Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45170
Entry Year 2026
Acreage: 1,912
County Mackinac
Management Area: St. Ignace Lake Plain

Stand Examiner: Cody Flatt

Legal Description:

T44N-R9W, Sections 23, 26 & 35

Identified Planning Goals:

This compartment is located approximately 4 miles Northeast of Naubinway, specifically 2 miles North of Hiawatha Trail on Cranberry Lake Rd.. Objectives this entry period include: Final harvest and thinning of some existing mature red pine stands to promote age class diversity and initiate regeneration. An existing immature red pine stand will be monitored for release and pest concerns.

Soil and topography:

The compartment topography is generally flat to gently rolling. There are some low ridges within the bogged area. Generally the west and southern portions of the compartment are dominated by sandy soils; Wallace, Paquin-Finch, and Spot-Finch complex. The northern 2/3 and eastern parts of the compartment are dominated by Dawson-Loxely Peats and Finch-Dawson-Pullup complex. There is an area of Rubicon sand in the NW.

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

The entire compartment is comprised of state owned land. Hiawatha Sportsman's Club borders the entire compartment to the west. There is a private forty bordering section 35 to the east. There are two private holdings bordering the SESW and SWSE of section 35.

Unique Natural Features:

There is a large blueberry bog complex located within the compartment. There is a potential for rare threatened or endangered plant and animal species within the compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Blueberry bog along Cranberry Lake Road is under proposal for prescribed burning for maintenance.

Watershed and Fisheries Considerations:

This compartment contains many unnamed inland waterbodies. A minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended for unnamed waterbodies to protect shoreland areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is part of the St. Ignace lake Plain Management Area, and includes part of the Cranberry bog complex which contains muskeg. The bog complex and other associated wetlands are common on the east side of the compartment. The western portion is dominated more by hardwoods, pine, and mixes including hemlock and white pine. The original surveyor's notes show that this area generally contained a diversity of tree species in the pre-settlement forest. The assemblage of tree species includes hemlock, white birch, yellow birch, sugar maple, black ash, aspen, elm, red maple, and cedar. Lowlands also contained spruce and tamarack. Hemlock and white pine occupy a fair amount of the land interspersed with a mosaic of both hard and softwood types. The southern end contains more aspen types, and has been managed to provide age class diversity. This is a highly diverse compartment with wildlife habitat objectives including maintenance of the mature mesic confer component as well as wetlands including the muskeg. Wildlife species with the potential to benefit from management in the compartment include white-tailed deer, American woodcock, bobcat, snowshoe hare, black bear, blackburnian warbler and other neo-tropical migrant birds.

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 and Manistique Groups subcrop below the glacial drift. The Engadine is quarried for

stone/limestone elsewhere in the UP. Gravel pits are not located in the compartment and potential may be limited. A well was drilled in Section 27 in the 1940s. No known potential exists for economic production of oil & gas or metallic minerals in this part of the state. The closest active sand/gravel operation is roughly three miles east. There may be some potential for sand & gravel within the compartment on the uplands on the west side, but much of the compartment is covered by wetlands, which could inhibit surface mining. Potential for mineral development within the compartment in the near future is considered low.

Vehicle Access:

Main access into the compartment is via Cranberry Lake Road (County), which runs north/south through the entire length of the compartment. There are numerous two-track woods roads accessing stands from Cranberry Lake Road throughout the compartment. Cranberry Lake Road meets Mackinac County Road H-40 approximately 2.5 miles to the south of the compartment.

Survey Needs:

Blue property lines will need to be painted, but existing corners are adequate.

Recreational Facilities and Opportunities:

Hunting and trapping opportunities are plentiful with the wide range of habitat types within this compartment (see wildlife notes). Blueberry picking is also common. Cranberry Lake road is a groomed snowmobile trail #2.

Fire Protection:

There is potential for fire in this compartment. The combination of high use (recreation, logging, etc.) and favorable fuel types lends to the possibility of fire. The upland fuel types are predominantly pine with some areas of hardwoods. There is a large area of blueberry bog, which is presently scheduled for prescribed burn. There is limited access to the scattered ridges to the east edge of the compartment. Water is normally available at various locations around the bog. There are no other permanent water sources within the compartment.

Additional Compartment Information:

None

The following reports from the Inventory are attached:

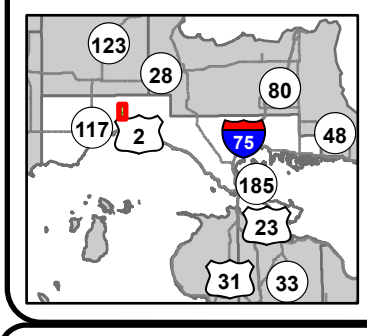
- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition 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: 45170
T44N, R09W, Sec. 23, 26, 35
County: Mackinac
Unit: Sault Ste. Marie
Mgmt Area: St. Ignace Lake Plain
YOE: 2026
Acres: 1911.8 GIS Calculated
Examiner: Cody Flatt
Map Revised: 07/20/2024
Map Phase: Web Post



