



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45011

Entry Year 2022

Acreage: 717

County Chippewa

Management Area: Drummond Island

Revision Date: 2020-07-27

Stand Examiner: Josh Brinks

Legal Description:

T42N R5E Sec 19, 20, 30, 31, 32

Identified Planning Goals:

This entry, management goals will be to regenerate the mature aspen types throughout the compartment as well as a small hardwood thinning. This management will diversify the cover types in this area of the island and wildlife habitat. The south part of the compartment along M-134 is dominated by cedar types which are used heavily by deer. The western stands are upland spruce / aspen types with low productivity associated with rocky shallow soils. Within this area there are pockets of deeper soils that are more productive and sustain a harvestable stand of timber. Harvest will be focused in these areas.

Soil and topography:

Soils are Shelter series, very rocky, yet gently rolling terrain with several bedrock escarpments throughout. Area is very scenic to the north.

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

Private ownership surrounds this compartment and private access will be required to harvest all prescribed treatments. Private holdings consist of permanent and seasonal homes and cabins. No commercial developments near the compartment. Land use is mostly hunting, hiking, and perhaps mushroom hunting.

Unique Natural Features:

This compartment holds the potential for species on the MNFI list, and has been referenced in relation to treatments. The northern most boundary is Lake Huron shoreline along Potagannissing Bay.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

This compartment contains Stringham Lake and Lake Huron coastline. The prescribed 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. This compartment is located on the west side of Drummond Island between M-134 and the northern shoreline of the island. It contains cover types including stands of cedar and cedar mix, upland mixed stands, aspen, and spruce/fir, and also contains part of Stringham Lake on the east side. As is common on the island, thin soils over limestone bedrock influence the cover and resulting habitat. Some parts of the compartment contain stunted aspen over limestone bedrock while conditions in other parts of the compartment are better. The conditions here also may support rare species. Parts of the compartment were acquired using State Game Funds, and have a primary goal of wildlife management.

Wildlife objectives include retaining the cedar and lowland cover where it exists for deer and hare, maintaining early successional habitat while providing diversity, and protecting rare species as well as riparian habitat. Some mature aspen-dominated stands will be treated to maintain the early successional habitat and provide young growth that will benefit deer, grouse, hare, and other species. Other stands will remain and will provide more mature habitat features like roosting sites for grouse and mature trees for woodpeckers. A review will be needed for treatment areas that may impact rare species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of thin to discontinuous glacial deposits over bedrock. The glacial drift thickness varies between 10 and 50 feet. The

Silurian Engadine, Manistique and Burnt Bluff Groups subcrop below the thin glacial drift. The Engadine is quarried for stone/dolomite to the south of the compartment. The nearest gravel pits are located on the mainland to the west. There is no economic oil and gas production in the UP, currently.

Vehicle Access:

Limited access with no public roads within the compartment. Treatments proposed will need access permission. The only points of access on state land would be along M-134, a small spot at the end of Sturgeon Bay, or by boat at the north end of the compartment. There is a two track county road in very rough shape that enters the compartment from M-134.

There is also a two track that accesses the south end of Stringham Lake. There are two roads that enter the north end of the compartment from private property that have been used in the past for management purposes.

Survey Needs:

Survey is needed for treatments in section 20 and 30.

Recreational Facilities and Opportunities:

No facilities or trails of any kind. Hunting, hiking, and mushrooming are about the only things to do here. There is a very rough access point at the south end of Stringham lake which appears to be used by locals to access the lake. There are multiple parcels of conservancy property along the west side of the property.

Fire Protection:

Very limited road access into the interior with little or no water sources available within. The compartment is primarily a peninsula into Potagannissing Bay so water is available from private land on the water. Stringham Lake has a very rough road into in on state land but may also be access through private property.

