



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45008

Entry Year 2022

Acreage: 2,195

County Chippewa

Management Area: Drummond Island

Revision Date: 2020-07-27

Stand Examiner: Jeff Wise

Legal Description:

T42N R6E Secs. 21, 22, 27, 28, 33, 34 & T41N R6E Sec. 3

Identified Planning Goals:

Generally an upland compartment with young aspen, upland cedar, and areas of shallow soil (alvar like) to the North. The southern and central part of the compartment consists of a sizeable northern hardwood component that has had some management. This YOE management will focus on a hardwood thinning just north of Marl Lake, and a small clear cut in the block off of Johnswood Road.

Soil and topography:

Summerville soils make up the majority of this compartment. The Summerville-Longrie complex underlies the northern hardwood areas in the central part of the compartment. These are generally good soils and produce good quality hardwood. Wind throw can be, and is, a problem. The Summerville-Rock outcrop complex in the northern part of is generally shallow soiled or has exposed bedrock. This area has many large cracks in the rock which can make for dangerous hiking. Most of compartment can be considered gently rolling.

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

With the exception of the east side, virtually the rest of the compartment is surrounded by private land. A large resort facility is located on the northwest side of this compartment and private residences are located to the south. Only one 80 acre private parcels is located entirely within this compartment. This area contains a private residence and a hobby farm.

Unique Natural Features:

MNFI has been referenced for threatened and endangered species in relation to any treatments. Stand 8 has been sited for its unique grassy expanse which is periodically flooded.

Archeological, Historical, and Cultural Features:

Three known historic sites occurs in the Compartment. They are believed to have been homesteads, one a possible hunting camp.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Portions of Marl Lake and Loyal Lake are in this compartment. Where possible, access roads (two-tracks) to lakes on Drummond Island should be created. A landing area could provide parking for carry-in access. The proposed treatments are appropriate for the protection of these resources.

Wildlife Habitat Considerations:

This compartment is part of the Drummond Island MA where featured wildlife species include black bear, northern goshawk, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. It contains a mix of types including northern hardwoods, aspen, white pine, upland mixes, lowland conifer, and other lowland types. It also supports rare species and community types (which are also reflected as ERA's). Parts of the compartment were acquired using State Game Fund resources, and must be managed for wildlife. Beech bark disease impacted northern hardwoods during the last entry cycle, and selection harvests focusing on beech were conducted. Hardwood regeneration after treatment in some areas has been low and the limiting factor(s) unclear at this point. Oak planting was conducted in one stand as a follow-up treatment to provide a future substitute source of hard mast for wildlife.

Wildlife objectives include protection of rare species and communities, encourage diversity in northern hardwoods and promotion of hard mast sources, maintaining wetlands and riparian areas by buffering these areas with any treatment, encouraging early successional habitat where it exists, and maintaining lowland conifer habitat. No treatments will take place in rare community types unless they maintain or enhance that habitat (ex. invasive species control if necessary).

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Access within this compartment is suitable for logging and recreational purposes. Roads within the compartment consist of small two tracks that are maintained only during logging operations. Vehicle access from the north (off of Maxton Rd.) is decent with roads heading both east and north east. Vehicle access in the southern end of the compartment is decent with Second Lake road going from east to west through state ownership.

Survey Needs:

Section 22 SE1/4 for trespass and possible treatment, Section 28 NW1/4 and SE1/4 for treatments, Section 33 E1/2NW for trespass.

Recreational Facilities and Opportunities:

Many miles of orv and snowmobile trails make their way through this compartment. A parking facility is on private land on a parking lot for the Pins restaurant on the northwest boundary. Other recreational activities include hunting, dispersed camping, and mushroom picking.

Fire Protection:

Access is decent within the compartment and with a large composition of hardwood species this compartment does not pose a high risk for a large fire. Fire equipment would need to take caution when driving into certain areas as the roads can consist of either shale type rock or are very muddy and rough.

Additional Compartment Information:

The following reports from the Inventory are attached:

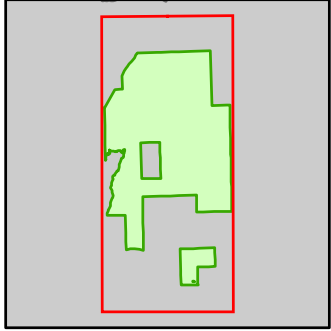
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