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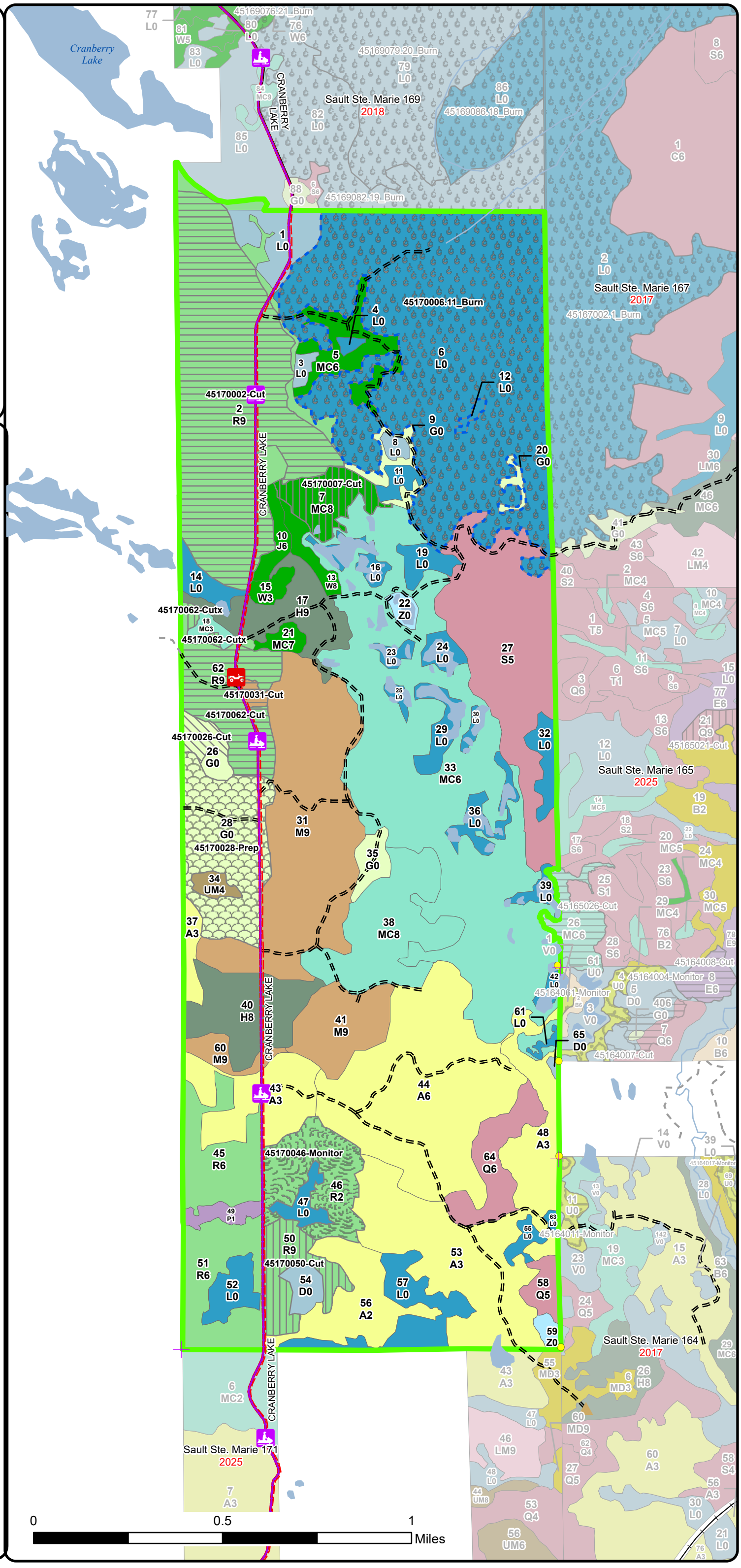
- Berms
- Survey Grade Corners
- Remonumented Section Corners
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Other Harvest - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn
- Shelter Wood (w/Reserves)
- Monitoring
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland



Stand Boundary Map

Compartment: 45170
T44N, R09W, Sec. 23, 26, 35
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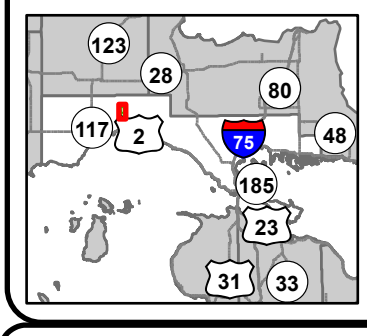

