



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45120

Entry Year 2023

Acreage: 1,893

County Mackinac

Management Area: Lake Michigan Shoreline

Stand Examiner: Kenny Fanelli

Legal Description:

T42N R07W Sections 1, 2, 10, 11, 12, 13 Hendricks Township

Identified Planning Goals:

This compartment is located in the Epoufette area with US Highway 2 running through it. It includes the section of US 2 which was rerouted during 2020. Management activities will be limited this year of entry. Much of the compartment is northern hardwood and was heavily impacted by beech bark disease. Some areas were salvaged over the last 10 years. Due to this, there is little opportunity for selection harvests. One small aspen stand is recommended for harvest. Other stands consists of young aspen/mackinac mix stands and several young red pine plantations between three and twenty four years old.

Soil and topography:

This compartment is composed almost entirely of Wallace Sands (0-6%) slope. The area along the Manitou Paymen Highbanks is (35-60%) slope. There are small areas of Spot-Finch complex soils (0-6%) slope. The vast majority of the compartment is flat to gently rolling terrain with the steep Manitou Paymen Highbanks escarpment immediately south of U.S.-2 being the exception.

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

There are several private holdings (approx. 480 acres) within this compartment. These holdings are mostly in contiguous blocks of 120-160 acres with the exception of one isolated 40 acre piece and one 5 acre holding along the Lake shore. There are small private holdings along US-2 in the adjacent compartment to the West and some private holdings to the East with the majority owned by Sand Products Inc.

Unique Natural Features:

River Gorge in Section 12. Potential for rare plants of rich mesic forests throughout compartment. There is potential for red-shouldered hawk, eagle, osprey and goshawk.

Archeological, Historical, and Cultural Features:

There are remains of an old logging camp in the area of Cut River Rd. The Cut River Bridge (1947) is one of only two cantilevered deck truss bridges in Michigan and spans 641' across the Cut River Gorge. Both gas and oil pipelines and maintained ROW's pass through this compartment. Sand Products, a sand mining operation is located adjacent to the East of the compartment.

Special Management Designations or Considerations:

There are stands in this compartment designated as "potential old growth" in 1992. These stands are along the Lake Michigan shoreline and the Cut River gorge. Garlic Mustard treatments are taking place in several stands that are known to be infested.

Watershed and Fisheries Considerations:

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

Wildlife Habitat Considerations:

This compartment is part of the Lake Michigan Management Area where featured wildlife species include piping plover and white-tailed deer. The southern boundary is along the Lake Michigan shoreline in habitats that support a number of rare species. The mouth of the Cut River as well as the Cut River gorge and associated mesic northern forest natural community are on the southeastern side. A steep escarpment is located just inland of the shoreline, and hardwoods dominate from the escarpment to the northern compartment boundary. American beech is a significant component in

stands here, although beech bark disease caused a high mortality rate to mature trees. Most remaining beech are younger. Red oak saplings were planted in 2012 in a portion of the large hardwood stand to provide a source of hard mast due to the loss of much of the beech. Also, garlic mustard, a non-native invasive plant species, was found in two locations in this compartment. Control efforts have been implemented in both of these locations with the help of partners. Parts of the compartment are also within deer wintering complex.

Wildlife objectives for this compartment include maintaining diversity in northern hardwood stands, protecting shoreline and riparian habitats, controlling the spread of invasive species, and protecting rare species. Some hardwoods are planned to be treated to increase diversity in the stand. Under-represented species are expected to be promoted during this treatment include healthy beech if found. Control of garlic mustard is expected to continue likely with the continued help of partners. Harvests in deer wintering complex are planned to take place during the winter months to support wintering deer.

Mineral Resource and Development Concerns and/or Restrictions

Sections 1-2 & 10-13, T42N-R7W, Mackinac County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. An industrial sand mine is less than one mile to the southeast. There may be potential for additional industrial grade sand within the compartment. Engadine dolomite underlies glacial drift and lacustrine sediments here but appears to be too deep to have economic value. The State does not own all the mineral rights within the compartment and may or may not own the rights to the non-metallic minerals depending on deed language. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access is very good throughout this compartment. Hiawatha Trail (all season Rd.) runs North/South and represents the West boundary of the compartment. U.S. Highway 2 (Class A Rd.) runs East/West across the southern portion of the compartment. Prout Road runs along the north and east boundaries of the compartment and is designated as a Good quality dirt road and serves as a groomed snowmobile trail. There are two timber bridges on Prout Road. These bridges are rated for truck traffic. The Cut River Road (paved county Rd.) makes up the majority of the southern half of the East Boundary. The Cut River Road also runs East/West across the middle of the compartment. There are two pipelines with two tracks within ROWs that run East/ West across the entire compartment. There are numerous two tracks running off the pipelines and Boundary roads. These two tracks offer access into most areas of the interior of the compartment. There is a DNR gate located on the two-track leading from Cut River Rd. to an old township dumpsite (stand 420). All new roads created during harvesting will be closed following use.

Survey Needs:

None needed this year of entry.

Recreational Facilities and Opportunities:

The compartment has abundant recreational opportunities. The Cut River Bridge is a sight seeing location and offers roadside parks and foot trails along the Cut River down to the Beach. This park is used heavily by US-2 traffic during the summer/ fall vacation seasons. Extensive areas of invasive exotic Garlic Mustard are found throughout these parks, especially along the high use foot trails. A groomed snowmobile trail winds throughout the compartment offering winter recreational use. Deer and grouse hunters are also very active in this compartment. Fishing (steelhead) is popular along the Cut River and at the mouth (see fisheries comments).

Fire Protection:

There is some potential for fire in this compartment with the pine components. Ignition sources are present with extensive recreational use and road accessibility into the stand. The relatively sandy soils (except south of US-2) do not create any special mop-up considerations. Hendricks Township VFD Hall is located in this compartment. There is excellent road accessibility throughout the stand (with the exception of the area south of US-2). Pipelines run across entire compartment and may require special operational considerations during a fire.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

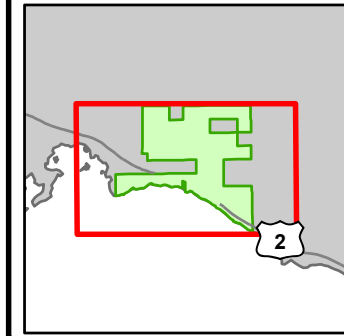
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

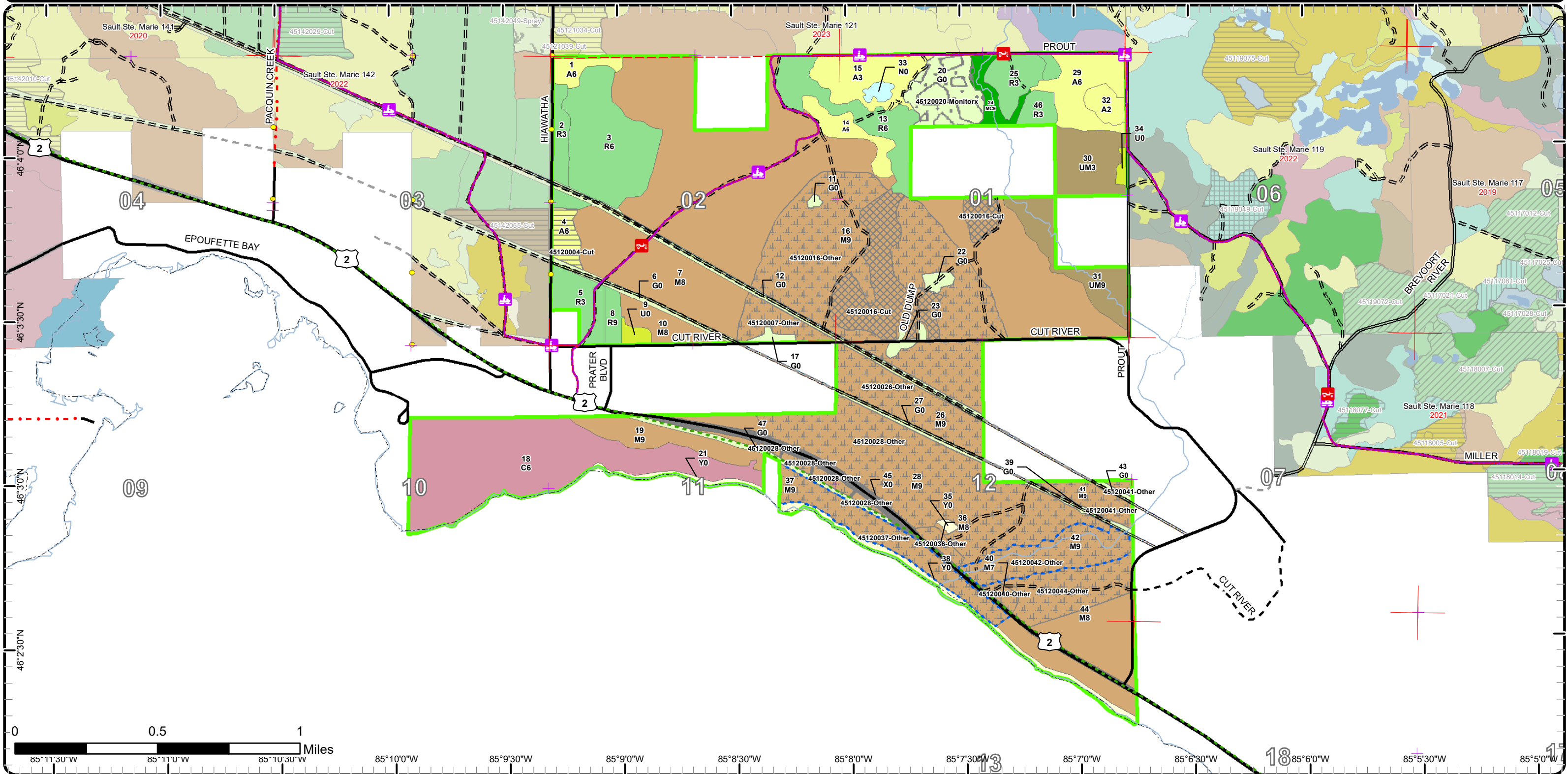
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 120
 T42N, R07W, Sec: 1, 2, 10-13
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Lake Michigan Shoreline
 YOE: 2023
 Acres: 1892.7 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/28/2022
 Map Phase: Post Review

