in 1981. Mix of variable size aspen, with a lot of cherry brush in places. Check in 10 years.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	6	
Quaking Aspen	29	Pole	6	
Bigtooth Aspen	31	Pole	6	38
Black Cherry	20	Sapling	3	

Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	Medium	5 - 10 feet	Sapling

14 330 - Low-Density Trees Nonstocked 6.0 Unspecified No

15 6124 - Lowland Spruce-Fir Poletimber Well 28.6 101 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	8	
Quaking Aspen	10	Pole/Sapling	6	
Balsam Fir	25	Pole	6	
Black Spruce	25	Sapling/Pole	6	
Northern White Cedar	30	Pole/Sapling	7	101

Canopy Species	Density	Avg. Height	Size
Conifers	Medium	5 - 10 feet	Sapling

16 4191 - Mixed Upland Deciduous with Conifer Sapling Well 27.0 35 81-110 N/A and of small, poor aspen, maple, cherry, and conifer brush, somewhat lower transitional ground. Scattered large w.p. overstory.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	29	Sapling	4	
Paper Birch	10	Sapling	4	
Quaking Aspen	31	Sapling	2	35
Balsam Fir	20	Sapling	5	
White Pine	10	Log/XLog	16	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
17	4112 - Maple, Beech, Cherry Association	Poletimber Well	153.9	73	111-140	N/A	Thinned in 2006.																																															
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20	4116 - Mixed N. Hardwood - Aspen	Sapling Well	13.0	13	Immature	N/A	Stand was cc in 2006. Mix of aspen, red maple, cherry.																																															
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21	4134 - Aspen, Spruce/Fir	Poletimber Well	20.4	42	111-140	N/A	Generally small diameter aspen w/ balsam. Could be candidate to chip with adjacent opening. Or leave for 10 years to put on dia.																																															
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22	4119 - Mixed Northern Hardwoods	Sawtimber Well	78.7	71	81-110	N/A	Stand was thinned in 2003. Mix of maples w/ some cherry, and yellow birch.																																															
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23	330 - Low-Density Trees	Nonstocked	20.2	0	Unspecified	No	Cut in 2016 slash piled for rabbit habitat. Fiborn Plots #45-115-11-01.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
24	4139 - Aspen, Mixed Deciduous	Poletimber Well	27.3	54	111-140	N/A	Variable stand of pole/sapling aspen, birch, cherry. Brush in some places, good poles in others. Infringing on opening, consider harvest.																																		
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25	6124 - Lowland Spruce-Fir	Poletimber Well	23.0	75	81-110	N/A	Stand is river corridor for Hendrie River .																																		
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26	629 - Mixed non-forested wetland	Nonstocked	7.7		Unspecified	No																																			
27	4134 - Aspen, Spruce/Fir	Poletimber Well	88.8	35	81-110	N/A	Stand is borderline pole size. Mix of aspen, w/some spruce, balsam, and birch mixed in spots. Some lower ground pockets. Check in 10 years.																																		
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28	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.6	61	81-110	N/A	Northern Hardwood stand, with good mix of sugar maple, beech, red maple, and conifer in spots. Access through private or across creek.																																		
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29	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.7	78	81-110	N/A	Stand is mix of red and sugar maple pole/logs. Thinned in 2007.																																		
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30	330 - Low-Density Trees	Nonstocked	34.1		Unspecified	No																													
31	4134 - Aspen, Spruce/Fir	Poletimber Well	43.6	37	111-140	N/A																													
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35	320 - Upland Shrub	Nonstocked	30.5		Unspecified	No																													
36	4130 - Aspen	Sapling Well	12.8	4	Immature	N/A	Stand was cut in 2016. Fiborn plots #45-115-11-01. Good looking aspen mix regeneration.																												
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37	629 - Mixed non-forested wetland	Nonstocked	21.1		Unspecified	No																													
38	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified	No																													
39	6120 - Lowland Cedar	Poletimber Well	17.4	99	141-170	N/A	Thick cedar stand mixed with spruce.																												
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41	4319 - Mixed Upland Forest	Poletimber Well	16.1	57	111-140	N/A	Stand of mature aspen, white and black spruce, birch, white pine, hemlock and red maple. Harvest, but leave all white pine & hemlock. There are scattered pot hole wetlands that need to be avoided. buffer edge along river corridor. Stand was sold and uncut (Fiborn Plots 345-115-11-01) due to no viable access at that time. Currently crossing restoration project is in process allowing for access.																																																						
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42	629 - Mixed non-forested wetland	Nonstocked	4.5		Unspecified	No																																																							