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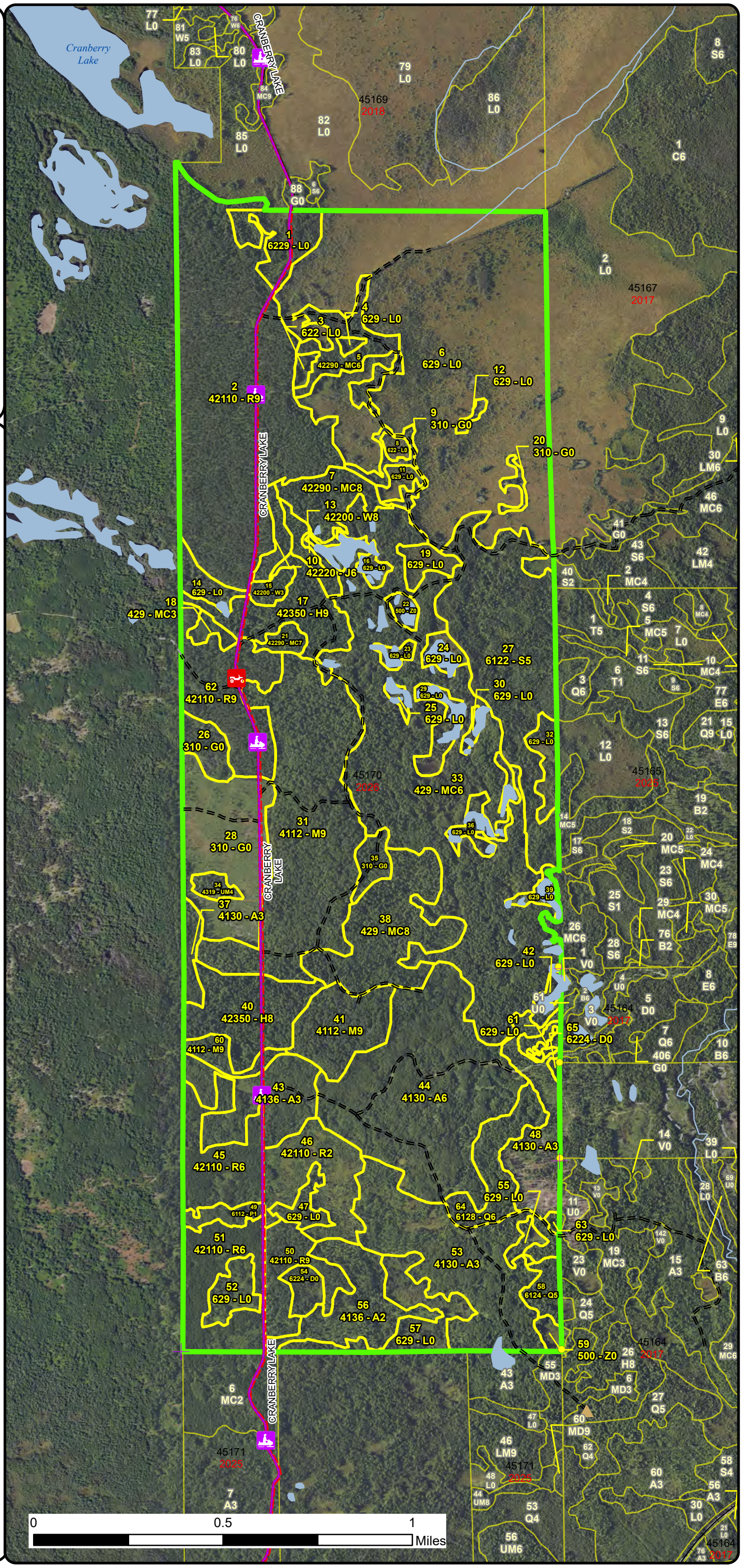

Special Conservation Areas & Site Conditions Map

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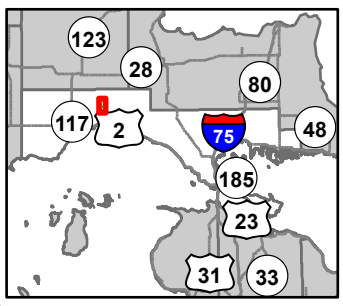

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DEPARTMENT OF NATURAL RESOURCES · MICHIGAN · DNR

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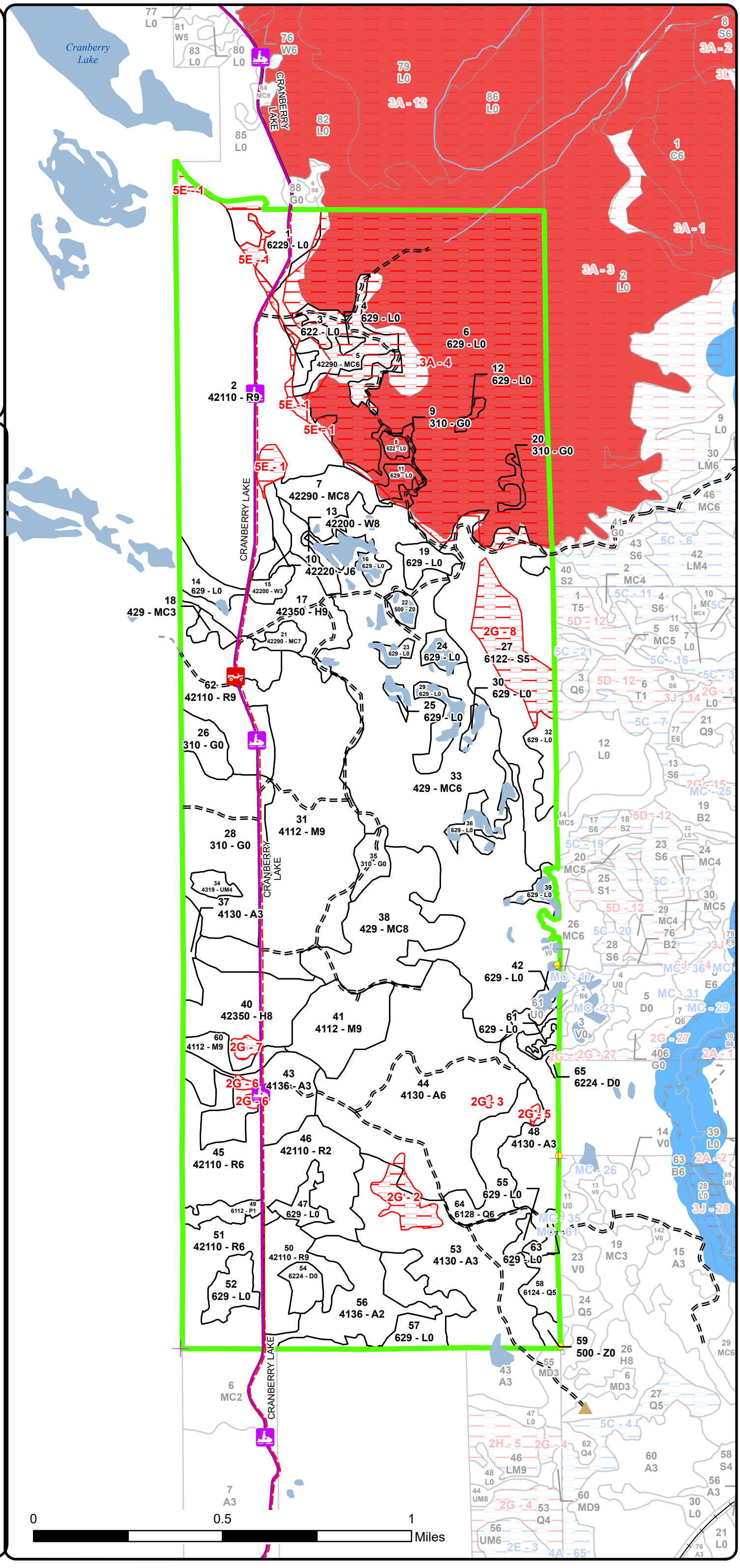
- Active Railroads
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 170 Year of Entry 2026**

