



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45010

Entry Year 2023

Acreage: 2,091

County Chippewa

Management Area: Drummond Island

Stand Examiner: Jeff Wise

Legal Description:

T41N R5E Sec 1, 2, 3, 4, T42N R5E Sec 34, 35, 36

Identified Planning Goals:

The management objectives this YOE will consist of selection harvests in two hardwood stands including one stand adjacent in Compartment 13. Other management will include regeneration treatments in various mature aspen, softwood mix types to begin the 0-10 year age class of these types. Treatments that are in the deer yard areas will be restricted to winter harvest.

Soil and topography:

Soils are generally Shelter-Posen-Summerville series. These typical Drummond soils shallow with variable drainage. Glacial lake benches are commonly associated with the northern hardwood types. Topography is uplands gently rolling into lowland swamps.

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

Residences, hunting and recreational camps surround the compartment on the north and east sides. State land continues on the west side, and Michigan Dolomite owns and operates a quarry on the south side. The primary use of state land is hunting, and timber management.

Unique Natural Features:

Potential for several species of wildlife according to the MNFI data base which is always crossed reference before conducting treatments.

Archeological, Historical, and Cultural Features:

The old Bailey farm is in this compartment. Some building remains still visible as well as old appliances. Fields have filled in with aspen, tamarack, spruce, and balsam. A nearby hardwood stand served as the old sugar bush area with an old boiler foundation still on site.

Special Management Designations or Considerations:

Deer yard

Watershed and Fisheries Considerations:

This compartment contains Moushie Creek (intermittent), Boot Lake, Bailey Lake, and Squeaky Lake. Prescribed treatments are appropriate for the protection of these waterbodies.

Wildlife Habitat Considerations:

This compartment is part of the Drummond Island Management Area where featured wildlife species include black bear, northern goshawk, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. It is located on the southwest side of the island in deer wintering complex. Most of the land in the compartment was acquired using State Game Fund resources. A number of lakes and two streams as well as associated riparian areas are in or partially in the compartment, and the Pigeon Cove Flooding is just to the west of it. Forested cover types range from lowland cedar and mixed cover to aspen and northern hardwoods. Habitats are influenced by the limestone bedrock, which is at or near the surface in most places. Rocky outcrops and boulders exist in places. Management over the last 10 years included removal of most diseased beech in some northern hardwood stands, planting red oak in parts of stands 7 and 18 (two areas where beech had been cut) to provide a future source of hard mast, and retention of cedar-dominated conifer cover for wintering deer. Most cuts have been completed in the winter so tops could be accessible as browse for wintering deer. Wildlife objectives will be similar to those over the last 10 years. Cedar and other lowland conifer cover will be maintained for wintering deer as well as other species like bear. Age class and structural diversity will be encouraged by treating some stands. The young growth will benefit ruffed grouse, deer, snowshoe hare, and other wildlife. Harvests on most

stands will take place during the winter months so tops are available as browse for wintering deer. Snags and coarse woody debris will remain to provide habitat for a variety of species, including some amphibians.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. Multiple active sand/gravel pits are less than one mile to the northeast, and there may be potential for sand & gravel within the compartment on the uplands. Dolostone is quarried on the island immediately south of the compartment, and Drummond Dolomite (Carmeuse) is looking to potentially expand their operations (primarily to the south and east). Glacial drift appears to be thicker in the east half of the compartment, whereas bedrock dolostone is near the surface in the west half. In addition, the west half of the compartment is underlain by Engadine dolomite, which is the primary target of quarry operations. The east half is underlain by Manistique Group dolomite. Wetlands and a shallow water table in this area could make surface mining more costly. The State does not own much of the mineral rights within the compartment and may or may not own the rights to the non-metallic minerals depending on deed language. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights

Vehicle Access:

Reasonable access to most parts of the compartment with 2 or 4 wheel drive vehicles. Permission is needed to use the Quarry Road for management.

Survey Needs:

SW 1/4 of Section 2 and the S1/2 of Section 3.

Recreational Facilities and Opportunities:

Snowmobile trail through compartment, hunting and dispersed camping. No ORV trails in the compartment.

Fire Protection:

Water sources are Pigeon Cove on the west side, Boot and Bailey's Lake on the east side, and there is good road access.

Additional Compartment Information:

Currently, there is a land exchange process with the Quarry in the SESW of Section 2. The quarry is expanding the pit northward to their property boundary.

