

Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45203

Entry Year: 2027

Acreage: 3,054

County: Mackinac

Management Area: St. Ignace Lake Plain

Stand Examiner: Kevin Bryers

Legal Description:

T42N-R11W, Sections 23 -26, 35 and 36 and T42N-R10W Section 19

Identified Planning Goals:

Southeastern portion of Simmons Woods acquisition. This area was purchased in 1996 and had been actively managed prior to that date. This acquisition provides a contiguous link of state land between Big Knob and Point Patterson. Most of the compartment is within designated Special Conservation and Ecological Reference Areas. Stand Site Conditions exist on almost the entire compartment, limiting potential management. Management goals for 2027 are: thin three northern hardwood stands, two Red Pine stands, and clearcut one aspen stand.

Soil and topography:

Area ranges from low swamps to beach ridges and some northern hardwood stands. Soil types include Leafriver-Crowell-Wainola complex, Springlake loamy coarse sand, Eastport-Leafriver complex, Guardlake fine sandy loam, Markey and Carbondale mucks, Spot-Finch complex, Eastport sand, and Crowell sand.

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

Mostly state land, including two other Simmons Woods compartments. Duel Lake is a meandered lake and there is some private land adjacent to the northwest corner of this compartment.

Unique Natural Features:

Provides contiguous link of state land between Big Knob and Point Patterson; includes a wooded dune and swale complex. Plants associated with Lake Michigan dune complex are found along the lakeshore. There is potential for numerous raptor species to use the mature hardwood and/or pine stands.

Archeological, Historical, and Cultural Features:

Sites are known to exist.

Special Management Designations or Considerations:

This compartment lies within the Simmons Woods area. Most of the compartment is within designated Special Conservation and Ecological Reference Areas. Stand Site Conditions exist on almost the entire compartment, limiting potential management.

Watershed and Fisheries Considerations:

This compartment contains Duel Lake, Browns Lake, Barns Pond, Cataract River, Crow River and Shedowin Creek. The Cataract River, Shedowin Creek, and the Crow River are designated Type 1 trout streams less than 50-ft wide that have predicted mean July water temperatures that range from 61.2 to 64.2°F (cold streams). 300-foot buffers are recommended for the Cataract River, Shedowin Creek, and the Crow River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these resources in accordance with Best Management Practices. Duel Lake, Browns Lake and Barns Pond are natural lakes that exist in this compartment. 100-foot, plus 5 feet per 1% increase in slope, buffers are recommended to protect inland lake shoreland areas in accordance with Best Management Practices. The isthmus between Duel Lake and Browns Lake is approximately 150-ft. It may be beneficial to excavate an open-water channel between the two waterbodies. Connecting Duel Lake and Browns Lake may benefit the fish communities by providing access to better spawning habitat.

Wildlife Habitat Considerations:

This compartment is in the St. Ignace Lake Plain Management Area where featured wildlife species include American marten, American woodcock, black bear, Blackburnian warbler, black-throated blue warbler, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. It is part of the Simmons Woods area. Habitats in this compartment range from wooded dune and swale complex to northern hardwoods. Duel Lake is located along the west side of the compartment. All but the northwest corner of the compartment is part of a dedicated habitat area for core interior forest species. Most of the area east and south of Duel Lake is wooded dune and swale complex or shoreline area, and most of it is part of an environmental reference area. There are a number of rare species in this zone. Finally, most of the

compartment is also part of deer wintering complex. Some management is planned in the northwest corner in the Duel Lake area. Many of the treatments are in northern hardwoods and the goal is encouraging age class and structural diversity. Species diversity will be maintained, including retaining hemlock. The rest of the compartment will be left and rare species and habitats protected. In addition, shoreline habitat will be protected to provide habitat for endemic plants and shore birds. However, invasive species control may be necessary to maintain the natural habitat. A variety of species will benefit from the habitat in this compartment including, but not limited to, blackburnian warbler, bear, white-tailed deer, and snowshoe hare.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 203 Section 19, T42N R10W and sections 23-26 & 35-36, T42N R11W, Mackinac County No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for economic production of metallic minerals in this area. The closest known active sand & gravel operation is more than two miles north. Potential for development of any sand & gravel within the compartment appears limited to thin areas of glacial drift over bedrock in the northwest uplands. Extensive exploration (test drilling) for high-purity dolomite was conducted west of the compartment. High-purity dolomite of the Engadine Group is relatively thin in the northwestern portion of the compartment and increases in thickness to the south and east. The State acquired a significant property from Carmeuse just west of the compartment, as part of a land exchange, a few years ago, and the dolomite resources were evaluated as part of the transaction. While valuable dolomite resources occur on/beneath the compartment, potential for economic development of these resources is unlikely in the near future. Development of a new quarry and associated infrastructure would not be economical at this time

Vehicle Access:

Access into this compartment is via Simmons Woods Road. The county road ends before entering state land. The other roads within the compartment are now considered DNR roads. Simmons Trail is part of a larger loop road that continues into the adjacent compartment. Other roads include Bovee Road and Amadon Trail, accessing the compartment to the north; Fox Point Road, which dead-ends at Fox Point; Watson Trail, runs between Simmons Trail and Mitigwaking Trail; and Tower Trail, which heads towards Crow River. These roads vary from good to poor condition, but usually remain passable.

Survey Needs:

Since this is a new acquisition, no department corners exist.

Recreational Facilities and Opportunities:

Primarily hunting, fishing, camping and nature viewing. Nice camping spots located on Duel Lake, as well as by the Lake Michigan shoreline at Fox Point and Steak Fry.

Fire Protection:

Low fire danger area, but lightning strikes have been found in the area. The problem of ground fire exists in the area making mop-up efforts more difficult.

Additional Compartment Information:

A Forest Treatment Proposal (FTP) has been approved to treat invasive phragmites along the Lake Michigan shoreline. Treatments as per work instructions and FTP may occur along the shoreline as necessary to eliminate the colonizing invasive phragmites.

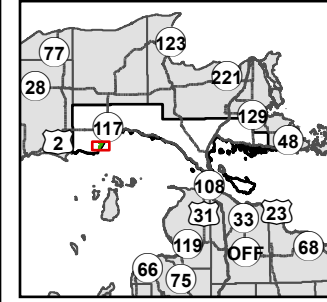
The following reports from the Inventory are attached:

- 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**

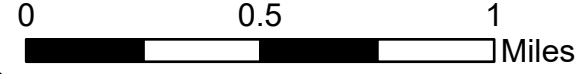
The following information is displayed, where pertinent, on the attached compartment maps:

- 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: 45203
 T42N, R10W, Sec: 19
 T42N, R11W, Sec: 23-26, 35, 36
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt. Area: St. Ignace Lake Plain
 YOE: 2027
 Acres: 3,054 GIS Calculated
 Examiner: Kevin Bryers
 Date Exported: 2/4/2026
 Map Phase: Post Review

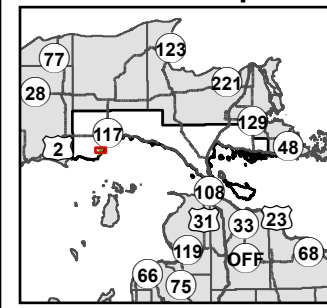


- ◆ Survey Grade Corners
- ▲ Berm
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Streams
- Lakes and Rivers
- Compartment Boundary
- Clearcut
- Selection
- Thinning
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 413 - Aspen

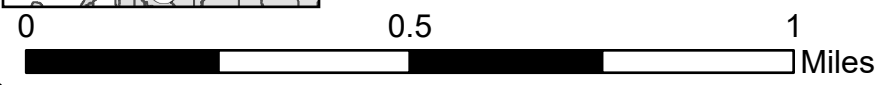
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil
- 730 - Mud Flats



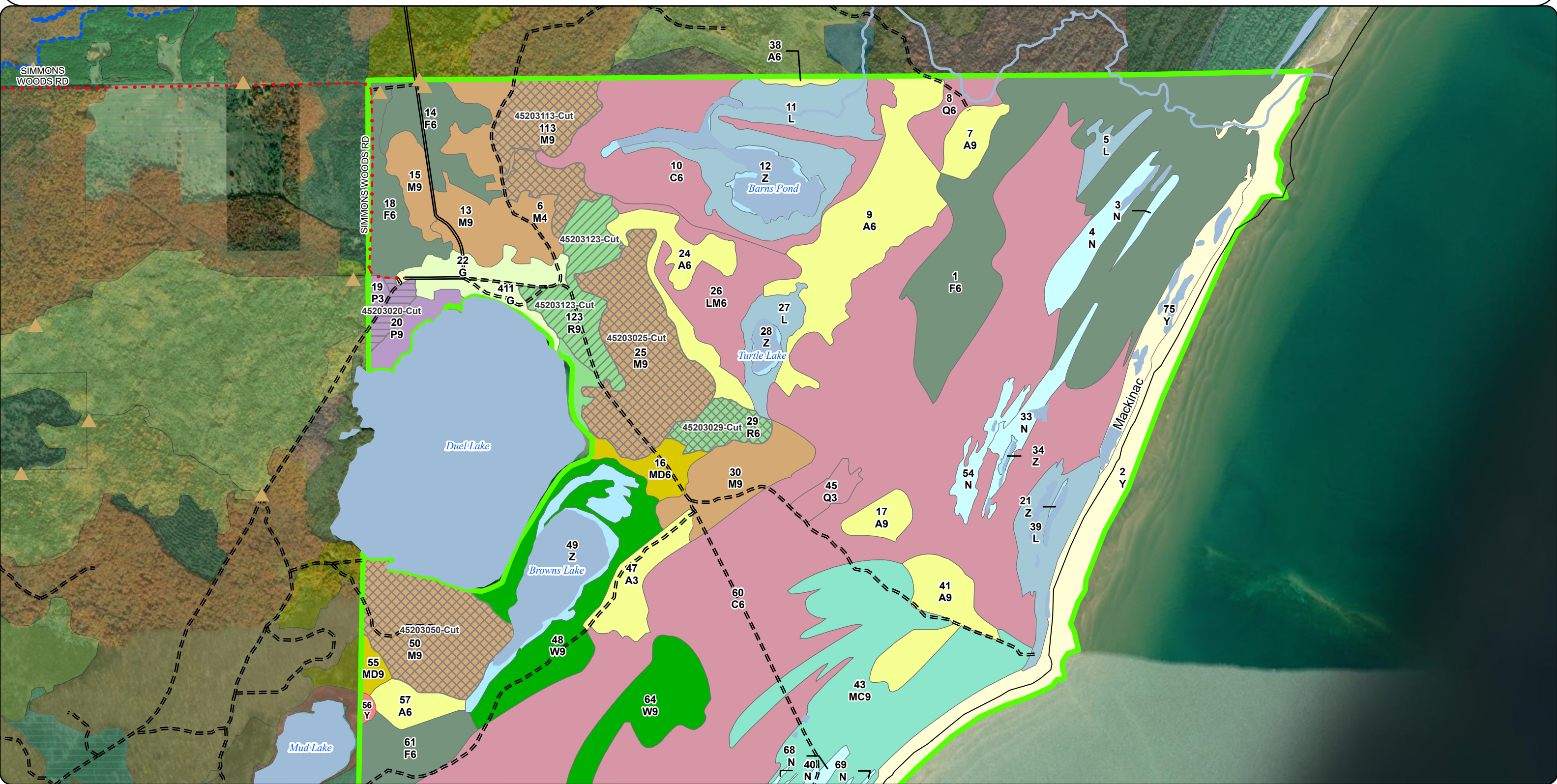
Cover Type & Treatments Map



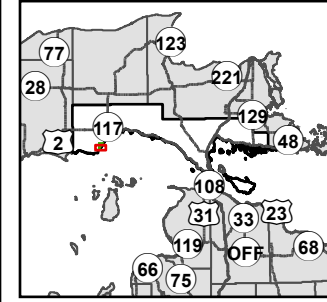
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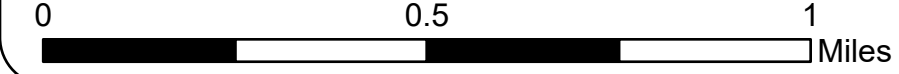
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|-----------------------------|---------------------------------|---------------------------------|----------------------------|
| Berm | Clearcut | 421 - Planted Pines | 613 - Lowland Mixed Forest |
| DNR - Secondary Forest Road | Selection | 422 - Natural Pines | 310 - Herbaceous Openland |
| DNR - Forest Access Route | Thinning | 423 - Other Upland Conifers | 622 - Lowland Shrub |
| County - Gravel Road | Treatments with Site Conditions | 429 - Mixed Upland Conifers | 623 - Emergent Wetland |
| Streams | 411 - Northern Hardwood | 500 - Water | 710 - Sand, Soil |
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Cover Type & Treatments Map



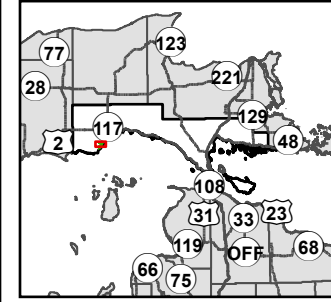
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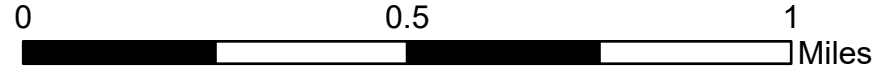
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Stand Boundary Map



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- Streams
- Lakes and Rivers

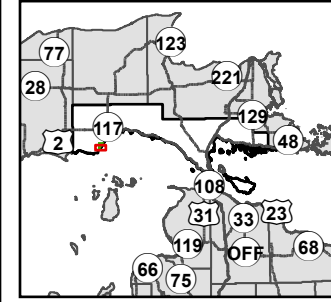
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Stand Boundary Map



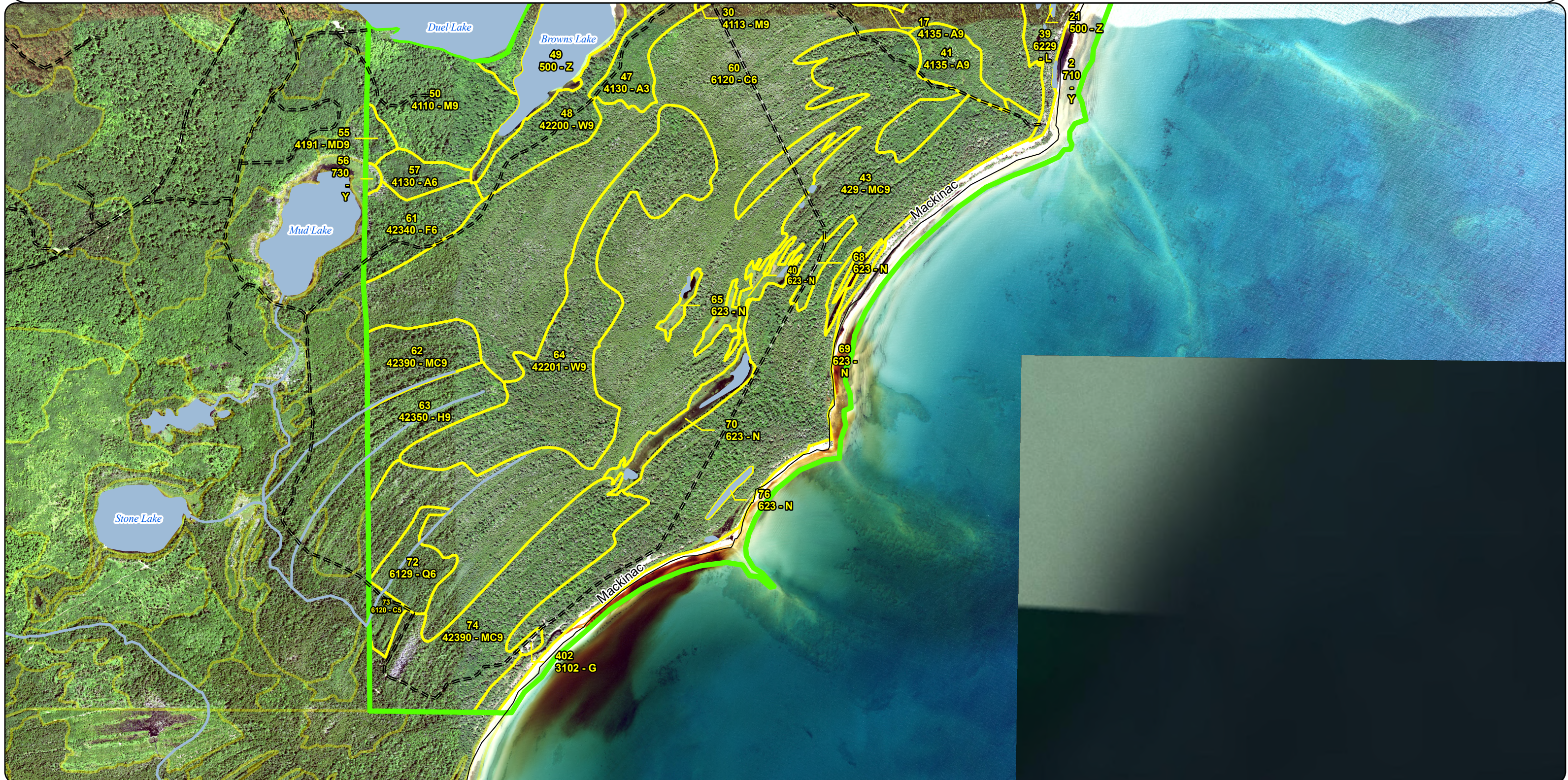
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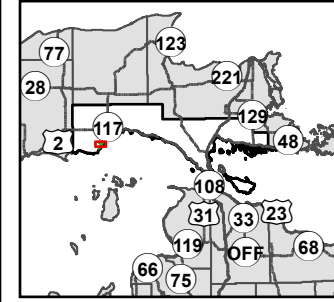
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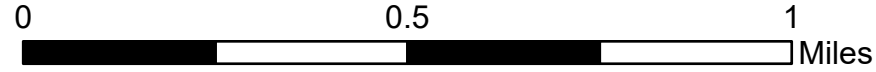
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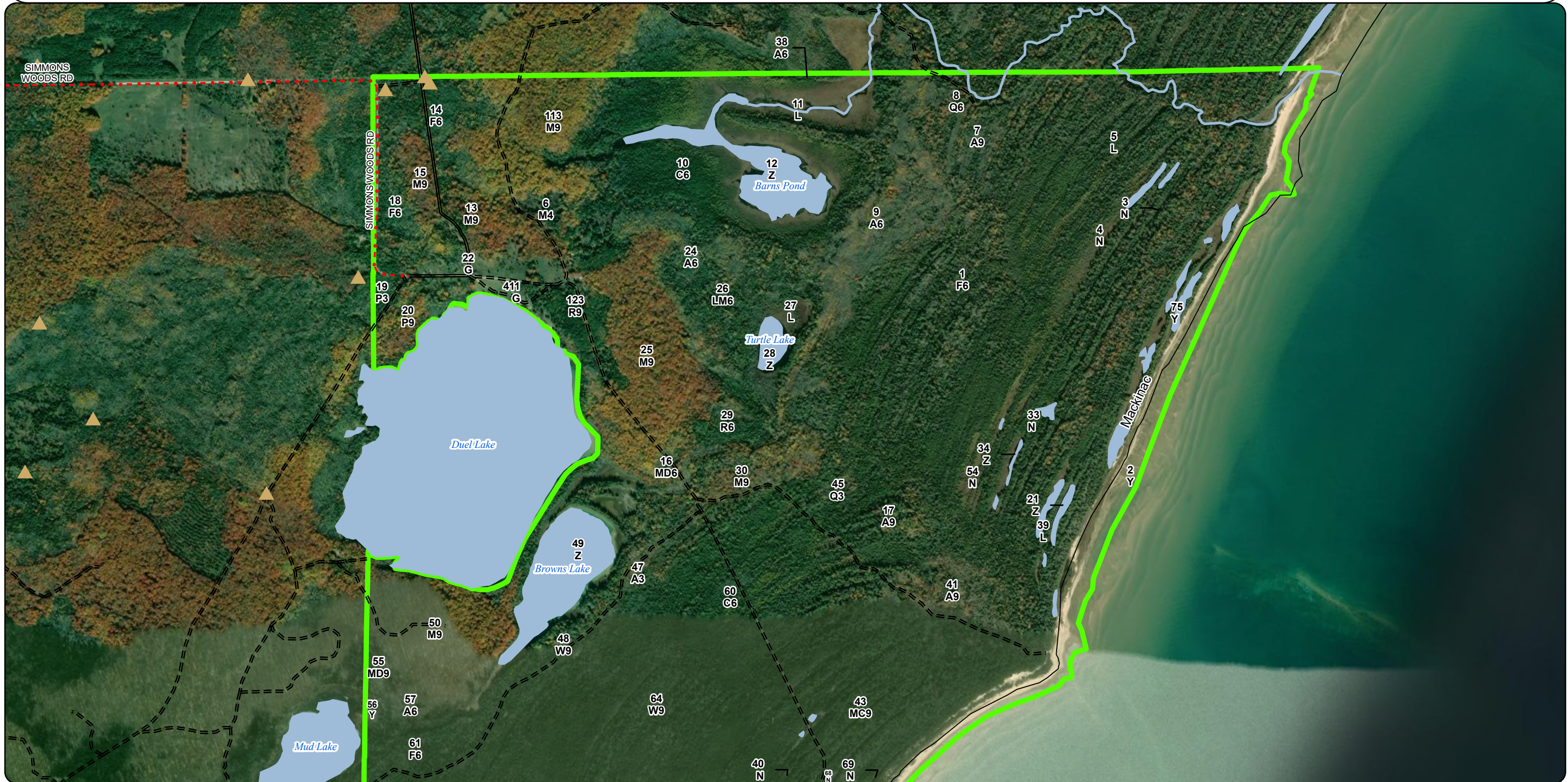
**Special Conservation Areas
& Site Conditions Map**



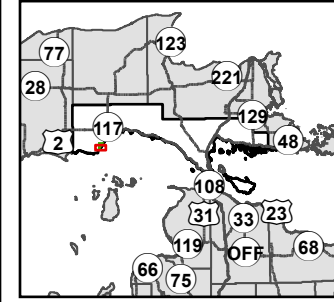
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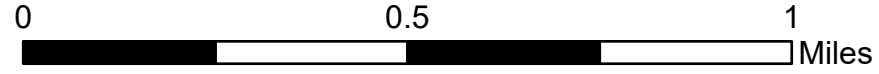
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- Compartment Boundary
- Stand Boundaries
- Ecological Reference Areas
- Coastal Environmental Areas
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Type 1 and Type 2 Old Growth
- Deer Winter Range
- Other Habitat Area



**Special Conservation Areas
& Site Conditions Map**



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Report 1 – Total Acres by Cover Type and Age Class

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	0	0	0	0	34	34	93	0	0	0	0	0	0	0	0	0	41	202
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	813	96	909
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0	0	34
Herbaceous Openland	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Aspen/Balsam Poplar	0	0	0	0	0	3	0	0	20	0	0	0	0	0	0	0	0	0	23
Lowland Conifers	0	0	0	0	0	19	9	0	0	0	0	16	0	0	0	0	0	0	44
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	41
Lowland Shrub	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123
Marsh	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
Northern Hardwood	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	278	285
Red Pine	0	0	0	0	0	0	0	0	59	0	0	0	0	0	0	0	0	0	59
Sand, Soil	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	96	323	0	0	0	419
Upland Spruce/Fir	0	0	0	0	0	32	31	0	29	0	0	235	0	0	0	0	0	0	327
Water	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183	183
Total	507	0	0	0	0	95	74	93	108	0	0	251	34	96	323	0	813	658	3052

Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 203
Total Compartment Acres: 3,054

Commercial Harvest - 449
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
Lowland Aspen/Balsam Poplar	7	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	183	0	0	0	0	0	0	0	183
Red Pine	0	16	0	0	0	37	0	0	0	53
Total	7	198	0	0	0	37	0	0	0	242

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	242	0	0	0	0	0	0	0	0	242
Next Step	0	0	0	0	0	0	205	0	0	205
Total	242	0	0	0	0	0	205	0	0	448

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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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Approved Treatments:

20	45203020-Cut	7.1	6112 - Lowland Aspen	9	75	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No
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Prescription Harvest all deciduous species 2" DBH and larger regardless of merchantability. Harvest all coniferous species 4"DBH and larger regardless of merchantability. No harvesting of cedar. One hundred feet wide buffer where no harvesting will take place, will al

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: natural

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

25	45203025-Cut	73.6	4110 - Sugar Maple Association	9	110	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No
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Prescription Select thin to 80 basal area and cut all aspen which are 2" and up. Promote underrepresented species and expand gaps where good regeneration already exists. Promote high quality pole sized hardwood over mature log sized trees where they exist. Leave some

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: natural

Other Comment: Normal bark slippage operating restrictions apply.

Site Condition:

Proposed Start Date: 10/01/2026

29	45203029-Cut	15.6	42110 - Planted Red Pine	6	70	51-80	Harvest	Selection	429 - Mixed Upland Conifers	Current	No
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Prescription Harvest all trees marked with tree marking paint. Thin to 70 BA.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: natural : species that are currently present

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

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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
50 45203050-Cut	63.0	4110 - Sugar Maple Association	9	102	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Select thin to 80 basal area and cut all aspen which are 2" and up. Promote underrepresented species and expand gaps where good regeneration already exists. Promote high quality pole sized hardwood over mature log sized trees where they exist. Leave any</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 Regen:</u> natural: northern hardwood species</p> <p><u>Other Comment:</u> Normal bark slippage operating restrictions apply.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
113 45203113-Cut	45.9	4110 - Sugar Maple Association	9	90	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Prescription Specifications Select thin to 80 basal area and cut all aspen which are 2" and up. Promote underrepresented species and expand gaps where good regeneration already exists. Promote high quality pole sized hardwood over mature log sized trees w</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 Regen:</u> natural</p> <p><u>Other Comment:</u> Normal bark slippage operating restrictions apply.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
123 45203123-Cut	37.2	42111 - Planted Red Pine, Mixed Deciduous	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Harvest red pine trees marked with tree marking paint. Focus on poor quality trees (doubles, crooks, snipes). Reduce basal area to approximately 120. Follow BMP guidelines along lakeshore.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> natural</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

Total Treatment 242.4
Acres Proposed:

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kevin Bryers: Examiner

Compartment: 203

Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5F	3A	3J	3K	3L
129	47	0	83	Aspen		83			
889	88	0	800	Cedar		800			
34	0	0	34	Hemlock		34			
30	28	0	2	Herbaceous Openland		2			
16	3	0	13	Lowland Aspen/Balsam Poplar			6		7
45	0	0	45	Lowland Conifers		45			
41	41	0	0	Lowland Mixed Forest					
123	83	0	40	Lowland Shrub		40			
93	0	0	93	Marsh		93			
19	19	0	0	Mixed Upland Deciduous					
258	249	0	9	Northern Hardwood		9			
22	16	0	6	Red Pine			6		
88	2	0	87	Sand, Soil		87			
418	0	0	418	Upland Conifers		418			
296	0	29	268	Upland Spruce/Fir	29	259		9	
91	89	0	2	Water		2			
152	0	0	152	White Pine		152			
2,744	665	29	2,050	Total Forested Acres	29	2,023	12	9	7
	24%	1%	75%	Relative Percent					

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3A: Conservation values incompatible with harvest at this time	2,023	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA Wooded Dune and Swale ERA boundary							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kevin Bryers: Examiner

Compartment: 203

Year of Entry: 2027

2	Available	5F: Evaluated for Forest Health Considerations	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Monitoring for SBW							
3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: buffer for Duel Lake. also serves as retention area for adjacent harvest.							
4	Unavailable	3K: Rare or unique landforms	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3K: Rare or unique landforms	9	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Buffer zone along Duel Lake will also serve as retention area.							
7	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Discussed and approved at compartment review 10/2/25 between FRD and wildlife staff.							

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42340 - Upland Spruce/Fir	Poletimber Well	235.2	101	81-110	N/A	Good mix of white spruce and aspen with ridge/swale.
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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	Variable
Quaking Aspen	20	Pole/Log	9		White Spruce	Low	Variable	Variable
Bigtooth Aspen	10	Pole/Log	9					
Balsam Fir	5	Pole	6					
White Spruce	55	Pole/Log	9	101				
White Pine	5	XLog	18					

2	710 - Sand, Soil	None	140.3				No
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3	623 - Emergent Wetland	None	3.6				No
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4	623 - Emergent Wetland	None	18.9				No
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5	6229 - Mixed Lowland Shrub	None	8.1				No
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6	4117 - Mixed N. Hardwood - Pine	Poletimber Poor	7.3	49	1-50	N/A	Opening with bushy cherry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Sapling/Pole	4		Sugar Maple	Low	< 5 feet	< 5 feet
Balsam Fir	10	Sapling/Pole	4		Black Cherry	Low	5 - 10 feet	5 - 10 feet
White Pine	10	Log/Pole	12		Beech	Low	5 - 10 feet	5 - 10 feet
Red Pine	10	Log/Pole	12					
Black Cherry	60	Pole/Sapling	6	49				

7	4136 - Aspen, Mixed Conifer	Sawtimber Well	13.2	65	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Log/Pole	10	65	Red Maple	Low	Variable	Variable
Bigtooth Aspen	40	Log/Pole	10	65	Balsam Fir	Medium	Variable	Variable
Balsam Fir	15	Sapling/Pole	4	65				
White Pine	5	Log/XLog	16	81				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.4	109	81-110	N/A	Stand is complete mix, with ridge/swale.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	7	
Paper Birch	20	Pole	8	
Quaking Aspen	10	Pole/Log	9	
Balsam Fir	25	Pole	8	109
White Spruce	15	Pole	9	
Northern White Cedar	10	Pole	8	
White Pine	10	Log/Pole/XLog	12	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	High	Variable	Variable

9	4130 - Aspen	Poletimber Well	79.9	65	81-110	N/A	Mix of quaking and bigtooth aspen with some balsam fir.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Pole/Log	8	65
Bigtooth Aspen	40	Pole/Log	8	65
Balsam Fir	10	Pole/Log	8	65

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Variable
Balsam Fir	Medium	Variable	Variable

10	6120 - Lowland Cedar	Poletimber Well	88.3	124	81-110	N/A	Cedar stand with open wetland in areas.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	6	
Quaking Aspen	10	Pole/Sapling	5	
Balsam Fir	20	Pole	6	
Northern White Cedar	60	Pole/Log	8	124

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Conifers	Medium	5 - 10 feet	5 - 10 feet

11	6229 - Mixed Lowland Shrub	None	68.1			No	
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12	500 - Water	None	30.6			No	BURNS POND.
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13	4110 - Sugar Maple Association	Sawtimber Well	44.0	85	81-110	N/A	Beech is dying out but low stocked. Stand may be ready for a thinning in ten years.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Log/Pole	12	85
Beech	10	Log/Pole/XLog	10	51
Quaking Aspen	5	Pole/Log	8	
Balsam Fir	5	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	Variable	Variable
Beech	High	Variable	Variable

14	42340 - Upland Spruce/Fir	Poletimber Well	31.5	41	51-80	N/A	Stand year of origin is 1994.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Pole/Sapling	5	41
Balsam Fir	25	Pole/Sapling	5	41
White Spruce	50	Pole/Sapling	5	41

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Variable
White Spruce	Low	Variable	Variable
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15	4110 - Sugar Maple Association	Sawtimber Well	14.2	100	51-80	N/A	Not enough beech to cut.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	85	Log/Pole	12	100	Ironwood	Trace	10 - 20 feet	10 - 20 feet
Beech	10	Log/XLog/Pole	12		Beech	High	Variable	Variable
Balsam Fir	5	Pole	8		Balsam Fir	Low	Variable	Variable

16	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	14.2	51	51-80	N/A	A couple red oak found in the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole/Log/Sap	7		Red Maple	Medium	Variable	Variable
Red Maple	10	Pole/Sap/Log	7		Balsam Fir	Medium	Variable	Variable
Paper Birch	10	Log/Pole	10	105	Striped Maple	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	20	Pole/Log	8	51				
Balsam Poplar	20	Pole/Log	8	51				
Balsam Fir	10	Pole/Sapling	6					
Northern White Cedar	10	Pole/Sap/Log	6					
Green Ash	10	Pole/Sapling	5					

17	4135 - Aspen, Cedar	Sawtimber Well	10.2	53	51-80	N/A	Aspen clear cut done about thirty years ago, prior to state ownership.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Log/Pole	10	53	Tag Alder	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	20	Log/Pole	10	81				
White Pine	20	Log/Pole	16	81				

18	42330 - Upland Fir	Poletimber Well	29.1	70	51-80	N/A	Mix of species. Look to harvest all or partial in next inventory cycle.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole/Log	8		Sugar Maple	Low	Variable	Variable
Quaking Aspen	10	Pole/Sap/Log	7		Balsam Fir	High	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	5	Pole/Sap/Log	7		Northern White Cedar	Low	Variable	Variable
Balsam Fir	60	Pole/Sapling	5	70				
White Spruce	15	Pole	8					
Northern White Cedar	5	Pole/Log	8					

19	6112 - Lowland Aspen	Sapling Well	3.3	47	51-80	N/A	Stand year of origin 1979. Slow growth low area.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	7	Sapling	3	
Quaking Aspen	36	Sapling	3	47
Balsam Poplar	34	Sapling	3	
Balsam Fir	8	Sapling/Pole	3	
Northern White Cedar	15	Sapling	3	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
20	6112 - Lowland Aspen	Sawtimber Well	19.6	75	81-110	N/A	Good looking mix.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		8	Pole/Log	8		Ironwood	Trace	10 - 20 feet	10 - 20 feet
Beech		2	Log/Pole/XLog	12		Sugar Maple	Low	Variable	Variable
Quaking Aspen		60	Log/Pole	10	75	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir		30	Pole	8	75				
21	500 - Water	None	1.3				No		
22	3102 - Grass	None	16.9				No	semi open grass area used as camping area.	
24	4130 - Aspen	Poletimber Well	31.2	46	51-80	N/A	Young aspen stand with some mix.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Pole	6	46	Balsam Fir	Low	Variable	Variable
Bigtooth Aspen		5	Pole	6	46	Sugar Maple	Low	Variable	Variable
Balsam Fir		5	Pole	6	46	Red Maple	Low	Variable	Variable
						Striped Maple	Low	10 - 20 feet	10 - 20 feet
25	4110 - Sugar Maple Association	Sawtimber Well	73.6	110	111-140	N/A	Some large beech in the stand, beech is dying.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		95	Log/Pole	16	110	Beech	Medium	Variable	Variable
White Ash		3	Log/Pole	12	110	Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Beech		2	Log/XLog/Pole	14	110	Sugar Maple	Full	< 5 feet	< 5 feet
26	6139 - Mixed Lowland Forest	Poletimber Well	41.3	81	81-110	N/A	Good mix of species.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		30	Pole	8	51	Red Maple	Low	Variable	Variable
Quaking Aspen		5	Pole/Log	9		Balsam Poplar	Low	< 5 feet	< 5 feet
Balsam Poplar		15	Pole/Sap/Log	8		Balsam Fir	Medium	Variable	Variable
Balsam Fir		10	Pole/Log	8		White Spruce	Low	Variable	Variable
White Spruce		30	Log/Pole	12	81				
Northern White Cedar		10	Pole	7					
27	622 - Lowland Shrub	None	15.3				No	Tamarack has mostly died off.	
28	500 - Water	None	5.8				No	TURTLE LAKE.	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
29	42110 - Planted Red Pine	Poletimber Well	15.6	70	51-80	N/A	Red pine is being outgrown by taller white pine, balsam fir, white spruce and aspen. Evidence of budworm.																																																
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30	4113 - R.Maple, Conifer	Sawtimber Well	36.1	108	81-110	N/A	The paper birch is dying off. Steep topography!																																																
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43	429 - Mixed Upland Conifers	Sawtimber Well	293.7	130	111-140	N/A	Ridge and swale stand along Lake Michigan. Stand is quite variable. This stand has more upland area than the cedar to the north.																																																												
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45	6124 - Lowland Spruce-Fir	Sapling Well	8.8	53	Unspecified	N/A	Small diameter swamp conifer.																																																												
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48	42200 - Natural White Pine	Sawtimber Well	59.7	161	81-110	N/A	A couple red oak found in the stand.																																																												
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49	500 - Water	None	52.3			No	OPIC - FMD: BROWNS LAKE. PROPOSED OLD GROWTH.																																																												

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50	4110 - Sugar Maple Association	Sawtimber Well	63.0	102	111-140	N/A	Beech is dying off.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		84	Log/Pole/XLog	15	102	Sugar Maple	
White Ash		3	Log/Pole	14	102	Beech	
Beech		11	Log/Pole/XLog	15	102	Density	
Paper Birch		1	Pole/Sapling	6		Avg. Height	
Ironwood		1	Sapling/Pole	4		Size	

54	623 - Emergent Wetland	None	11.2			No	
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55	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.1	96	51-80	N/A	Paper birch is mature and starting to die off.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		30	Pole/Sap/Log	8		Balsam Fir	
Paper Birch		40	Log/Pole	10	96	Ironwood	
Balsam Poplar		3	Pole/Sapling	5		Sugar Maple	
Balsam Fir		5	Pole/Sapling	7		Striped Maple	
White Spruce		5	Log/Pole	10		Beech	
Northern White Cedar		15	Log/Pole/XLog	12		Density	
Green Ash		2	Sapling/Pole	4		Avg. Height	
						Size	

56	730 - Mud Flats	None	1.7			No	
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57	4130 - Aspen	Poletimber Well	12.5	50	51-80	N/A	Mix of quaking and bigtooth aspen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		50	Pole/Sapling	6	50	Balsam Fir	
Bigtooth Aspen		40	Sapling/Pole	4		Density	
Balsam Fir		10	Sapling/Pole	4		Avg. Height	
						Size	

60	6120 - Lowland Cedar	Poletimber Well	813.2	165	141-170	N/A	Ridge and swale cedar type. This stand is quite variable. There doesn't appear to be a lot of deer use.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole/Log	8		Northern White Cedar	
Paper Birch		5	Pole	8		Conifers	
Quaking Aspen		5	Pole/Log	8		Red Maple	
Balsam Fir		5	Pole	6		Tag Alder	
White Spruce		5	Pole	6		Density	
Black Spruce		3	Pole/Sapling	5		Avg. Height	
Northern White Cedar		50	Pole/Log	6	165	Size	
Tamarack		2	Pole/Sapling	7			
White Pine		15	Log/Pole/Sap	12			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
61	42340 - Upland Spruce/Fir	Poletimber Well	31.4	53	81-110	N/A	Good mix.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Pole/Sapling	6		Balsam Fir	
Quaking Aspen		9	Pole/Sapling	6		Northern White Cedar	
Balsam Fir		30	Pole/Log	6	53	Red Maple	
White Spruce		30	Pole/Log	8	53		
Northern White Cedar		1	Pole	6			
White Pine		20	XLog/Log	20			
						Density	Avg. Height
							Size
62	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	29.7	134	81-110	N/A	Ridge and swale. Pole size.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		30	Pole	6		Balsam Fir	
Northern White Cedar		35	Log/Pole	10	134	Hemlock	
White Pine		20	XLog	24		White Pine	
Red Pine		15	XLog	24			
						Density	Avg. Height
							Size
63	42350 - Upland Hemlock	Sawtimber Well	34.4	115	171-200	N/A	Ridge and swale hemlock.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		10	XLog/Log	22	115	Balsam Fir	
Red Pine		10	XLog/Log	18	115		
Hemlock		80	XLog/Log	18	115		
						Density	Avg. Height
							Size
64	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	123.4	161	81-110	N/A	Ridge and swale.
65	623 - Emergent Wetland	None	3.5			No	
68	623 - Emergent Wetland	None	7.3			No	
69	623 - Emergent Wetland	None	4.4			No	
70	623 - Emergent Wetland	None	17.0			No	
72	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	19.4	44	51-80	N/A	Super thick saplings.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		40	Sapling	3	44	Tag Alder	
Northern White Cedar		40	Pole/Log	6	44	Balsam Fir	
Tamarack		20	Log/Pole	10			
						Density	Avg. Height
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 6120 - Lowland Cedar Poletimber Medium 7.5 101 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	25	Pole/Log	8	81	Alder	Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar	50	Pole/Log	8	101				
Tamarack	25	Pole/Log	8	81				

74 42390 - Mixed Non-Pine Upland Conifers Sawtimber Well 95.5 120 81-110 N/A Ridge and swale stand. Smaller diameters than the stand to the east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Log/Pole	10		Striped Maple	Medium	10 - 20 feet	10 - 20 feet
Balsam Poplar	5	Log/Pole	12		Conifers	High	Variable	Variable
Balsam Fir	10	Pole	7		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Black Spruce	30	Pole	8					
Northern White Cedar	30	Log/XLog	16	120				
White Pine	10	XLog	24					
Black Ash	5	Pole/Log	8					

75 710 - Sand, Soil None 28.1 No

76 623 - Emergent Wetland None 1.5 No

113 4110 - Sugar Maple Association Sawtimber Well 46.6 90 81-110 N/A Beech is small component of stand and dying off.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	90	Log/Pole	16	90	Beech	High	Variable	Variable
Beech	7	Log/Pole/XLog	10		Sugar Maple	High	Variable	Variable
Quaking Aspen	3	Pole	7					

123 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 43.1 70 141-170 N/A Red pine basal area is up to 170 in the thickest areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	13	Sapling/Pole	4		Quaking Aspen	Low	Variable	Variable
Paper Birch	2	Sapling/Pole	4		Sugar Maple	Low	Variable	Variable
Quaking Aspen	10	Sapling/Pole	4		Black Cherry	Low	< 5 feet	< 5 feet
Red Pine	75	Log/Pole	10	70				

402 3102 - Grass None 1.8 No

411 3102 - Grass None 11.4 No DISPERSED AREA ALONG NORTH SHORE OF DUEL LAKE.