



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45103

Entry Year 2021

Acreage: 1,923

County Mackinac

Management Area: Carp River Red Pine

Revision Date: 2019-07-29

Stand Examiner: Andrew Krugh

Legal Description:

T42N R6W Sections 1, 2 and 12; Moran Township

Identified Planning Goals:

This compartment is located approximately 3 miles northeast of Brevort. It is within the Carp River Red Pine Management Area. Plans for this Management Area are currently being written. The area includes openings and upland brush that need maintenance before they are lost. Section 1 contains intensively managed red pine stands ranging in age. A Michigan Natural Features Inventory identified site includes a poor fen located in the northwest corner of Section 2. Stands adjacent to the fen will be used as a buffer to maintain the integrity of the site. Several seasonal drainages cross the compartment as they feed into Silver Creek. Hardwood stands need regular treatment to promote health and growth. An ORV trailhead is located at Goodereau Road and East Boundary Road intersection. ORV and snowmobile trails pass through the compartment.

Soil and topography:

The area is level to undulating, with seasonal drainages cutting across the compartment. Upland areas include Wallace sand and Paquin sand. Areas along the drainages include Spot-Finch complex and Spot Muck.

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

State lands adjoin to the north, west and south. Hiawatha National Forest borders the east side.

Unique Natural Features:

MNFI has identified a poor fen in this area which will need to be protected. There are potential for other rare, threatened and endangered species of plants and animals within the compartment and adjacent to it.

Archeological, Historical, and Cultural Features:

There are possible sites within the compartment but none were found when doing the inventory.

Special Management Designations or Considerations:

Buffers are left along the poor fen, MNFI identified site, to maintain the integrity of the site. ORV Trails must be signed and kept clean while logging operations are ongoing. Access is limited during winter months in some areas due to the snowmobile trails.

Watershed and Fisheries Considerations:

This compartment contains several unnamed waterbodies in the northwest region. 100' plus 5' per 1% increase in slope; buffers are recommended to protect shoreland areas adjacent to these unnamed waterbodies in accordance with Best Management Practices (specifically stands 1, 2, 4, 6, and 7). Silver Creek and an unnamed stream which serves as tributary to Silver Creek are also located within this compartment. Silver Creek and the unnamed stream are designated Type 1 trout streams less than 50' width which serve as tributaries to Brevoort Lake (Boedne Bay). A 300' buffer is recommended for Silver Creek and the unnamed stream 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 (specifically stands 3 and 11).

Wildlife Habitat Considerations:

This compartment is part of the Carp River Red Pine MA where featured wildlife species include blackburnian warbler, red-shouldered hawk, ruffed grouse, and snowshoe hare. Sandy soils dominate, and support the aspen, mixed stands that include white pine as well as spruce and fir, northern hardwood, and planted red pine stands present. Most stands in all types have been actively managed through the years. A wetland ERA is located in the northwest corner of the compartment, and some other wetland areas exist as well associated with Silver Creek. An opening located near the middle of the compartment has been maintained through different practices, the most recent one being a prescribed burn in 2019. This is one of several larger openings across the landscape in the general area.

Wildlife objectives including maintaining species and structural diversity in northern hardwood stands, retaining openings, protecting wetlands, and providing age class diversity between early successional species. In deciduous stands, all hemlock will be retained to benefit warblers and other species, and some large wolfy trees will be left in the hardwood stand to provide nesting and refuge trees for species like hawks. One mixed stand will be treated to maintain the early successional habitat for ruffed grouse and hare. Other aspen and mixed stands will offer more advanced ages for eventual roosting and budding. The wetland ERA will be protected and buffered during harvest activities; all harvesting activity will remain on the east side of the road. Other wetlands and streams must be buffered appropriately. Due to the proximity of openings, both temporary and more permanent, in this compartment and others nearby, some openings will be maintained where practical to offer both forest openings for species like deer and bear as well as habitat to species like sandhill cranes and sharp-tailed grouse.

Mineral Resource and Development Concerns and/or Restrictions

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

Vehicle Access:

Access is from three DNR roads: Carp River Truck Trail, East Boundary Road, and Goodereau Road. All three roads are mainly sand and gravel roads and need regular maintenance to keep in shape. Carp River Truck Trail has had some maintenance by DNR staff, as well as through timber sale deducts, which included gravelling through the fen area. It is a high priority to keep in good shape. East Boundary Road has a washout across the drainage in Section 12. High quality USFS gravel roads, Borland and Burma Grade, are located just east of our boundary in Section 12.

Survey Needs:

None needed

Recreational Facilities and Opportunities:

Brevort –Trout Lake Motorcycle trailhead parking lot is located at East Boundary Road and Goodereau Road intersection. Brevort – Trout Lake Motorcycle trail winds through the entire compartment. Snowmobile trail # 2 follows Goodereau Road and Carp River Truck Trail.

Fire Protection:

This compartment falls within a High fire danger area. Extra fire units will be dispatched to a fire here if fire danger warrants. The pine component of the compartment poses higher fire intensity potential in this compartment and adjacent to it.

Additional Compartment Information:

The following reports from the Inventory are attached:

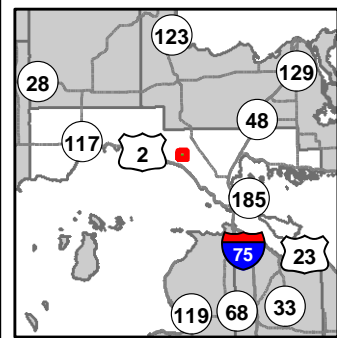
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

