



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45104

Entry Year 2020

Acreage: 1,923

County Mackinac

Management Area: Carp River Red Pine

Revision Date: 2018-07-23

Stand Examiner: Cory Luoto

Legal Description:

T43N-R6W Section 25, 26 & 36; Moran Township

Identified Planning Goals:

The compartment is located 5 miles north of Brevort. This compartment is in the Carp River Pine Management Area. This compartment is primarily red pine with some spruce, mixed swamp conifer and cedar stands, birch, aspen and mixed deciduous stands, jack pine stands and scattered grassy openings or upland shrub stands. Age class diversity within the red pine stands is a goal, so some of the red pine stands are proposed for final harvest and other stands are proposed to be thinned or held for 10 years. This will continue to increase the age class diversity of these red pine sites. Some of the younger red pine stands will be monitored for release.

Soil and topography:

The majority of the compartment is made up of Wallace sands with some Paquin sand, Croswell-Wainola Complex and Finch sand on the upland. There are a few ridges with most areas being flat to slightly rolling. The terrain slopes to South Branch Carp River with some sharp breaks down to the river. The lowland soil types are Markey-Spot-Finch Complex, Spot-Finch Complex and Markey and Carbondale mucks with a few islands of Pullup sand. Markey and Carbondale mucks, Histosols and Aquents and Entisols are found on lower areas near the South Branch Carp River and its tributaries.

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

The compartment is entirely in state ownership. The area surrounding the compartment is state land on the west, north, and south. Federal land borders the east edge of the compartment. There is one landlocked private forty, one half mile to the west of the compartment boundary.

Unique Natural Features:

There is a potential for rare, threatened or endangered plant and animal species and natural communities within this compartment.

Archeological, Historical, and Cultural Features:

None found during examination, but the Forest Service lands to the east have known sites.

Special Management Designations or Considerations:

Best management practices and Fisheries recommendations will be observed when harvesting the stand near the South Branch Carp River.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Compartment 104 is part of the Carp River Red Pine MA where featured wildlife species include blackburnian warbler, red-shouldered hawk, ruffed grouse, and snowshoe hare. The compartment is dominated by red pine plantations that are being managed on rotation. The South Branch of the Carp River and Ozark Creek (a tributary) both flow through it. Riparian areas will be buffered to protect these corridors. The western side of the compartment borders a larger cedar swamp. Lowland areas will be left to maintain cover for wildlife. Final harvests in stands will provide temporary openings that may be used by grassland species such as sandhill cranes and sharp-tailed grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and minor peat and muck. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subcropps below the glacial drift. The Engadine is quarried for stone/limestone in the area. Gravel pits are not located in the area and potential appears to be limited. There is no current economic oil and gas production in the UP.

Vehicle Access:

The Carp River Truck Trail, East Boundary and the Rabbit Road are all state gravel to good dirt roads which run through this compartment. The East Boundary has 2 stream crossings which have been removed years ago therefore it is not a through road. The roads running to the east out of the compartment continue onto the Forest Service lands. The Forest Service road just to the east of the compartment in Section 30 has a load restricted bridge over the Carp River. The bridge restriction does not allow for loaded log truck traffic to M-123. There are many poor dirt roads within the fuel breaks which can be driven down with a two-wheel drive vehicle.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

Within this compartment is the Brevort-Trout Lake Motorcycle trail. The Carp River Truck Trail is a groomed snowmobile trail in the winter. The roads within this compartment are used by ORV's. Other recreational uses of the area are for hunting, trapping, fishing on South Branch Carp River, berry picking and sightseers.

Fire Protection:

This compartment has a higher fire potential, fuel breaks are maintained between adjacent pine stands with good access roads on most of the breaks. The age class diversity within the compartment does not allow continuous height crown cover. Therefore, this assists with fire fighting tactics if a start occurs within this area. Several fires have occurred within the Carp River Truck Trail area within the last twenty years. The Carp River Truck Trail area is one of the furthest points in west Mackinac County from the Naubinway Field Office for fire response.

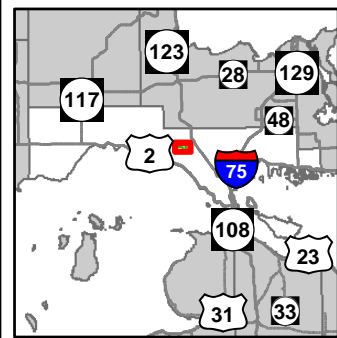
Additional Compartment Information:**The following reports from the Inventory are attached:**

- 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:

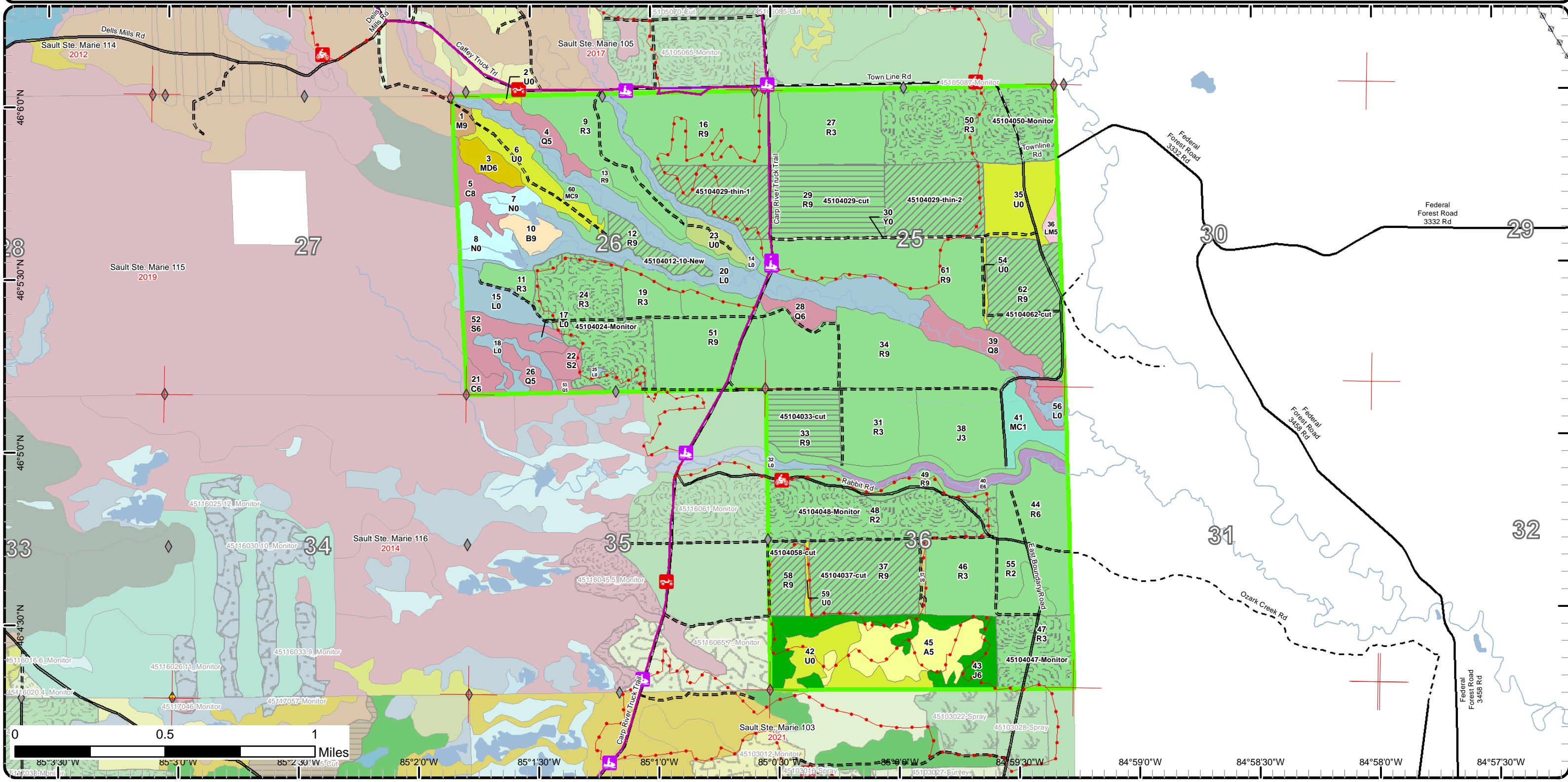
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

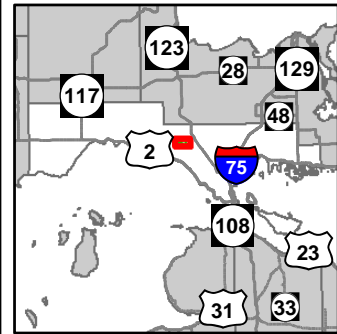


Compartment: 104
 T43N, R06W, Sec: 25, 26, 36
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Carp River Red Pine
 YOE: 2020
 Acres: 1,923 GIS Calculated
 Examiner: Cory Luoto
 Map Revised: 12/7/2018
 Map Phase: Post Review

- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
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- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Monitoring
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil
- Lakes