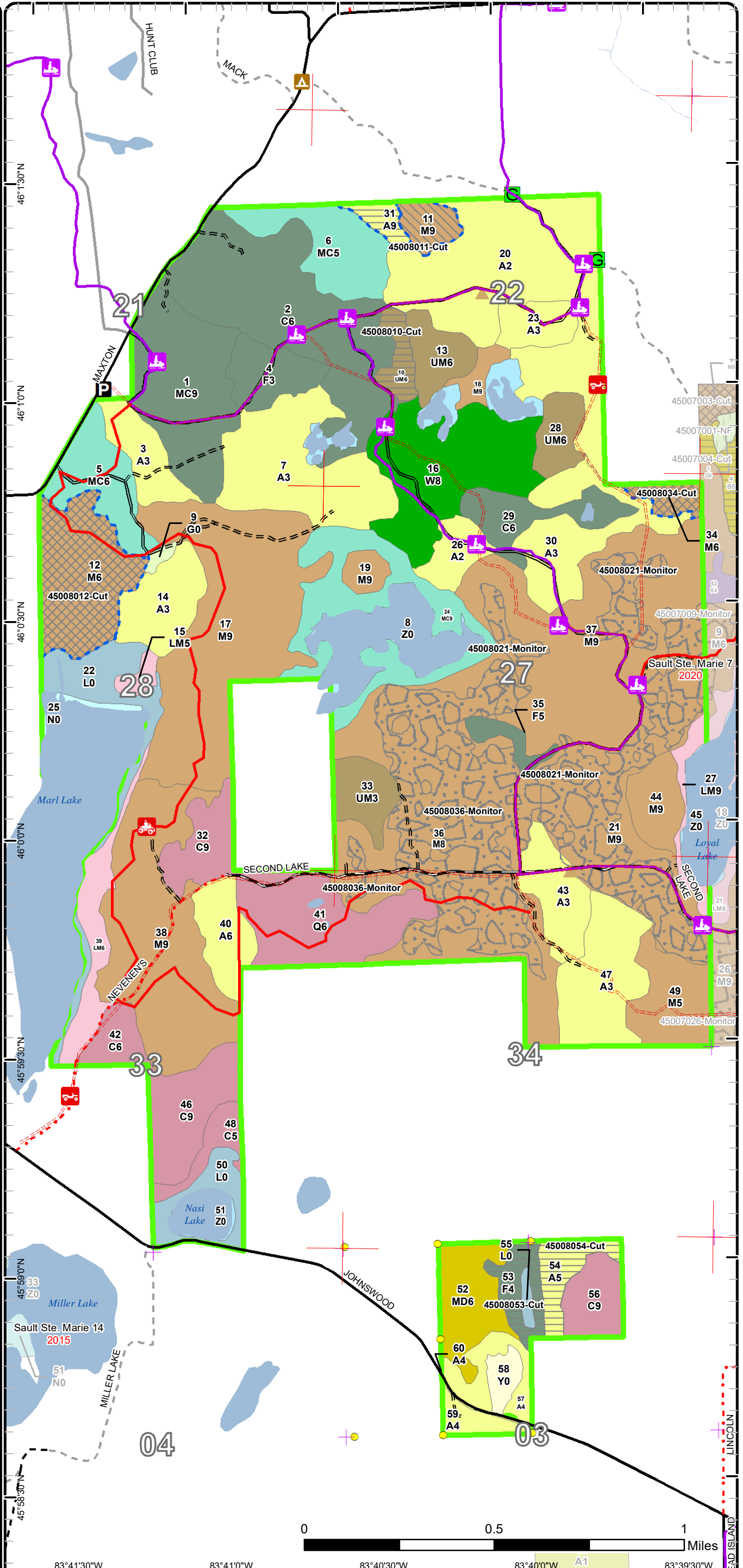
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 8
 T42N,R06E, Sec. 21, 22, 27, 28, 33, 34
 T41N, R06E, Sec. 03
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2022
 Acres: 2,195 GIS Calculated
 Examiner: Jeff Wise
 Map Revised: 8/10/2020
 Map Phase: Web Post



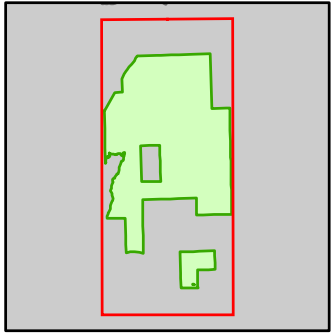
- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- 🛵 ORV Trails
- 🛵 ORV Routes
- 🏂 Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- ▲ Berms
- Ⓜ Gate
- Ⓜ Campground
- Ⓜ Parking Lot
- Compartment Boundary
- Treatments with Site Conditions
- Other Harvest - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil



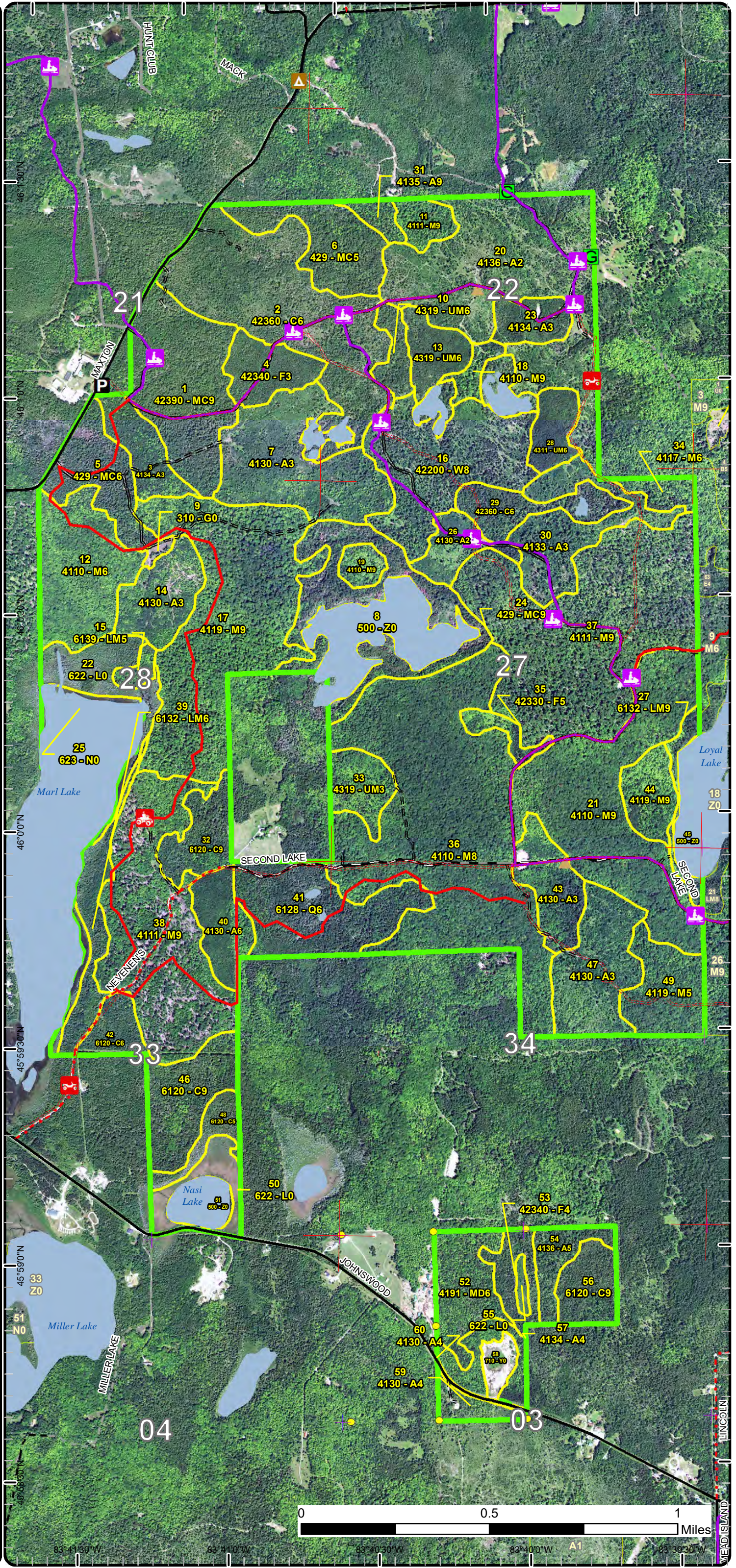
83°41'30"W 83°41'0"W 83°40'30"W 83°40'0"W 83°39'30"W

Stand Boundary Map

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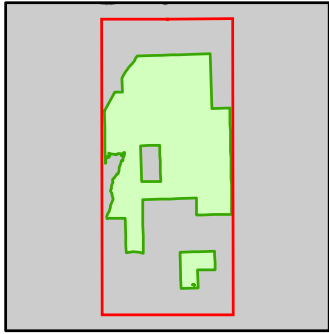
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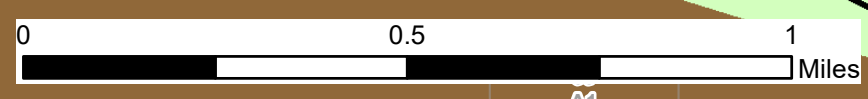
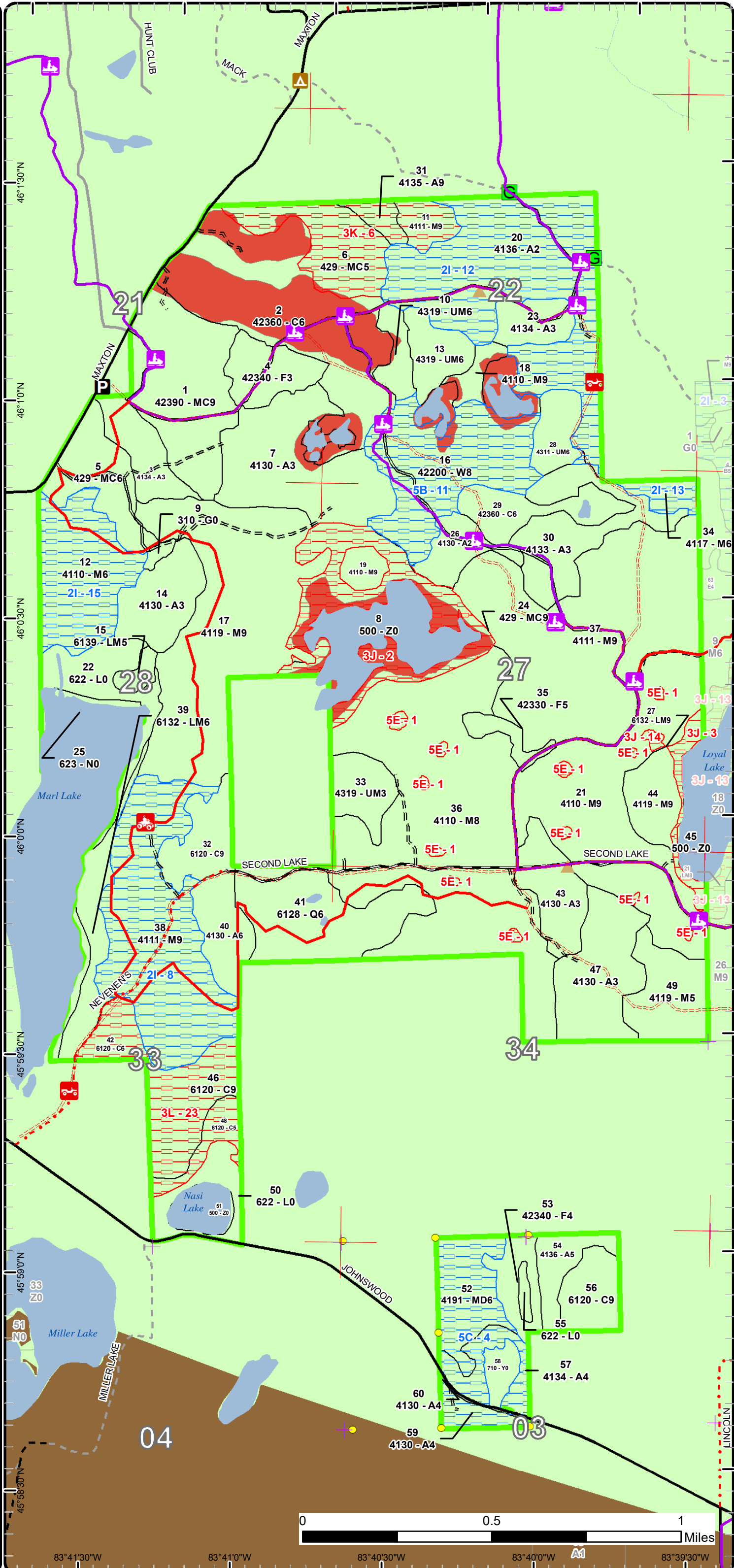
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Special Conservation Areas