Additional Compartment Information:

The following reports from the Inventory are attached:

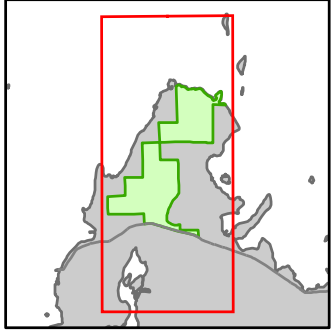
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

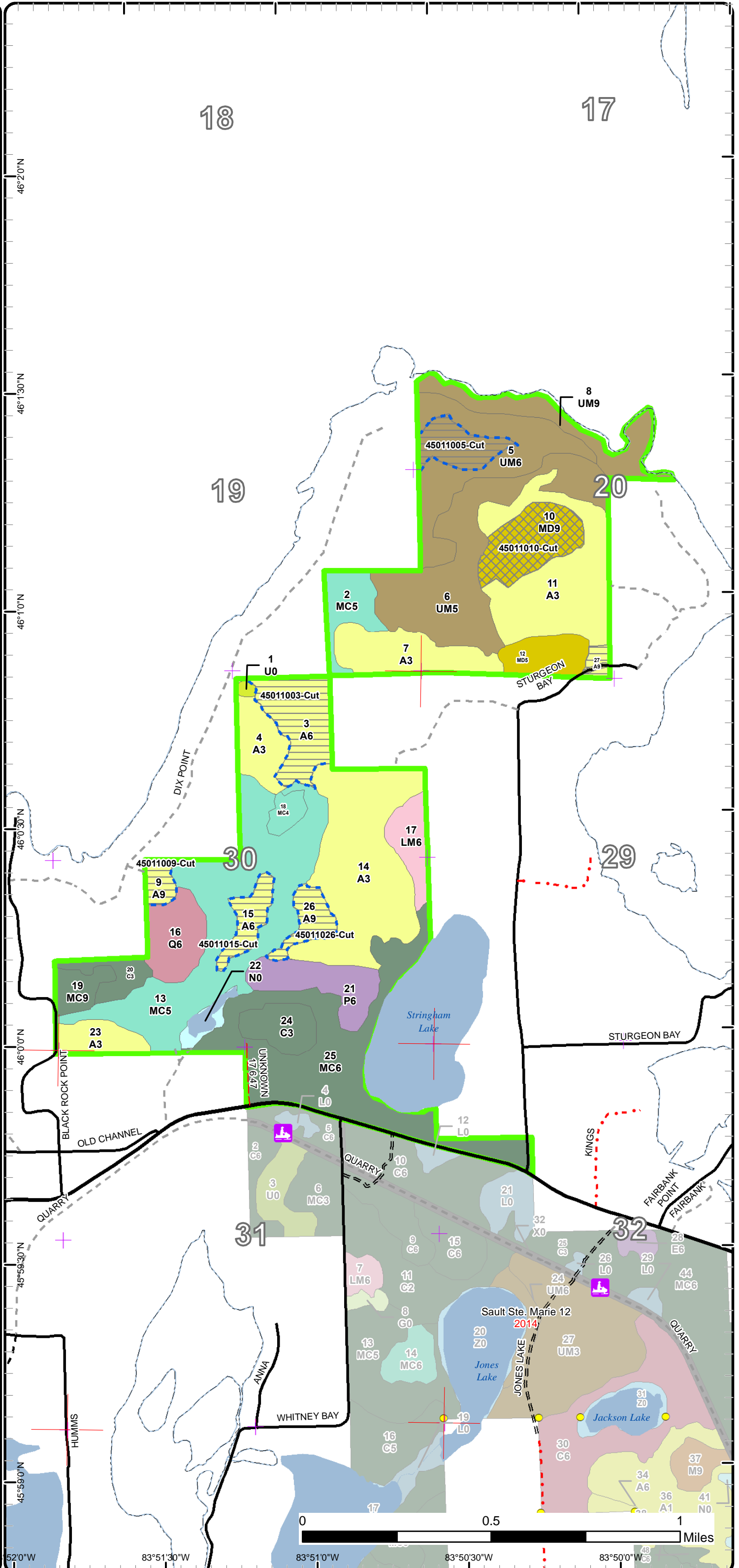
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 11
 T42N,R05E, Sec. 19, 20, 29-32
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2022
 Acres: 717 GIS Calculated
 Examiner: Josh Brinks
 Map Revised: 8/10/2020
 Map Phase: Web Post

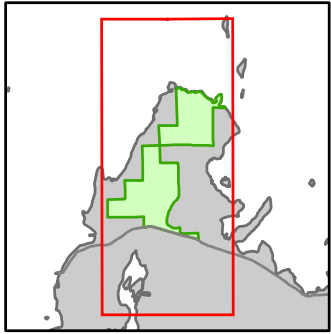


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- = DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- · - · County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚙 Snowmobile Trails
- ⋯ Intermittent Stream
- Lake/Pond
- Shoreline
- Lakes and Rivers
- ▭ Compartment Boundary
- ▨ Treatments with Site Conditions
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 623 - Emergent Wetland