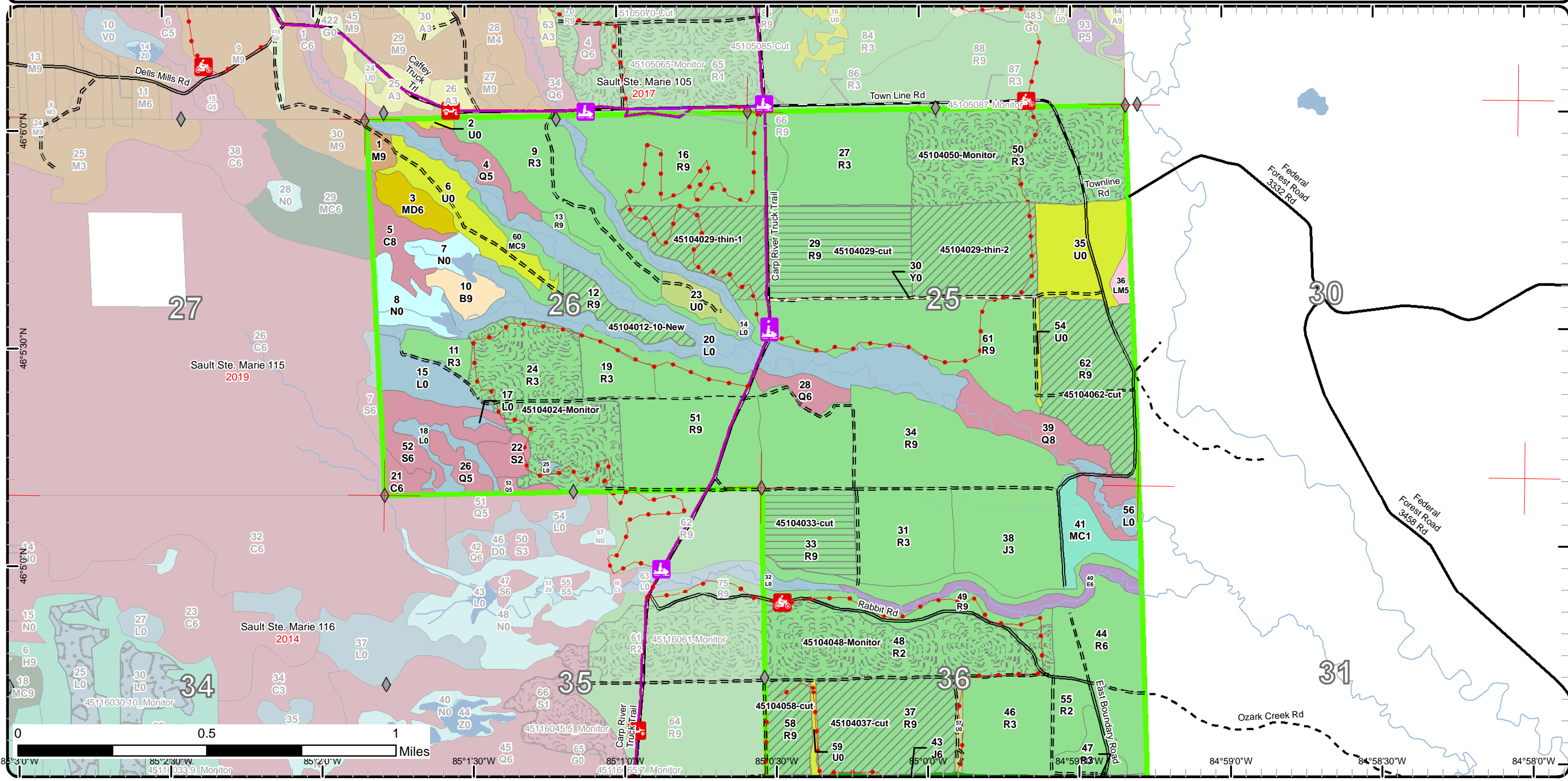


Cover Type & Treatments Map



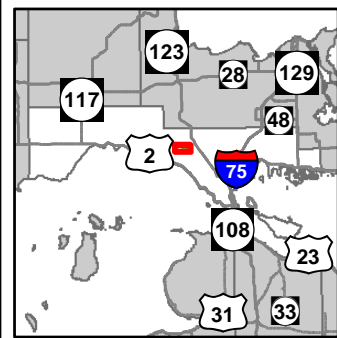
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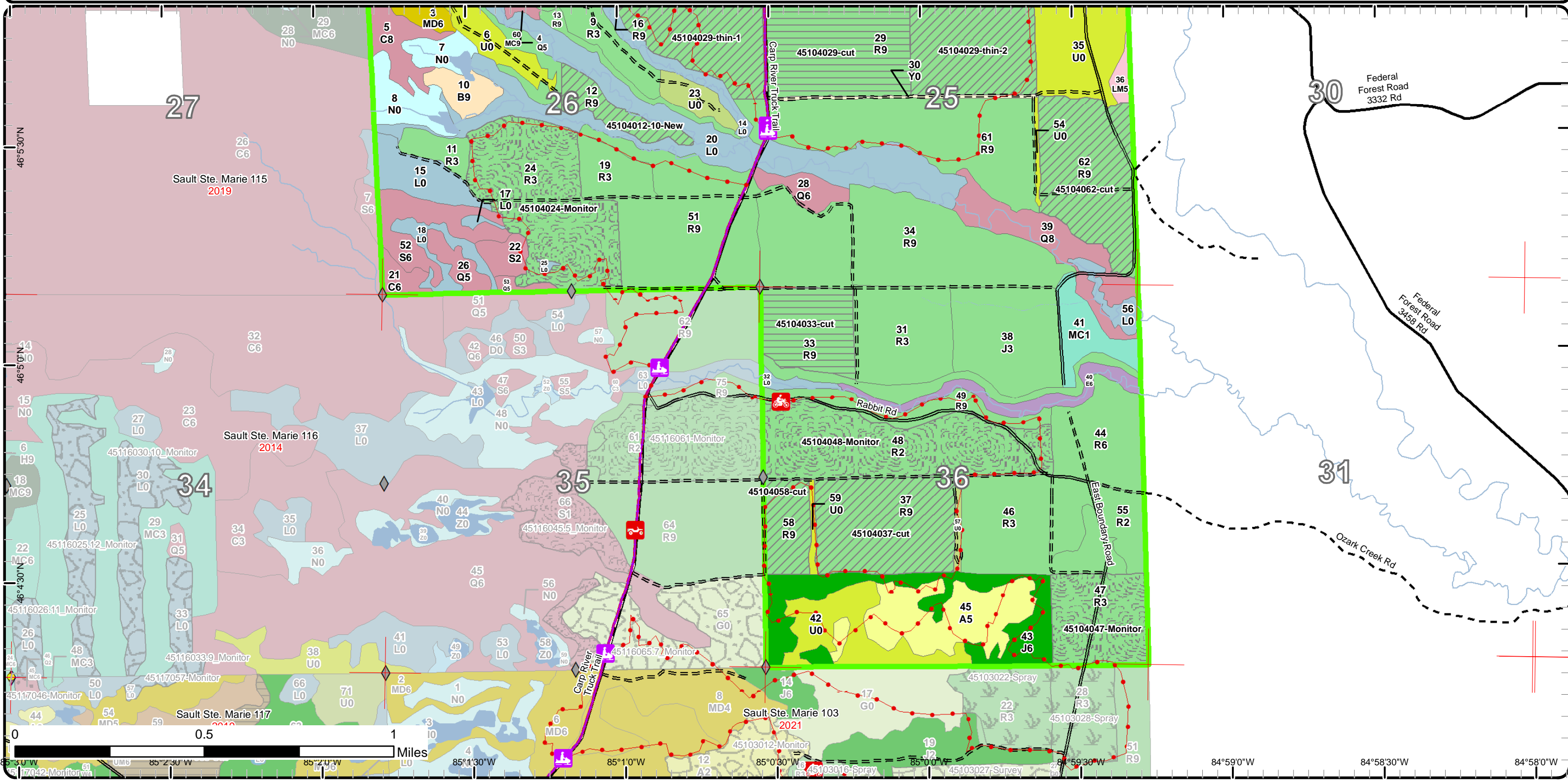


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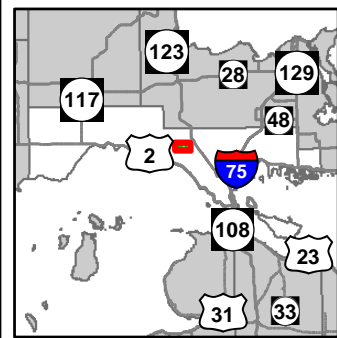