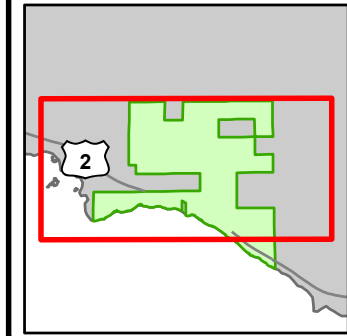


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland
- 710 - Sand/Soil

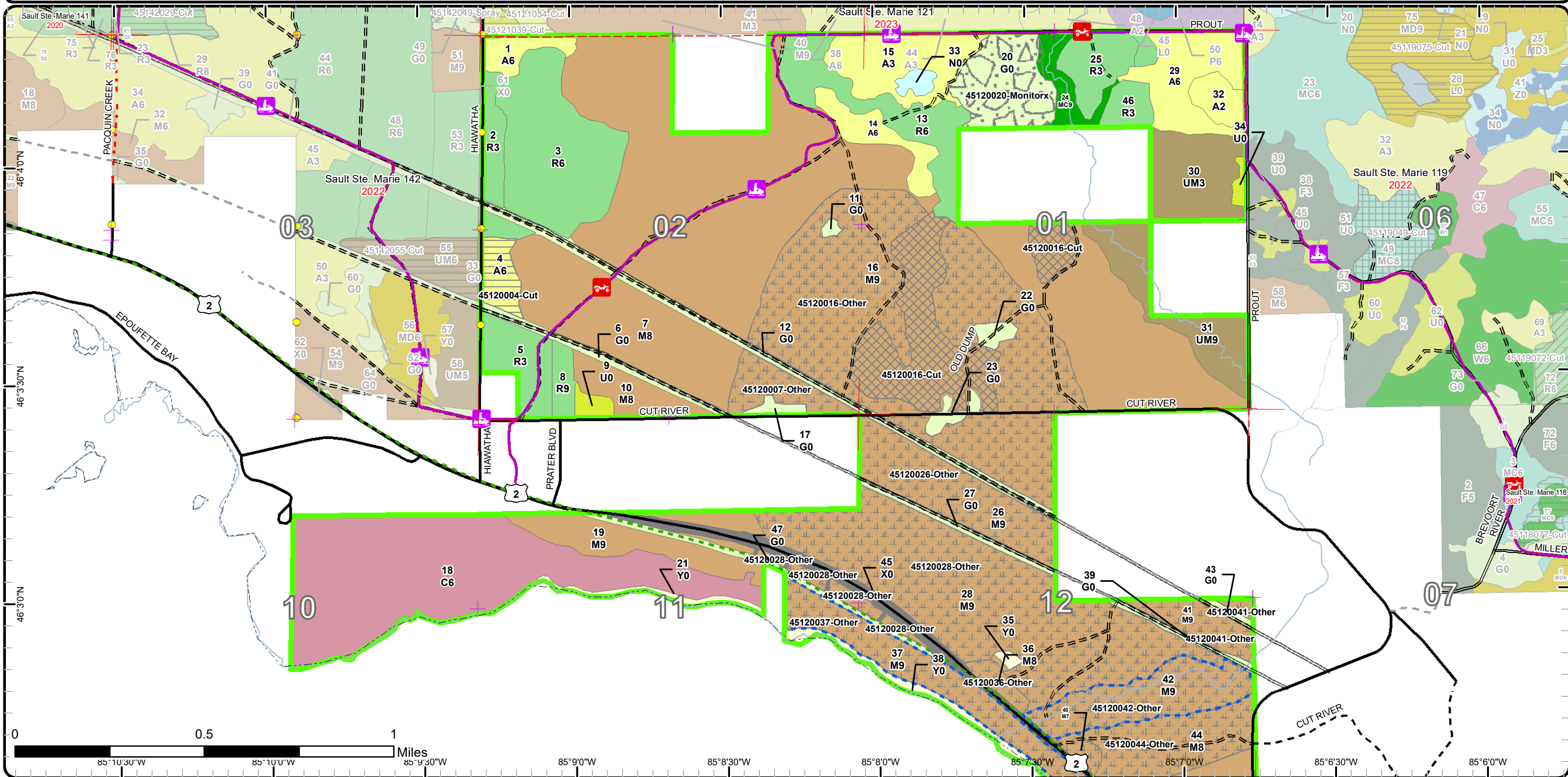


Cover Type & Treatments Map

Compartment: 120
 T42N, R07W, Sec: 1, 2, 10-13
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Lake Michigan Shoreline
 YOE: 2023
 Acres: 1892.7 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/28/2022
 Map Phase: Post Review

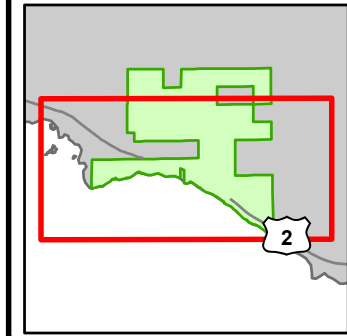


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland
- 710 - Sand/Soil

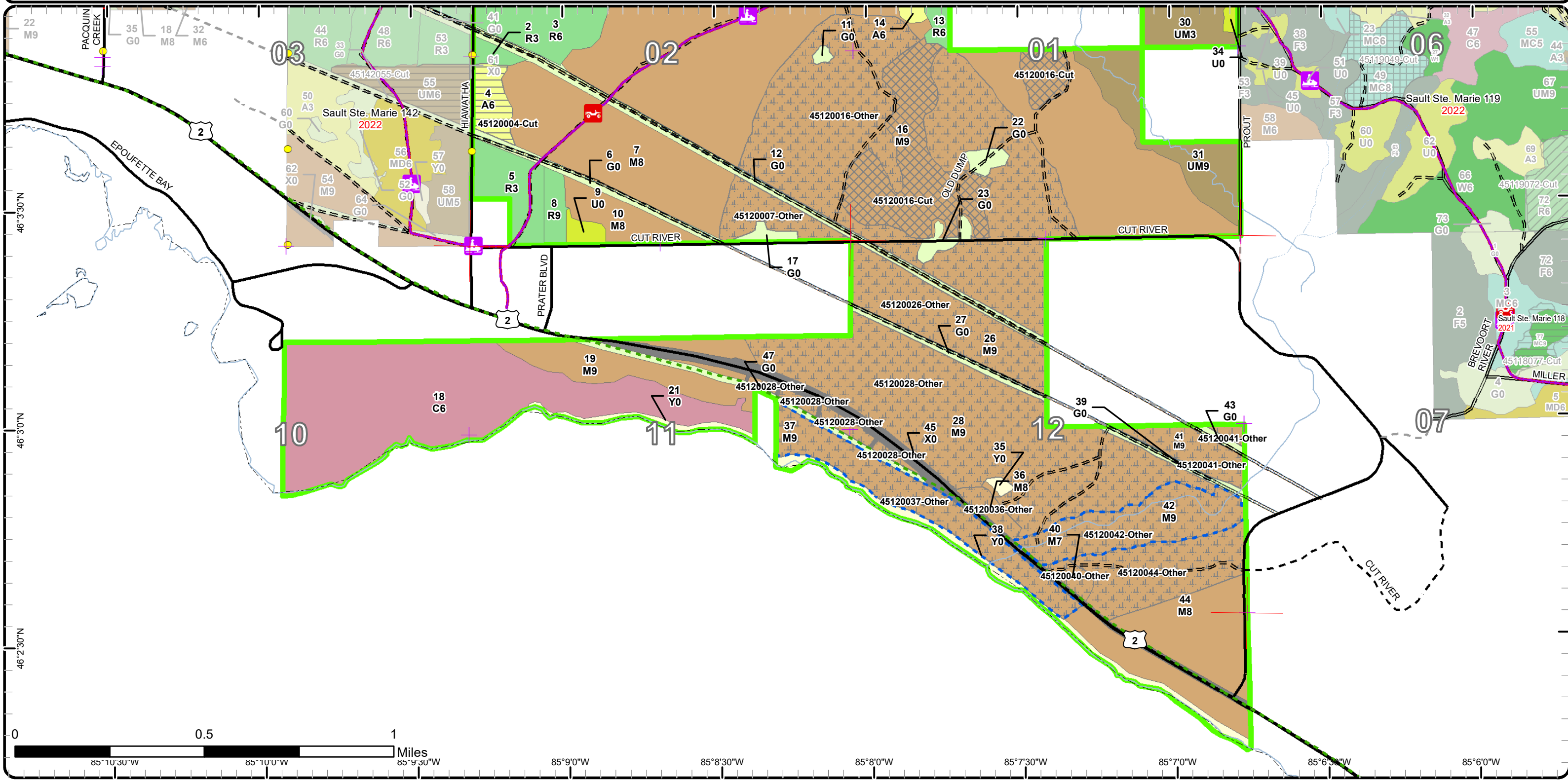


Cover Type & Treatments Map

Compartment: 120
 T42N, R07W, Sec: 1, 2, 10-13
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Lake Michigan Shoreline
 YOE: 2023
 Acres: 1892.7 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/28/2022
 Map Phase: Post Review