43	500 - Water	Nonstocked	10.1		Unspecified	No																																																							
44	4134 - Aspen, Spruce/Fir	Sapling Well	11.9	4	Immature	N/A	Stand was cut in 2016. Fiborn Plots #45-115-11-01.																																																						
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45	4130 - Aspen	Sapling Well	39.3	24	Immature	N/A	Aspen regen 15-20' ht. 2-3"dbh. Good looking aspen.																																																						
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46	4112 - Maple, Beech, Cherry Association	Poletimber Well	11.3	59	81-110	N/A	Stand of mixed hardwoods, small diameter and lower ba's. Check in 10 years to thin.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
47	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	18.8	35	141-170	N/A	Ready for 3rd row thin.																									
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48	4130 - Aspen	Sapling Well	13.0	7	Immature	N/A																										
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49	6122 - Black Spruce	Poletimber Medium	33.4	30	81-110	N/A	Wetland stand with just enough high ground to grow some trees. Standing water between high ground pockets.																									
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Northern White Cedar	20	Pole	6																													
50	500 - Water	Nonstocked	6.4		Unspecified	No																										
51	4134 - Aspen, Spruce/Fir	Poletimber Well	22.1	37	81-110	N/A	A3 15-25' tall small dia.																									
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52	629 - Mixed non-forested wetland	Nonstocked	4.9		Unspecified	No																										
53	42110 - Planted Red Pine	Poletimber Well	57.0	35	111-140	N/A	Red pine planted in 1984. 2-3 stick, 8"dbh. Third Row thinned in 2012. 45-120-11-01.																									
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Red Pine	95	Pole	7	35																												
54	629 - Mixed non-forested wetland	Nonstocked	2.5		Unspecified	No																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
55	6124 - Lowland Spruce-Fir	Poletimber Well	26.9	70	141-170	N/A	Spruce/ tamarack, lowland.																									
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56	629 - Mixed non-forested wetland	Nonstocked	30.5		Unspecified	No																										
57	500 - Water	Nonstocked	3.0		Unspecified	No																										
58	500 - Water	Nonstocked	2.7		Unspecified	No																										
59	500 - Water	Nonstocked	4.1		Unspecified	No																										
60	500 - Water	Nonstocked	1.9		Unspecified	No																										
61	320 - Upland Shrub	Nonstocked	11.2		Unspecified	No																										
62	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No																										
63	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.8	39	81-110	N/A																										
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Bigtooth Aspen	35	Pole/Sapling	6	39																												
Black Cherry	25	Sapling/Pole	5																													
64	629 - Mixed non-forested wetland	Nonstocked	0.8		Unspecified	No	Couple of lowland pockets within the larger opening stand.																									
65	500 - Water	Nonstocked	3.7		Unspecified	No																										
66	500 - Water	Nonstocked	1.8		Unspecified	No																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
67	6124 - Lowland Spruce-Fir	Poletimber Well	8.2	60	111-140	N/A	Lowland Mix stand in transition zone between upland and flood plain.																																				
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68	330 - Low-Density Trees	Nonstocked	12.1		Unspecified	No	Couple of lowland pockets within the larger opening stand.																																				
69	629 - Mixed non-forested wetland	Nonstocked	1.0		Unspecified	No																																					
70	330 - Low-Density Trees	Nonstocked	8.3		Unspecified	No																																					
71	6124 - Lowland Spruce-Fir	Poletimber Well	20.5	69	111-140	N/A	Wet spruce/ tamarack, lowland.																																				
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72	42210 - Natural Red Pine	Sawtimber Medium	7.2	73	51-80	N/A	Stand is ridge of opening, with residual overstory of spruce scattered r.p. Not much else. Do not treat this entry.																																				
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73	629 - Mixed non-forested wetland	Nonstocked	1.2		Unspecified	No																																					
74	4134 - Aspen, Spruce/Fir	Sapling Well	38.8	34	Immature	N/A	A3, patchy with some cherry brush in places																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
75	4130 - Aspen	Sapling Well	64.6	37	81-110	N/A																										
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Black Cherry	25	Sapling/Pole	4																													
76	310 - Herbaceous Openland	Nonstocked	2.8		Unspecified	No																										
77	629 - Mixed non-forested wetland	Nonstocked	17.1		Unspecified	No																										
78	500 - Water	Nonstocked	7.6		Unspecified	No																										