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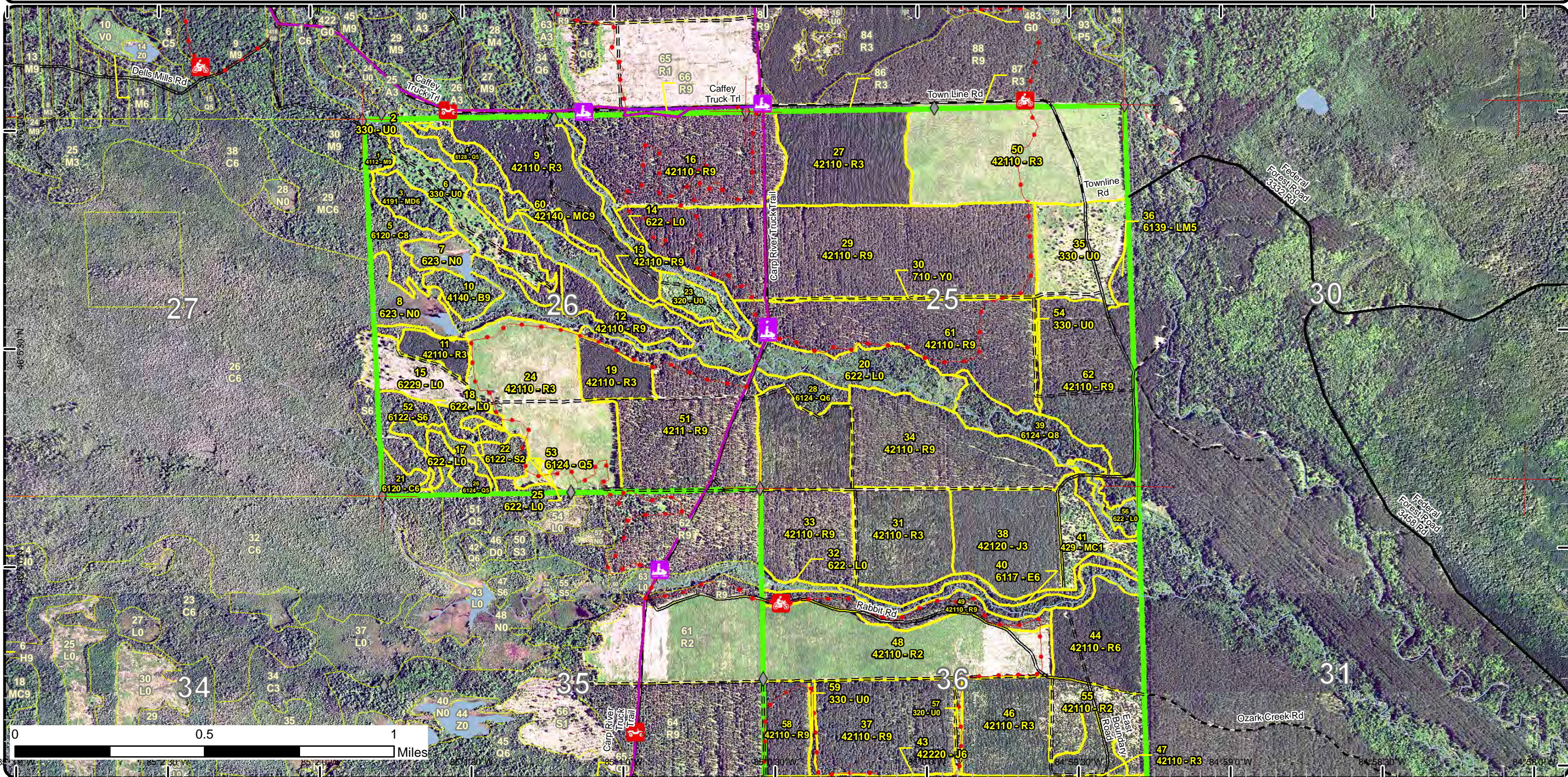


Stand Boundary Map

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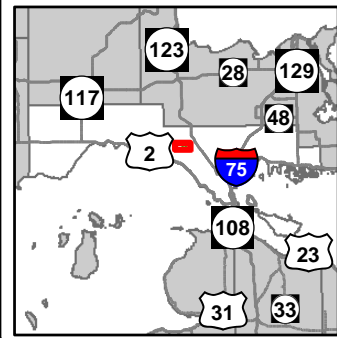