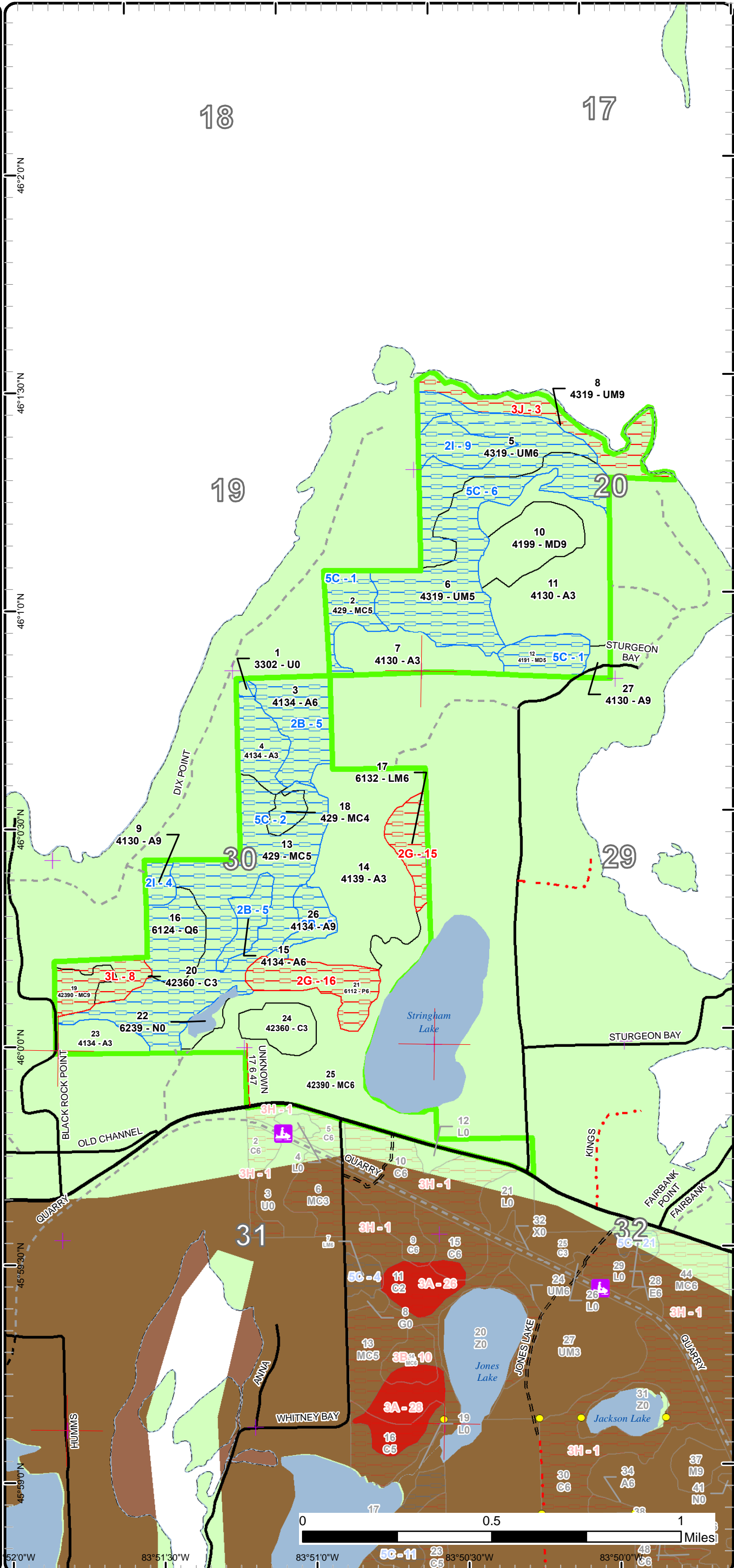


Special Conservation Areas

Compartment: 11
 T42N,R05E, Sec. 19, 20, 29-32
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- Private - Dirt / Gravel Road
- Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Ecological Reference Areas
- Deer Winter Range
- Great Lakes Islands



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	94	75	0	0	0	0	0	0	4	67	0	0	0	0	0	0	0	240
Cedar	0	0	0	0	0	9	0	0	0	14	0	0	0	0	0	0	0	0	23
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	15	0	0	0	0	0	25	0	0	0	0	0	40
Upland Conifers	0	0	0	0	0	0	0	0	0	86	97	15	0	9	0	0	0	0	206
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	56	66	25	0	0	0	0	0	0	147
Total	7	94	75	0	0	9	15	0	0	180	265	40	25	9	0	0	0	0	718