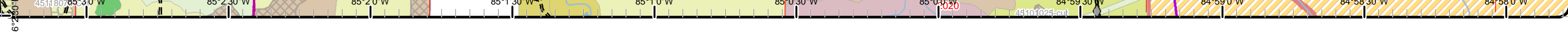
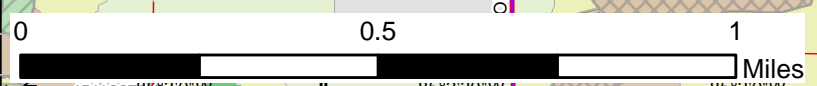
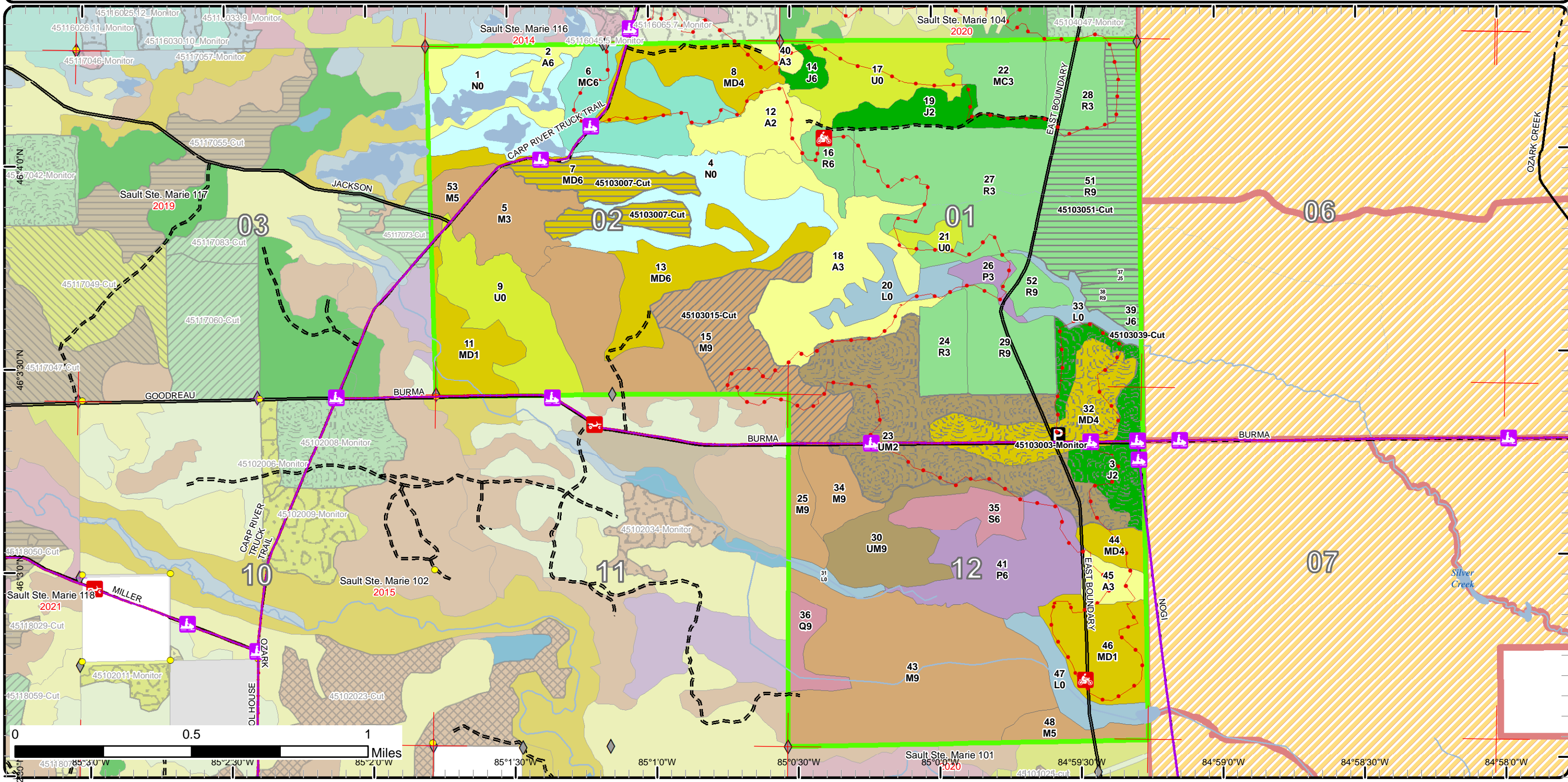
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 103
 T42N, R06W, Sec. 1, 2, 12
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Carp River Red Pine
 YOE: 2021
 Acres: 1,923 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 8/9/2019
 Map Phase: Web Post

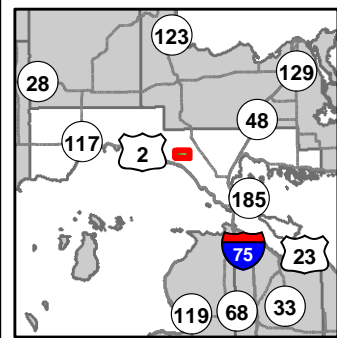


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- 🏍️ Motorcycle Trails (DNR License)
- 🛵 ORV Routes
- 🛷 Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- P Parking Lot
- 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
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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- 330 - Low Density Trees
- 622 - Lowland Shrub
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- Lakes

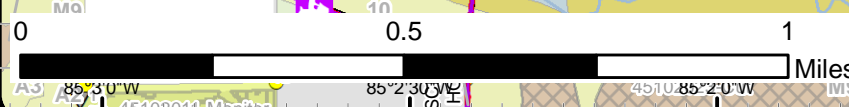
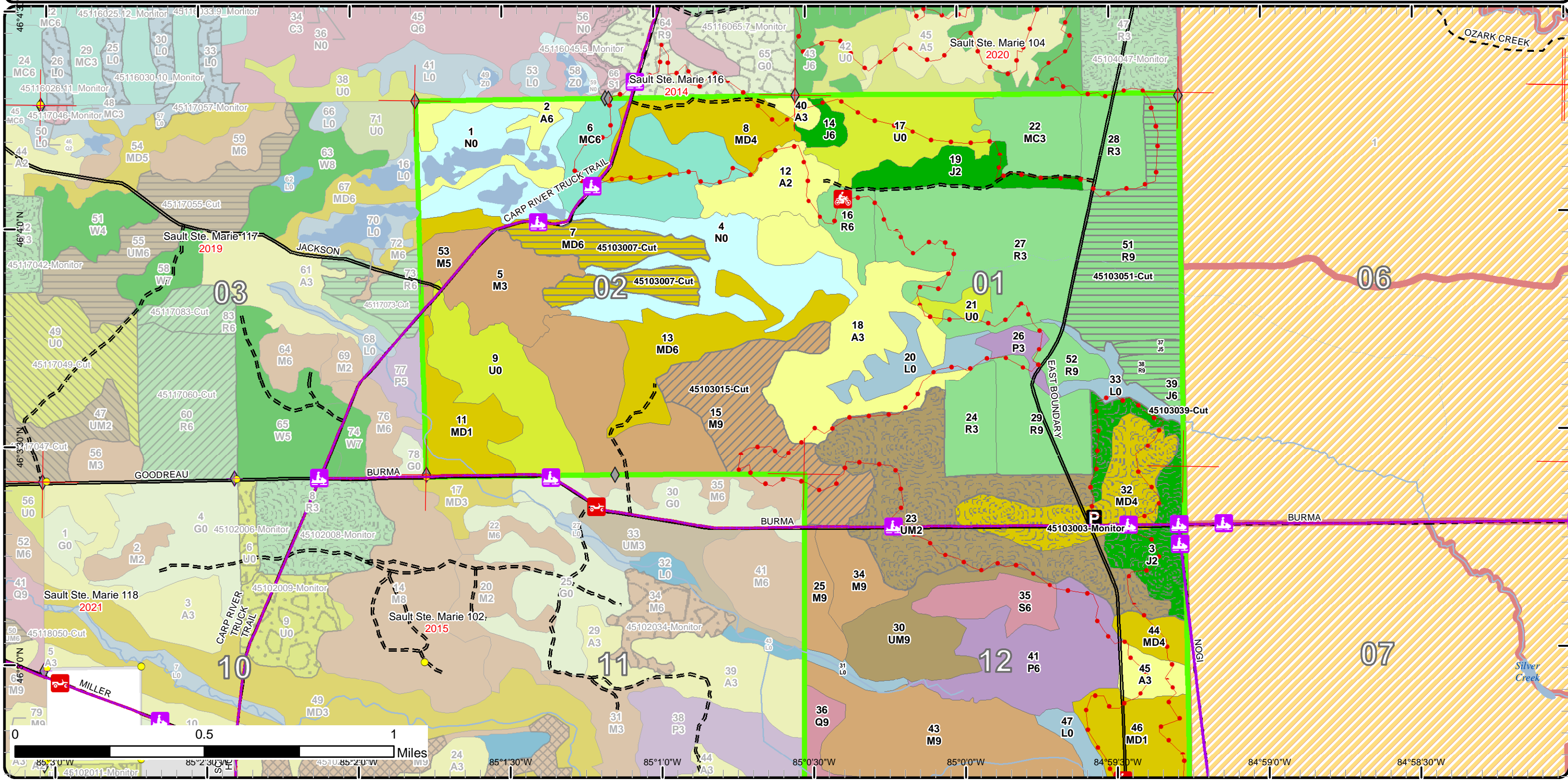