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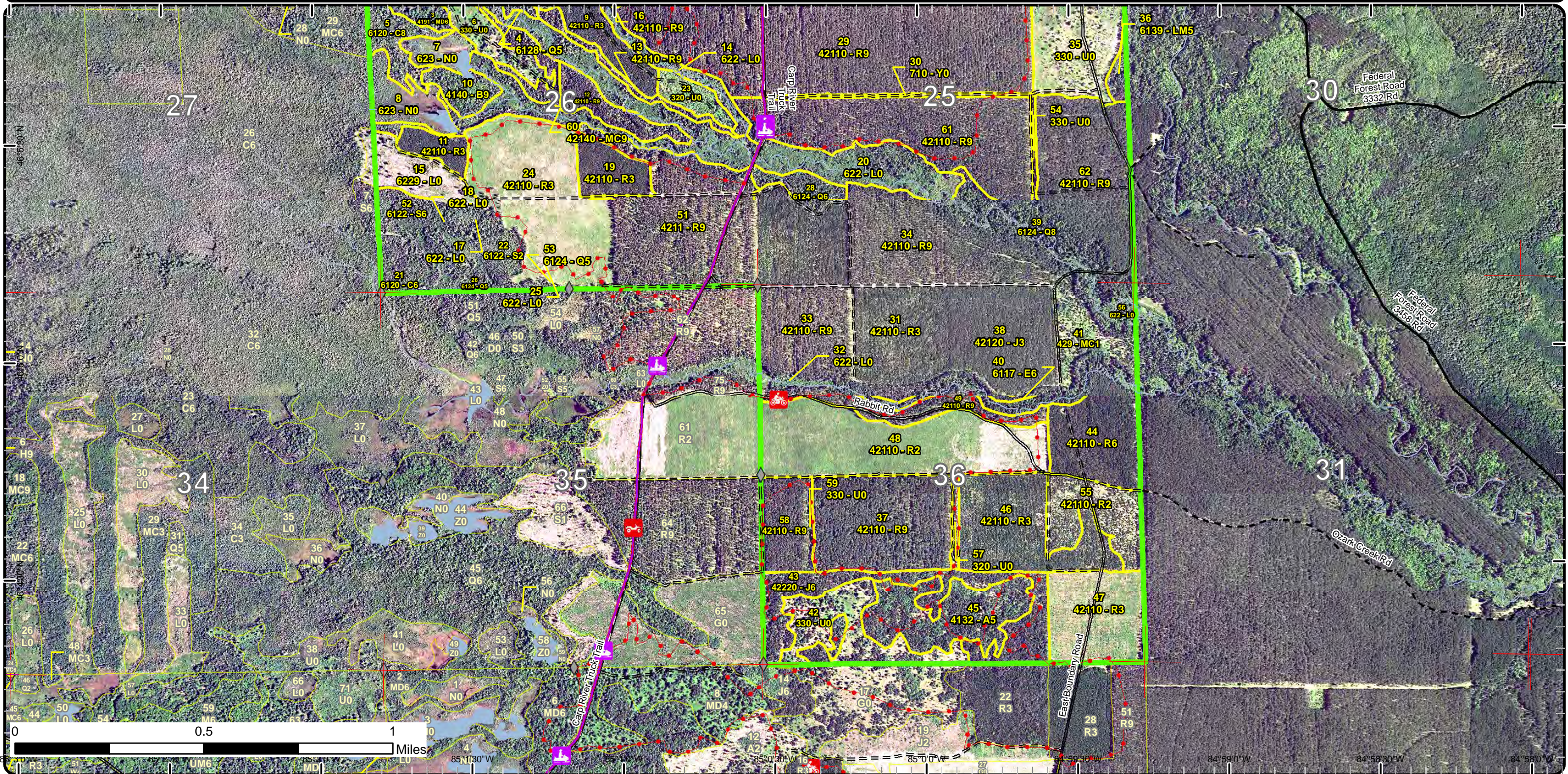


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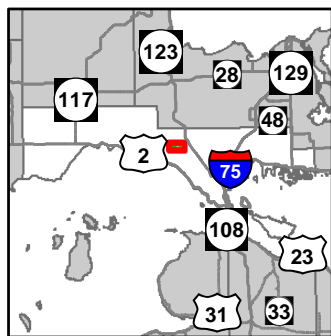


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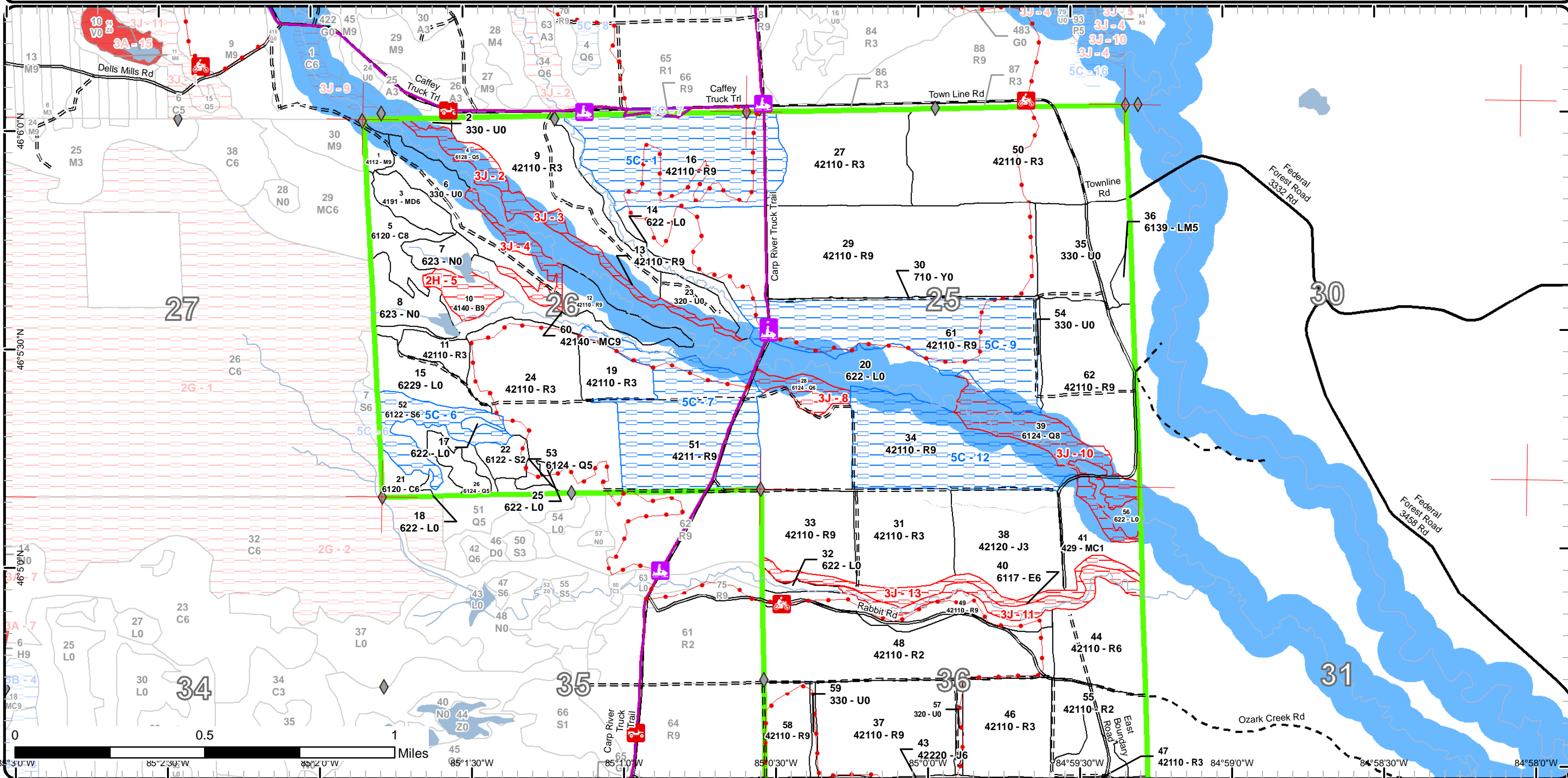