79	4199 - Other Mixed Upland Deciduous	Sapling Well	1.6	17	Immature	N/A	Stand was cut in 2001-2002. Regeneration is widely variable mix of cherry, aspen, and birch. Almost exclusively cherry brush in places.																									
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Quaking Aspen	30	Sapling	3																													
Paper Birch	15	Sapling	3																													
80	629 - Mixed non-forested wetland	Nonstocked	12.3		Unspecified	No																										
81	330 - Low-Density Trees	Nonstocked	2.9		Unspecified	No																										
82	629 - Mixed non-forested wetland	Nonstocked	10.3		Unspecified	No																										
83	629 - Mixed non-forested wetland	Nonstocked	0.8		Unspecified	No																										
84	500 - Water	Nonstocked	2.5		Unspecified	No																										
85	4134 - Aspen, Spruce/Fir	Sapling Well	45.5	24	Immature	N/A	A3 mixed with conifer. Weel stocked looks good.																									
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Balsam Fir	15	Sapling	2																													
Black Spruce	15	Sapling	3																													
86	629 - Mixed non-forested wetland	Nonstocked	1.4		Unspecified	No																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
87	330 - Low-Density Trees	Nonstocked	6.6		Unspecified	No																																		
88	42290 - Natural Mixed Pine	Sawtimber Well	8.7	69	81-110	N/A	Stand is mostly red with some white pine. Understory of birch, spruce/fir and some red maple. Most understory is very small. Check this stand in 10 years with adjacent stands for removal of understory to promote red and white regen release.																																	
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89	500 - Water	Nonstocked	13.5		Unspecified	No																																		
90	629 - Mixed non-forested wetland	Nonstocked	7.6		Unspecified	No																																		
91	500 - Water	Nonstocked	2.3		Unspecified	No																																		
92	500 - Water	Nonstocked	2.7		Unspecified	No																																		
93	6120 - Lowland Cedar	Poletimber Medium	16.2	100	51-80	N/A	Stand us small dia. black spruce in wetland. No commercial potential at this time.																																	
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94	629 - Mixed non-forested wetland	Nonstocked	2.9		Unspecified	No																																		
95	629 - Mixed non-forested wetland	Nonstocked	20.6		Unspecified	No																																		
96	500 - Water	Nonstocked	24.3		Unspecified	No																																		
98	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	13.7	57	81-110	N/A	Wet sparse cedar, tamarack, and black spruce. Some scattered birch around edges and in few high spots. No mgt.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
99	629 - Mixed non-forested wetland	Nonstocked	1.7		Unspecified	No																																					
100	6120 - Lowland Cedar	Poletimber Well	26.3	100	111-140	N/A	Lowland cedar/ black spruce with upland pockets of w.p. and birch. Relatively low b.a. with small dia and variable. Hold																																				
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101	500 - Water	Nonstocked	2.1		Unspecified	No																																					
103	500 - Water	Nonstocked	23.1		Unspecified	No																																					
105	6120 - Lowland Cedar	Poletimber Well	166.5	111	141-170	N/A	Large lowland stand of mixed conifer and some deciduous. Depending on where you stand is what variation of mix you get. Cedar is pretty well uniform throughout. Smaller, dense in places. Wet.																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Sapling</td> <td>5</td> <td></td> <td>Conifers</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Sapling</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Pole</td> <td>7</td> <td>111</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size	Quaking Aspen	15	Sapling	5		Conifers	Medium	Variable	Sapling	Balsam Poplar	10	Sapling	4						Northern White Cedar	60	Pole	7	111				
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Balsam Poplar	10	Sapling	4																																								
Northern White Cedar	60	Pole	7	111																																							
107	310 - Herbaceous Openland	Nonstocked	1.2		Unspecified	No																																					
108	500 - Water	Nonstocked	1.3		Unspecified	No																																					
109	629 - Mixed non-forested wetland	Nonstocked	4.6	0	Unspecified	No																																					
110	6122 - Black Spruce	Poletimber Medium	6.3	50	81-110	N/A																																					
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Black Spruce	85	Pole/Sapling	5	50																																							
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111	6120 - Lowland Cedar	Poletimber Well	65.9	95	141-170	N/A																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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113 4130 - Aspen Sapling Well 25.8 34 Immature N/A Access was previously through Wilwin property.... now Graymont owned.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	3	
Quaking Aspen	35	Sapling	3	34
Bigtooth Aspen	25	Sapling	3	
Balsam Fir	15	Sapling	3	
Black Cherry	15	Sapling	3	