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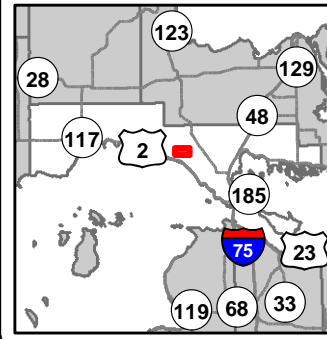


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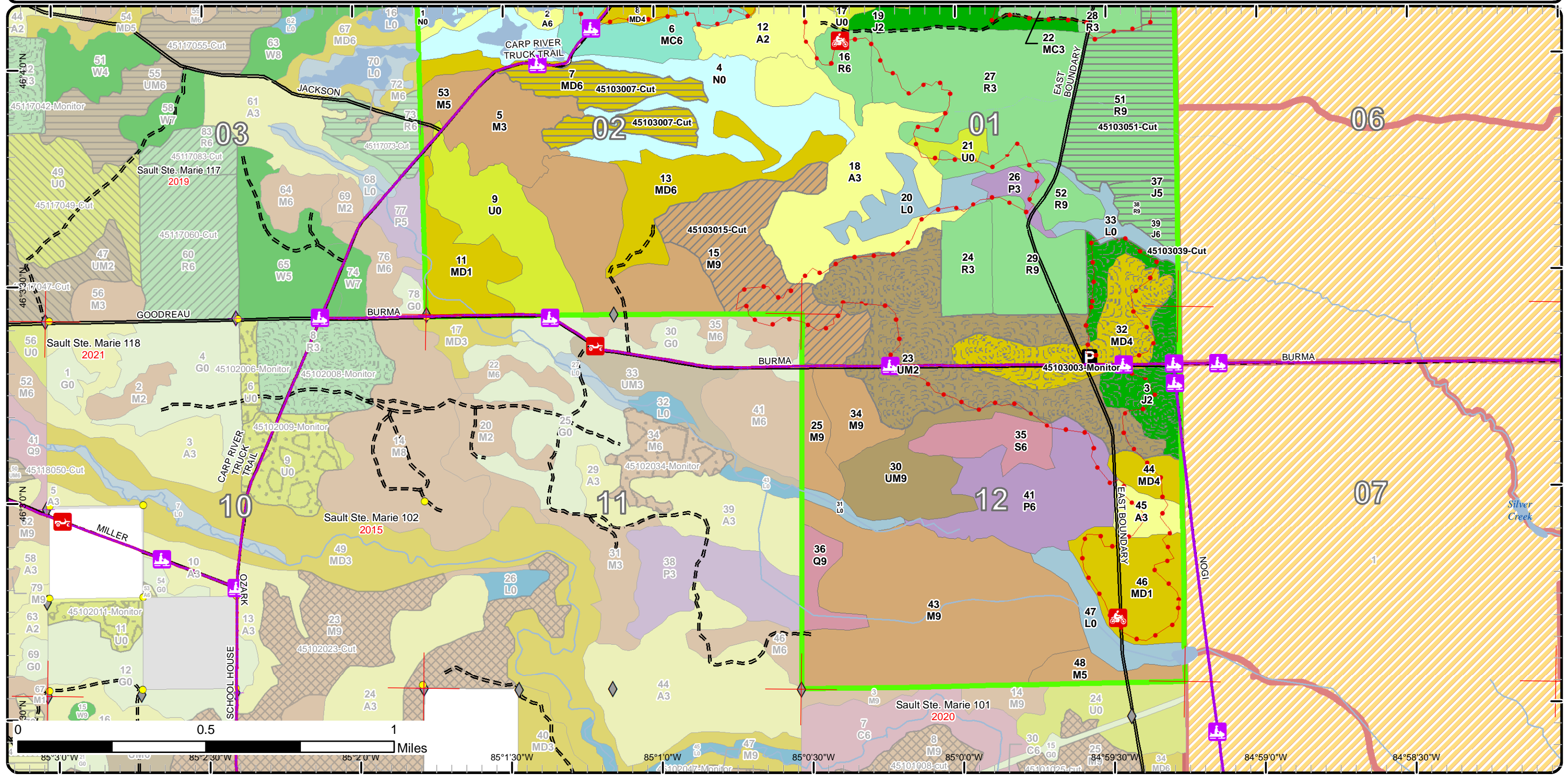


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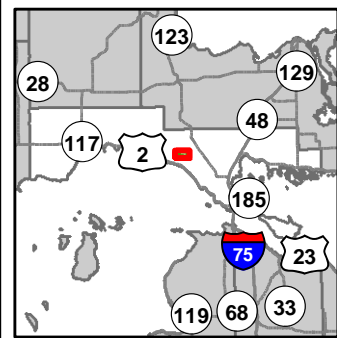