The following reports from the Inventory are attached:

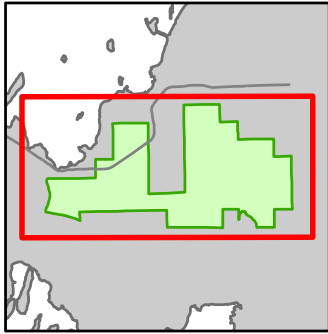
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

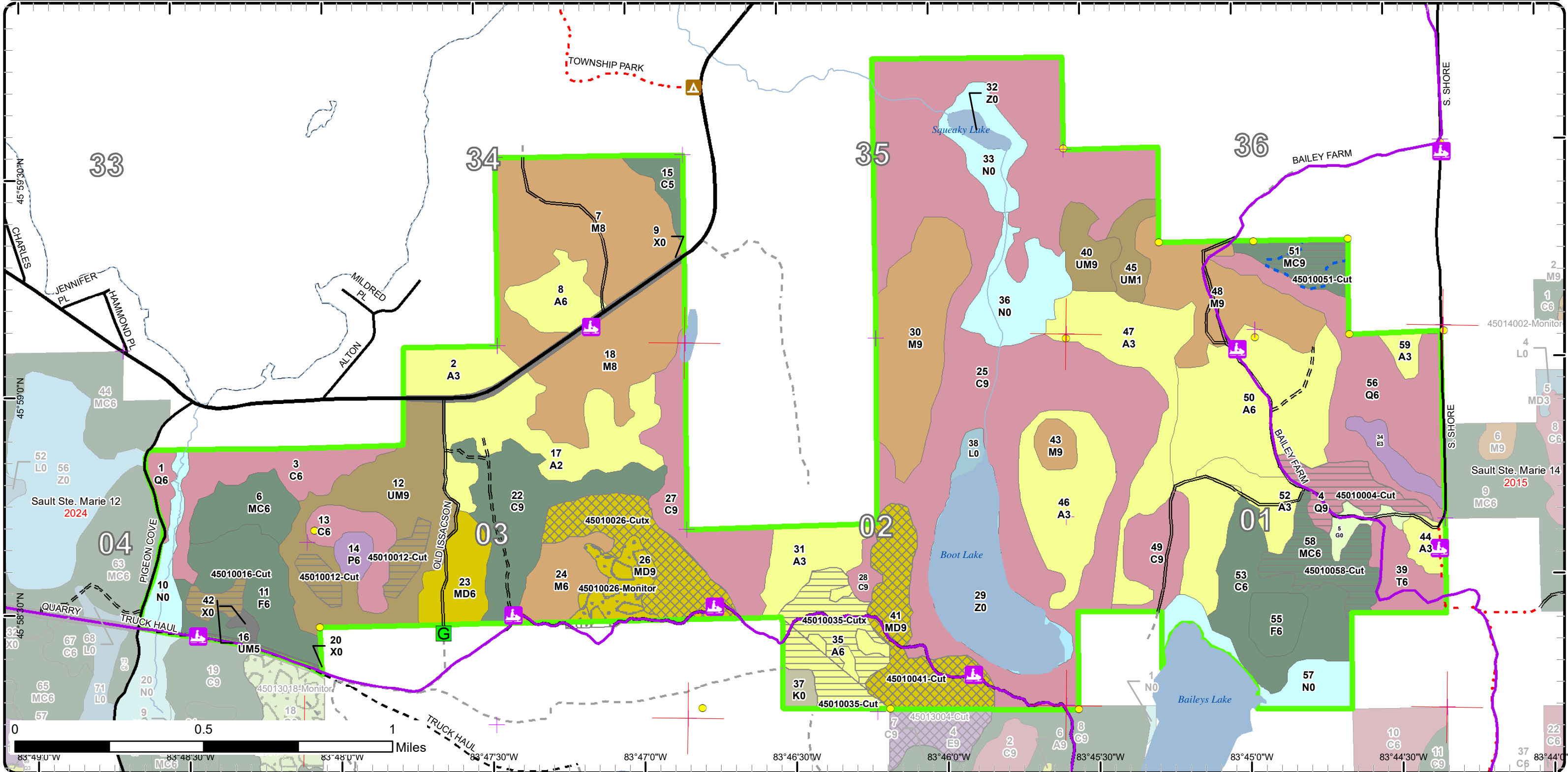
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 10
 T42N, R05E, Sec: 34-36
 T41N, R05E, Sec: 1-4
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2023
 Acres: 2090.7 GIS Calculated
 Examiner: Jeff Wise
 Map Revised: 1/28/2022
 Map Phase: Post Review

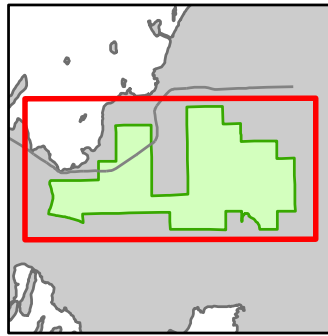


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- G Gate
- ▲ Campground
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 720 - Exposed Rock