114 629 - Mixed non-forested wetland Nonstocked 12.9 Unspecified No

115 6124 - Lowland Spruce-Fir Sapling Medium 24.7 45 51-80 N/A Stand is low ground. Increased area of dead timber. About 2/3 of stand is under water. Just a couple high ground pockets.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole	9	
Bigtooth Aspen	15	Pole	9	
Balsam Fir	15	Sapling/Pole	5	
Black Spruce	35	Sapling	5	45
Tamarack	25	Sapling	5	

116 629 - Mixed non-forested wetland Nonstocked 1.2 Unspecified No

117 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 26.0 38 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	8	
Quaking Aspen	30	Pole	8	38
Balsam Fir	20	Pole	6	
Black Spruce	20	Pole	6	
Northern White Cedar	20	Pole	7	101

Canopy Species	Density	Avg. Height	Size
Conifers	Medium	5 - 10 feet	Sapling

119 6124 - Lowland Spruce-Fir Poletimber Well 36.6 101 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	8	
Quaking Aspen	10	Pole/Sapling	6	
Balsam Fir	25	Pole	6	
Black Spruce	25	Sapling/Pole	6	
Northern White Cedar	30	Pole/Sapling	7	101

Canopy Species	Density	Avg. Height	Size
Conifers	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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122 6124 - Lowland Spruce-Fir Poletimber Well 6.3 45 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole	8		Conifers	Medium	5 - 10 feet	Sapling
Quaking Aspen	15	Pole/Sapling	6					
Balsam Fir	25	Pole/Sapling	5					
Black Spruce	30	Pole/Sapling	5	45				
Northern White Cedar	10	Pole/Sapling	7	101				

123 4319 - Mixed Upland Forest Poletimber Well 10.9 57 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole	9		Balsam Fir	Medium	5 - 10 feet	Sapling
Quaking Aspen	25	Pole	8	57	White Spruce	Medium	5 - 10 feet	Sapling
Balsam Fir	15	Pole	8					
White Spruce	15	Pole	9					
Black Spruce	10	Pole	8					

Stand of mature aspen, white and black spruce, birch, white pine, hemlock and red maple. Harvest, but leave all white pine & hemlock. There are scattered pot hole wetlands that need to be avoided. buffer edge along river corridor. Stand was sold and uncut (Fiborn Plots 345-115-11-01) due to no viable access at that time. Currently crossing restoration project is in process allowing for access.