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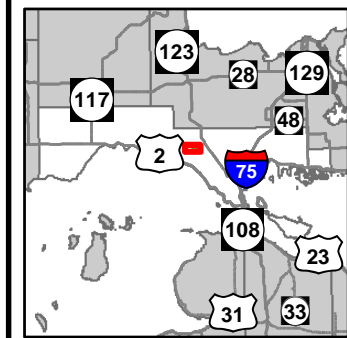


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 - Unavailable
 - Ecological Reference Areas
 - Wild & Scenic Streams (USFS Lands)
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
- 5C: Delay treatment for age/size class diversity or exceptional site quality
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 3J: Water quality / BMPs (stream, river, or lake)

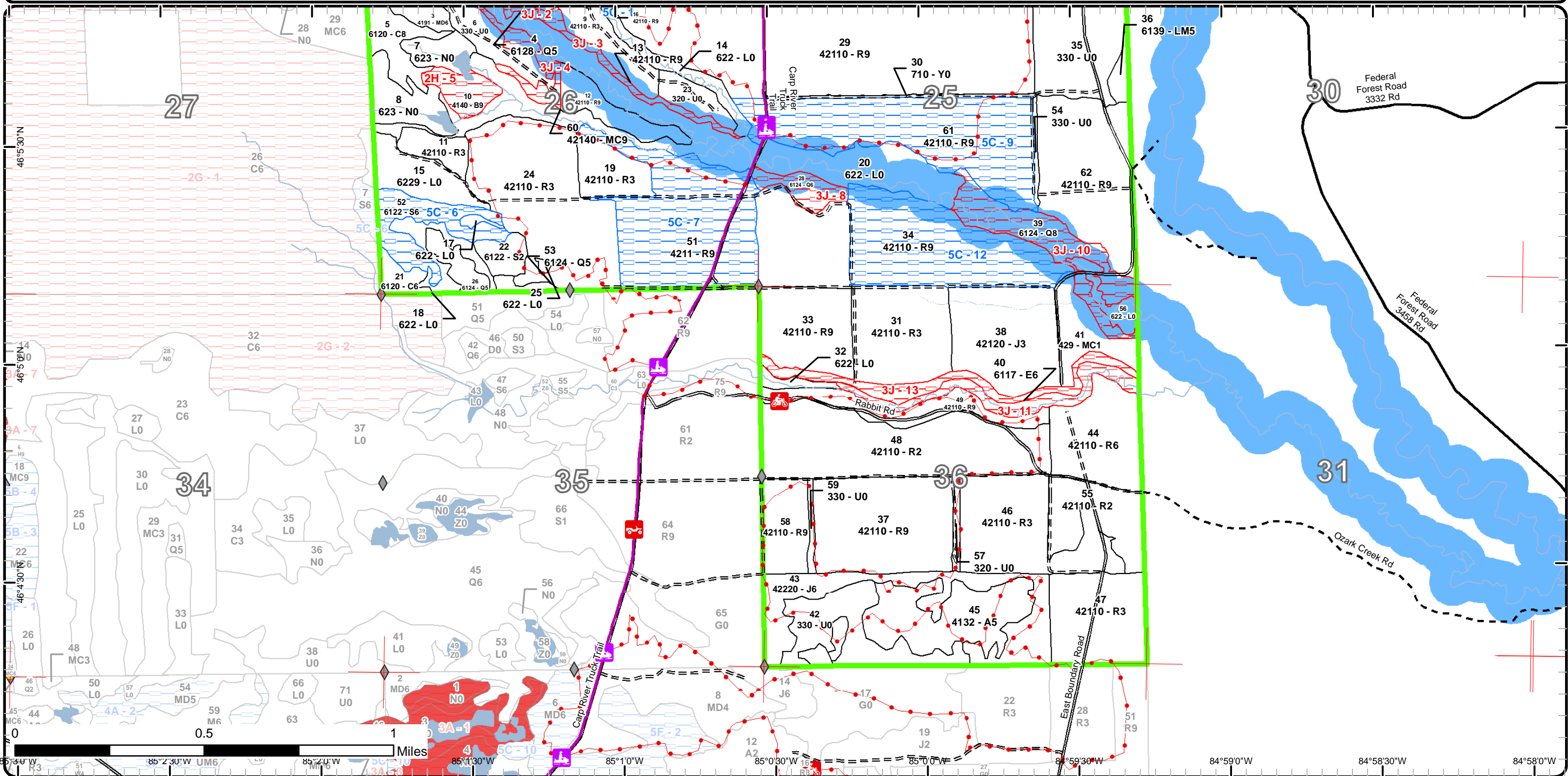


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Report 1 – Total Acres by Cover Type and Age Class



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	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	43
Cedar	0	0	0	0	0	0	0	0	0	0	0	6	0	15	0	0	0	0	21
Jack Pine	0	0	0	47	0	46	0	0	0	0	0	0	0	0	0	0	0	0	93
Low-Density Trees	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Lowland Conifers	0	0	0	0	0	0	0	0	11	0	21	31	0	0	0	0	0	0	62
Lowland Deciduous	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	16
Lowland Mixed Forest	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Shrub	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150
Lowland Spruce/Fir	0	0	0	0	7	0	0	0	0	0	0	22	0	0	0	0	0	0	29
Marsh	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Paper Birch	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Red Pine	0	290	0	287	37	0	0	0	52	641	0	0	0	0	0	0	0	0	1306
Sand, Soil	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	292	290	0	352	48	101	0	0	63	678	26	59	0	15	0	0	0	0	1921



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 104
Total Compartment Acres: 1,923

Commercial Harvest - 339
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
Red Pine		94	0	0	0	0	245	0	0	0	339
	Total	94	0	0	0	0	245	0	0	0	339

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		339	0	0	0	0	290	0	0	0	629
Next Step		0	94	94	0	94	384	282	0	0	948
	Total	339	94	94	0	94	384	572	0	0	1577



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
12	45104012-10- New	14.7	42110 - Planted Red Pine	Sawtimber Well	81	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

24	45104024- Monitor	78.4	42110 - Planted Red Pine	Sapling Well	2	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor for release.