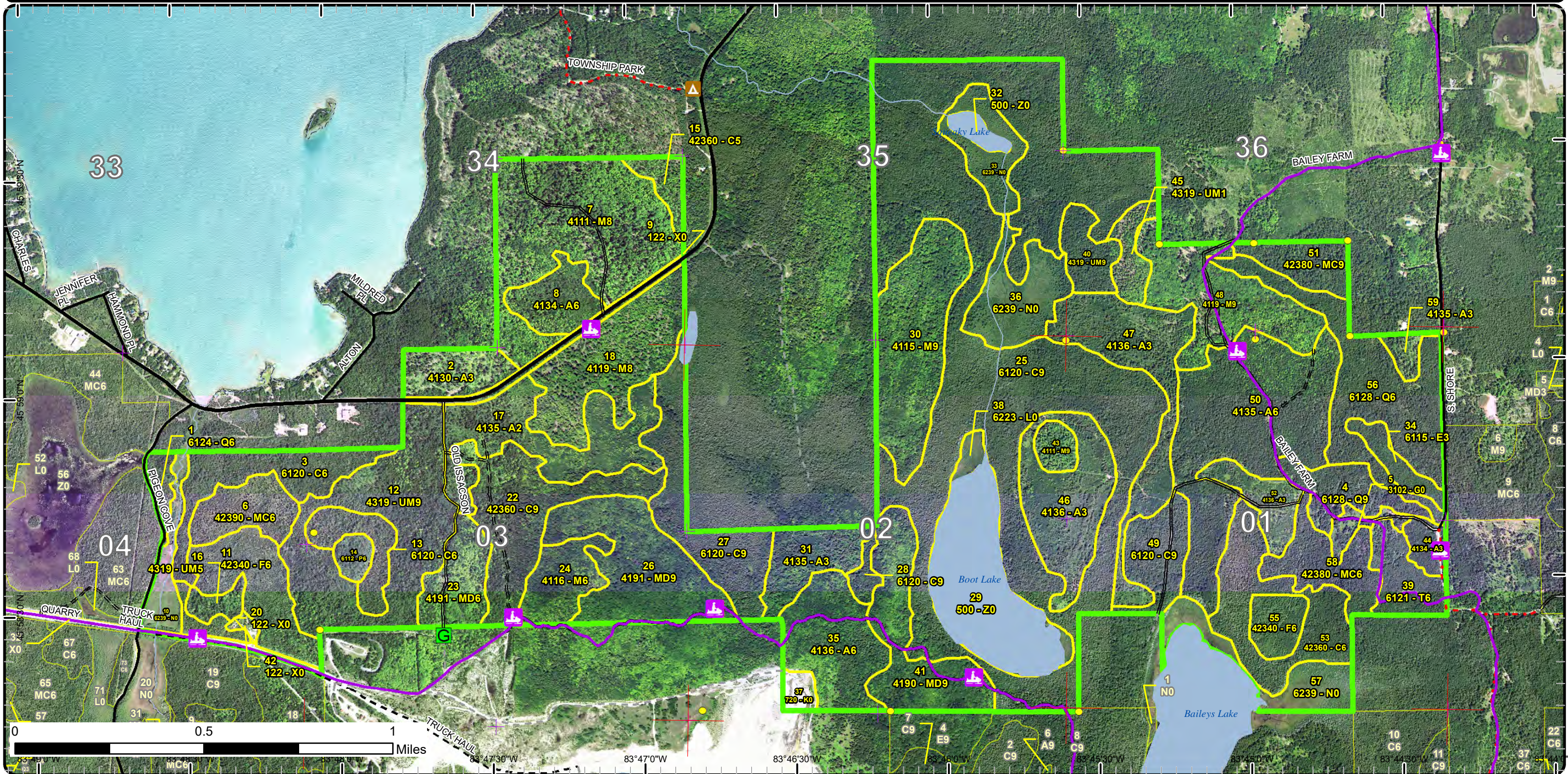


Stand Boundary Map

Compartment: 10
 T42N, R05E, Sec: 34-36
 T41N, R05E, Sec: 1-4
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2023
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 Examiner: Jeff Wise
 Map Revised: 1/28/2022
 Map Phase: Post Review