Compartment: 8
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 33, 34
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Deer Winter Range
- Great Lakes Islands



83°41'30"W 83°41'0"W 83°40'30"W 83°40'0"W 83°39'30"W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	55	268	47	37	0	27	0	0	15	7	0	0	0	0	0	0	455
Cedar	0	0	0	0	0	0	0	13	0	0	0	91	0	0	0	0	0	131	235
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	58
Lowland Mixed Forest	0	0	0	5	0	25	0	0	0	0	0	9	0	0	0	0	0	0	38
Lowland Shrub	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30
Northern Hardwood	0	0	0	0	0	0	0	0	50	0	9	390	0	7	0	0	0	389	844
Sand, Soil	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Conifers	0	0	0	0	0	0	0	0	0	32	69	37	0	0	0	0	56	0	193
Upland Mixed Forest	0	0	0	18	0	32	0	0	0	0	0	11	0	0	0	0	0	0	61
Upland Spruce/Fir	0	0	0	0	0	21	8	0	0	0	0	0	15	0	0	0	0	0	44
Water	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
White Pine	0	0	0	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	72
Total	163	0	55	291	47	115	8	98	50	62	165	545	15	7	0	0	56	520	2193



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 8
Total Compartment Acres: 2,195

Commercial Harvest - 41
Harvests with Site Condition - 81
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	22	0	0	0	0	0	0	0	0	22
Northern Hardwood	0	63	0	0	0	0	0	0	11	74
Upland Mixed Forest	11	0	0	0	0	0	0	0	0	11
Upland Spruce/Fir	15	0	0	0	0	0	0	0	0	15
Total	47	63	0	0	0	0	0	0	11	122

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	122	0	0	0	0	0	253	0	0	375
Next Step	0	0	253	0	0	253	122	0	0	628
Total	122	0	253	0	0	253	375	0	0	1003



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
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Proposed Treatments:

10	45008010-Cut	10.6	4319 - Mixed Upland Forest	Poletimber Well	104	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all species to a four inch top except white pine and any oak. Harvest cedar larger than 10 inch DBH only.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Present species with focus on aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> This is not deer yard but cedar less than 10 inch DBH will be left for retention along with pine, oak, and anything under four inch DBH.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
11	45008011-Cut	10.9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	100	81-110	Harvest	Other - Specify	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Harvest all healthy beech except mark one for each acre to leave. Some have already died while others appear to be declining.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Present species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Rare Landforms</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
12	45008012-Cut	54.5	4110 - Sugar Maple Association	Poletimber Well	100	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> To encourage age class and structural diversity and increase mast production for deer, bear, and other species, thin hardwoods to a basal area of 70-80. Do not mark low volume species, open up under oaks, the rocky area within the stand can be retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> present species</p> <p><u>Regen:</u></p> <p><u>Other</u> Was put up for beech salvage, never cut, needs survey if there is time, otherwise can be done with landowner agreement on line work.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
31	45008031-Cut	6.8	4135 - Aspen, Cedar	Sawtimber Well	108	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all trees to a two inch top except pine, oak, and cedar under ten inch DBH. <u>Specs:</u> This is not a deer yard and cedar are very mature. Cedar under 10 inch DBH will be left <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Present species with focus on aspen and cedar. <u>Regen:</u> <u>Other</u> This stand was part of stand 6, however, Stand 31 is northeast of an old road and has more aspen, harvest cedar here and keep aspen in <u>Comment:</u> Stand 6. untreated. <u>Site Condition</u> Rare Landforms <u>Proposed Start Date:</u> 10/1 /2021</p>											
34	45008034-Cut	8.8	4117 - Mixed N. Hardwood - Pine	Poletimber Well	90	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Mark individual trees to a Basal Area of 70-80. Individual scattered large cedar may be marked, leave the clump in the south part. unmarked. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> present species <u>Regen:</u> <u>Other</u> This area is not deer yard so some cedar maybe marked to release hardwood species . <u>Comment:</u> <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2021</p>											
53	45008053-Cut	14.6	42340 - Upland Spruce/Fir	Poletimber Poor	116	Unspec ified	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Harvest all trees > 4" DBH to maintain the early successional habitat for deer, grouse, hare, and other species. Leave pine, and cedar for <u>Specs:</u> diveristy. Buffer wetland by 100 ft. to maintain shade along edge and maintain a travel corridor. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Present species acceptable. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
54	45008054-Cut	15.4	4136 - Aspen, Mixed Conifer	Poletimber Medium	98	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all trees > 4" DBH to maintain the early successional habitat for deer, grouse, hare, and other species. Leave oak, pine and cedar to <u>Specs:</u> maintain diversity. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Present species <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</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
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Approved Treatments:

21	45008021-Monitor	119.5	4110 - Sugar Maple Association	Sawtimber Well	100	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Check to see if beech brush is choking out other regen. <u>Specs:</u> <u>Next Step</u> ; Pesticide, Other - Specify; Planting, Underplant <u>Treatments:</u> <u>Acceptable</u> present species <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> Also includes some areas in stand 37 <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
36	45008036-Monitor	133.8	4110 - Sugar Maple Association	Sawtimber Medium	100	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Check to see if beech brush is choking out other species. <u>Specs:</u> <u>Next Step</u> ; Pesticide, Other - Specify; Planting, Underplant <u>Treatments:</u> <u>Acceptable</u> present species <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											

Total Treatment Acreage Proposed: 374.9

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 8

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions								
		With Condition				2I	5B	5C	3J	3K	3L	5E		
456	295	154		7	Aspen	128	0	27	0	7				
235	175	0		60	Cedar	0					60			
2	2	0		0	Herbaceous Openland									
58	58	0		0	Lowland Conifers									
38	30	0		9	Lowland Mixed Forest	0			9		0			
52	52	0		0	Lowland Shrub									
13	13	0		0	Marsh									
30	0	30		0	Mixed Upland Deciduous			30						
845	655	170		19	Northern Hardwood	170			2	11			7	
7	7	0		0	Sand, Soil									
193	101	0		92	Upland Conifers		0		55	37				
61	61	0		0	Upland Mixed Forest									
44	44	0		0	Upland Spruce/Fir									
88	88	0		0	Water									
72	0	72		0	White Pine		72		0					
2,195	1,582	427		187	Total Forested Acres	298	72	57	66	54	60		7	
	72%	19%		8%	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	7	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: These patches were left as retention areas during the beech salvage. WLD wants to maintain a beech component as long as possible.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Ponds within stand, not wet ground.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 8

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3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low quality site, needs more time to grow.							
6	Unavailable	3K: Rare or unique landforms	54	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Too rocky to harvest, also survey would be needed.							
8	Available	2I: Survey needed	107	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Illegal blind on power line but need a survey to prove, no treatment.							
11	Available	5B: Maintain for regeneration purposes	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This was an aspen MO but has converted by reserve trees to be a white pine and cedar stand over aspen regen. Additional treatment would harm aspen regen and white pine and cedar are generally not harvested on State land timber sales.							
12	Available	2I: Survey needed	128	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey needed for cabin trespass, not treatment.							
13	Available	2I: Survey needed	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey needed for possible treatment, however, maps show the State trails on pvt land on the west side so that needs sorting out.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 8