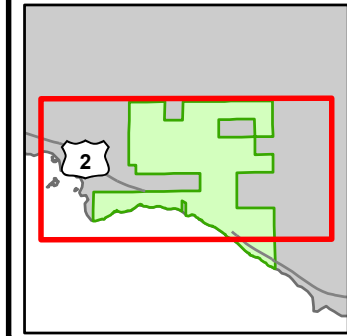


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- 🚗 ORV Routes
- 🚲 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- Shoreline
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 710 - Sand/Soil



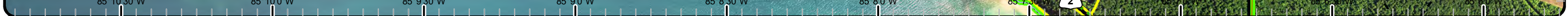
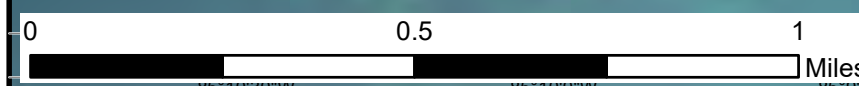
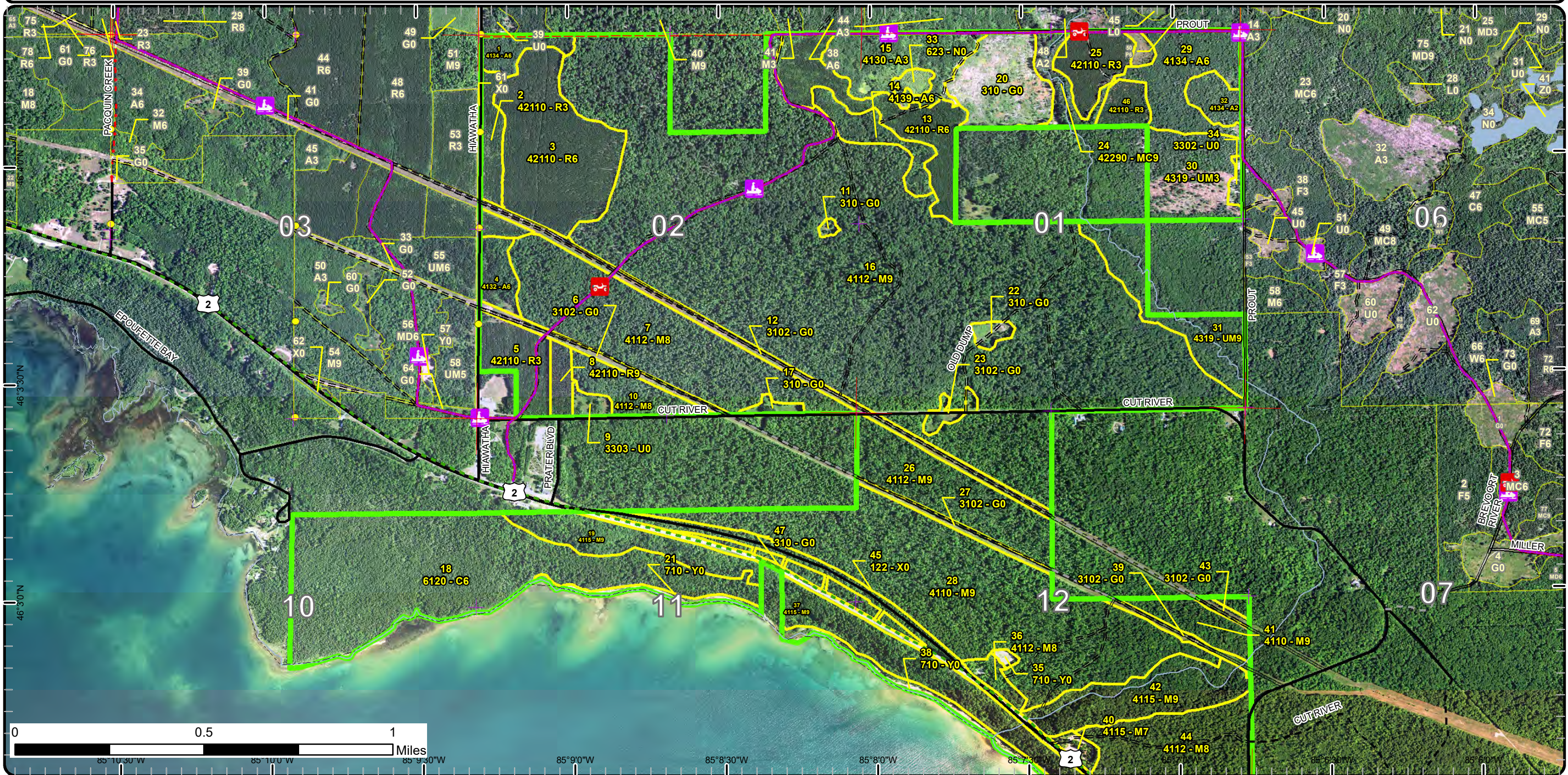
Stand Boundary Map

Compartment: 120
 T42N, R07W, Sec: 1, 2, 10-13
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Lake Michigan Shoreline
 YOE: 2023
 Acres: 1892.7 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/28/2022
 Map Phase: Post Review



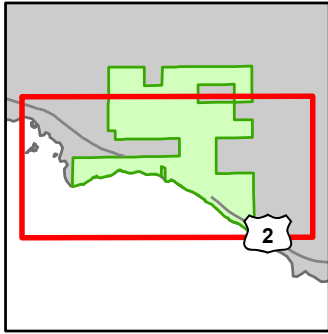
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Stand Boundaries

- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland
- 710 - Sand/Soil

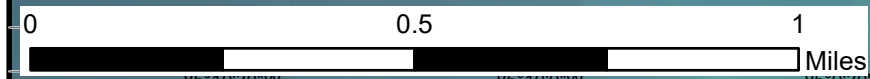
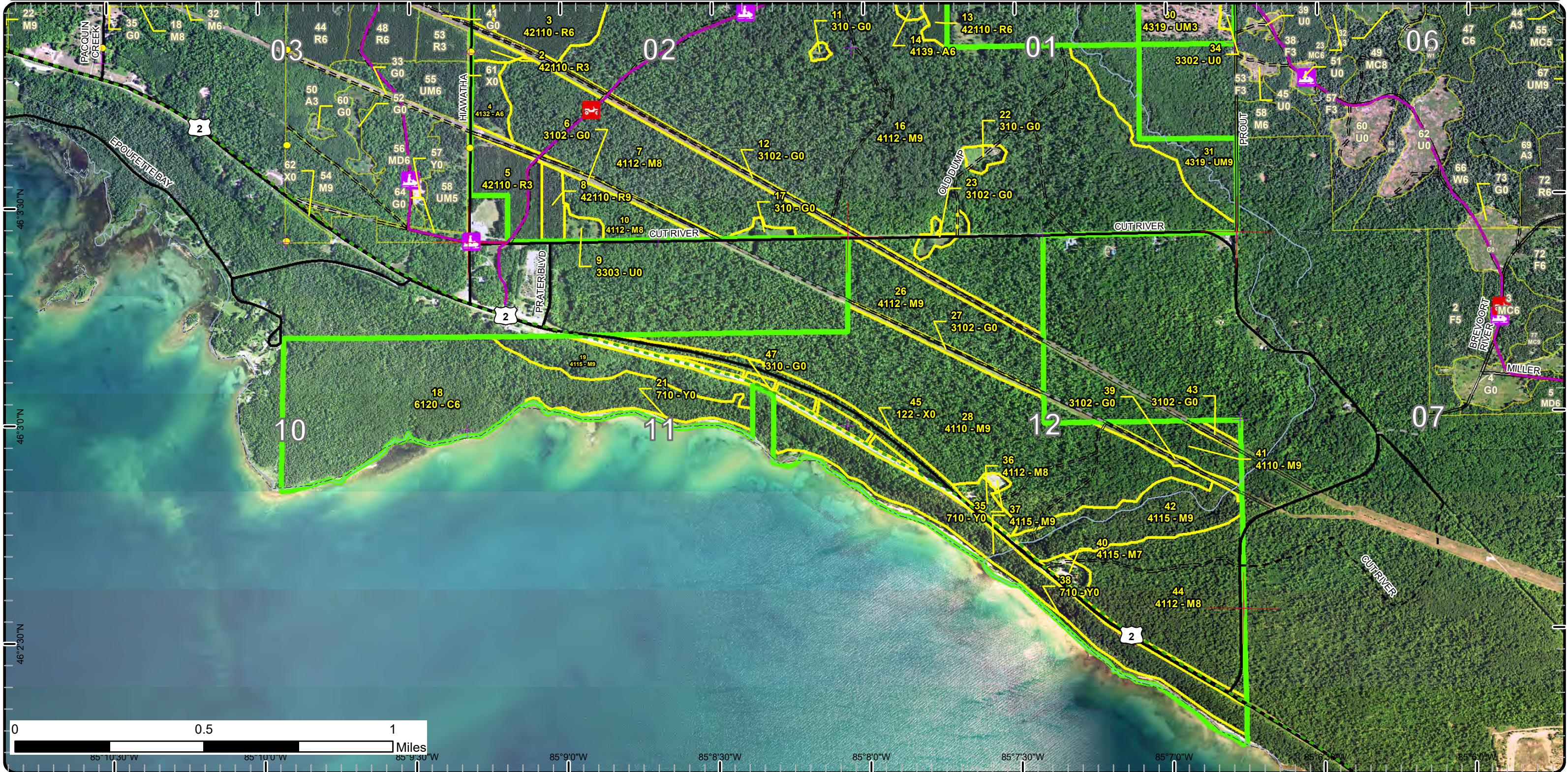