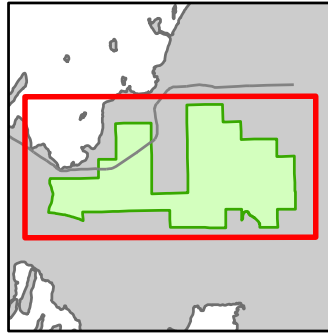


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
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- Federal / State Highway
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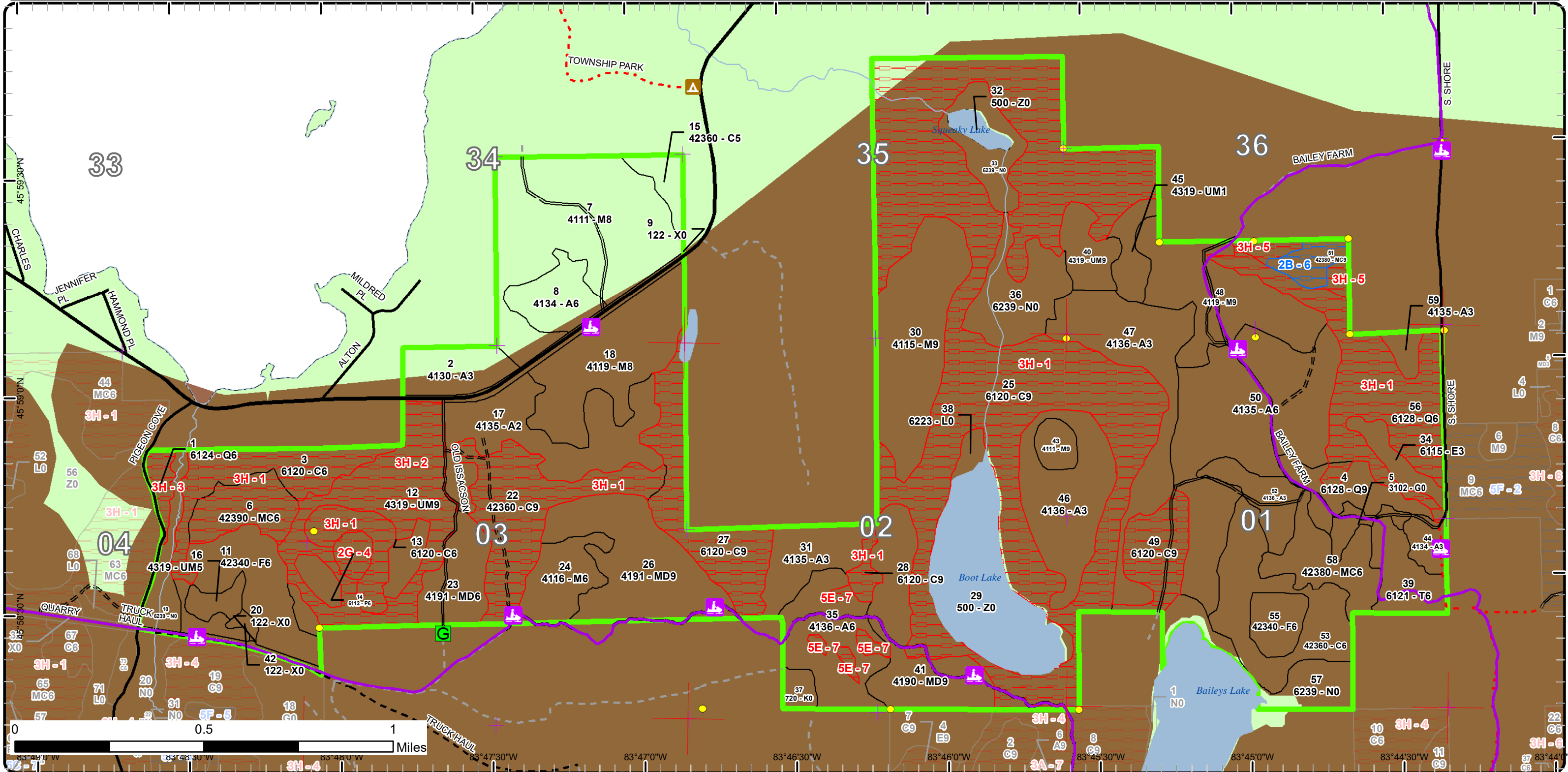


Special Conservation Areas

Compartment: 10
T42N, R05E, Sec: 34-36
T41N, R05E, Sec: 1-4
County: Chippewa
Unit: Sault Ste. Marie
Mgmt Area: Drummond Island
YOE: 2023
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- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Gate
- Campground
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- 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+	Uneven-Aged	Total
Aspen	0	22	216	0	55	131	0	0	0	0	0	0	0	0	0	0	0	0	424
Cedar	0	0	0	0	0	0	0	0	0	78	36	0	26	0	409	0	0	58	607
Exposed Rock	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	7	0	0	95	0	0	0	0	0	102
Lowland Deciduous	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Marsh	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Mixed Upland Deciduous	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	114	139
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	320	320
Tamarack	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Upland Conifers	0	0	0	0	0	0	0	0	0	24	0	0	28	0	19	0	0	0	71
Upland Mixed Forest	0	13	0	0	0	0	0	0	0	0	7	0	16	0	0	0	0	89	125
Upland Spruce/Fir	0	0	0	0	14	44	0	0	0	0	0	0	0	0	0	0	0	0	58
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Water	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Total	205	35	216	0	101	175	25	0	0	109	50	0	165	0	428	0	0	581	2090



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 10
Total Compartment Acres: 2,091

Commercial Harvest - 192
Harvests with Site Condition - 11
Next Step Harvest - 0
Habitat Cut - 15

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	40	0	0	0	0	0	0	0	0	40
Lowland Conifers	23	0	0	0	0	0	0	0	0	23
Mixed Upland Deciduous	0	94	0	0	0	0	0	0	0	94
Upland Conifers	39	0	0	0	0	0	0	0	0	39
Upland Mixed Forest	23	0	0	0	0	0	0	0	0	23
Total	124	94	0	0	0	0	0	0	0	218

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	218	0	0	0	0	0	22	0	0	240
Next Step	0	0	22	0	0	22	218	0	0	262
Total	218	0	22	0	0	22	240	0	0	501



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:

4	45010004-Cut	22.8	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	111	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2" top except cedar, pine, and hemlock. Winter cut (Dec. 1 - Mar. 31) - deer yard. Create brush piles in areas adjacent to conifer stands or young trees if possible through normal processing operations to benefit hare.</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> present species</p> <p><u>Other Comment:</u> Was sold and never cut, check paint lines for refreshing. Normal snowmobile trail protections (5' stumps cut flush, 10' no slash, leave a snow base)</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
12	45010012-Cut	15.2	4319 - Mixed Upland Forest	Sawtimber Well	86	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Yes
<p><u>Prescription</u> The goal of this treatment is to regenerate patches of aspen and protect areas of cedar that provide cover along with areas of moss covered boulders. This treatment will harvest up to 20 acres of this stand. The current boundary is drawn in the approximate location of known operable areas but is subject to change. Within the cut areas harvest all trees down to 2" in DBH except pine and oak. Work with WLD during sale layout to establish the sale boundary. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Management will maintain early successional habitat while providing varying age classes which are beneficial for ruffed grouse, snowshoe hare, deer, bear, and other species.</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> Acceptable regen includes aspen, birch, maple, spruce, fir, cedar, pine</p> <p><u>Other Comment:</u> There is a rocky area to protect adjacent to the Old Issacson Rd. that should be excluded from the sale area. If large boulders are encountered as sale is set up, rare species survey will be needed. Alternatively, a 100 ft. buffer can be placed around boulders. Normal snowmobile trail protections (5' stumps cut flush, 10' no slash, leave a snow base)</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
16	45010016-Cut	7.3	4319 - Mixed Upland Forest	Poletimber Medium	90	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2" in DBH except leave cedar, pine, hemlock, oak and yellow birch.</p> <p><u>Specs:</u> Exclude areas of thick cedar that provides cover. There is a patch of cedar in the SE corner of the stand and along the west edge that should be excluded. Leave a wildlife corridor along the wetland edge on the west side of the stand (The strip of stand 11 is adequate). Treatment will encourage young early-successional habitat used by wildlife like ruffed grouse and deer while maintaining cover for deer and other species.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> present species, including cedar</p> <p><u>Other Comment:</u> Normal snowmobile trail protections (5' stumps cut flush, 10' no slash, leave a snow base)</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26	45010026-Cutx	43.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	111	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark down to 70-80 BA and create 1-3 regen gaps per acre approx. 1 tree length in diameter to encourage age class diversity in the stand for deer, bear, and other species. Leave any oak, pine, hemlock, and cedar to maintain and encourage tree species diversity and provide food and cover resources for these and other wildlife species. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Create brush piles in areas adjacent to conifer stands if possible through normal processing operations to benefit here.</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> present species</p> <p><u>Regen:</u></p> <p><u>Other</u> Normal snowmobile trail protections (5' stumps cut flush, 10' no slash, leave a snow base)</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
26	45010026-Monitor	21.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	111	81-110	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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Pesticide, Other - Specify; Planting, Underplant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /6 /2022</p>											
35	45010035-Cut	15.6	4136 - Aspen, Mixed Conifer	Poetimber Well	31	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all species to a two inch top.</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> present species</p> <p><u>Regen:</u></p> <p><u>Other</u> This Unit of stand 35 is up for a land transaction with the quarry, therefore leave no retention, and start ASAP. Winter cut deer yard unless transaction is imminent. Normal snowmobile trail protections (5' stumps cut flush, 10' no slash, leave a snow base)</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/5 /2021</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
35	45010035-Cutx	24.5	4136 - Aspen, Mixed Conifer	Poetimber Well	31	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species to a 2 inch top except hemlock, yellow birch, oak and pine. Leave retention patches focused on areas of cedar which provide cover. The approximate location of these areas has already been removed from this treatment but is subject to change during sale layout. Retention should not drop below 0.5 acres for 10 acres of harvest. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes aspen</p> <p><u>Other Comment:</u> Normal snowmobile trail protections (5' stumps cut flush, 10' no slash, leave a snow base)</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
41	45010041-Cut	50.2	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	111	81-110	Harvest	Single Tree Selection	4190 - Mixed Upland Deciduous with Cedar	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark trees to 70-80 BA and create 1-3 regen gaps per acre approx. 1 tree length in diameter to encourage age class diversity in the stand for deer, ruffed grouse, and other species. Do not mark low represented species such as oak, hemlock, pine, yellow birch or cedar to retain these species of high wildlife value in this stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> present species</p> <p><u>Other Comment:</u> Comp 13, stand 4 is to be added to this treatment. Normal snowmobile trail protections (5' stumps cut flush, 10' no slash, leave a snow base)</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
51	45010051-Cut	10.6	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	134	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species down to two inches DBH except cedar. Do not harvest in areas of dense cedar and hemlock. The treatment shape has been adjusted to roughly reflect the operable area in the stand. Treatment shape will change when doing field work. Winter cut-deer yard.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> present species</p> <p><u>Other Comment:</u> Access will be through private, WLD does not want a skid trail or road made through the surrounding cedar stand on state land. Normal snowmobile trail protections (5' stumps cut flush, 10' no slash, leave a snow base)</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</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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58	45010058-Cut	28.4	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	111	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Cut all trees except cedar, pine, and hemlock. Paint out any cedar patches for retention. Winter cut (Dec. 1 - Mar. 31) - deer yard. Create brush piles in areas adjacent to conifer stands or young trees if possible through normal processing operations to benefit hare.

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

Acceptable Regen: Present species

Other Comment: Sold and never cut check for paint line refreshing. Normal snowmobile trail protections (5' stumps cut flush, 10' no slash, leave a snow base)

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed: 239.8

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 10

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2B	2G	3H	5E
		With Condition	Not Available					
424	418	0	6	Aspen				6
607	59	0	548	Cedar		0	548	
6	6	0	0	Exposed Rock				
7	7	0	0	Herbaceous Openland				
7	0	0	7	Lowland Aspen/Balsam Poplar		7		
102	20	0	82	Lowland Conifers			82	
11	11	0	0	Lowland Deciduous				
5	5	0	0	Lowland Shrub				
96	96	0	0	Marsh				
141	141	0	0	Mixed Upland Deciduous				
321	321	0	0	Northern Hardwood				
21	21	0	0	Tamarack				
71	28	11	32	Upland Conifers	11		32	
125	55	0	70	Upland Mixed Forest		0	70	
58	58	0	0	Upland Spruce/Fir				
17	17	0	0	Urban				
74	74	0	0	Water				
2,092	1,338	11	744	Total Forested Acres	11	7	731	6
	64%	1%	36%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	646	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 10

Year of Entry: 2023

2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	70	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: This area of the stand has thick cedar cover and or moss covered boulders that are being protected.							
3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Areas of the stand that has thick cedar providing cover.							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: WLD is requiring access through PVT and permission has not been sought.							

7	Unavailable	5E: Long-Term Retention	6	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Areas of cedar that provide cover.							

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	6124 - Lowland Spruce-Fir	Poletimber Well	7.4	83	1-50	N/A	Deer yard area, less cedar but too wet, more of a swamp stand.																																																				
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2	4130 - Aspen	Sapling Well	21.5	8	Immature	N/A	Sale 45-004-13-01, cedar and maple reserved. Full regen accomplished. additional retention is a rocky ridge along the highway.																																																				
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3	6120 - Lowland Cedar	Poletimber Well	36.1	90	1-50	N/A	Lowland but only wet in spots, some upland rocky ground as well, thick cedar/fir, deer yard.																																																				
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4	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	22.8	111	51-80	N/A	Was typed as cedar but is a mature strip of mixed stuff.																																																				
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5	3102 - Grass	Nonstocked	7.2		Unspecified	Managed Opening	The old Bailey farm, remnant out buildings and cabin still visible.																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
6	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	23.5	83	1-50	N/A	Too rocky to operate, a lot of cedar and its deer yard.																																																								
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7	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	102.9	111	51-80	N/A	Sale 45-009-14-01 beech salvage. WLD planted oak in 2018.																																																								
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8	4134 - Aspen, Spruce/Fir	Poletimber Well	21.3	42	1-50	N/A	Small patch of timber mixed with younger aspen. Looks like it was picked over in the past. contains mature spruce and a ridge of cedar.																																																								
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9	122 - Road/Parking Lot	Nonstocked	11.0		Unspecified	No	Contains M-134, the power line , and a strip of trees between them.																																																								
10	6239 - Mixed Emergent Wetland	Nonstocked	15.2		Unspecified	No	Marsh that contains Pigeon Cove Creek																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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11 42340 - Upland Spruce/Fir Poletimber Well 43.9 40 1-50 N/A Very thick stand but slow growing for its age, probably due to soil conditions in this area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	40	Sapling/Pole	4	40	Northern White Cedar	Medium	Variable	Sapling
Paper Birch	5	Sapling/Pole	4					
White Spruce	30	Pole/Sapling	6					
Quaking Aspen	5	Sapling/Pole	4					
Northern White Cedar	10	Pole/Sapling	5					
Bigtooth Aspen	5	Sapling/Pole	4					
White Pine	5	Pole/Log	10					

12 4319 - Mixed Upland Forest Sawtimber Well 89.0 86 51-80 N/A Rocky with boulders, deer yard, thicker pocket of mature aspen in the NW part near private. County has widened the road for truck use into the quarry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log	16		Balsam Fir	Medium	Variable	Sapling
White Spruce	20	Log/Pole	12					
Sugar Maple	3	Log/Pole	10					
Balsam Fir	5	Pole	6					
Paper Birch	5	Pole	8					
Northern White Cedar	25	Pole	6					
Quaking Aspen	35	Log/Pole	12	86				
White Pine	5	Log	12					

13 6120 - Lowland Cedar Poletimber Well 18.8 83 51-80 N/A Almost pure cedar, low but not wet, deer yard.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Pole	6		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	90	Pole	6	83				
Quaking Aspen	5	Pole	6					

14 6112 - Lowland Aspen Poletimber Well 6.6 90 1-50 N/A Neat clone of aspen in a low ponded area, can be wet or dry, scenic quality, very unique.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	10	Pole	6		Deciduous Shrubs	Medium	Variable	Tall Shrub
Quaking Aspen	90	Pole/Sapling	8	90	Aspen (spp.)	Medium	Variable	Sapling

15 42360 - Upland Cedar Poletimber Medium 9.9 82 51-80 N/A Sale 45-004-13-01, cedar and maple reserved,