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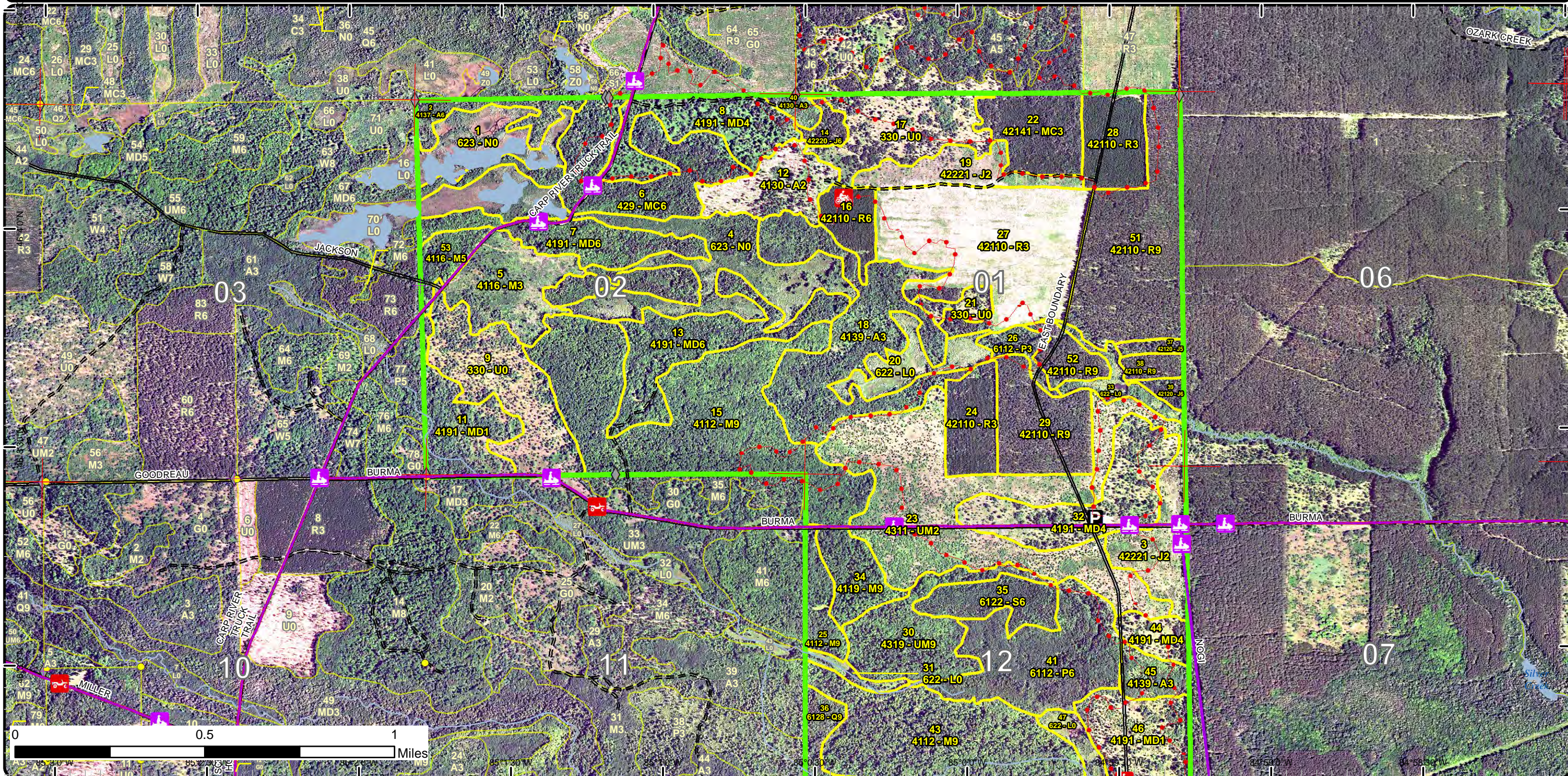


Stand Boundary Map

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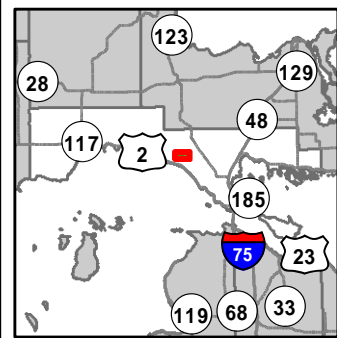


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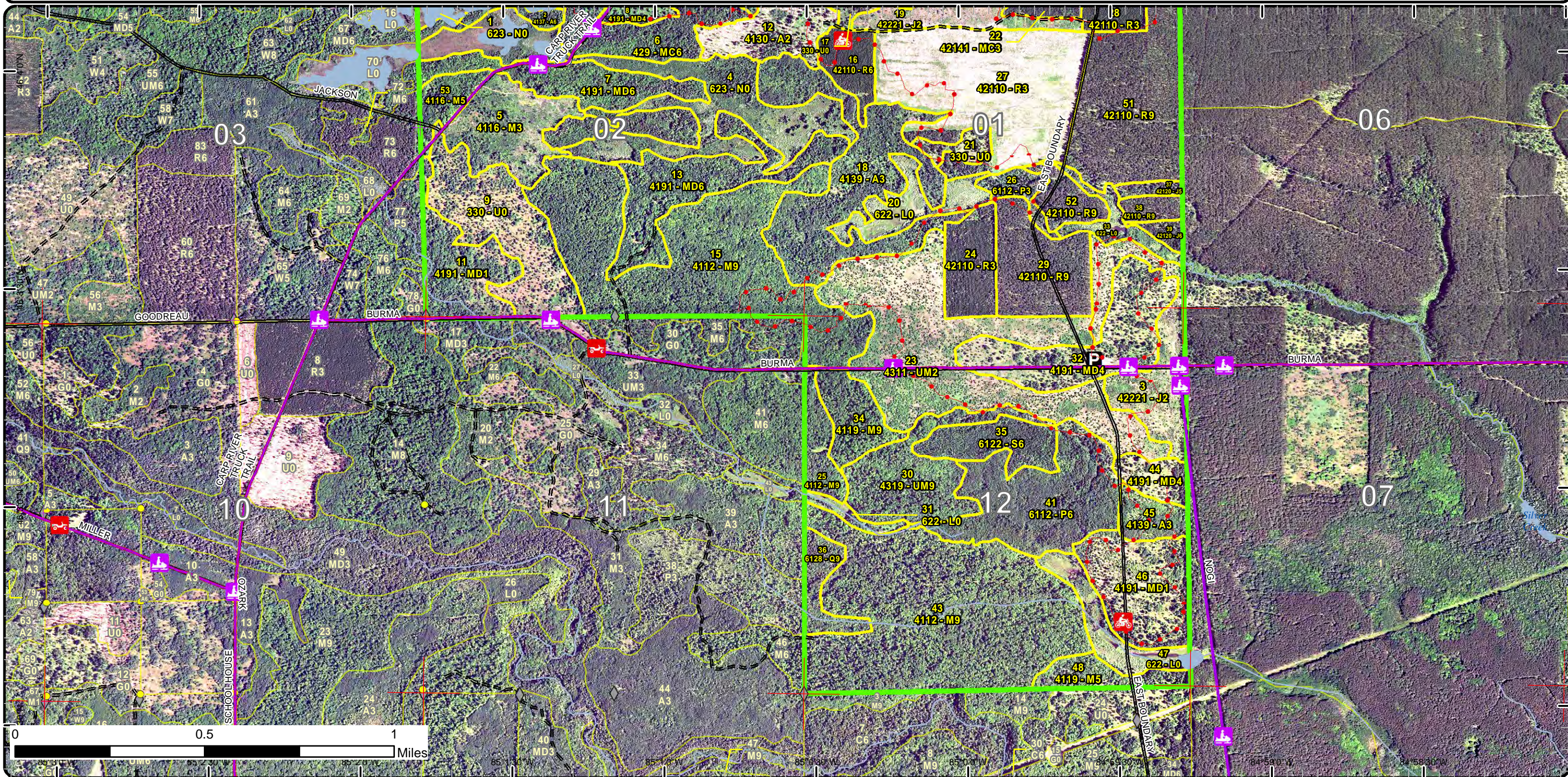