Specs:

Next Step Pesticide, (Inactive)Aerial
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

29	45104029-cut	60.2	42110 - Planted Red Pine	Sawtimber Well	81	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut stand with retention of live trees on the edges of the treatment. Standing trees within the stand after harvest create a hazard for aerial spraying of the stand for release and pest management so all retention must be along the edges.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Herbicide
Treatments: Use; Pesticide, (Inactive)Aerial

Acceptable Red Pine
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

29	45104029-thin- 1	40.1	42110 - Planted Red Pine	Sawtimber Well	81	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019



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
29	45104029-thin-2	51.1	42110 - Planted Red Pine	Sawtimber Well	81	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

33	45104033-cut	33.8	42110 - Planted Red Pine	Sawtimber Well	79	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut stand with retention of live trees on the edges of the treatment. Standing trees within the stand after harvest create a hazard for aerial

Specs: spraying of the stand for release and pest management so all retention must be along the edges.

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Herbicide

Treatments: Use; Pesticide, (Inactive)Aerial

Acceptable Red Pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

37	45104037-cut	58.9	42110 - Planted Red Pine	Sawtimber Well	81	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

47	45104047-Monitor	39.2	42110 - Planted Red Pine	Sapling Well	6	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor if a release spray is needed.

Specs:

Next Step Pesticide, (Inactive)Aerial

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



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
48	45104048-Monitor	78.6	42110 - Planted Red Pine	Sapling Medium	4	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Monitor for herbicide use.
Specs:

Next Step Pesticide, (Inactive)Aerial
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

50	45104050-Monitor	93.6	42110 - Planted Red Pine	Sapling Well	4	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Monitor for release.
Specs:

Next Step Pesticide, (Inactive)Aerial
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

58	45104058-cut	19.5	42110 - Planted Red Pine	Sawtimber Well	81	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

62	45104062-cut	61.1	42110 - Planted Red Pine	Sawtimber Well	81	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 629.2**

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 104

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2H	3J
		With Condition	Not Available				
43	43	0	0	Aspen			
21	21	0	0	Cedar			
93	93	0	0	Jack Pine			
100	100	0	0	Low-Density Trees			
63	10	0	53	Lowland Conifers			53
16	0	0	16	Lowland Deciduous			16
4	4	0	0	Lowland Mixed Forest			
151	151	0	0	Lowland Shrub			0
30	7	22	0	Lowland Spruce/Fir	22		
26	26	0	0	Marsh			
12	12	0	0	Mixed Upland Deciduous			
5	5	0	0	Northern Hardwood			
10	0	0	10	Paper Birch		10	
10	0	0	10	Planted Mixed Pines			10
1306	974	307	25	Red Pine	307		25
4	4	0	0	Sand, Soil			
18	18	0	0	Upland Conifers			
12	12	0	0	Upland Shrub			
1,923	1,479	329	115	Total Forested Acres	329	10	105
	77%	17%	6%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	80	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 104

Year of Entry: 2020

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 104

Year of Entry: 2020

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	83	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	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	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.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.6	99	81-110	Harvested on Pounding Hammer Sale in 2003.
3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.7	47	51-80	Opening which has filled in with a variety of species. There is some nice white pine regeneration.
4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	12.1	96	Unspecified	Along the south branch of the Carp River. Stand grades into the tag alder bottom of the River corridor. Mortality to all species and have lots of tip ups. A few yellow birch are present on the site. There are many open areas with mostly tag alder. This is a riparian area that should be left to buffer the Carp River.
5	6120 - Lowland Cedar	Sawtimber Medium	15.1	122	51-80	Part of the stand is flooded out from the beaver pond. Lots of dead trees in areas. Looks like the head waters for the stream is in this stand or stream flows thru the stand. Difficult access and barely productive.
9	42110 - Planted Red Pine	Sapling Well	51.3	20	Immature	The stand is a 1998 plantation which is 20'+ tall with good growth. The east half of the stand was burned, trenched and hand planted. The west half was an opening which was trenched and hand planted.
10	4140 - Other Upland Deciduous	Sawtimber Well	10.3	86	111-140	Island with a little higher ground but still mostly low ground. It is surrounded by water and cedar.
11	42110 - Planted Red Pine	Sapling Well	9.1	21	Immature	15' - 20' tall trees in 1997 plantation. Site was burned, trenched and hand planted. Few big tooth aspen and jack pine scattered in the stand.
12	42110 - Planted Red Pine	Sawtimber Well	14.7	81	171-200	Nice stand of red pine and jack pine - 1937 plantation.
13	42110 - Planted Red Pine	Sawtimber Well	7.6	81	111-140	The stand was left as a buffer for the south branch of Carp River.
16	42110 - Planted Red Pine	Sawtimber Well	79.5	81	111-140	Tributary to the south branch of Carp River is on the west side of the stand. Some balsam fir regen scattered in stand with more on west side along with a few red maple and beech. 1937 plantation. Stand was thinned in 2014 as part of Pinus Pandemonious sale #45-106-10-01.
19	42110 - Planted Red Pine	Sapling Well	15.8	20	Immature	1998 plantation. Trees are 15'-20' tall filling in nicely. Few aspen and cherry filling in.
21	6120 - Lowland Cedar	Poletimber Well	6.1	105	141-170	Some blowdown and paper birch is dying out in areas. Part of a larger stand in comp 115 stand 23. Large cedar swamp to west.
22	6122 - Black Spruce	Sapling Medium	7.3	38	1-50	Filling in bog with black spruce of 5' to 25' tall. Few taller and healthier trees.
24	42110 - Planted Red Pine	Sapling Well	78.4	2	Immature	Stand was clear cut in 2014 as part of Pinus Pandemonious sale #45-106-10-01. FTP #C44-589. Planted in 2015. It was replanted in 2017.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6124 - Lowland Spruce-Fir	Poletimber Medium	7.7	73	51-80	Lowland conifer stand that is mostly black spruce and jack pine. Some scattered white pine. Lots of leatherleaf covers the ground. Stand varies from areas of poles to areas of saplings.
27	42110 - Planted Red Pine	Sapling Well	55.2	20	Immature	1998 plantation. 10-20' tall trees which are good and healthy.
28	6124 - Lowland Spruce-Fir	Poletimber Well	9.4	94	141-170	Jack pine and red pine along edge. Steep hill down to the South Branch of Carp River.
29	42110 - Planted Red Pine	Sawtimber Well	151.4	81	141-170	Planted in 1937.
31	42110 - Planted Red Pine	Sapling Well	78.6	20	Immature	Still closing canopy with most trees in the 15'- 20'. 1998 plantation. Site was burned, trenched and hand planted.
33	42110 - Planted Red Pine	Sawtimber Well	51.9	79	141-170	1939 plantation.
34	42110 - Planted Red Pine	Sawtimber Well	66.8	83	111-140	1935 Plantation. Small ridge runs from east to west in about the center of the stand. Saw a few white birch within the stand. Stand was thinned in 2014 as part of Pinus Pandemonious sale #45-106-10-01.
36	6139 - Mixed Lowland Forest	Poletimber Medium	4.2	30	51-80	Slope down to the Carp River.
37	42110 - Planted Red Pine	Sawtimber Well	58.9	81	141-170	1937 plantation.
38	42120 - Planted Jack Pine	Sapling Well	47.3	20	Immature	Stand looks real good with trees 10-15' tall. 1998 plantation
39	6124 - Lowland Spruce-Fir	Sawtimber Medium	31.1	104	111-140	Very steep banks down to South branch of the Carp River. Stand is within the river corridor.
40	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	16.5	86	51-80	
41	429 - Mixed Upland Conifers	Sapling Poor	17.8	20	Immature	1998 harvest. Stand to come back to grassy opening, aspen and jack pine. Some open areas with rest was filling in.
43	42220 - Natural Jack Pine	Poletimber Well	45.6	48	51-80	Old opening which has filled in over time.
44	42110 - Planted Red Pine	Poletimber Well	36.5	34	111-140	20-30' tall stand.
45	4132 - Aspen, Jack Pine	Poletimber Medium	43.0	42	51-80	Opening which has filled in over time with conifer areas with aspen all throughout the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	42110 - Planted Red Pine	Sapling Well	50.1	20	Immature	Plantation is 10'-15' tall.
47	42110 - Planted Red Pine	Sapling Well	39.2	6	Immature	
48	42110 - Planted Red Pine	Sapling Medium	78.6	4	Immature	Stand has had 3rd year regen check done. Sparse areas were replanted in 2017. Monitor for release and disease.
49	42110 - Planted Red Pine	Sawtimber Well	20.8	81	111-140	1937 plantation. Thinned in 2015 "Rabbit Pine".
50	42110 - Planted Red Pine	Sapling Well	93.6	4	Immature	Clear Cut in 2013. Planted in 2014. 3rd year regen check done. Some gaps but overall pretty good. Release sprayed in 2017.
51	4211 - Planted Red Pine	Sawtimber Well	77.6	82	111-140	Stand was thinned in 2014 as part of Pinus Pandemonious sale #45-106-10-01. Was originally part of stand 24 which was split in half with the west side clear cut.
52	6122 - Black Spruce	Poletimber Well	22.2	107	111-140	North half of this stand was cut in 2011 as part of Wandering Plott Mix sale #45-116-10-01. The cut area is now stand 15. Lots of blowdown in areas of the stand. Wet in areas.
53	6124 - Lowland Spruce-Fir	Poletimber Medium	2.8	73	51-80	Lowland conifer stand that is mostly black spruce and jack pine. Some scattered white pine. Lots of leatherleaf covers the ground. Stand varies from areas of poles to areas of saplings.
55	42110 - Planted Red Pine	Sapling Medium	26.7	20	Immature	Plantation is 10'-15' tall.
58	42110 - Planted Red Pine	Sawtimber Well	19.5	81	141-170	1937 plantation.
60	42140 - Planted Mixed Pine	Sawtimber Well	10.4	81	111-140	This is primarily a heavy conifer stand along the Carp River. Should be left for a riparian area.
61	42110 - Planted Red Pine	Sawtimber Well	83.2	81	111-140	Stand was thinned in 2014 as part of Pinus Pandemonious sale #45-106-10-01.
62	42110 - Planted Red Pine	Sawtimber Well	61.1	81	171-200	Stand was planted in 1937.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	330 - Low-Density Trees	1.7	No	
6	330 - Low-Density Trees	26.3	No	
7	623 - Emergent Wetland	9.3	No	
8	623 - Emergent Wetland	16.4	No	
14	622 - Lowland Shrub	14.7	No	
15	6229 - Mixed lowland shrub	18.1		Stand was clear cut in 2014 as part of Wandering Plott Mix sale #45-116-10-01. South half of stand (now stand 52) was not cut.
17	622 - Lowland Shrub	1.3	No	
18	622 - Lowland Shrub	9.9	No	
20	622 - Lowland Shrub	95.2	No	
23	320 - Upland Shrub	9.3	No	Stand was to convert to grassy opening fro red pine plantation. The stand is filling in with cherry, jack pine and white spruce. If it is to be a grassy opening and not an upland brush stand it will need to be cut with a brush hog.
25	622 - Lowland Shrub	0.8	No	
30	710 - Sand, Soil	3.8	No	
32	622 - Lowland Shrub	3.5	No	
35	330 - Low-Density Trees	36.9	Yes	Low density tree stand that was cut along with stand 36 as part of Wandering Plott Mix in 2014 sale #45-116-10-01.
42	330 - Low-Density Trees	30.6	No	
54	330 - Low-Density Trees	2.1	No	
56	622 - Lowland Shrub	6.8	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
57	320 - Upland Shrub	2.9	No	
59	330 - Low-Density Trees	2.5		