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 11
Total Compartment Acres: 717

Commercial Harvest - 28
Harvests with Site Condition - 65
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	54	0	0	0	0	0	0	0	0	54
Mixed Upland Deciduous	0	25	0	0	0	0	0	0	0	25
Upland Mixed Forest	14	0	0	0	0	0	0	0	0	14
Total	68	25	0	0	0	0	0	0	0	93

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	93	0	0	0	0	0	0	0	0	93
Next Step	0	0	0	0	0	0	93	0	0	93
Total	93	0	0	0	0	0	93	0	0	186



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:

3	45011003-Cut	26.2	4134 - Aspen, Spruce/Fir	Poletimber Well	90	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2" Leave 2 retention patches focused around either wet areas or patches of cedar. Leave some brush piles along the stand edge during normal processing operations if possible for hare. This treatment is intended to provide young early successional habitat for deer, ruffed grouse, and snowshoe hare. Rare species survey needed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, spruce, fir, birch, cedar, pine and oak.</p> <p><u>Other Comment:</u> Treatment size may vary.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
5	45011005-Cut	13.9	4319 - Mixed Upland Forest	Poletimber Well	84	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2". Leave a 1/2 acre retention patch for every 10 acres of harvest. Do not cut pine, oak, cedar, hemlock or yellow birch</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, oak, fir, spruce, cedar and pine.</p> <p><u>Other Comment:</u> Treatment shape may vary. Run the lines to include as much of the decent aspen as possible.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
9	45011009-Cut	5.6	4130 - Aspen	Sawtimber Well	90	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2". Do not cut pine, cedar, oak, hemlock or yellow birch. Leave one or more brush piles along the stand edge during normal processing operations if possible for hare. This treatment is intended to provide young early successional habitat for deer, ruffed grouse, and snowshoe hare. Rare species survey needed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, oak, cedar, and pine.</p> <p><u>Other Comment:</u> No retention needed because of small acreage.</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
10	45011010-Cut	24.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	110	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin stand to 80 BA. Remove most of the aspen and paper birch. Open up a few canopy gaps around the oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regen includes oak, maple, birch, aspen, spruce, fir, pine.</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>											
15	45011015-Cut	10.1	4134 - Aspen, Spruce/Fir	Poletimber Well	93	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" or greater except do not cut any pine, hemlock, yellow birch, cedar or oak. Leave some brush piles along the stand edge during normal processing operations if possible for hare. This treatment is intended to provide young early successional habitat for deer, ruffed grouse, and snowshoe hare. Rare species survey needed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regen includes aspen, birch, spruce, fir, maple, oak, pine and cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment size may vary. Try to include as much of the operable timber as possible. If the treatment ends up greater than 10 acres then</p> <p><u>Comment:</u> leave a retention patch otherwise the scattered leave trees are enough retention for this treatment.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
26	45011026-Cut	9.4	4134 - Aspen, Spruce/Fir	Sawtimber Well	93	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2". Leave all pine, yellow birch, hemlock, oak. Leave some brush piles along the western stand edge during normal processing operations if possible for hare. This treatment is intended to provide young early successional habitat for deer, ruffed grouse, and snowshoe hare. Rare species survey needed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regen includes aspen, birch, maple, spruce, fir, pine and cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment size may vary. Grab as much of the timber that is ready for harvest on the west side of the stand. If it is larger than 10 acres then</p> <p><u>Comment:</u> leave a retention patch otherwise the scattered leave trees will count as enough retention.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
27	45011027-Cut	3.0	4130 - Aspen	Sawtimber Well	85	111- 140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees that are 2" or greater in DBH. DO not cut pine or oak. This treatment is less than 10 acres and does not need retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regen includes aspen, birch, maple, spruce, fir oak, pine and cedar.</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>											



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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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Total Treatment Acreage Proposed: 93.1