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	80	Pole	6	82	White Spruce	Low	Variable	Sapling
Sugar Maple	20	Pole	6	82	Quaking Aspen	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16 4319 - Mixed Upland Forest Poletimber Medium 7.2 90 51-80 N/A Silvicultural Criteria not met but looks mature.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	20	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	20	Pole	8		White Spruce	Low	Variable	Sapling
Paper Birch	10	Pole/Sapling	5					
White Spruce	20	Pole/Sapling	6					
Quaking Aspen	20	Pole	8	90				
Northern White Cedar	10	Pole/Sapling	6					

17 4135 - Aspen, Cedar Sapling Medium 59.0 16 Immature N/A Regen thick, but raspberries too, cedar reserved.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Sapling	2		Blackberry/Raspberry	Medium	Variable	Tall Shrub
White Spruce	5	Sapling	2					
Red Maple	10	Sapling	1					
Northern White Cedar	20	Pole	6					
Quaking Aspen	60	Sapling	2	16				

18 4119 - Mixed Northern Hardwoods Sawtimber Medium 60.5 111 51-80 N/A Sale 45-004-13-01, beech salvage, maple dieback very prevalent here. Oak seedlings and saplings planted in 2017 by WLD.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Log/Pole	12		Red Oak	Low	Variable	Sapling
Quaking Aspen	15	Log/Pole	12		Beech	Medium	Variable	Sapling
Yellow Birch	10	Log/Pole	11		Sugar Maple	Medium	Variable	Sapling
Sugar Maple	70	Log/Pole	12	111				

20 122 - Road/Parking Lot Nonstocked 3.8 Unspecified No Quarry Road

22 42360 - Upland Cedar Sawtimber Well 58.3 115 51-80 N/A Deer yard, more deer than west side of road, less rocky but has a neat ridge running through it, a very nice stand with large trees, very unique and scenic. There is evidence of past logging in this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	6		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	5	Log/Pole	12		Northern White Cedar	Low	Variable	Pole
Sugar Maple	5	Log/Pole	14		Sugar Maple	Low	Variable	Sapling
White Spruce	5	Log/Pole	12					
Paper Birch	5	Log/Pole	10					
Northern White Cedar	70	Log/Pole	12	115				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 25.4 51 1-50 N/A More aspen in the north half, was typed as M3, like a hardwood clear-cut at one time, with scattered poles of various species, regen good despite being in the deer yard.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Sapling/Pole	3		Sugar Maple	Medium	Variable	Sapling
White Spruce	5	Pole	7					
Sugar Maple	35	Pole/Sapling	5	51				
Balsam Poplar	5	Pole/Sapling	5					
Hemlock	5	Log/Pole	12					
Yellow Birch	5	Pole/Sapling	5					
Balsam Fir	5	Pole	5					
Quaking Aspen	25	Pole/Sapling	6	21				
Northern White Cedar	10	Pole	6					

24 4116 - Mixed N. Hardwood - Aspen Poletimber Well 24.2 31 1-50 N/A Sap/pole transition stage, some mature maple, beech, and aspen. Not much ground cover.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole	6		Sugar Maple	High	Variable	Sapling
Northern White Cedar	10	Log/Pole	14					
Sugar Maple	50	Pole	6	31				
Beech	10	Pole/Sapling	5					

25 6120 - Lowland Cedar Sawtimber Well 355.3 133 81-110 N/A Lowland but not wet, just thick. Very large stand comprising a large part of the eastern half of the compartment.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	80	Log/Pole	12	133	Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	10	Log/Pole	10		Northern White Cedar	Low	Variable	Sapling
White Spruce	10	Log/Pole	10					