Year of Entry: 2022

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Vernal pond and retention area for beech salvage.							
15	Available	2I: Survey needed	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments: North corner is in, need corners to the south for treatment unless landowner is in agreement on line work.							
23	Unavailable	3L: Other wildlife concerns	60	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: cedar cutting restraints, and low ground.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	69.0	94	51-80	N/A	Stand of white pine with cedar and other species mixed in. Ground is rocky. Aspen is poor quality, balsam understory is thick. No deer during field work in Jan 2020.																																										
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2	42360 - Upland Cedar	Poletimber Well	108.4	73	1-50	N/A	Stand is growing on shallow soil, alvar like, multiple ages, juniper is thick in some areas,																																										
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3	4134 - Aspen, Spruce/Fir	Sapling Well	20.5	30	1-50	N/A	Nice stand of aspen regeneration, with heavy spruce and fir over story and understory, very thick.																																										
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4	42340 - Upland Spruce/Fir	Sapling Well	21.4	44	Unspecified	N/A	Stand of aspen and balsam regeneration. Timber is smaller diameter due to shallow soils. Regeneration is thick especially the balsam. Approaching pole size.																																										
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5	429 - Mixed Upland Conifers	Poletimber Well	32.3	89	51-80	N/A	Natural white pine with cedar underneath. Balsam and cedar regen is thick in understory. White pine is nice quality, scattered oak and aspen in the transition to stand 17. Very similar to stand 1, no deer during field work Jan, 2020.																																										
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6	429 - Mixed Upland Conifers	Poletimber Medium	36.5	108	81-110	N/A	Stand of poor quality cedar and aspen. A thick understory of balsam exists. Aspen is poor quality, ground is rocky.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
7	4130 - Aspen	Sapling Well	66.8	22	Unspecified	N/A	Nice stand of young aspen with a mix of other species. Regeneration has come back nicely.																																																			
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8	500 - Water	Nonstocked	62.5		Unspecified	No																																																				
9	310 - Herbaceous Openland	Nonstocked	2.2		Unspecified	No	Possibly an old homestead, a cellar still exists in south part, used as a landing for timber sales in the area.																																																			
10	4319 - Mixed Upland Forest	Poletimber Well	10.6	104	51-80	N/A	Stand is very rocky in some areas. Poor quality stand. Clumps of cedar exist here and there.																																																			
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11	4111 - S.Maple, Hard Mast Association	Sawtimber Well	10.9	100	81-110	N/A	Low quality hardwood stand looks high graded long ago, much Ironwood regen. Landowner to the north is doing TSI under the oaks and beech.																																																			
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12	4110 - Sugar Maple Association	Poletimber Well	54.5	100	51-80	N/A	North half put up for beech salvage, never cut. Scattered softwood in the north finger.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4319 - Mixed Upland Forest	Poletimber Well	17.3	44	81-110	N/A	Decent stand of aspen regeneration. The stand is small diameter for it's age, probably due to shallow soil. OI says stand was cut for wildlife in 1976.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		40	Pole/Sapling	5	44	Quaking Aspen	
Bigtooth Aspen		5	Pole/Sapling	5		Balsam Fir	
Balsam Fir		50	Sapling/Pole	4	44	Full	
Northern White Cedar		5	Pole	6		Variable	
						Sapling	
14	4130 - Aspen	Sapling Well	28.1	22	Unspecified	N/A	Stand of nice aspen regeneration. Stand was cut in 1998.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		15	Sapling	3		Quaking Aspen	
Quaking Aspen		65	Sapling/Pole	4	22	Balsam Fir	
Bigtooth Aspen		5	Sapling	3		Ironwood	
Ironwood		10	Sapling	2		Medium	
Balsam Fir		5	Sapling	2		Variable	
						Sapling	
15	6139 - Mixed Lowland Forest	Poletimber Medium	4.8	22	51-80	N/A	Stand was cut with stand 14.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		30	Sapling	4			
Northern White Cedar		10	Pole/Log	9			
Balsam Fir		10	Sapling	3			
Paper Birch		5	Sapling	4			
Quaking Aspen		45	Sapling/Pole	4	22		
16	42200 - Natural White Pine	Sawtimber Medium	72.0	99	51-80	N/A	Stand was cut in 2005 with white pine and cedar were reserved. Stand has turned into a white pine stand with an understory of aspen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		40	Log/Pole	10		Quaking Aspen	
White Pine		60	Log/Pole	14	99	Balsam Fir	
						Low	
						Variable	
						Sapling	
17	4119 - Mixed Northern Hardwoods	Sawtimber Well	132.9	100	81-110	N/A	Stand was thinned in 2005. Stand looks good, hardwood is decent for Drummond, Remaining beech in stand looks healthy. Northwest part has fir and spruce in the understory, scattered hemlock. Southern most end of stand has some top dieback on the sugar maple and beech? Finger on the east side contains a clone of very large big tooth aspen and road into stand 19. Two illegal blinds in the northern part.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		40	XLog	18	100	Sugar Maple	
Yellow Birch		5	Log	12		Beech	
Basswood		10	Log	16		Ironwood	
Beech		30	Log/Pole	14		White Spruce	
Bigtooth Aspen		5	Log	14		Low	
Hemlock		5	Log	16		Variable	
Red Oak		5	Log	16		Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
18	4110 - Sugar Maple Association	Sawtimber Well	7.1	120	51-80	N/A	Stand was thinned in 2006. Stand quality is ok... Typical Drummond hardwood.. Aspen regeneration along north edge appears to have been browsed.																																													
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19	4110 - Sugar Maple Association	Sawtimber Well	7.4	100	81-110	N/A	Small island of hardwood, very unique, old road and skid trail to stand so it has been managed. Might consider when doing stand 17.																																													
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20	4136 - Aspen, Mixed Conifer	Sapling Medium	127.7	25	Unspecified	N/A	Stand is coming back to a mix of aspen and spruce/fir, still sparse cover, closer to 50% than 75%. East line needs a survey due to cabin trespass which has been known for years but no corners to prove.																																													
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21	4110 - Sugar Maple Association	Sawtimber Well	112.1	100	51-80	N/A	Beech salvage sale 004-16, cut in 2018-19. Old green sheets record an old tracked caterpillar "bug" belonging to Otto Makkinen left in stand in the sixties. Its still there but has been partially salvaged unfortunately. Was part of stand 37.																																													
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22	622 - Lowland Shrub	Nonstocked	33.7		Unspecified	No																																														
23	4134 - Aspen, Spruce/Fir	Sapling Well	15.0	44	Unspecified	N/A	Shallow soil... Stand looks 10 yrs. old, very poor qual. for it's age... Small diameter.																																													
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24	429 - Mixed Upland Conifers	Sawtimber Well	55.5	153	81-110	N/A	Stand surrounding large wetland, mostly cedar with aspen overstory, large white pine and white spruce, ponds within the stand, but mostly upland and rocky in spots, latest imagery shows stand is flooded much of the time from water in stand 8.																																						
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25	623 - Emergent Wetland	Nonstocked	13.5		Unspecified	No																																							
26	4130 - Aspen	Sapling Medium	14.4	14	Unspecified	N/A	Stand clear-cut in 2006, was part of the larger cut to stand 16 but pure aspen, looks like a sparse area in the center.																																						
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27	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	8.5	105	51-80	N/A	Fringe of mixed species around west side of Loyals Lake.																																						
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28	4311 - Pine, Aspen Mix	Poletimber Well	14.9	44	81-110	N/A	Thick stand of aspen,spruce, fir... Stand is healthy and high density. Ground is rocky in some areas.																																						
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29	42360 - Upland Cedar	Poletimber Well	24.5	105	Unspecified	N/A	Rocky are left out of sale in 2005, also a ponded area common to Drummond																																						
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30	4133 - Aspen, Mixed Pine	Sapling Well	41.4	12	51-80	N/A	Stand cut in 2006... No white pine was cut which makes for a heavy overstory of white pine. Aspen has regenerated well.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31 4135 - Aspen, Cedar Sawtimber Well 6.8 108 81-110 N/A Mature mix of cedar, hardwood, and aspen, was part of stand 6.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Log/Pole	10		Sugar Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole	6					
Northern White Cedar	20	Log/Pole	10	108				
White Pine	15	Log	16					
Sugar Maple	20	Log/Pole	10					

32 6120 - Lowland Cedar Sawtimber Well 22.4 113 Unspecified N/A This stand was picked over along time ago. What remains is pockets of regeneration with pockets of decadent wood. Aspen is very poor, cedar is also. Ground is very wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole	6		Yellow Birch	Low	Variable	Sapling
Quaking Aspen	25	Log/Pole	14		Balsam Poplar	Low	Variable	Sapling
Balsam Fir	5	Pole	8		Balsam Fir	High	Variable	Sapling
White Spruce	5	Pole	11		Northern White Cedar	Medium	Variable	Pole
Northern White Cedar	60	Log/Pole	14	113	Striped Maple	Low	Variable	Sapling

33 4319 - Mixed Upland Forest Sapling Well 17.9 25 Immature N/A Stand consists of a mix of conifer and maple, with a few scattered mature aspen. OI sheet says stand was cut in 1995, looks like mature aspen and maple was picked out and spruce, balsam and cedar was left.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Sapling	2	25	Paper Birch	Low	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
White Spruce	20	Pole/Sapling	6		White Spruce	Medium	Variable	Sapling
Northern White Cedar	5	Pole	8					
Quaking Aspen	10	Log/Pole	10					

34 4117 - Mixed N. Hardwood - Pine Poletimber Well 8.8 90 51-80 N/A Small pocket of hard wood. Stand is poor quality with cedar and larger white pine mixed in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole	9	90	Sugar Maple	Medium	Variable	Sapling
Beech	10	Pole	8		Beech	High	Variable	Sapling
Northern White Cedar	10	Log/Pole	12		Ironwood	Medium	Variable	Sapling
White Pine	20	Log	13					
Quaking Aspen	10	Log/Pole	10					

35 42330 - Upland Fir Poletimber Medium 7.7 50 51-80 N/A An old homestead area, foundations and a fence post next to a Hemlock along the road, filling in with spruce and balsam, contains areas of young maple, no treatments recommended here.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole/Sapling	5		Sugar Maple	Low	Variable	Sapling
Balsam Fir	80	Pole/Sapling	5	50	Balsam Fir	Medium	Variable	Sapling
White Spruce	15	Pole	6		Ironwood	Low	Variable	Sapling



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36	4110 - Sugar Maple Association	Sawtimber Medium	201.9	100	51-80	N/A	Beech salvage sale # 004-16, cut in 2018-19, cedar, spruce, and balsam, and yellow birch scattered.																																																								
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37	4111 - S.Maple, Hard Mast Association	Sawtimber Well	153.4	100	51-80	N/A	Select cut sale 011-12 cut in 2012-13. Beech salvage sale 004-16, cut in 2018-19. Two sales this YOE has left this stand with low BA (60) and has been hit bad two years by Forest Tent Caterpillar. Regen very concerning, sedges and raspberries are predominant for ground cover. Very little understory and advanced regen also.																																																								
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38	4111 - S.Maple, Hard Mast Association	Sawtimber Well	106.6	100	51-80	N/A	Sale 003-14 beech salvage, cut in 2015, oak planted with DI school kids and WLD and FRD staff. Illegal blind at south end on the power line but cannot prove it without a good survey corner. South of powerline not cut for retention, a few acres with maple, oak, beech white birch, and aspen.																																																								
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39	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	24.9	48	Unspecified	N/A	Stand was picked over along time ago, typical of Drummond along lake shores is this cedar with mixed species.																																																								
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40	4130 - Aspen	Poletimber Well	22.0	46	51-80	N/A	Stand of very thick aspen and balsam just becoming pole size. Stand is healthy and looks good. A small patch of hardwood east of powerline, too small to be a stand.																																																								
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41	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	57.6	68	51-80	N/A	Stand is a mix of younger balsam/spruce and pole sized cedar mixed w/ large aspen here and there. Stand contains a few low pockets that look to hold water in the spring.																																														
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42	6120 - Lowland Cedar	Poletimber Well	13.1	60	Unspecified	N/A	Stand has some nice cedar regeneration. Most of it is still sapling size. Some larger white spruce and tamarack in the canopy as well.																																														
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43	4130 - Aspen	Sapling Well	26.1	35	Unspecified	N/A	Decent stand with a mix of young aspen and scattered pole sized maple, almost becoming a pole stand, gravel pit on north west boundary, not 1 acre.																																														
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44	4119 - Mixed Northern Hardwoods	Sawtimber Well	18.5	70	51-80	N/A	Stand of younger hardwood, some aspen clumps cut from stand along time ago, pockets of white spruce.																																														
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45	500 - Water	Nonstocked	14.0		Unspecified	No	Loyals Lake																																														
46	6120 - Lowland Cedar	Sawtimber Well	35.2	105	Unspecified	N/A	Mixed stand of cedar, spruce, balsam, scattered aspen, thick balsam understory, small knob of hardwood inaccessible in the middle.																																														
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47	4130 - Aspen	Sapling Well	45.1	24	Unspecified	N/A	Cut in 1996. Regeneration is coming back fairly well...																																																												
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48	6120 - Lowland Cedar	Poletimber Medium	11.6	105	Unspecified	N/A	Gnarly swamp with alot of blowdown. Cedar are in very poor condition. Tops are thin and water table is very very high.																																																												
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49	4119 - Mixed Northern Hardwoods	Poletimber Medium	30.7	70	51-80	N/A	Very poor quality stand. Paper birch has mostly fallen out of stand. What remains is low quality aspen w/ some smaller diameter sugar maple w/in the understory.																																																												
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52	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	30.4	82	51-80	N/A	Stand is growing on flat rock and is very poor quality, northwest corner is pure maple and beech. Papin's Sawmill trespass last YOE.																																																												
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53	42340 - Upland Spruce/Fir	Poletimber Poor	14.6	116	Unspecified	N/A	Poorer quality stand. Aspen and spruce are in very tough shape, what remains is balsam and spruce in the understory. Ground is rocky and slopes towards the wetland. Stand makes for a good buffer along wetland.																																																												
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54	4136 - Aspen, Mixed Conifer	Poletimber Medium	15.4	98	51-80	N/A	This stand was set up and went no bid a few times. Never sold/cut. Stand of old aspen with some cedar clumps and thick balsam understory. Aspen is very poor quality.																																														
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55	622 - Lowland Shrub	Nonstocked	2.7		Unspecified	No																																															
56	6120 - Lowland Cedar	Sawtimber Well	19.6	106	Unspecified	N/A	Start of swamp cedar mixed with tamarack and black spruce. Timber is ok quality. Imagery shows shooting lanes from a pvt blind in SE corner.																																														
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57	4134 - Aspen, Spruce/Fir	Poletimber Poor	16.0	60	Unspecified	N/A	Poor quality stand surrounding the gravel pit. Stand is a mix of poor quality aspen and balsam fir. Shallow soil, thus slow growing if age is correct.																																														
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58	710 - Sand, Soil	Nonstocked	7.4		Unspecified	Managed Opening	Johnswood gravel pit, county leased.																																														
59	4130 - Aspen	Poletimber Poor	9.0	63	Unspecified	N/A	A very thick understory of balsam, cedar, and white spruce exist. Site of police tower and remnants of an old cabin. Supposedly, this is also the site of the former State cabin that is now in C9, but not sure if remains are the said cabin.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60 4130 - Aspen Poletimber Poor 1.5 63 Unspecified N/A

A very thick understory of balsam, cedar, and white spruce exist. Site of police tower and remnants of an old cabin. Supposedly, this is also the site of the former State cabin that is now in C9, but not sure if remains are the said cabin.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
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