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 11

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition			2B	2I	5C	2G	3J	3L		
239	172	67		0	Aspen	46	6	16				
23	14	0		9	Cedar							9
1	1	0		0	Low-Density Trees			0				
22	0	0		22	Lowland Aspen/Balsam Poplar				22			
20	0	20		0	Lowland Conifers			20				
13	0	0		13	Lowland Mixed Forest				13			
6	6	0		0	Marsh							
39	25	15		0	Mixed Upland Deciduous			15				
206	87	110		9	Upland Conifers			110				9
147	0	122		25	Upland Mixed Forest		14	108		25		
717	304	334		78	Total Forested Acres	46	20	269	35	25		18
	42%	47%		11%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	132	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 11

Year of Entry: 2022

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2I: Survey needed	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	108	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3L: Other wildlife concerns	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Travel and water influence also on stand 25.							
9	Available	2I: Survey needed	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 11

Year of Entry: 2022

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
1	3302 - Low Density Conifer Trees	Nonstocked	1.1			No	Scattered cedar, spruce, fir and aspen. Juniper covers the ground.																																																												
2	429 - Mixed Upland Conifers	Poletimber Medium	14.8	100	1-50	N/A	Sparse pole canopy of conifers dominated by spruce. Thick understory of fir, spruce and cedar.																																																												
<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>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Pole/Log</td> <td>9</td> <td>100</td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>33</td> <td>Pole</td> <td>8</td> <td>100</td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>1</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>1</td> <td>XLog</td> <td>20</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	10	Pole	6		Quaking Aspen	30	Pole/Log	9	100	Balsam Fir	20	Pole/Sapling	5		White Spruce	33	Pole	8	100	Northern White Cedar	5	Pole	8		Red Pine	1	Pole	8		White Pine	1	XLog	20		<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>Northern White Cedar</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Northern White Cedar	Low	5 - 10 feet	Sapling	Balsam Fir	High	5 - 10 feet	Sapling	White Spruce	High	5 - 10 feet	Sapling								
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3	4134 - Aspen, Spruce/Fir	Poletimber Well	26.2	90	51-80	N/A	Decent aspen stand for this area. There is some low ground in this stand in the North East corner. The ground is somewhat marginal and can have areas that are flooded in the spring. There are some cool birch pockets with little regen. There are some areas with tag alder in the understory especially on the west border.																																																												
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4	4134 - Aspen, Spruce/Fir	Sapling Well	15.9	90	1-50	N/A	Smaller diameter stand that is just shy of pole sized. Aspen over thick fir.																																																												
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5	4319 - Mixed Upland Forest	Poletimber Well	56.1	84	51-80	N/A	This stand varies a bit depending on where you are; for the most part it is an aspen, spruce, fir stand with clumps of cedar. The canopy can be scattered in places. There is a lot of fir in the understory throughout. Areas in this stand support enough timber to be managed.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4319 - Mixed Upland Forest	Poletimber Medium	65.7	92	51-80	N/A	Sparse stand of aspen, spruce, fir on rocky ground. The understory is dominated by fir which is thick in most of the stand..
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Pole/Sapling	6		Deciduous Shrubs	
Quaking Aspen		43	Pole/Log/Sap	8	92	Balsam Fir	
Balsam Fir		20	Pole/Sapling	5		White Spruce	
White Spruce		25	Pole	6		Aspen (spp.)	
Sugar Maple		1	Pole	6			
Red Oak		1	Pole	6			

7	4130 - Aspen	Sapling Well	26.6	7	Immature	N/A	Stand was cut in 2013 as part of Sims Point Aspen. Nice regenerations. Oak and Maple retained in the stand. Some fir and spruce are coming in under the aspen. A few batches of large sapling size fir trees left.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		52	Sapling	1	7	Balsam Fir	
Balsam Fir		5	Sapling	2		White Spruce	
Bigtooth Aspen		40	Sapling	1			
Sugar Maple		2	Log	14			
Red Oak		1	Log	14			

8	4319 - Mixed Upland Forest	Sawtimber Well	24.9	103	111-140	N/A	Strip of log sized cedar and aspen along the shoreline.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		20	Pole/Log	8		Balsam Fir	
Quaking Aspen		30	Log/Pole	13	103	White Spruce	
Balsam Fir		19	Pole	6		Deciduous Shrubs	
White Spruce		10	Pole/Log	9		Northern White Cedar	
Northern White Cedar		20	Log/Pole	12			
White Pine		1	XLog	25			