26 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 63.7 111 81-110 N/A The south west portion of the stand had beech and ash salvaged in 2020. The rest of the stand is prescribed for a selection cut in 2023.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole/Log	8		Beech	Low	Variable	Sapling
Bigtooth Aspen	5	Log/Pole	12		Sugar Maple	Low	Variable	Sapling
Hemlock	5	Log/Pole	12					
Beech	10	Log/Pole	12					
Balsam Fir	5	Pole	6					
Ironwood	5	Sapling/Pole	4					
Paper Birch	5	Pole	8					
White Spruce	5	Log/Pole	10					
Sugar Maple	40	Log/Pole	10	111				
Quaking Aspen	5	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
27	6120 - Lowland Cedar	Sawtimber Well	48.4	133	81-110	N/A	Lowland but not wet, just thick, deer yard.																																																						
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28	6120 - Lowland Cedar	Sawtimber Well	5.4	133	81-110	N/A	Lowland but not wet, just thick, deer yard.																																																						
29	500 - Water	Nonstocked	69.1		Unspecified	No	Boot Lake																																																						
30	4115 - Y.Birch, Hemlock NH	Sawtimber Well	68.6	111	81-110	N/A	Treated last YOE, looking good.																																																						
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31	4135 - Aspen, Cedar	Sapling Well	25.4	16	Unspecified	N/A	Aspen regen full, cedar reserved.																																																						
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32	500 - Water	Nonstocked	5.3		Unspecified	No	Squeaky Lake																																																						
33	6239 - Mixed Emergent Wetland	Nonstocked	21.5		Unspecified	No																																																							
34	6115 - Lowland Ash	Sapling Well	11.0	32	1-50	N/A	Wet black ash stand.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
35	4136 - Aspen, Mixed Conifer	Poletimber Well	46.4	31	81-110	N/A	Heavily logged or picked over in the past. Deer yard and snow trail within stand																																												
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36	6239 - Mixed Emergent Wetland	Nonstocked	33.5		Unspecified	No																																													
37	720 - Exposed Rock	Nonstocked	5.8		Unspecified	No	Old trespass by quarry many years ago, now up for land exchange with Quarry.																																												
38	6223 - Inundated Shrub Swamp	Nonstocked	4.6		Unspecified	No																																													
39	6121 - Tamarack	Poletimber Well	21.3	39	Unspecified	N/A	Aquisition from Quarry 1982.																																												
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40	4319 - Mixed Upland Forest	Sawtimber Well	16.2	118	51-80	N/A	Below a big rock ridge and inoperable. unless a skid trail can be built, maybe from the south.																																												
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41	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	50.2	111	81-110	N/A	Does not have high basal area, no ground cover to speak of. No BBD seen.																																												
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42	122 - Road/Parking Lot	Nonstocked	2.1		Unspecified	No	Old Horse Head pit. Quarry hold mineral rights.																																								
43	4111 - S.Maple, Hard Mast Association	Sawtimber Well	8.1	111	51-80	N/A	Nice typical Drummond hardwood island, select cut fourteen years ago, all white birch removed, minor amounts of fir along the edges, no BBD so far.																																								
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44	4134 - Aspen, Spruce/Fir	Sapling Well	8.8	39	Unspecified	N/A	Acquisition from Quarry 1982, (Full 55 gallon oil drum in ruins of old farm shed, contact DEQ for removal....remove this comment after discussion at pre review.)																																								
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45	4319 - Mixed Upland Forest	Sapling Poor	12.8	6	Immature	N/A	Sale 005-13, cut in 2015, regen good, cedar reserved.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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48	4119 - Mixed Northern Hardwoods	Sawtimber Well	56.3	111	81-110	N/A	Nice diversity of species but they occur mostly around the perimeter, the interior is maple and beech, aspen and balm occur in small clones. Beech salvage sale 005-13, cut in 2015.																																																											
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49	6120 - Lowland Cedar	Sawtimber Well	25.6	115	Unspecified	N/A	Some areas have the "park" like appearance deer yard.																													
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50	4135 - Aspen, Cedar	Poletimber Well	110.2	46	Unspecified	N/A	Wet in areas, scattered maple, aspen , and spruce in the north that was left when cut , larger DBH.																																																
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51	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	18.6	134	81-110	N/A	Small stand of mixed timber.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 4136 - Aspen, Mixed Conifer Sapling Well 17.6 15 Unspecified N/A Coming back nice, cedar was reserved.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling	1	
Quaking Aspen	35	Sapling	1	15
White Spruce	10	Sapling/Pole	4	
Bigtooth Aspen	20	Sapling	1	
Northern White Cedar	10	Pole	8	
Balsam Poplar	20	Sapling	1	

53 42360 - Upland Cedar Poletimber Well 49.3 85 Unspecified N/A Looks as though maybe the aspen was cut out years ago, regen is thick with fir yet there is mature spruce and cedar, some wet ground along previous sale boundary.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	20	Pole	8		Balsam Fir	High	Variable	Sapling
Balsam Poplar	5	Pole/Sapling	5					
Quaking Aspen	5	Log/Pole	12					
Northern White Cedar	60	Pole	8	85				
Balsam Fir	10	Pole/Sapling	5					

55 42340 - Upland Spruce/Fir Poletimber Well 13.9 39 51-80 N/A Coming back thick, just beginning pole size transition.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	25	Pole/Sapling	5	
White Spruce	35	Pole/Sapling	5	39
Quaking Aspen	20	Sapling/Pole	4	
Northern White Cedar	20	Pole/Sap/Log	8	

56 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 71.8 110 81-110 N/A Some upland, thick cedar and fir understory, deer yard.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	7		Northern White Cedar	High	Variable	Sapling
Paper Birch	10	Pole	6		Balsam Fir	High	Variable	Sapling
Tamarack	10	Pole	8					
Quaking Aspen	30	Log/Pole	10					
Northern White Cedar	40	Pole/Log	9	110				

57 6239 - Mixed Emergent Wetland Nonstocked 26.2 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 28.4 111 111-140 N/A Neat stand, has a lot of diversity

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	25	Pole	6	111
Quaking Aspen	20	Pole/Log	9	
Northern White Cedar	5	Pole/Log	9	
Balsam Fir	25	Pole	8	111
Black Ash	5	Pole	5	
Balsam Poplar	10	Pole	8	
Tamarack	10	Pole	8	

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

59 4135 - Aspen, Cedar Sapling Well 6.1 15 Unspecified N/A Cedar left after harvest, regen is good.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	2	
Quaking Aspen	60	Sapling	1	15
White Spruce	10	Sapling	2	
Northern White Cedar	20	Pole	6	