Cody Flatt : Examiner

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	31	33	124	124	0	0	0	0	0	0	0	0	0	0	0	0	0	**312**
Hemlock	0	0	0	0	0	0	0	0	0	0	69	0	0	0	0	0	0	0	**69**
Herbaceous Openland	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**83**
Jack Pine	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Lowland Aspen/Balsam Poplar	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**6**
Lowland Conifers	0	0	0	0	8	0	0	24	0	0	0	0	0	0	0	0	0	0	**32**
Lowland Shrub	436	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**436**
Lowland Spruce/Fir	0	0	0	0	96	0	0	0	0	0	0	0	0	0	0	0	0	0	**96**
Natural Mixed Pines	0	0	0	0	0	0	0	23	0	5	19	0	0	0	0	0	0	0	**47**
Northern Hardwood	0	0	0	0	0	0	0	0	29	132	0	0	0	0	0	0	0	0	**161**
Red Pine	0	0	35	68	0	0	0	0	0	245	0	0	0	0	0	0	0	0	**348**
Treed Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**8**
Upland Conifers	0	0	0	4	0	0	0	229	0	0	53	0	0	0	0	0	0	0	**286**
Upland Mixed Forest	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
White Pine	0	0	0	0	5	0	0	0	7	0	0	0	0	0	0	0	0	0	**12**
Total	**534**	**31**	**68**	**202**	**244**	**0**	**0**	**276**	**36**	**382**	**141**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1914**

Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit

Year of Entry: 2026

Compartment 170

Total Compartment Acres: 1,912

Acres of Harvest

Commercial Harvest - 256

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
Herbaceous Openland	0	0	0	0	0	0	0	0	7	**7**
Natural Mixed Pines	0	0	0	0	19	0	0	0	0	**19**
Northern Hardwood	3	0	0	0	0	0	0	0	0	**3**
Red Pine	203	0	0	0	25	0	0	0	0	**228**
Total	**206**	**0**	**0**	**0**	**44**	**0**	**0**	**0**	**7**	**257**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	257	56	0	0	284	0	35	0	0	**632**
Next Step	0	474	262	0	232	935	907	262	0	**3072**
Total	**257**	**530**	**262**	**0**	**516**	**935**	**942**	**262**	**0**	**3703**

Proposed Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
2	45170002-Cut	163.4	42110 - Planted Red Pine	Sawtimber Well	87	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No

Prescription Specs: Cut all trees 1" or greater at DBH.

Retention along bog edge and pockets that are too wet to plant pine. These areas are designated by Site Condition 5E-1 in MiFI

Next Step Treatments: Burn, Slash; SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Si

Acceptable Regen: Red pine

Other Comment: Chipping or burning recommended

Flat planting is preferred on East side of Cranberry Lake Rd.

Site Condition

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
7	45170007-Cut	19.1	42290 - Natural Mixed Pine	Sawtimber Medium	95	51-80	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Two-Aged	No

Prescription Specs: Harvest stand to average of 30-50 BA, except leave only 10-20 BA red pine in East portion of stand where canopy is mostly red pine. Leave most white pine, cut for operational needs. Do not cut hemlock. Cut all other trees that are 4" or greater at DBH. Trees left standing following harvest will be retained as long term retention. Exclude wet areas from treatment.

Next Step Treatments: Burn, Slash; Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: white pine, red, pine, jack pine, spruce, fir, maple, birch, aspen, cherry

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26	45170026-Cut	6.6	310 - Herbaceous Openland	Nonstocked		Unspecified	Harvest	Other - Specify	310 - Herbaceous Openland		No

Prescription Specs: Opening maintenance-
Cut all merchantable trees within treatment area

Next Step Treatments: Burn, Slash; SitePrep, Roller Chopping

Acceptable Regen: None

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31	45170031-Cut	2.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	83	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No

Prescription Specs: Cut all trees 1" or greater at DBH.
No retention due to follow planting and cultivation operations.

Next Step Treatments: Burn, Slash; SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Pesticide, Aerial - Release; Pesticide, Skidder - Release; Other, Pre-Commercial Thinning

Acceptable Regen: red pine

Other Comment: Chipping of tops recommended.

Site Condition

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
46	45170046-Monitor	35.2	42110 - Planted Red Pine	Sapling Medium	10	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	No

Prescription Specs: Monitor for RHPS and if monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
50	45170050-Cut	21.7	42110 - Planted Red Pine	Sawtimber Well	85	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No

Prescription Specs: Cut all trees 4" or greater at DBH. Leave stand at 10-20BA, retaining underrepresented species where possible for diversity

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Pine, spruce, fir, aspen, maple, birch, cherry

Other Comment: Trees left standing following harvest will serve as long term retention.

Site Condition

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
62	45170062-Cut	40.0	42110 - Planted Red Pine	Sawtimber Well	87	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No

Prescription Specs: Cut all trees 1" or greater at DBH. No retention due to follow planting and cultivation operations.

Next Step Treatments: Burn, Slash; SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Pesticide, Aerial - Release; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1y

Acceptable Regen: Red pine

Other Comment: Chipping of tops recommended.

Site Condition

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
62	45170062-Cutx	3.1	42110 - Planted Red Pine	Sawtimber Well	87	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No

Prescription Specs: Cut all deciduous trees 2" or greater at DBH and all conifer trees 4" or greater at DBH, except leave 10-20BA of red pine as retention.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Pine, maple, cherry, birch, aspen, fir, spruce

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Approved Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
6	45170006.11_Burn	284.1	629 - Mixed non-forested wetland	Nonstocked		Unspecified	Burn	Lowland	6229 - Mixed lowland shrub		No

Prescription Specs: Prescribed burn periodically to maintain/enhance bog features following the prescribed burn plan for the bog currently in place. Recommended to burn in thirds. This stand would include the northern third and most of the middle third (north of the dike).

Next Step Treatments: Monitoring, Other - Specify

Acceptable Regen:

Other Comment: Part of the Blueberry Bog that has been burned periodically to help produce blueberries. You can see the burn from 2000 viewing the UP Landsat (in a couple different forms). This area has been burned (or proposed to be burned) for many years. A wildfire burned the entire bog in 1955. By 1961 a plan was in place to burn the bog (in 3 different pieces, every 2 years) to maintain blueberries. 100 acres were burned with limited success in 1963. Wildfires in 1966 (E1/2 north of the dike) provided glimpses into how hot a burn should be. The dike was built in 1968. FTP's to burn the bog in thirds by a rotating schedule have been in place in 1961, 1973, 1988 and 1998. Peziometers were installed in 1998 to monitor the water table. This has helped in determining the right time of year to burn. The middle portion of the bog (305 acres north of the dike) was burned in October 2000.

Site Condition: Conservation Values

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
28	45170028-Prep	55.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	No

Prescription Specs:

Next Step Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Release; Other, Pre-Commercial Thinning - Mechanical; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial

Acceptable Regen: Red Pine

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2024

Total Treatment Acreage Proposed: 631.5

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cody Flatt : Examiner

Compartment: 170

Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions 2G	3A	5E
312	299	*0*	13	**Aspen**	13		
68	66	*0*	2	**Hemlock**	2		
83	74	*0*	9	**Herbaceous Openland**		9	
7	7	*0*	0	**Jack Pine**			
6	6	*0*	0	**Lowland Aspen/Balsam Poplar**			
31	31	*0*	1	**Lowland Conifers**	1		
435	150	*0*	285	**Lowland Shrub**		285	
96	66	*0*	30	**Lowland Spruce/Fir**	27	4	
47	28	*0*	19	**Natural Mixed Pines**		19	
161	161	*0*	0	**Northern Hardwood**			
349	332	*0*	16	**Red Pine**		2	14
8	8	*0*	0	**Treed Bog**			
286	286	*0*	0	**Upland Conifers**			
4	4	*0*	0	**Upland Mixed Forest**			
7	7	*0*	0	**Water**			
12	12	*0*	0	**White Pine**			
1,912	1,536		376	Total Forested Acres	42	319	14
	80%		20%	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**	**5E: Long-Term Retention**	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

3	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	0	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

4	**Unavailable**	**3A: Conservation Values incompatible with harvest at this time**	319	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
ERA

5	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	1	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

6	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	2	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

7	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	2	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

8	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	27	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

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

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
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	6229 - Mixed lowland shrub	Nonstocked	19.1	0	Unspecified	No	Wet leatherleaf bog with red pine on some ridges and black spruce in areas.

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Pole
Leatherleaf	Medium	Unspecified	Tall Shrub
Red Pine	Low	>20 feet	Log

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
2	42110 - Planted Red Pine	Sawtimber Well	179.8	87	111-140	N/A	Stand was thinned in 2020 to approximately 120 BA in the Predator Pine sale 45-109-16. Is now fully stocked mature red pine that is ready for final harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	95	Log	13	87
White Pine	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	Variable	Sapling
Quaking Aspen	Low	Variable	Sapling
Red Pine	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
3	622 - Lowland Shrub	Nonstocked	2.5		Unspecified	No	
4	629 - Mixed non-forested wetland	Nonstocked	1.5		Unspecified	No	
5	42290 - Natural Mixed Pine	Poletimber Well	22.9	61	141-170	N/A	Stand of mixed pine species, jack, red, and white. Black spruce near stand edges and some aspen. Mostly poor quality white pine. Jack pine is mature and should be regenerated.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole	8	
Black Spruce	5	Pole	6	
Jack Pine	35	Pole	8	61
Red Pine	25	Pole	8	
White Pine	30	Pole	8	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	629 - Mixed non-forested wetland	Nonstocked	284.3		Unspecified	No	
7	42290 - Natural Mixed Pine	Sawtimber Medium	19.1	95	51-80	N/A	Stand was thinned in 2011. Natural white pine and hemlock west half of stand, planted red pine with natural white pine east half of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	15	Log	16	
Balsam Fir	3	Pole/Sapling	5	
White Spruce	2	Pole/Sapling	5	
White Pine	45	Log	14	95
Red Pine	35	Log	12	87

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Conifers	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	622 - Lowland Shrub	Nonstocked	2.5		Unspecified	No	
9	310 - Herbaceous Openland	Nonstocked	7.2		Unspecified	No	Mostly open with scattered pine

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	42220 - Natural Jack Pine	Poletimber Well	6.7	39	81-110	N/A	Stand of small diameter jack pine. Trees are healthy, check in ten years for added diameter, volume.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole	6	
Jack Pine	90	Pole/Sapling	6	39
White Pine	5	Pole	6	

11	629 - Mixed non-forested wetland	Nonstocked	4.5		Unspecified	No	

12	629 - Mixed non-forested wetland	Nonstocked	1.6		Unspecified	No	

13	42200 - Natural White Pine	Sawtimber Medium	6.8	76	51-80	N/A	Natural white pine residual following final harvest of aspen and other. There is good aspen regen at this time (cut in 2011). Will come back as aspen as previous.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	100	Log/Pole	10	76

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Full	Variable	Sapling
Red Maple	Low	Variable	Sapling

14	629 - Mixed non-forested wetland	Nonstocked	8.2		Unspecified	No	Wet lowland with some pine and aspen on ridges.

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Log
Quaking Aspen	Low	Variable	Pole

15	42200 - Natural White Pine	Sapling Well	4.8	30	81-110	N/A	Stand is small natural white pine mixed with some red pine, aspen, and a few jack pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	15	Pole/Sapling	5	
White Pine	70	Sapling/Pole	4	30
Quaking Aspen	15	Sapling/Pole	4	

16	629 - Mixed non-forested wetland	Nonstocked	7.6		Unspecified	No	

17	42350 - Upland Hemlock	Sawtimber Well	30.7	90	51-80	N/A	Stand was thinned in 2011 to promote the Hemlock and White pine regeneration. Looks good.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	Log	12	
Hemlock	80	Log/Pole	12	90

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Conifers	Low	Variable	Sapling
Hemlock	Low	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	429 - Mixed Upland Conifers	Sapling Well	3.9	22	Immature	N/A	Stand is opening that has filled in with mix of natural red and white pine, spruce and aspen. Looks good.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	40	Sapling/Pole	4	22
White Pine	15	Sapling/Pole	4	
White Spruce	15	Sapling	3	
Quaking Aspen	30	Sapling	3	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	629 - Mixed non-forested wetland	Nonstocked	7.0		Unspecified	No	
20	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	No	
21	42290 - Natural Mixed Pine	Sawtimber Poor	4.6	87	1-50	N/A	Maple, aspen regeneration cut in 2011. A few overstory red/white pine and hemlock.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	45	Log	14	87
White Pine	35	Log	12	
Hemlock	20	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Paper Birch	Low	Variable	Sapling
Quaking Aspen	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
22	500 - Water	Nonstocked	3.5		Unspecified	No	
23	629 - Mixed non-forested wetland	Nonstocked	3.1		Unspecified	No	
24	629 - Mixed non-forested wetland	Nonstocked	5.7		Unspecified	No	
25	629 - Mixed non-forested wetland	Nonstocked	2.1		Unspecified	No	
26	310 - Herbaceous Openland	Nonstocked	9.9		Unspecified	Managed Opening	Opening with a few clumps of jack pine and some aspen saplings . One large wet lowland area in south end of stand with dead jack pine.

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	Variable	Sapling
Jack Pine	Medium	Variable	Pole

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	6122 - Black Spruce	Poletimber Medium	96.3	35	Unspecified	N/A	Small patchy clumps of black spruce mostly, within large cranberry marsh/bog complex. Scattered jack pine on higher hummocks. No merchantability.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Pole	6	
Black Spruce	95	Pole	6	35

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	310 - Herbaceous Openland	Nonstocked	55.8	0	Unspecified	4211 - Planted Red Pine	Stand was planted red pine which was clear cut in 2020 in the Predator Pine Sale 45-109-16.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	629 - Mixed non-forested wetland	Nonstocked	9.4		Unspecified	No	
30	629 - Mixed non-forested wetland	Nonstocked	2.1		Unspecified	No	
31	4112 - Maple, Beech, Cherry Association	Sawtimber Well	124.1	83	51-80	N/A	Stand has lost most beech component. Large maple with lower overstory basal area, thick 15-20' tall sapling layer, no seedling layer. There was white pine and acorns planted in 2000. Unable to locate any oak saplings, but good looking white pine regeneration is scattered around pretty well.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	Log	12	
White Pine	5	XLog	18	
Beech	5	Log	12	
Sugar Maple	15	Log/Pole	10	
White Spruce	5	Pole/Log	9	
Yellow Birch	5	Log	12	
Red Maple	60	Log	12	83

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	Variable	Sapling
White Pine	Medium	>20 feet	Sapling
Striped Maple	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Conifers	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
32	629 - Mixed non-forested wetland	Nonstocked	8.7		Unspecified	No	
33	429 - Mixed Upland Conifers	Poletimber Well	228.7	62	81-110	N/A	Stand is widely variable and is on ridges among large bog complex. Mostly mackinac mix heavy to conifer species. Overall small diameters with exception being scattered large red and white pine and hemlock. Too many low wet openings to accurately map.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	Log/Pole	12	
Red Pine	20	Log/Pole	10	62
Hemlock	5	Log/Pole	12	
White Spruce	10	Pole	6	
Red Maple	15	Pole/Sap/Log	7	
Balsam Fir	10	Pole	6	
Black Spruce	10	Pole/Sapling	5	
Quaking Aspen	10	Pole	8	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	4319 - Mixed Upland Forest	Poletimber Poor	4.2	35	1-50	N/A	An opening that has filled in with mixed conifer, maple and cherry. Was not harvested with surrounding red pine clearcut in 2020.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Pole/Sapling	7	
White Spruce	15	Pole	8	
Pin Cherry	30	Pole/Sapling	5	
White Pine	5	Pole	7	
Red Maple	15	Sapling/Pole	4	
Balsam Fir	30	Pole/Sapling	5	35

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Low	Variable	Sapling
Maple (spp.)	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	310 - Herbaceous Openland	Nonstocked	7.4		Unspecified	No	Opening with large clump of hemlock

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	>20 feet	Log

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	629 - Mixed non-forested wetland	Nonstocked	10.1		Unspecified	No	
37	4130 - Aspen	Sapling Well	7.1	22	Unspecified	N/A	Aspen regeneration with mix of pine and fir, more maple regeneration present in north half of stand.
38	429 - Mixed Upland Conifers	Sawtimber Medium	53.0	97	81-110	N/A	Stand of large overstory white pine and some hemlock with very small diameter maple, cherry, birch brush.
39	629 - Mixed non-forested wetland	Nonstocked	4.5		Unspecified	No	
40	42350 - Upland Hemlock	Sawtimber Medium	37.6	95	51-80	N/A	Hemlock stand was cut in 2011. White pine and Hemlock left after other species harvested.
41	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.2	75	81-110	N/A	Thinned in 2002. Not enough basal area to harvest this entry. Check in 10 years.
42	629 - Mixed non-forested wetland	Nonstocked	2.7		Unspecified	No	

Stand 37

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling	2	
Red Pine	5	Pole/Sapling	5	
Red Maple	15	Sapling	2	
Quaking Aspen	60	Sapling	3	22
Balsam Fir	10	Sapling	2	

Stand 38

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	6	
Balsam Fir	15	Pole/Sapling	6	
White Spruce	15	Pole	6	
White Pine	25	Log	12	97
Black Cherry	10	Pole	6	
Hemlock	10	Log	12	
Paper Birch	5	Pole	6	

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

Stand 40

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	60	Log/Pole	12	95
White Pine	40	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Hemlock	Low	Variable	Sapling
White Pine	Low	Variable	Sapling

Stand 41

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	Log	12	
Red Maple	50	Log/Pole	11	75
White Pine	10	Log	12	
Paper Birch	5	Pole	9	
Sugar Maple	30	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Striped Maple	Low	Variable	Sapling
Conifers	Low	Variable	Sapling
Maple (spp.)	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	4136 - Aspen, Mixed Conifer	Sapling Well	35.5	22	Unspecified	N/A	Stand of aspen regeneration cut in 2002. Some stems becoming pole sized, most still saplings. Large red pine left near Cranberry lake road and scattered.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling/Pole	3	22
White Pine	5	Pole/Sapling	5	
Red Pine	10	Log	16	
Bigtooth Aspen	30	Sapling/Pole	3	
Balsam Fir	5	Sapling/Pole	3	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	4130 - Aspen	Poletimber Well	124.1	36	Unspecified	N/A	Stand was cut in 1988. Aspen stems just becoming pole size diameter. Some larger pole/ small log sized white pine scattered.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling/Pole	3	
Bigtooth Aspen	35	Pole/Sapling	5	36
Quaking Aspen	30	Sapling/Pole	4	
Balsam Fir	10	Sapling/Pole	4	
Paper Birch	5	Sapling/Pole	4	
Black Cherry	5	Sapling/Pole	3	
White Pine	5	Log/Pole	10	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	42110 - Planted Red Pine	Poletimber Well	32.1	24	81-110	N/A	Red pine planted in 2000. Small pole size diameters. A few wet holes and aspen pockets.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	90	Pole/Sapling	5	24
Quaking Aspen	10	Sapling	3	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	42110 - Planted Red Pine	Sapling Medium	35.2	10	Immature	N/A	3"-4" diameter red pine, growing fully stocked rows in many areas, with many low pockets not growing at all. Stand was clearcut in 2010 and planted to red pine in 2014. 1st and 3rd year regeneration surveys completed. Release sprayed in 2016. Continue to monitor for release spray and pest concern.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Sapling	3	
Red Pine	95	Sapling/Pole	3	10

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	629 - Mixed non-forested wetland	Nonstocked	6.7		Unspecified	No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	4130 - Aspen	Sapling Well	30.8	3	Immature	N/A	North half was harvested in 2018 and southern half in 2021 as part of the Cranberry Run Mix timber sale 45-120-17. Stand is regenerating to aspen mix, some overstory white pine retained during harvest.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole	10	
Red Maple	15	Sapling	1	
Quaking Aspen	60	Sapling	1	3
Balsam Fir	5	Sapling	1	
Paper Birch	15	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	6112 - Lowland Aspen	Sapling Poor	6.2	22	Unspecified	N/A	Wetland with standing water in leatherleaf and cranberry. Jack pine scattered and aspen on dry hummocks.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Sapling	3	22
Jack Pine	10	Sapling	3	

50	42110 - Planted Red Pine	Sawtimber Well	21.7	85	81-110	N/A	Mature stand of mostly red pine on ridge around lowland. Heavy maple regeneration layer.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	12	
Red Pine	95	Log/Pole	12	85

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Low	Variable	Sapling
Red Maple	High	Variable	Sapling

51	42110 - Planted Red Pine	Poletimber Well	36.1	24	81-110	N/A	Red pine planted in 2000. Small pole size diameters. A few wet holes and aspen pockets.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	95	Pole/Sapling	5	24
Quaking Aspen	5	Sapling/Pole	4	

52	629 - Mixed non-forested wetland	Nonstocked	10.6		Unspecified	No	Mostly wetland with some scattered aspen and pine along edges.

53	4130 - Aspen	Sapling Well	81.7	25	Unspecified	N/A	Aspen regeneration cut in 1999.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Sapling/Pole	3	
Bigtooth Aspen	35	Sapling/Pole	4	25
Red Maple	15	Sapling	3	
Paper Birch	10	Sapling	3	
Balsam Fir	10	Sapling/Pole	4	

54	6224 - Treed Bog	Nonstocked	6.8		Unspecified	No	

55	629 - Mixed non-forested wetland	Nonstocked	3.8		Unspecified	No	

56	4136 - Aspen, Mixed Conifer	Sapling Medium	33.0	14	Unspecified	N/A	Stand was cut in 2012. Lower areas have more spruce. Aspen regeneration with some large red pine and white pine overstory scattered.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	12	
Red Pine	10	Log	12	
Quaking Aspen	75	Sapling	3	14
White Spruce	10	Sapling	3	

57	629 - Mixed non-forested wetland	Nonstocked	24.6		Unspecified	No	Stand swapped from Forested to Non-Forested last inventory cycle.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	6124 - Lowland Spruce-Fir	Poletimber Medium	7.9	35	Unspecified	N/A	Poor quality mixed brush, with tag alder in lowest areas. Edge of wetland area.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	40	Pole/Sapling	5	35
Black Spruce	30	Sapling	3	
Quaking Aspen	15	Sapling	2	
Red Maple	15	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
59	500 - Water	Nonstocked	3.1		Unspecified	No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
60	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.1	83	81-110	N/A	Stand has lost the beech component. Mixed maple with a good amount of paper birch and scattered Hemlock. Not enough basal area to cut this entry.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	35	Log/Pole	10	
White Spruce	5	Log/Pole	9	
Red Maple	45	Log/Pole	10	83
Hemlock	5	Log	12	
Paper Birch	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Medium	Variable	Sapling
Maple (spp.)	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
61	629 - Mixed non-forested wetland	Nonstocked	1.6	0	Unspecified	No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
62	42110 - Planted Red Pine	Sawtimber Well	43.8	87	111-140	N/A	Stand was thinned in 2020 to about 120 BA in the Predator Pine Sale. 45-109-16. Heavy hardwood regen growing, need to final harvest this entry.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log	13	87

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Low	Variable	Sapling
Red Maple	High	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
63	629 - Mixed non-forested wetland	Nonstocked	1.1	0	Unspecified	No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
64	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.5	62	81-110	N/A	Stand is widely variable and is on ridges among large bog complex. Mostly mackinac mix heavy to conifer species. Overall small diameters with exception being scattered white pine and hemlock.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole	8	
Balsam Fir	10	Pole	6	
Red Pine	15	Pole	8	
White Pine	20	Log/Pole	12	
Hemlock	5	Log/Pole	12	
White Spruce	25	Pole	6	62
Red Maple	15	Pole/Sap/Log	7	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
65	6224 - Treed Bog	Nonstocked	0.9	0	Unspecified	No	