9	4130 - Aspen	Sawtimber Well	5.6	90	81-110	N/A	Small aspen stand that continues onto conservancy land. a portion of it as at the bottom of a small ridge and seems to be holding water at the surface.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Pole	5		Balsam Fir	
Quaking Aspen		45	Log/Pole	10	90	White Spruce	
Balsam Fir		5	Pole	5		Deciduous Shrubs	
White Spruce		5	Pole	6		Aspen (spp.)	
Northern White Cedar		5	Pole	6			
Bigtooth Aspen		30	Log	14			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	4199 - Other Mixed Upland Deciduous	Sawtimber Well	24.9	110	111-140	N/A	Nice mixed hardwood stand with large trees. There is oak scattered through the stand with a small concentration on the west end. There is also birch and aspen in the stand. Most of the advanced regen is 15"+ and is dominated by ironwood. There is almost no regen below that layer.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	55	Log	16	110
Red Oak	20	Log	16	
Paper Birch	10	Log/Pole	10	
Bigtooth Aspen	10	Log	16	
Ironwood	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Red Oak	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Ironwood	Medium	10 - 20 feet	Sapling

11	4130 - Aspen	Sapling Well	55.0	7	Immature	N/A	Stand was cut in 2013 as part of Sims Point Aspen. Oak and maple were left during the harvest. In areas adjacent to the hardwood stand there is a fair number of pole size maples. Pretty good regen that is 6-10' tall.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Log/Pole	12	
Red Oak	1	Log/Pole	13	
Quaking Aspen	50	Sapling	1	7
Bigtooth Aspen	30	Sapling	1	
Northern White Cedar	1	Log	12	
Balsam Fir	5	Sapling/Pole	2	
White Spruce	3	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
White Spruce	Low	< 5 feet	Sapling

12	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	14.6	54	1-50	N/A	Sparse canopy of aspen, birch, spruce and fir. Thick understory of fir. Not much merchantable BA.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	30	Pole	8	54
Quaking Aspen	20	Pole/Log	8	
Balsam Fir	15	Pole	6	
White Spruce	15	Log/Pole	10	
Balsam Poplar	3	Pole/Log	9	
Northern White Cedar	2	Log/Pole	13	
Bigtooth Aspen	15	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Full	Variable	Sapling
White Spruce	Low	Variable	Sapling
Aspen (spp.)	Low	5 - 10 feet	Sapling

13	429 - Mixed Upland Conifers	Poletimber Medium	90.5	90	51-80	N/A	Overall a non-productive site, rocky, almost Alvar-ish looking, just not as open.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole/Sapling	5	
Quaking Aspen	30	Pole/Sapling	5	90
Balsam Fir	20	Pole/Sapling	5	90
White Spruce	24	Pole/Sapling	5	
Northern White Cedar	10	Pole/Log	8	
Tamarack	5	Pole	9	
White Pine	1	XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Shrubs	Medium	Variable	Tall Shrub
Northern White Cedar	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Aspen (spp.)	Low	10 - 20 feet	Sapling
Paper Birch	Low	10 - 20 feet	Sapling
White Spruce	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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14	4139 - Aspen, Mixed Deciduous	Sapling Well	75.0	15	Immature	N/A	Aspen has regenerated very well in this stand. There area some wet areas on the east side of the stand with tag alder and black ash. Cedar was left during the harvest and most of it has blown over. There still are a few scattered especially in the south and east portions of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		58	Sapling	2	15	Balsam Fir		Medium	< 5 feet	Sapling	
Balsam Poplar		20	Sapling	2		Dogwood (spp.)		Low	5 - 10 feet	Tall Shrub	
Balsam Fir		10	Sapling	2		Tag Alder		Low	5 - 10 feet	Tall Shrub	
White Spruce		5	Sapling	2							
Northern White Cedar		2	Log	15							
Paper Birch		5	Sapling	1							

15	4134 - Aspen, Spruce/Fir	Poletimber Well	10.1	93	81-110	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		20	Pole	6		Balsam Fir		High	Variable	Sapling	
Quaking Aspen		40	Pole	8	93	Deciduous Shrubs		High	Variable	Tall Shrub	
Balsam Fir		18	Pole	6		White Spruce		Low	Variable	Sapling	
White Spruce		20	Pole	8		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Northern White Cedar		2	Log/Pole	13							

16	6124 - Lowland Spruce-Fir	Poletimber Well	19.8	80	51-80	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		30	Pole	8	80	Balsam Fir		High	Variable	Sapling	
White Spruce		20	Pole/Log	12		Deciduous Shrubs		Medium	Variable	Tall Shrub	
Black Spruce		30	Pole	6	80						
Northern White Cedar		20	Pole	8							