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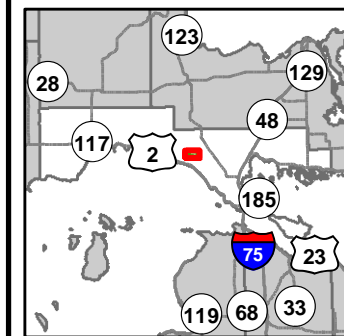


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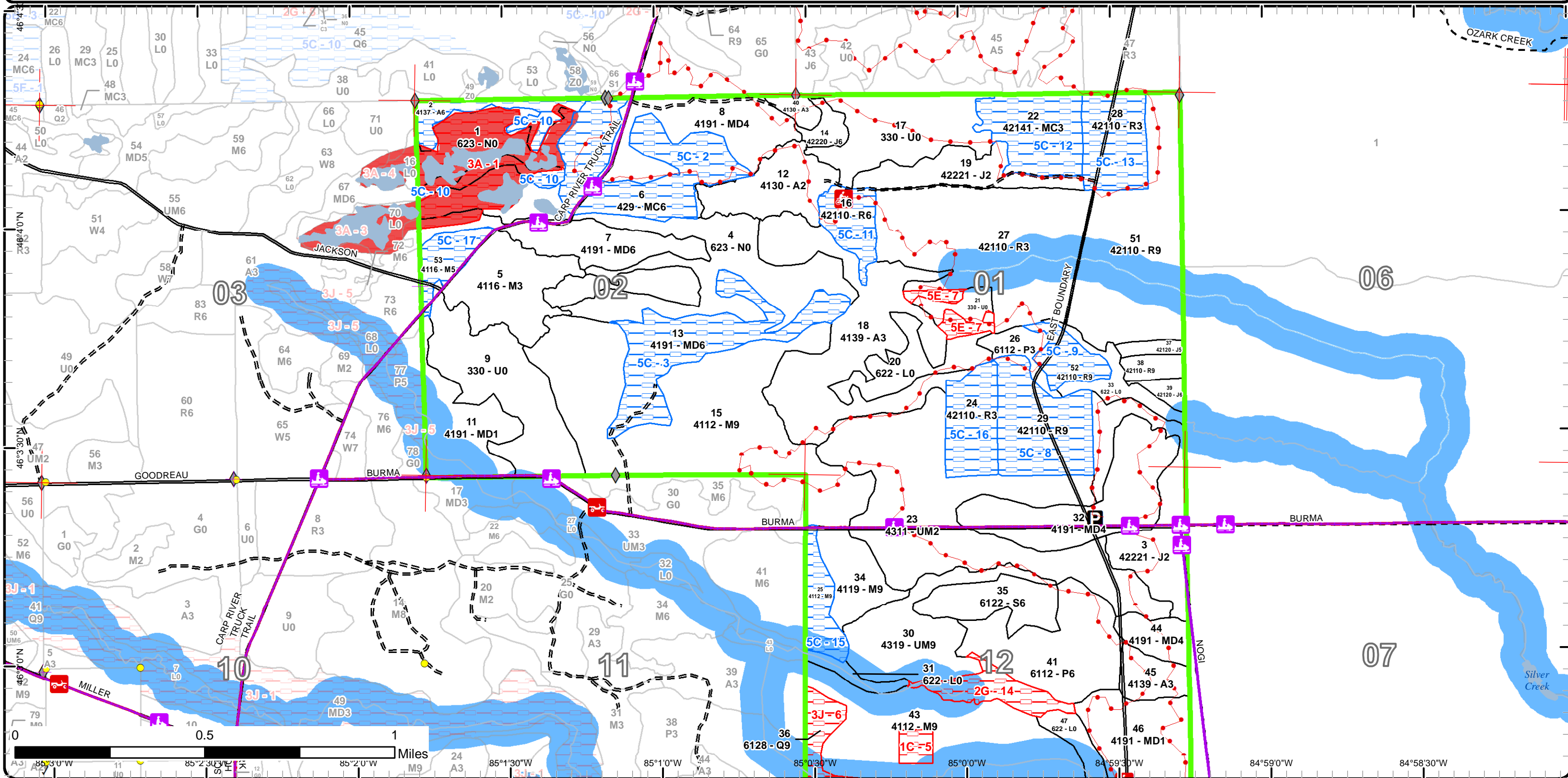


Special Conservation Areas & Site Conditions Map

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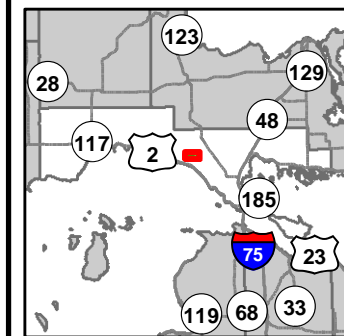


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

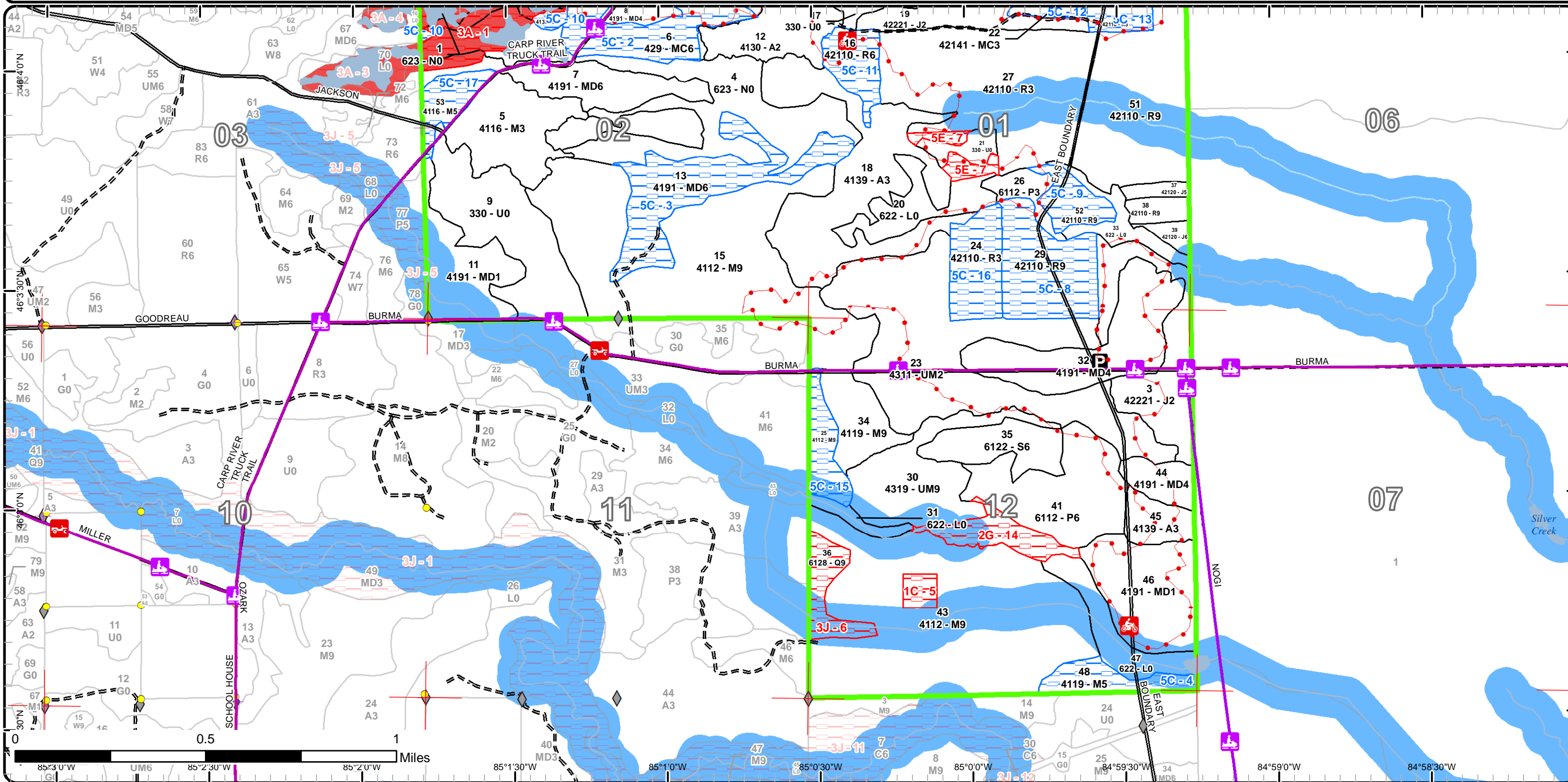


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Report 1 – Total Acres by Cover Type and Age Class



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	29	18	85	0	0	0	24	0	0	0	0	0	0	0	0	0	0	156
Jack Pine	0	25	43	0	0	0	6	8	0	0	0	0	0	0	0	0	0	0	82
Low-Density Trees	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
Lowland Aspen/Balsam Poplar	0	0	9	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	15
Lowland Shrub	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Spruce/Fir	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	24
Marsh	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Mixed Upland Deciduous	0	0	80	0	12	104	0	0	93	0	0	0	0	0	0	0	0	0	289
Northern Hardwood	0	39	0	0	15	0	0	28	0	21	0	309	0	0	0	0	0	0	412
Planted Mixed Pines	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Red Pine	0	107	0	67	0	0	0	0	0	145	0	0	0	0	0	0	0	0	319
Upland Conifers	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Upland Mixed Forest	0	0	124	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	168
Total	291	200	274	252	85	104	6	84	93	210	0	309	0	0	15	0	0	0	1922



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 103
Total Compartment Acres: 1,923

Commercial Harvest - 217
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
Jack Pine	9	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	44	0	0	0	0	0	0	0	0	44
Northern Hardwood	0	0	0	0	73	0	0	0	0	73
Red Pine	92	0	0	0	0	0	0	0	0	92
Total	144	0	0	0	73	0	0	0	0	217

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	217	0	0	0	0	0	219	0	0	436
Next Step	0	204	200	0	100	200	244	0	0	949
Total	217	204	200	0	100	200	463	0	0	1385



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
23	45103003-Monitor	219.2	4311 - Pine, Aspen Mix	Sapling Medium	10	Immature	Monitoring	Other - Specify	31022 - Warm Season Grass		Field Boundary

Habitat Cut: No**Site Condition:**Prescription see if anything died.Specs:Next StepTreatments:Acceptable noneRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 6 /26/2019

7	45103007-Cut	43.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	72	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Clear cut all species 2 inches and greater. Create brush piles during normal processing operations if possible for hare.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Fully stocked aspen, maple, spruce, fir, and paper burchRegen:Other Follow Trail specs for snowmobile and orv trail .Comment:Proposed Start Date: 10/1 /2020

15	45103015-Cut	73.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Mark stand down to 70-90 ba leaving 1-2 large wolfy trees per acre where present.Specs:Next StepTreatments:Acceptable Maple, Beech, cherry, PineRegen:Other Use specs to protect motorcycle trail.Comment:Proposed Start Date: 10/1 /2020

37	45103037-Cut	4.2	42120 - Planted Jack Pine	Poletimber Medium	62	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Cut all trees 2" and greaterSpecs:Next Step SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Burn, Slash; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep;Treatments: Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SiAcceptable moderate to fully stocked red pineRegen:OtherComment:Proposed Start Date: 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
38	45103038-Cut	6.7	42110 - Planted Red Pine	Sawtimber Well	83	141- 170	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**Prescription clear cut 2" and greater for all speciesSpecs:Next Step SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release;Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller ChoppingAcceptable moderate to fully red PineRegen:OtherComment:Proposed Start Date: 10/1 /2020

39	45103039-Cut	4.3	42120 - Planted Jack Pine	Poetimber Well	62	111- 140	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription cut all specie 2" an "greaterSpecs:Next Step Burn, Slash; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Planting, Replant; Pesticide, Aerial -Treatments: Site Prep; Pesticide, Aerial - Release; SitePrep, Trenching; SitePrep, Roller ChoppingAcceptable moderet to fully storked red pineRegen:OtherComment:Proposed Start Date: 10/1 /2020

51	45103051-Cut	84.9	42110 - Planted Red Pine	Sawtimber Well	86	111- 140	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription cut all trees 2" and greaterSpecs:Next Step SitePrep, Trenching; Burn, Slash; Planting, Initial Plant; Planting, Replant; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release;Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller ChoppingAcceptable moderate to fully stocked red pineRegen:OtherComment:Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 436.0**

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 103

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5C	1C	2G	3A	3J	5E
156	132	17	7	Aspen	17			7		
83	83	0	0	Jack Pine						
110	110	0	0	Low-Density Trees						
76	60	0	16	Lowland Aspen/Balsam Poplar			16			
15	0	0	15	Lowland Conifers					15	
62	62	0	0	Lowland Shrub						
24	24	0	0	Lowland Spruce/Fir						
118	75	0	43	Marsh				43		
289	235	51	3	Mixed Upland Deciduous	51			3	0	
413	365	43	5	Northern Hardwood	43	5				
33	0	33	0	Planted Mixed Pines	33					
319	191	121	7	Red Pine	121					7
58	1	57	0	Upland Conifers	57					
168	168	0	0	Upland Mixed Forest						
1,923	1,505	322	96	Total Forested Acres	322	5	16	53	15	7
	78%	17%	5%	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	3A: Conservation Values incompatible with harvest at this time	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Monitor for SBW.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 103

Year of Entry: 2021

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Monitor for SBW							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 103

Year of Entry: 2021

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Monitor for SBW.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 103

Year of Entry: 2021

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
1	623 - Emergent Wetland	Nonstocked	31.4			No																																												
2	4137 - Aspen, Birch	Poletimber Well	23.9	65	51-80	N/A	Ridge between Fen. Mixed stand which is a buffer for the Fen. Some mortality to paper birch and aspen. Cut when stand to the east is cut. this is for ease of access and operability.																																											
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3	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	42.8	10	Immature	N/A	The stand was chipped in 2009 and finished in 2010. The area was prescribed burned spring of 2019.																																											
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4	623 - Emergent Wetland	Nonstocked	87.1			No																																												
5	4116 - Mixed N. Hardwood - Aspen	Sapling Well	39.4	6	Immature	N/A	Stand was cut in 2013. Blueberry Cobbler.																																											
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6	429 - Mixed Upland Conifers	Poletimber Well	58.3	34	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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7 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 51.4 72 81-110 N/A split middle out merge with with stand 4

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole/Log	8	72	Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	15	Log/Pole	11	72				
Balsam Fir	11	Pole	8					
White Spruce	14	Pole/Log	9					

8 4191 - Mixed Upland Deciduous with Conifer Poletimber Poor 41.6 75 1-50 N/A Opening which has filled in. Has a mix of cherry red maple spruce and jack pine with some larger diameter trees.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	6	Pole	7		Black Cherry	Low	Variable	Sapling
Paper Birch	10	Pole	7					
Quaking Aspen	6	Pole	6					
White Spruce	6	Pole	5					
Jack Pine	25	Pole/Sapling	6					
Black Cherry	42	Pole/Sapling	6	75				

9 330 - Low-Density Trees Nonstocked 56.9 No Stand swapped from Forested to Non-Forested.

11 4191 - Mixed Upland Deciduous with Conifer Sapling Poor 34.1 16 Immature N/A Small drainage runs through the stand. Willow is present along the drainage. Larger trees on the edges of stand. could burn with rest of opening.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Sapling	2	16	Quaking Aspen	Low	10 - 20 feet	Sapling
White Spruce	20	Sapling	2		Black Cherry	Low	Variable	Sapling
White Pine	10	Pole	6		Willow spp.	Low	5 - 10 feet	Tall Shrub

12 4130 - Aspen Sapling Medium 29.3 5 Immature N/A Stand was cut in 2015. Blueberry Cobbler.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	74	Sapling	1	5

13 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 50.8 40 111-140 N/A larger trees in north east fingers of stan. these areas are mor white pine/ spruce mix. the rest of the stand is converting to this. The larger deciduous trees are dead or dying, the smaller deciduous is in co-canopy but not worth cutting yet.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	6	40	Red Maple	Low	Variable	Sapling
Paper Birch	10	Pole/Log	8		Quaking Aspen	Low	Variable	Sapling
Quaking Aspen	22	Pole	6		Balsam Fir	High	Variable	Sapling
Balsam Fir	8	Pole	7		Tag Alder	Low	Variable	Tall Shrub
White Spruce	10	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
14	42220 - Natural Jack Pine	Poletimber Well	6.4	55		N/A	Part of Corn Cob Pine sale. There was approximately 1 to 2 acres cut with the sale which is regenerating to aspen and jack pine. The entire area within the sale boundary was not cut. Some open areas.																																							
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15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	142.2	104	81-110	N/A	Was thinned in 2014. 45-111-11-01 Broasted Chicken Hardwood. thin east side of stand. 140-180 ba																																							
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16	42110 - Planted Red Pine	Poletimber Well	15.8	21	201+	N/A	Nice plantation with some jack pine mixed in the red pine stand. A little cherry is present in the stand.																																							
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17	330 - Low-Density Trees	Nonstocked	45.8		Unspecified	No																																								
18	4139 - Aspen, Mixed Deciduous	Sapling Well	84.8	24	Immature	N/A	Nice aspen regeneration of 10-20 feet tall with some white pine and other overstory trees were left along the bog edge. Few low areas within the stand.																																							
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19	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	25.0	7	Immature	N/A	Cut in 2012. Scarification treatment terminated after field visit showed stand is naturally stocked with acceptable Jack Pine mix.																																							
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20	622 - Lowland Shrub	Nonstocked	22.3			No	Water with willow aloryedyi.																																							
21	330 - Low-Density Trees	Nonstocked	7.1			No																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
22	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	32.7	25	201+	N/A	large areas of redpine getting out competed. could clearcut next entry and retry																																
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Black Cherry	10	Sapling	4																																				
23	4311 - Pine, Aspen Mix	Sapling Medium	123.8	10	Immature	N/A	The stand was chipped in 2009 and finished in 2010. The area was prescribed burned spring of 2019.																																
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24	42110 - Planted Red Pine	Sapling Well	24.0	25	201+	N/A	Nice red pine plantation with some cherry, aspen and jack pine scattered in the stand. Red pine are 10 to 20 feet tall. Trees are doing well with large tops leave for another cycle.																																
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Red Pine	92	Sapling	4	25																																			
25	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.8	69	111-140	N/A	Nice stand with a little top snap in maples. Stand was cut in with adjacent stand in compartment 102 on Old Stump Hardwood in 1999. Not much for beech within the stand. stand is on the lower end of ba range, it is about 115 ba																																
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26	6112 - Lowland Aspen	Sapling Well	8.9	15		N/A																																	
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27	42110 - Planted Red Pine	Sapling Well	106.8	5	Immature	N/A	Most of the stand was thinned in 2004 on Rejuvenated Dinosaur Sale. Planted in 2014																																
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28	42110 - Planted Red Pine	Sapling Well	27.5	21	201+	N/A	Nice plantation with a few trees are flagging along the road. The stand was burned and replanted in 1998. There are a few cherry within the stand and some jack pine along edge.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
29	42110 - Planted Red Pine	Sawtimber Well	40.7	82	111-140	N/A	Thinned in 2004 on Rejuvenated Dinosaur Sale. Starting to get into the larger diameter.																																	
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30	4319 - Mixed Upland Forest	Sawtimber Well	44.0	86	81-110	N/A	Stand was harvested in 2006 on Spring Relief Hardwood sale. Areas are heavier to hemlock with a small grove of hemlock in the middle of the stand. Small wet areas within the stand.																																	
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31	622 - Lowland Shrub	Nonstocked	5.6			No																																		
32	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	52.9	44	1-50	N/A	Sled Drag Sale. ORV parking lot is along the Goodereau Road. ORV trail runs throughout the stand. The area was prescribed burned spring of 2019.																																	
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34	4119 - Mixed Northern Hardwoods	Sawtimber Well	21.3	86	51-80	N/A	Stand was harvested in 2006 on Spring Relief Hardwood sale. Areas are heavier to hemlock with a small grove of hemlock in the middle of the stand. Small wet areas within the stand.																																	
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35	6122 - Black Spruce	Poletimber Well	23.6	67	111-140	N/A	black spruce stand with tamarack and few white pine within the stand. Very wet in areas across most of the stand with spagnum moss and leatherleaf for ground cover.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	14.7	137		N/A	Nice hemlock mixed stand with a variety of species. Some large diameter hemlock in the stand. Some hemlock regeneration of 3 to 25 feet.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Red Maple		15	Log/Pole	12		Red Maple	
Yellow Birch		22	Log/Pole	14		Hemlock	
Northern White Cedar		16	Log/Pole	11		Density	
Hemlock		44	Log/Pole/XLog	12	137	Avg. Height	
						Size	
37	42120 - Planted Jack Pine	Poletimber Medium	4.2	62	81-110	N/A	Been thinned before with some open areas with some cherry. The stand has a ridge running east and west on it.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Red Pine		12	Pole/Sapling	7		Jack Pine	
Jack Pine		88	Pole/Sapling	7	62	Black Cherry	
						Density	
						Avg. Height	
						Size	
38	42110 - Planted Red Pine	Sawtimber Well	6.7	83	141-170	N/A	Stand was thinned 2013. Mashed Potato Pine Sale.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Log	15	83		
39	42120 - Planted Jack Pine	Poletimber Well	4.3	62	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Jack Pine		80	Pole	8	62	Jack Pine	
Black Cherry		15	Pole	7		Density	
						Avg. Height	
						Size	
40	4130 - Aspen	Sapling Well	5.2	13	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		85	Sapling	2	13		
White Spruce		7	Sapling	2			
Jack Pine		8	Sapling	2			
41	6112 - Lowland Aspen	Poletimber Well	67.1	29	141-170	N/A	this is a lowland stand that is part of a creek drainage.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		50	Pole	7	29		
Red Maple		20	Pole	7			
Paper Birch		10	Pole	7			
Balsam Fir		10	Pole	7			
43	4112 - Maple, Beech, Cherry Association	Sawtimber Well	167.1	100	51-80	N/A	Was select harvested on Spring Relief and East Boundary Hardwood sales in 2005 and 2006. Mortality to some of the beech and maple. Beech snap occurring within the stand. There is some dieback to the maple within the stand. Lots of beech regeneration and some maple and found some of the planted white pine from a few years ago. Scattered WP & Hemlock within the stand. There is more beech mortality to the north and south side of the stand. There maybe some resistant beech trees.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Sugar Maple		48	Log/Pole	10	100	Sugar Maple	
Red Maple		26	Log/Pole	11		Beech	
Yellow Birch		6	Log/Pole	11		Density	
						Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44 4191 - Mixed Upland Deciduous with Conifer Poletimber Poor 12.1 37 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	17	Log/Pole	10		Jack Pine	Low	Variable	Sapling
Quaking Aspen	12	Pole/Sapling	6		Black Cherry	Low	Variable	Sapling
Jack Pine	37	Pole/Sapling	6	37				
Black Cherry	32	Pole/Sapling	7					

45 4139 - Aspen, Mixed Deciduous Sapling Well 12.9 18 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	12	Sapling	1		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Quaking Aspen	40	Sapling	2	18				
Bigtooth Aspen	15	Sapling	2	18				
White Spruce	6	Sapling	1					
Black Cherry	27	Sapling	1					

Chipped on East Boundary Opening Hardwood sale in 2001. Some good aspen and cherry regeneration of 15 to 20' tall.. Some beaked hazel and a few open areas with very few trees.

46 4191 - Mixed Upland Deciduous with Conifer Sapling Poor 45.8 18 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	12	Pole/Sap/Log	5	
White Pine	6	Sapling	4	
White Pine	22	Log	14	126
Jack Pine	10	Pole/Sapling	6	
Black Cherry	47	Sapling/Pole	3	18

Stand swapped from Non-Forested to Forested. Was chipped previously with areas of heavier cherry regeneration.

47 622 - Lowland Shrub Nonstocked 21.3 No

48 4119 - Mixed Northern Hardwoods Poletimber Medium 15.3 35 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	7		Red Maple	Low	Variable	Sapling
Balsam Fir	12	Pole/Sapling	5		Black Cherry	Medium	Variable	Sapling
White Spruce	10	Pole/Sapling	6					
White Pine	7	Pole/Sapling	6					
Black Cherry	51	Pole/Sapling	7	35				

Old opening which has filled in with mackinac mix. Very mixed stand with drainage to the north.

51 42110 - Planted Red Pine Sawtimber Well 84.9 86 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log	14	86

Most of the stand was thinned in 2004 on Rejuvenated Dinosaur Sale. The rest was thinned in 2013. Mashed Potato Pine. BA ranges from 110 to 150 and 170 in the highest area



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52	42110 - Planted Red Pine	Sawtimber Well	13.0	86	141-170	N/A	Most of the stand was thinned in 2004 on Rejuvenated Dinosaur Sale. merge with 29
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Log/Pole	14	86		

53	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	12.8	62	111-140	N/A	5c stand. This stand is on the low end of the ba range and dose not need to be thinned yet.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		21	Pole/Log	9		Balsam Fir		Medium	Variable	Sapling
Red Maple		40	Pole/Log	8	62	Red Maple	Low	Variable	Sapling	
Paper Birch		10	Pole/Log	8						
Quaking Aspen		25	Pole/Log	9						