Stand Boundary Map

Compartment: 120
 T42N, R07W, Sec: 1, 2, 10-13
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Lake Michigan Shoreline
 YOE: 2023
 Acres: 1892.7 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/28/2022
 Map Phase: Post Review

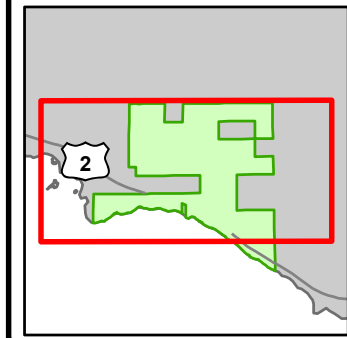


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- 🚗 ORV Routes
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- - - Designated Bicycle Trails
- - - - - Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- Shoreline
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 710 - Sand/Soil

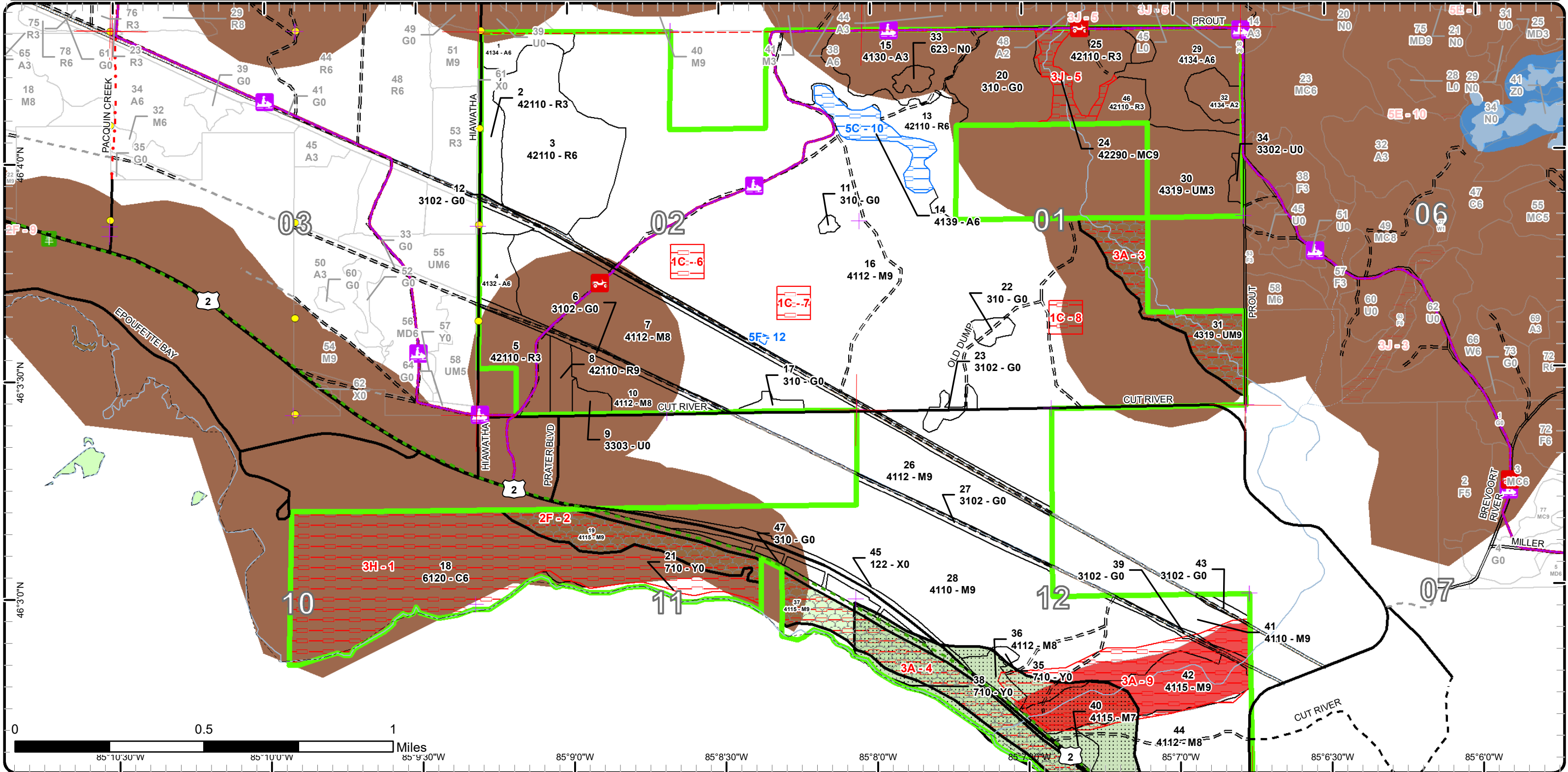


Special Conservation Areas

Compartment: 120
 T42N, R07W, Sec: 1, 2, 10-13
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Lake Michigan Shoreline
 YOE: 2023
 Acres: 1892.7 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/28/2022
 Map Phase: Post Review

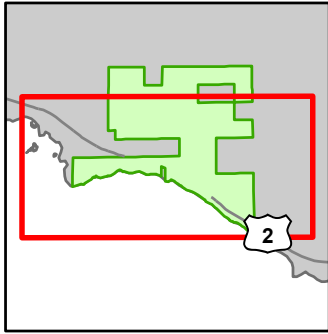


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- SCA Removal
- Ecological Reference Areas
- Scenic Turnouts
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Great Lakes Islands
- Recreational/Scenic Value Area
- Possible Type 1 Old Growth

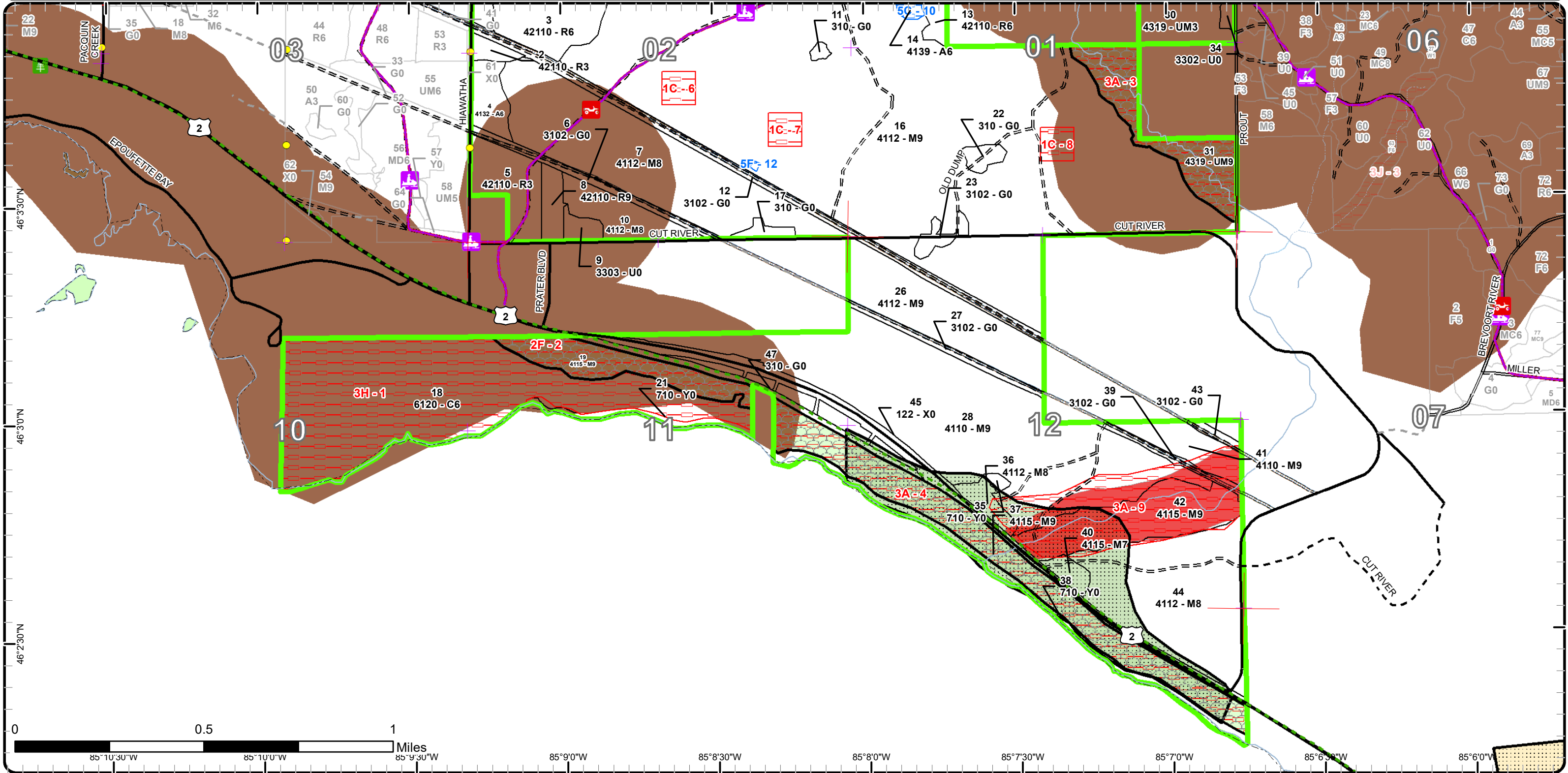


Special Conservation Areas

Compartment: 120
 T42N, R07W, Sec: 1, 2, 10-13
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Lake Michigan Shoreline
 YOE: 2023
 Acres: 1892.7 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/28/2022
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- ORV ORV Routes
- SMT Snowmobile Trails
- DHT Designated Hiking Trails
- DBT Designated Bicycle Trails
- DORV Designated ORV Route
- DST Designated Snowmobile Trails
- IS Intermittent Stream
- PR Perennial River
- SL Shoreline
- P Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- Stand Boundaries
- SCA
- SCA Removal
- Ecological Reference Areas
- S Scenic Turnouts
- CWS Cold Water Streams
- Deer Winter Range
- Great Lakes Islands
- Sand or Gravel Pit
- Recreational/Scenic Value Area
- Possible Type 1 Old Growth
- 3A: Conservation Values incompatible with harvest at this time



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+	Unnever-Aged	Total
Aspen	0	10	0	35	61	11	0	0	0	0	0	0	0	0	0	0	0	0	117
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	155	0	0	0	0	0	155
Herbaceous Openland	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Northern Hardwood	0	0	0	0	0	0	0	18	247	11	320	0	0	0	0	0	0	585	1179
Red Pine	0	0	0	180	0	0	0	0	7	0	0	0	0	0	0	0	0	0	187
Sand, Soil	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Upland Mixed Forest	0	35	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	70
Urban	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Total	171	45	0	215	61	11	0	18	254	24	355	0	155	0	0	0	0	585	1891



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 120
Total Compartment Acres: 1,893

Commercial Harvest - 81
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	11	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	70	0	0	0	0	0	0	0	70
Total	11	70	0	0	0	0	0	0	0	81

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	81	0	0	0	0	0	35	596	0	712
Next Step	0	0	0	0	0	35	316	70	0	421
Total	81	0	0	0	0	35	351	666	0	1133



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
-------	----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Approved Treatments:

4	45120004-Cut	11.2	4132 - Aspen, Jack Pine	Poletimber Well	42	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut all species 2" and up. Leave 3-10% retention along or outside the red line. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderatly to fully stocked aspen, jack pine, maple, fir, and spruce. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/5 /2021</p>											
7	45120007-Other	17.7	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	74	51-80	Other	Other	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Hand pull and spray for garlic mustard. FTP C44-600 <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
16	45120016-Cut	69.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	88	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select harvest and thin to 80 BA. Leave healthy beech and promote underrepresented species. Actual sale acreage may vary from the original prescription. Invasive species control. Control measures needed to prevent spread of garlic mustard in and from stand if the stand is harvested. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Other, Other <u>Treatments:</u> <u>Acceptable</u> Sugar maple, red maple, yellow birch, hemlock. <u>Regen:</u> <u>Other</u> Area of higher BA that hasn't been thinned as recently as the rest of the stand. BA is 90-110 through here. <u>Comment:</u> Don't mark any trees within 50' of the openings along Cut River for archeological concerns. No decking or equipment use in these openings. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
16	45120016- Other	199.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	88	51-80	Other	Other	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Spray and hand pull garlic mustard. FTP C44-600 <u>Specs:</u> <u>Next Step</u> Monitoring, Herbicide Use <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022											
20	45120020- Monitorx	35.1	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Third year regen check per policy procedures <u>Specs:</u> <u>Next Step</u> Monitoring, Herbicide Use; Pesticide, Skidder - Release <u>Treatments:</u> <u>Acceptable</u> RP <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020											
26	45120026- Other	48.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	76	51-80	Other	Other	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Hand pull and spray for garlic mustard. FTP c44-600 <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022											
28	45120028- Other	172.8	4110 - Sugar Maple Association	Sawtimber Well	91	51-80	Other	Other	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Hand pull and spray for garlic mustard. FTP C44-600 <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36	45120036- Other	5.9	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	88	81-110	Other	Other	4112 - Maple, Beech, Cherry Association	Uneven- Aged	No
<p><u>Prescription</u> Garlic Mustard treatments continuing by MDOT and other cooperators.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mix of hardwood species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
37	45120037- Other	45.6	4115 - Y.Birch, Hemlock NH	Sawtimber Well	90	81-110	Other	Other	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Hand pull and spray for garlic mustard. FTP C44-600</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Conservation Values</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
40	45120040- Other	4.5	4115 - Y.Birch, Hemlock NH	Sawtimber Poor	81	81-110	Other	Other	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Hand pull and spray for garlic mustard. FTP C44-600</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
41	45120041- Other	18.0	4110 - Sugar Maple Association	Sawtimber Well	62	51-80	Other	Other	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Hand pull and spray for garlic mustard. FTP C44-600</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

42	45120042-Other	41.4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	96	81-110	Other	Other	411 - Northern Hardwood	Even-Aged	No
----	----------------	------	----------------------------	----------------	----	--------	-------	-------	-------------------------	-----------	----

Prescription Hand pull and spray for garlic mustard. FTP c44-600

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition Conservation Values

Proposed Start Date: 10/1 /2022

44	45120044-Other	41.6	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	78	51-80	Other	Other	411 - Northern Hardwood	Even-Aged	No
----	----------------	------	---	------------------	----	-------	-------	-------	-------------------------	-----------	----

Prescription Hand pull and spray for garlic mustard. FTP C44-600

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment 711.9
Acreage Proposed:

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 120

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
----------------	--------------------	-------------------------------	------------------------

Dominant Site Conditions

5C	5F	1C	2F	3A	3H	3J
----	----	----	----	----	----	----

Site No.	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Condition	5C	5F	1C	2F	3A	3H	3J
117	101	15	0	0	Aspen	15						
155	1	0	155	0	Cedar						155	
103	101	0	2	0	Herbaceous Openland				0	2		
7	7	0	0	0	Low-Density Trees							
4	4	0	0	0	Marsh							
13	1	0	12	0	Natural Mixed Pines							12
1181	1003	0	178	0	Northern Hardwood		0	10	29	139		
187	187	0	0	0	Red Pine							
26	26	0	0	0	Sand, Soil					0		
70	35	0	35	0	Upland Mixed Forest					35		
31	31	0	0	0	Urban							
1,893	1,495	16	382	0	Total Forested Acres	15	0	10	29	177	155	12
	79%	1%	20%	0%	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	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2F: Too steep	29	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
Steep Manitou-Paymen Highbanks.....proposed as old-growth in 1992. Unique, very steep, high escarpment along shoreline. There are very large, old white pine and hemlock and some yellow birch on the steep slope. Recommend for SCA.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 120

Year of Entry: 2023

3	Unavailable	3A: Conservation Values incompatible with harvest at this time	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Was listed as potential old growth in 1992. Stand is unique river corridor, which is quite steep in areas. There are large Hemlock and White Pine with understory mix that are on the inoperable sides of the gorge. Wide flood plain along bottom in parts.							
4	Unavailable	3A: Conservation Values incompatible with harvest at this time	68	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Steep Manitou-Paymen Highbanks.....proposed as old-growth in 1992. Unique, very steep, high escarpment along shoreline. There are very large, old white pine and hemlock and some yellow birch on the steep slope. Recommend for SCA.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: River Corridor							
6	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)							
7	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)							
8	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)							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 120

Year of Entry: 2023

9	Unavailable	3A: Conservation Values incompatible with harvest at this time	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5F: Evaluated for Forest Health Considerations	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area with deer fence. Planted resistant beech.							



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
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	29
Comments				
Does not currently meet old growth criteria.				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	35
Comments				
Does not currently meet old growth criteria.				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	68
Comments				
Does not currently meet old growth criteria.				
Cut River Bridge	Visual Management Area	Recreational/Scenic Value Area	SCA	131
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	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
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.
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	4134 - Aspen, Spruce/Fir	Poletimber Well	10.0	39		N/A	Aspen regen with mix of balsam and red maple. Cut in '83.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>60</td> <td>Pole/Sapling</td> <td>5</td> <td>39</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	5	Pole/Sapling	5		Quaking Aspen	60	Pole/Sapling	5	39	Red Maple	10	Sapling/Pole	4		Red Pine	5	Log	13		Balsam Fir	20	Sapling/Pole	4		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling							
Canopy Species	% Cover	Size Class	DBH	Age																																																
Paper Birch	5	Pole/Sapling	5																																																	
Quaking Aspen	60	Pole/Sapling	5	39																																																
Red Maple	10	Sapling/Pole	4																																																	
Red Pine	5	Log	13																																																	
Balsam Fir	20	Sapling/Pole	4																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Red Maple	Low	Variable	Sapling																																																	
Balsam Fir	Medium	Variable	Sapling																																																	
2	42110 - Planted Red Pine	Sapling Well	16.0	20	Immature	N/A	Red pine is patchy and growth is variable. DBHs from 3-6 and heights from 10-25. Some red maple and black cherry filling in the holes Planted in '02.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>94</td> <td>Sapling/Pole</td> <td>4</td> <td>20</td> </tr> <tr> <td>Black Cherry</td> <td>1</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>4</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>1</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	94	Sapling/Pole	4	20	Black Cherry	1	Sapling	2		Red Maple	4	Sapling	2		Quaking Aspen	1	Sapling	2																											
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Pine	94	Sapling/Pole	4	20																																																
Black Cherry	1	Sapling	2																																																	
Red Maple	4	Sapling	2																																																	
Quaking Aspen	1	Sapling	2																																																	
3	42110 - Planted Red Pine	Poletimber Well	70.7	25	Immature	N/A	Planted in '97																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>95</td> <td>Pole/Sapling</td> <td>5</td> <td>25</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Sapling	2		Red Pine	95	Pole/Sapling	5	25																																				
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Maple	5	Sapling	2																																																	
Red Pine	95	Pole/Sapling	5	25																																																
4	4132 - Aspen, Jack Pine	Poletimber Well	11.2	42	111-140	N/A	Stand cut in '80. Pole sized aspen with some in the log size that are declining. Pockets of Jack pine.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>25</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>60</td> <td>Pole</td> <td>8</td> <td>42</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	5	Pole/Sapling	6		White Spruce	5	Pole	8		Jack Pine	25	Pole	8		Quaking Aspen	60	Pole	8	42	Red Maple	5	Pole/Log	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	Sapling	Balsam Fir	Medium	Variable	Sapling	Sugar Maple	Medium	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																																
Balsam Fir	5	Pole/Sapling	6																																																	
White Spruce	5	Pole	8																																																	
Jack Pine	25	Pole	8																																																	
Quaking Aspen	60	Pole	8	42																																																
Red Maple	5	Pole/Log	9																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Red Maple	Low	5 - 10 feet	Sapling																																																	
Balsam Fir	Medium	Variable	Sapling																																																	
Sugar Maple	Medium	Variable	Sapling																																																	
5	42110 - Planted Red Pine	Sapling Well	22.2	20	Immature	N/A	Red pine doing well. Trees are on average 20'. Cc in '99, planted in '02																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>95</td> <td>Sapling</td> <td>4</td> <td>20</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	5	Sapling	2		Red Pine	95	Sapling	4	20																																				
Canopy Species	% Cover	Size Class	DBH	Age																																																
Black Cherry	5	Sapling	2																																																	
Red Pine	95	Sapling	4	20																																																
6	3102 - Grass	Nonstocked	9.0			No	R.O.W.																																													
7	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	96.8	74	51-80	N/A	The basal area is quite low. Very few beech left in the overstory. The understory is thick with beech and some maple. There probably won't be any harvest opportunities for awhile here. Hungry Horse Hardwood 45-106-03, completed 2007. Stand was thinned last entry. Losing beech fast. Will result in lower basal area. Check in 10 years.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>25</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>70</td> <td>Log/Pole</td> <td>12</td> <td>74</td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	25	Log/Pole	10		Sugar Maple	70	Log/Pole	12	74	Beech	5	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Maple (spp.)</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	Variable	Sapling	Beech	High	Variable	Sapling	Maple (spp.)	Medium	Variable	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Maple	25	Log/Pole	10																																																	
Sugar Maple	70	Log/Pole	12	74																																																
Beech	5	Log/Pole	10																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Black Cherry	Low	Variable	Sapling																																																	
Beech	High	Variable	Sapling																																																	
Maple (spp.)	Medium	Variable	Sapling																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
8	42110 - Planted Red Pine	Sawtimber Well	7.3	73	111-140	N/A	Second thin in 2015. 45-124-13-01. Prout Pine																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>100</td> <td>Log</td> <td>12</td> <td>73</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log	12	73	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	Sapling	Beech	Medium	Variable	Sapling																													
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Red Pine	100	Log	12	73																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Red Maple	Low	5 - 10 feet	Sapling																																																			
Beech	Medium	Variable	Sapling																																																			
9	3303 - Mixed Low Density Trees	Nonstocked	4.2		Unspecified	No																																																
10	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	18.5	77	51-80	N/A	Stand was thinned in '03. Only a few beech remain. A few pockets of white pine.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>51</td> <td>Log/Pole</td> <td>10</td> <td>77</td> </tr> <tr> <td>Quaking Aspen</td> <td>2</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Beech</td> <td>2</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>35</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	51	Log/Pole	10	77	Quaking Aspen	2	Pole	9		Beech	2	Log/Pole	10		Red Maple	35	Log/Pole	10		White Pine	5	Log	14		Yellow Birch	5	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	Variable	Sapling	Beech	Medium	Variable	Sapling	Red Maple	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Sugar Maple	51	Log/Pole	10	77																																																		
Quaking Aspen	2	Pole	9																																																			
Beech	2	Log/Pole	10																																																			
Red Maple	35	Log/Pole	10																																																			
White Pine	5	Log	14																																																			
Yellow Birch	5	Log/Pole	10																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Sugar Maple	Low	Variable	Sapling																																																			
Beech	Medium	Variable	Sapling																																																			
Red Maple	Low	Variable	Sapling																																																			
11	310 - Herbaceous Openland	Nonstocked	1.2			No																																																
12	3102 - Grass	Nonstocked	24.0			No	R.O.W.																																															
13	42110 - Planted Red Pine	Poletimber Well	40.2	20	81-110	N/A	Planted in '02. Red pine is 25-30' and 4-7" DBH.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>90</td> <td>Pole/Sapling</td> <td>5</td> <td>20</td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	90	Pole/Sapling	5	20	Quaking Aspen	5	Sapling	2		Black Cherry	5	Sapling	2																																		
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Red Pine	90	Pole/Sapling	5	20																																																		
Quaking Aspen	5	Sapling	2																																																			
Black Cherry	5	Sapling	2																																																			
14	4139 - Aspen, Mixed Deciduous	Poletimber Well	16.0	36	111-140	N/A	Clear cut in 1986. Good aspen mixed with maple. Small pocket of red pine along the north boundary.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>4</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>50</td> <td>Pole/Sapling</td> <td>5</td> <td>36</td> </tr> <tr> <td>Red Pine</td> <td>1</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>20</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	4	Pole/Sapling	5		Quaking Aspen	50	Pole/Sapling	5	36	Red Pine	1	Log	12		Sugar Maple	20	Pole	9		Red Maple	15	Pole/Sapling	5		Black Cherry	10	Pole/Sapling	5		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Maple (spp.)</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Maple (spp.)	Medium	Variable	Sapling								
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Balsam Fir	4	Pole/Sapling	5																																																			
Quaking Aspen	50	Pole/Sapling	5	36																																																		
Red Pine	1	Log	12																																																			
Sugar Maple	20	Pole	9																																																			
Red Maple	15	Pole/Sapling	5																																																			
Black Cherry	10	Pole/Sapling	5																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Maple (spp.)	Medium	Variable	Sapling																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
15	4130 - Aspen	Sapling Well	34.9	21	Immature	N/A	Cut in '00. Prout Rd Mix 45-011-94. Good, thick aspen stand.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>90</td> <td>Sapling</td> <td>3</td> <td>21</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	5	Sapling	3		Quaking Aspen	90	Sapling	3	21	Black Cherry	5	Sapling	2																																					
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Bigtooth Aspen	5	Sapling	3																																																						
Quaking Aspen	90	Sapling	3	21																																																					
Black Cherry	5	Sapling	2																																																						
16	4112 - Maple, Beech, Cherry Association	Sawtimber Well	585.2	88	51-80	N/A	Large hardwood stand. There have been recent timber sales in almost all parts of the stand. Basal area throughout is mostly low, around 50-60. There are a few pockets with higher density (west of stand 22). Beech was salvaged and died out. Reduced basal area throughout the stand. Bombed Out Beech #45-106-14-01 cut between 2015 and 2017. (North half of stand) About 400 oak saplings were planted in the stand in 2012 FTP: W 44-594A deer fence was erected and BBD resistant beech were planted in Sec 2 SWSE, SESE FTP: C44-593. Ongoing garlic mustard spraying and pulling near Cut River Rd. FTP C44-600Re Route Hardwood 45-115-08 Beechless Hardwood 45-116-08																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>25</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Pole/Log</td> <td>10</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>50</td> <td>Log/Pole</td> <td>11</td> <td>88</td> </tr> <tr> <td>Hemlock</td> <td>5</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole/Log</td> <td>10</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>10</td> <td>Log</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	25	Log/Pole	11		Black Cherry	5	Pole/Log	10		Sugar Maple	50	Log/Pole	11	88	Hemlock	5	Log	11		Paper Birch	5	Pole/Log	10		Yellow Birch	10	Log	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Conifers</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Maple (spp.)</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Conifers	Low	Variable	Sapling	Maple (spp.)	Medium	Variable	Sapling	Beech	Medium	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Maple	25	Log/Pole	11																																																						
Black Cherry	5	Pole/Log	10																																																						
Sugar Maple	50	Log/Pole	11	88																																																					
Hemlock	5	Log	11																																																						
Paper Birch	5	Pole/Log	10																																																						
Yellow Birch	10	Log	12																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Conifers	Low	Variable	Sapling																																																						
Maple (spp.)	Medium	Variable	Sapling																																																						
Beech	Medium	Variable	Sapling																																																						
17	310 - Herbaceous Openland	Nonstocked	3.2			No																																																			
18	6120 - Lowland Cedar	Poletimber Well	155.1	114	81-110	N/A	Lowland cedar at base of very steep escarpment along u.s. highway 2. Nice looking cedar in most places. Very wet in some areas and dominated by tag alder. Mix of spruce, balsam, red maple and some birch.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>3</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Pole</td> <td>8</td> <td>114</td> </tr> <tr> <td>White Spruce</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Log/Pole</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	3	Pole	6		Northern White Cedar	60	Pole	8	114	White Spruce	10	Pole	6		Black Spruce	10	Pole	6		Balsam Fir	15	Pole	6		White Pine	2	Log/Pole	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Conifers</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Conifers	Medium	Variable	Sapling	Tag Alder	Medium	10 - 20 feet	Tall Shrub							
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Paper Birch	3	Pole	6																																																						
Northern White Cedar	60	Pole	8	114																																																					
White Spruce	10	Pole	6																																																						
Black Spruce	10	Pole	6																																																						
Balsam Fir	15	Pole	6																																																						
White Pine	2	Log/Pole	15																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Conifers	Medium	Variable	Sapling																																																						
Tag Alder	Medium	10 - 20 feet	Tall Shrub																																																						
19	4115 - Y.Birch, Hemlock NH	Sawtimber Well	28.7	90	81-110	N/A	Stand is on face of Manitou-Paymen highbanks escarpment south of u.s. 2. No operability here, period. Proposed as old growth in '92. Unique site, very mature trees.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>40</td> <td>Log/XLog</td> <td>15</td> <td>90</td> </tr> <tr> <td>Sugar Maple</td> <td>30</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>15</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>10</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/XLog</td> <td>18</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	40	Log/XLog	15	90	Sugar Maple	30	Log/XLog	16		Hemlock	15	Log/XLog	16		Yellow Birch	10	Log/XLog	15		White Pine	5	Log/XLog	18		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hemlock</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Hemlock	Low	Variable	Sapling	Sugar Maple	Low	Variable	Sapling								
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Maple	40	Log/XLog	15	90																																																					
Sugar Maple	30	Log/XLog	16																																																						
Hemlock	15	Log/XLog	16																																																						
Yellow Birch	10	Log/XLog	15																																																						
White Pine	5	Log/XLog	18																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Red Maple	Low	Variable	Sapling																																																						
Hemlock	Low	Variable	Sapling																																																						
Sugar Maple	Low	Variable	Sapling																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
20	310 - Herbaceous Openland	Nonstocked	34.6	0	Unspecified	4211 - Planted Red Pine	<p>Cut in 2015. Prout Pine 45-124-13-01. Trenched in 2017. FTP# C44-614. Planted 5/10/2018. Approximately 30-35% Mortality during first growing season regen check. Some rows have long areas of mortality and others not. Trenchesa are good and visible. Prescribe a replant for this stand and monitor for release going forward.</p> <p>Replanted 5/20/2019: Quality checks: 0.00% too deep, 0.56% bad stem angle, 0.00% too loose, 0.00% "J" rooted. Weather: Sunny, 55 degrees. Stocking = Planted 399 tr/ac, 956 trees/ac plot data, 900 tr/ac linear. Avg spacing 5.3 ft Total cost = \$117.84/ac 6% dead trees in first year check. 900 trees per acre present.</p>																																																																								
21	710 - Sand, Soil	Nonstocked	5.9			No																																																																									
22	310 - Herbaceous Openland	Nonstocked	3.8			No																																																																									
23	3102 - Grass	Nonstocked	4.3		Unspecified	No																																																																									
24	42290 - Natural Mixed Pine	Sawtimber Well	12.6	81	111-140	N/A	<p>Stand is a mix of pine, spruce, fir and a few scattered aspen and birch. Buffer corridor for the Cut River.</p> <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> <td>White Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>40</td> <td>Log/Pole</td> <td>12</td> <td>81</td> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>White Spruce</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	5	Pole/Sapling	5		White Spruce	Low	Variable	Sapling	Red Pine	40	Log/Pole	12	81	Balsam Fir	Medium	Variable	Sapling	Balsam Fir	20	Pole	9						Jack Pine	10	Pole	6						Paper Birch	5	Pole	8						White Pine	10	Log/Pole	13						White Spruce	10	Pole	8					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
Quaking Aspen	5	Pole/Sapling	5		White Spruce	Low	Variable	Sapling																																																																							
Red Pine	40	Log/Pole	12	81	Balsam Fir	Medium	Variable	Sapling																																																																							
Balsam Fir	20	Pole	9																																																																												
Jack Pine	10	Pole	6																																																																												
Paper Birch	5	Pole	8																																																																												
White Pine	10	Log/Pole	13																																																																												
White Spruce	10	Pole	8																																																																												
25	42110 - Planted Red Pine	Sapling Well	18.9	20	Immature	N/A	<p>Red pine looks good. Heights 20-25'. DBHs 3-6".</p> <p>Clear cut in '01, planted in '02.</p> <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>95</td> <td>Sapling</td> <td>4</td> <td>20</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	5	Sapling	2		Red Pine	95	Sapling	4	20																																																									
Canopy Species	% Cover	Size Class	DBH	Age																																																																											
Jack Pine	5	Sapling	2																																																																												
Red Pine	95	Sapling	4	20																																																																											
26	4112 - Maple, Beech, Cherry Association	Sawtimber Well	48.5	76	51-80	N/A	<p>Thinned in 2001. Cut River Hardwood 45-16-99. Basal area is still pretty low, around 60-70. Loss of beech has left some natural canopy gaps. Check in 10 years.</p> <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>40</td> <td>Log/Pole</td> <td>11</td> <td></td> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>50</td> <td>Log/Pole</td> <td>11</td> <td>76</td> <td>Balsam Fir</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>9</td> <td>Log/Pole</td> <td>10</td> <td></td> <td>Beech</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Yellow Birch</td> <td>1</td> <td>Log/Pole</td> <td>10</td> <td></td> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	40	Log/Pole	11		Red Maple	Low	Variable	Sapling	Sugar Maple	50	Log/Pole	11	76	Balsam Fir	Trace	5 - 10 feet	Sapling	Beech	9	Log/Pole	10		Beech	High	Variable	Sapling	Yellow Birch	1	Log/Pole	10		Sugar Maple	Low	Variable	Sapling																											
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
Red Maple	40	Log/Pole	11		Red Maple	Low	Variable	Sapling																																																																							
Sugar Maple	50	Log/Pole	11	76	Balsam Fir	Trace	5 - 10 feet	Sapling																																																																							
Beech	9	Log/Pole	10		Beech	High	Variable	Sapling																																																																							
Yellow Birch	1	Log/Pole	10		Sugar Maple	Low	Variable	Sapling																																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

27 3102 - Grass Nonstocked 6.2 No R.O.W.

28 4110 - Sugar Maple Association Sawtimber Well 182.3 91 51-80 N/A Thinned in 2001; Cut River Hardwood 45-116-99.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	17	Log/Pole	13		Beech	High	10 - 20 feet	Sapling
Beech	3	Log/Pole	10		Sugar Maple	High	10 - 20 feet	Sapling
Sugar Maple	80	Log/Pole	13	91				

A strip of this stand was clearcut in 2020 for the reroute of US-2.
Almost all the beech has died out at this point. Basal areas low where beech is gone. Very thick advanced maple and beech regen.

29 4134 - Aspen, Spruce/Fir Poletimber Well 34.8 32 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	25	Pole/Sapling	6	
White Spruce	10	Pole/Sapling	5	
Quaking Aspen	60	Sapling/Pole	4	32
White Pine	5	Log	12	

Aspen with mix of spruce and fir. Still a lot of immature trees. Check in 10 years.

30 4319 - Mixed Upland Forest Sapling Well 34.7 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	49	Sapling	1	6
Red Maple	10	Sapling	1	
White Pine	20	Log/Pole	13	
White Spruce	5	Sapling	1	
Balsam Fir	15	Sapling	1	
Hemlock	1	Pole	8	

Regen is doing much better here than in the clear cut to the north. A lot of white pine and scattered hemlock were left in the last cutting. Cut in 2016 Prout Spruce. #45-125-13-01.

31 4319 - Mixed Upland Forest Sawtimber Well 35.2 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole	8		Maple (spp.)	High	Variable	Sapling
Red Maple	35	Log/Pole	13	97	Conifers	Medium	Variable	Sapling
White Pine	5	Log/Pole	14					
Yellow Birch	10	Log/Pole	13					
Hemlock	20	Pole/Log	11					
Balsam Fir	20	Pole/Log	9					

Stand is small steep gorge along cut river corridor. Nominated as proposed old growth in '92

32 4134 - Aspen, Spruce/Fir Sapling Medium 9.7 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	1	
White Pine	15	Log/Pole	13	
White Spruce	10	Sapling	1	
Quaking Aspen	65	Sapling	1	6

Aspen regen is patchy, about 50-60% coverage. Mature white pine was left as retention. Cut in 2016. Prout Spruce. #45-125-13-01



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
33	623 - Emergent Wetland	Nonstocked	3.6	0		No	Wet opening																																														
34	3302 - Low Density Conifer Trees	Nonstocked	2.6			No																																															
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Conifers</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Conifers	Low	>20 feet	Pole																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Conifers	Low	>20 feet	Pole																																																		
35	710 - Sand, Soil	Nonstocked	1.4			No	Bare sand....																																														
36	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	6.2	88	81-110	N/A	With the reroute of US-2 it does not appear that MDOT is maintaining this as a parking lot anymore.																																														
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>45</td> <td>Log/Pole</td> <td>13</td> <td>88</td> </tr> <tr> <td>Hemlock</td> <td>10</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Beech</td> <td>10</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> </tbody> </table>				Canopy Species	% Cover	Size Class	DBH	Age	White Pine	10	Log/Pole	14		Red Maple	25	Log/Pole	12		Sugar Maple	45	Log/Pole	13	88	Hemlock	10	Log/Pole	13		Beech	10	Log/Pole	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Maple (spp.)</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Conifers</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Maple (spp.)	Medium	Variable	Sapling	Beech	Medium	Variable	Sapling	Conifers	Medium	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																	
White Pine	10	Log/Pole	14																																																		
Red Maple	25	Log/Pole	12																																																		
Sugar Maple	45	Log/Pole	13	88																																																	
Hemlock	10	Log/Pole	13																																																		
Beech	10	Log/Pole	14																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Maple (spp.)	Medium	Variable	Sapling																																																		
Beech	Medium	Variable	Sapling																																																		
Conifers	Medium	Variable	Sapling																																																		
37	4115 - Y.Birch, Hemlock NH	Sawtimber Well	68.0	90	81-110	N/A	Stand is located on steep escarpment (Manitou-Paymen highbanks) south of u.s. 2. Mature trees. Proposed as old growth in '92. Stand contains area adjacent to the MDOT roadside park at cut river. Garlic mustard exists on the steep slope in this area.																																														
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>5</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>10</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>40</td> <td>XLog/Log</td> <td>15</td> <td>90</td> </tr> <tr> <td>Sugar Maple</td> <td>30</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>15</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> </tbody> </table>				Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Log/XLog	15		Yellow Birch	10	Log/XLog	15		Red Maple	40	XLog/Log	15	90	Sugar Maple	30	Log/XLog	16		Hemlock	15	Log/XLog	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Maple (spp.)</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hemlock</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Maple (spp.)	Low	Variable	Sapling	Hemlock	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																	
White Pine	5	Log/XLog	15																																																		
Yellow Birch	10	Log/XLog	15																																																		
Red Maple	40	XLog/Log	15	90																																																	
Sugar Maple	30	Log/XLog	16																																																		
Hemlock	15	Log/XLog	15																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Maple (spp.)	Low	Variable	Sapling																																																		
Hemlock	Low	Variable	Sapling																																																		
38	710 - Sand, Soil	Nonstocked	18.8		Unspecified	No	Lake Michigan shoreline/ beach. Includes the mouth of the Cut River.																																														
39	3102 - Grass	Nonstocked	4.9		Unspecified	No	R.O.W.																																														
40	4115 - Y.Birch, Hemlock NH	Sawtimber Poor	4.5	81	81-110	N/A	Stand is MDOT roadside park (east side) at cut river. Large hemlock on steep gorge along river corridor. Beech is los. Some white pine.																																														
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>25</td> <td>Pole</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Beech</td> <td>10</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>35</td> <td>Log/Pole</td> <td>11</td> <td>81</td> </tr> <tr> <td>Hemlock</td> <td>20</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> </tbody> </table>				Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	25	Pole	10		White Pine	10	Log/Pole/XLog	14		Beech	10	Log/Pole	14		Sugar Maple	35	Log/Pole	11	81	Hemlock	20	Log/Pole	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Maple (spp.)</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Conifers</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Medium	Variable	Sapling	Maple (spp.)	Medium	Variable	Sapling	Conifers	Medium	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Red Maple	25	Pole	10																																																		
White Pine	10	Log/Pole/XLog	14																																																		
Beech	10	Log/Pole	14																																																		
Sugar Maple	35	Log/Pole	11	81																																																	
Hemlock	20	Log/Pole	14																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Beech	Medium	Variable	Sapling																																																		
Maple (spp.)	Medium	Variable	Sapling																																																		
Conifers	Medium	Variable	Sapling																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
41	4110 - Sugar Maple Association	Sawtimber Well	18.0	62	51-80	N/A	Low basal areas after thinning and loss of beech. Mainly pole stand now.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>5</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>80</td> <td>Log/Pole</td> <td>10</td> <td>62</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Beech	5	Log/Pole	11		Red Maple	15	Log/Pole	10		Sugar Maple	80	Log/Pole	10	62	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Maple (spp.)</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Maple (spp.)	High	Variable	Sapling																											
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Beech	5	Log/Pole	11																																																							
Red Maple	15	Log/Pole	10																																																							
Sugar Maple	80	Log/Pole	10	62																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Maple (spp.)	High	Variable	Sapling																																																							
42	4115 - Y.Birch, Hemlock NH	Sawtimber Well	41.4	96	81-110	N/A	Stand is the gorge along the Cut River. It is a mix of maple, birch, hemlock, and beech with some scattered white pine. Birch is primarily on the east side of the river. There is a hiking trail through this stand that starts in the parking lot (stand 40). Because of bmps, steepness, and recreational values there are no opportunities to harvest here.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>35</td> <td>Log/Pole</td> <td>13</td> <td>96</td> </tr> <tr> <td>Hemlock</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>15</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Beech	5	Log/Pole	12		Red Maple	25	Log/Pole	13		White Pine	5	Log	14		Sugar Maple	35	Log/Pole	13	96	Hemlock	15	Log/Pole	12		Yellow Birch	15	Log/Pole	13		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Conifers</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Maple (spp.)</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Conifers	Low	Variable	Sapling	Beech	Medium	Variable	Sapling	Maple (spp.)	Medium	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Beech	5	Log/Pole	12																																																							
Red Maple	25	Log/Pole	13																																																							
White Pine	5	Log	14																																																							
Sugar Maple	35	Log/Pole	13	96																																																						
Hemlock	15	Log/Pole	12																																																							
Yellow Birch	15	Log/Pole	13																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Conifers	Low	Variable	Sapling																																																							
Beech	Medium	Variable	Sapling																																																							
Maple (spp.)	Medium	Variable	Sapling																																																							
43	3102 - Grass	Nonstocked	2.2		Unspecified	No	R.O.W.																																																			
44	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	82.8	78	51-80	N/A	Mostly sugar and red maple with a few yellow birch. Still some live beech throughout the stand and heavy beech brush in the understory. Basal area is variable throughout with some areas near 0 BA. Average is 50-60. Hold off on all harvesting until the stand recovers from BBD. -KF 12/1/2020 Stand was thinned in '97. Almost all the beech has been decimated by bbd and is gone, creating some large holes in the canopy and lower basal area. Garlic mustard is along the old road that enters off cut river road.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>40</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>49</td> <td>Log/Pole</td> <td>11</td> <td>78</td> </tr> <tr> <td>Yellow Birch</td> <td>1</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Beech</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	40	Log/Pole	11		Sugar Maple	49	Log/Pole	11	78	Yellow Birch	1	Pole/Log	8		Beech	10	Pole/Log	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Striped Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Beech	High	Variable	Sapling	Striped Maple	Low	Variable	Sapling	Sugar Maple	Low	5 - 10 feet	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Red Maple	40	Log/Pole	11																																																							
Sugar Maple	49	Log/Pole	11	78																																																						
Yellow Birch	1	Pole/Log	8																																																							
Beech	10	Pole/Log	9																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Red Maple	Low	Variable	Sapling																																																							
Beech	High	Variable	Sapling																																																							
Striped Maple	Low	Variable	Sapling																																																							
Sugar Maple	Low	5 - 10 feet	Sapling																																																							
45	122 - Road/Parking Lot	Nonstocked	30.5	0		No	US-2 with new reroute.																																																			
46	42110 - Planted Red Pine	Sapling Well	12.0	20	Immature	N/A	Stand is patchy. Canopy closure is around 75-80%. Close to being an R2Trees are about 20', 3-5" DBH Clear cut in '01, planted in '02.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>95</td> <td>Sapling/Pole</td> <td>4</td> <td>20</td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	95	Sapling/Pole	4	20	Jack Pine	5	Sapling	3																																											
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Red Pine	95	Sapling/Pole	4	20																																																						
Jack Pine	5	Sapling	3																																																							
47	310 - Herbaceous Openland	Nonstocked	9.9			No	Formerly US-2 prior to reroute.																																																			