17	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	13.4	93	51-80	N/A	A mix of lowland species. There are some log sized cedar trees with lots of blow downs. These areas are full of fir. Some areas have tag alder. Not a good place for a walk. There is some higher ground in the very south end of the stand with a little bit of aspen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Yellow Birch		10	Sapling/Pole	4		Balsam Fir		Medium	Variable	Sapling	
Paper Birch		10	Sapling/Pole	4		Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Balsam Fir		20	Pole/Sapling	5	93	Black Ash		Low	5 - 10 feet	Sapling	
White Spruce		15	Pole/Sapling	5							
Northern White Cedar		20	Log/Pole	13	93						
Black Ash		20	Pole/Sapling	6							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
18	429 - Mixed Upland Conifers	Poletimber Poor	5.5	90	1-50	N/A	This stand has low productivity and a fairly open canopy. This conifers in the understory.																																																																
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19	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	9.0	125	81-110	N/A	A little bit better quality stand than those around it. Decent cedar in this stand.																																																																
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20	42360 - Upland Cedar	Sapling Well	9.2	40	1-50	N/A	Thick small diameter cedar with pulp size spruce scattered through out. There is a bunch of cedar regen present in the stand with some of it showing signs of browse.																																																																
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21	6112 - Lowland Aspen	Poletimber Well	21.8	93	51-80	N/A	Wet stand of aspen, spruce, fir. Lots of tag alder in the understory. An area of flooded timber on the east end of the stand is in decline.																																																																
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22	6239 - Mixed Emergent Wetland	Nonstocked	5.8			No	Seasonally flooded stand. Ash trees and a few snags along the edges.																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23	4134 - Aspen, Spruce/Fir	Sapling Well	12.0	8	Immature	N/A	Stand was cut in 2012 as part of Drummond Oak Release. Oak, birch and cedar were left during the harvest. Good aspen regeneration. Quite a bit of browse on some of the dogwood. Did not see any oak regen.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log	14	100	Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	2	Log	14					
Paper Birch	5	Log	11					
Balsam Poplar	10	Sapling	1					
Quaking Aspen	28	Sapling	1	8				
Bigtooth Aspen	25	Sapling	1					
Paper Birch	5	Sapling	1					
Balsam Fir	15	Sapling	1					
White Spruce	5	Sapling	1					

24	42360 - Upland Cedar	Sapling Well	13.9	85	1-50	N/A	Sapling size stand of cedar and spruce. Not sure if this was cut or if the site quality is causing super slow growth in these trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	14	Pole	6		Northern White Cedar	High	< 5 feet	Sapling
Northern White Cedar	70	Sapling	2	85	White Spruce	Low	< 5 feet	Sapling
Black Spruce	10	Sapling	1					
Tamarack	1	Pole	9					
Quaking Aspen	5	Sapling	2					

25	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	86.3	84	141-170	N/A	Mostly a cedar stand with a mix of spruce, fir and aspen, There are a few scattered red and white pine within the stand. The stand has a little bit of topography with a series of small ledges or hills. For the most part it is upland ground but there is some low spots.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	5	Pole	8		White Spruce	Medium	Variable	Tall Shrub
Balsam Poplar	5	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole	6					
White Spruce	10	Log/Pole	10					
Black Spruce	10	Pole	8					
Northern White Cedar	53	Pole	8	84				
White Pine	1	Log	14					

26	4134 - Aspen, Spruce/Fir	Sawtimber Well	9.4	93	111-140	N/A	Nice stand of upland aspen spruce/fir. Some scattered pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Log	9		Balsam Fir	High	Variable	Sapling
Quaking Aspen	40	Log/Pole	12	93	Black Ash	Low	Variable	Sapling
Balsam Poplar	10	Pole/Log	9		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole	8					
White Spruce	10	Log/Pole	12					
Northern White Cedar	10	Log/Pole	12					
Black Ash	10	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 4130 - Aspen Sawtimber Well 3.5 85 111-140 N/A

This stand was left as a buffer along the road when the adjacent stand was cut. It has mature trees and now that the cut stand has regenerated we should harvest this to avoid trees falling on the county road.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	1	Log/Pole	13	
Quaking Aspen	50	Log	14	85
Bigtooth Aspen	30	Log	14	
Northern White Cedar	1	Log	12	
Balsam Fir	15	Pole	8	
White Spruce	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling