



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45139

Entry Year 2024

Acreage: 1,697

County Mackinac

Management Area: St. Ignace Lake Plain

Stand Examiner: Nate Plato

Legal Description:

T43N-R7W, Sections 22, 23 and 27

Identified Planning Goals:

Management activities this entry focuses on northern hardwoods management of two stands that need to be brought into regulation. Also, there will be a final harvest of a mature red pine plantation along with an mixed upland conifer stand, that will be converted to a red pine plantation. There will also be final harvests on multiple aspen stands along with a couple lowland stands.

Soil and topography:

The topography of the compartment is relatively level ground, aside from some hardwood ridges. There are areas of low-lying wet ground mixed with areas of slightly higher dry ground. The soils present are as follows: Wallace sand, Paquin sand, Springlake, Markey and Carbondale mucks, Paquin-Finch, Croswell-Wainola, Markey-Spot-Finch, Finch sand, Histosols and Aquents ponded, Pits, sand and gravel.

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

Most of the land within the compartment boundaries is State of Michigan land. There is one block of private land under ownership of Sand Products Co. in Section 23 and extends into the compartment to the south and east. The remaining adjacent land to the south and east of the compartment is State of Michigan land. To the west and north all of the land is State of Michigan land except for a 40 acre parcel on the north border of Section 22. Land use in the area on private lands is primarily seasonal camps or private residences. The town of Epoufette is located a few miles south of the compartment.

Unique Natural Features:

Potential for various T&E plant species occurrences. Potential for Red Shouldered Hawk in mature hardwoods. Rare snails in ecotone between cedar and mesic northern forest. Marsh Lake lies within the compartment.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

White pine, hemlock, and other conifer species will be retained within hardwoods stands that are prescribed for management if conducive to prescription.

Watershed and Fisheries Considerations:

This compartment contains Marsh Lake, Paquin Creek, and several unnamed streams and waterbodies. Paquin Creek is a designated Type 1 trout stream less than 50' width and has predicted mean July temperatures that range from 62.8 to 63.5 °F (cold stream). 300' buffers are recommended for Paquin Creek and unnamed streams in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

100' plus 5' per 1% increase in slope; buffers are recommended for Marsh Lake and the unnamed waterbodies to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 139 is located within the Mackinac Mix Management Area where featured wildlife species include black bear, pileated woodpecker, ruffed grouse, and white-tailed deer. Dominant forest types include cedar and other lowland conifers, aspen types, and northern hardwoods. Marsh Lake, McNamara Pond, and other small wetlands provide some wetland habitat. Wildlife objectives here include maintaining age class and structural diversity between aspen stands, promoting diversity in northern hardwoods and maintaining the closed-canopy cover in lowland conifer stands. Species benefitting from this management include white-tailed deer, ruffed grouse, snowshoe hare, bobcat, fisher, marten, and numerous migratory bird species.

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. The nearest active sand/gravel pit is more than three miles to the northwest. There appears to be some potential for sand within the compartment on the uplands. High-purity bedrock dolomite is at or near the surface in this area, but development of a new, large-scale commercial quarry here is unlikely. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Access to the compartment is primarily via Hiawatha Trail (paved county road) through the middle of the compartment, and also the Bennett Road which runs east and west through the east portion of the compartment. Sand Lake Road cuts across the northwestern most corner of the compartment. Other access points are via trail roads entering various portions of the compartment from Hiawatha trail and Bennett Road. Any new roads built for harvesting operations will be closed to vehicle traffic after the sale is completed.

Survey Needs:

No new survey projects are required for this compartment with adequate corners present.

Recreational Facilities and Opportunities:

The primary form of recreation is hunting, mostly deer and small game. Some trapping takes place within the compartment. Possible berry picking in some of the open areas of the compartment. ORV use of the compartment is fairly prevalent on the trail roads.

Fire Protection:

Fire protection is not a major concern in the compartment due to the amount of low ground related timber types and the high component of hardwoods. On the very south end of the compartment, there is one area of red pine, but will only pose a concern in the distant future as it was clear cut and hasn't been planted yet. There is substantial access for fire protection if needed. Prescribed burning could be used as a management tool for opening maintenance.

Additional Compartment Information:

The following reports from the Inventory are attached:

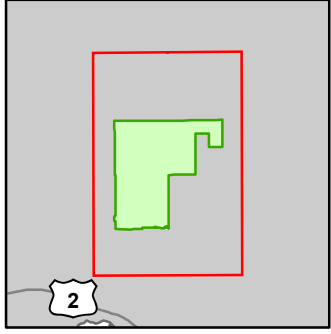
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

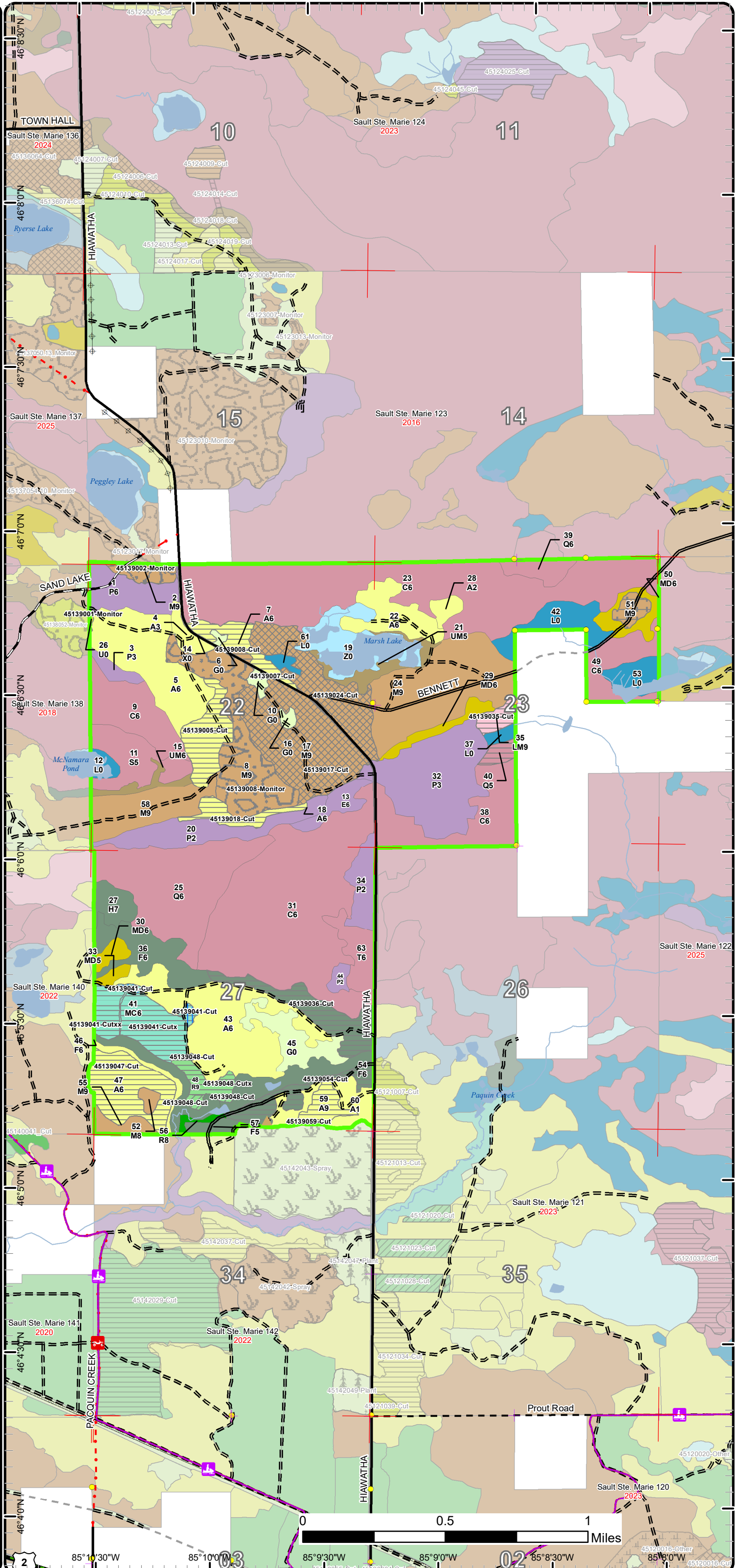
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 139
 T43N,R07W, Sec. 22, 23, 27
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: St. Ignace Lake Plain
 YOE: 2024
 Acres: 1697 GIS Calculated
 Examiner: Nate Plato
 Map Revised: 2/6/2023
 Map Phase: Post-Review

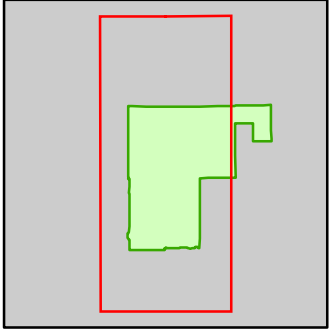


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Swamp
- Lakes and Rivers
- Berms
- Pipeline
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 629 - Mixed Non-forested Wetland

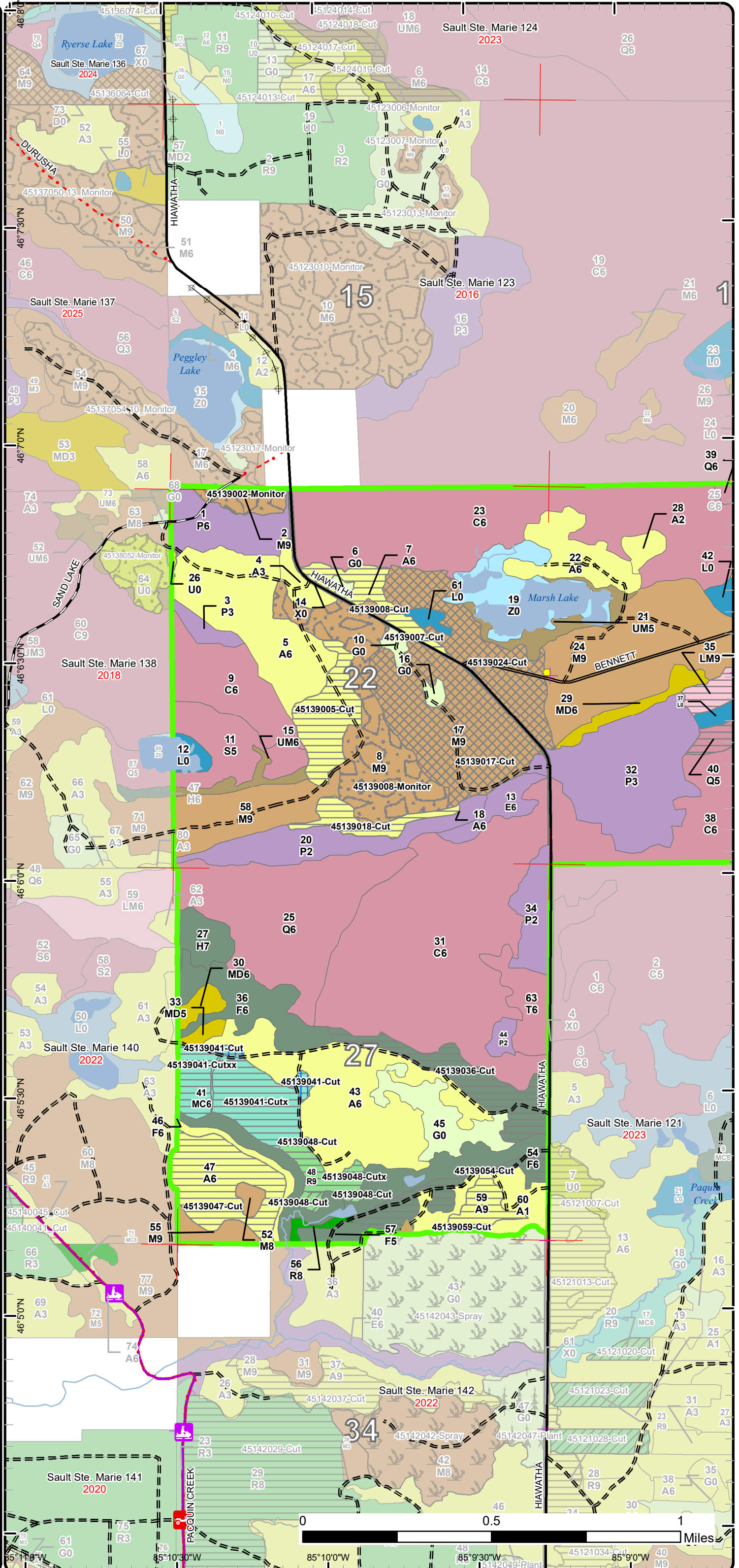


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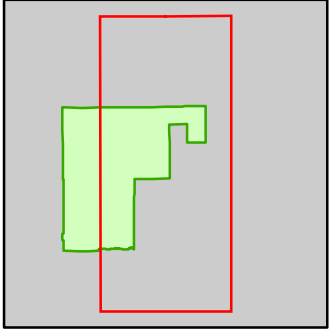


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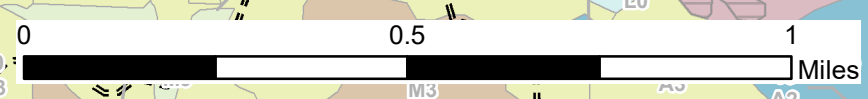
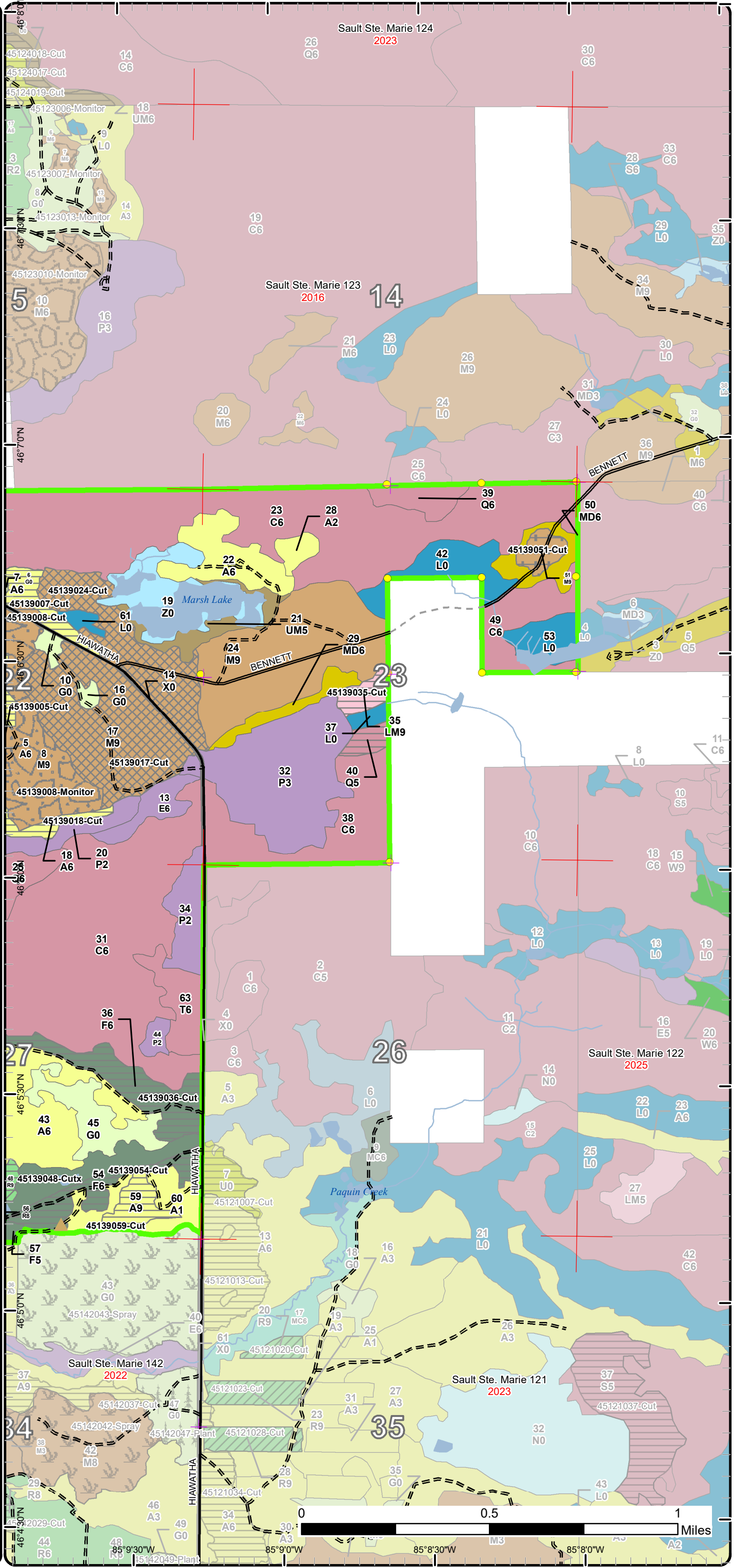


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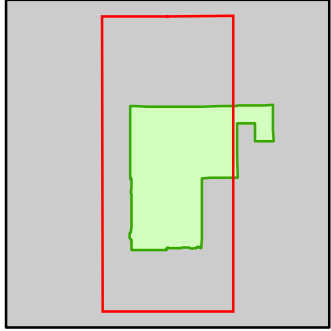
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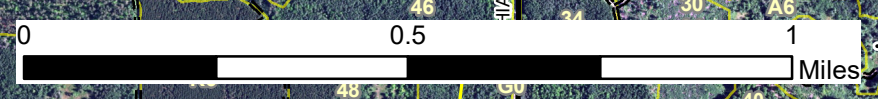
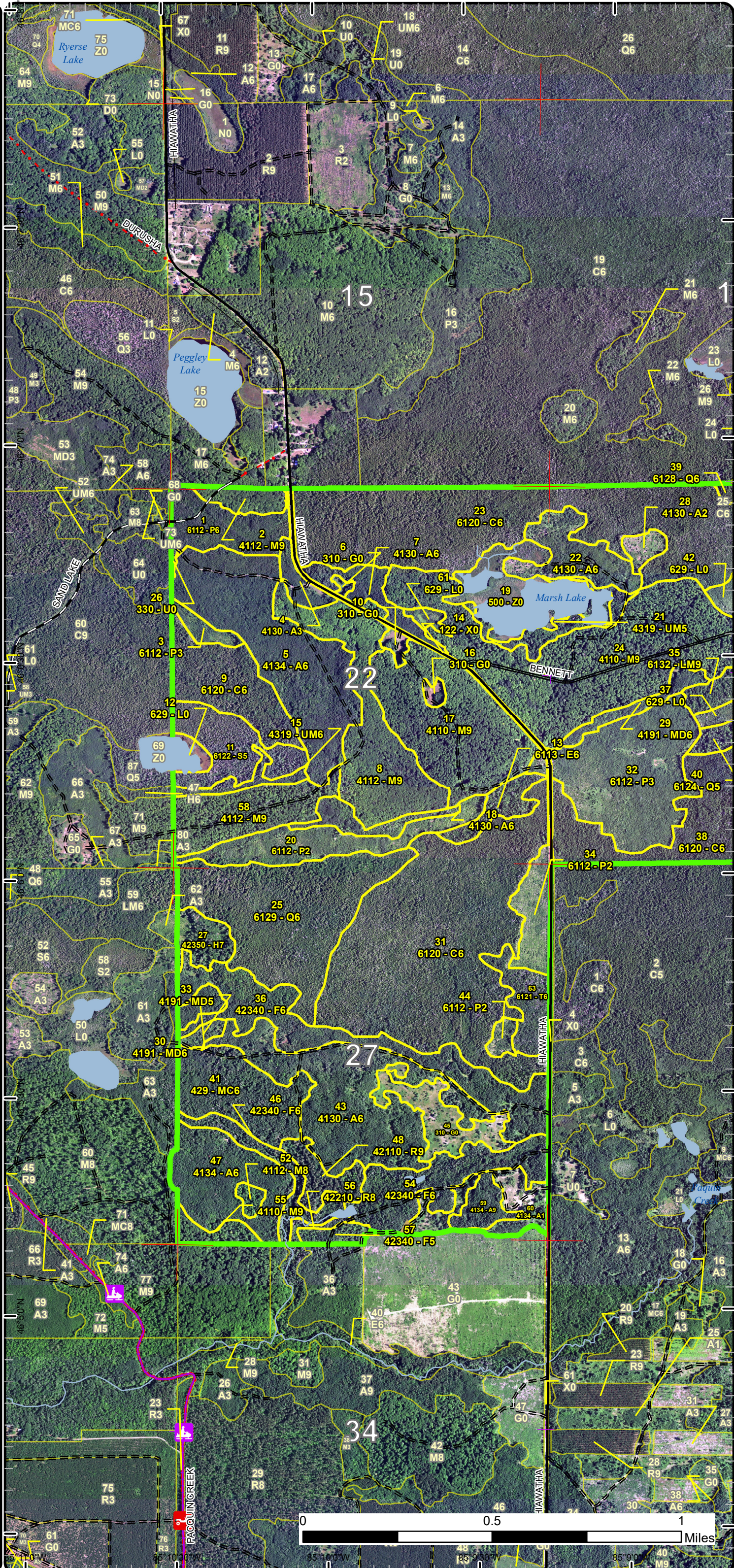
0 0.5 1 Miles
 85°9'0"W 85°8'30"W 85°8'0"W

Stand Boundary Map

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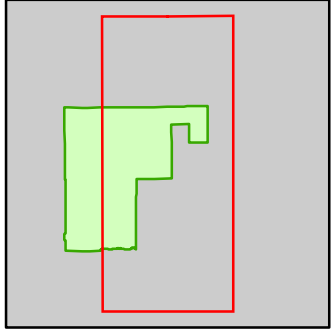


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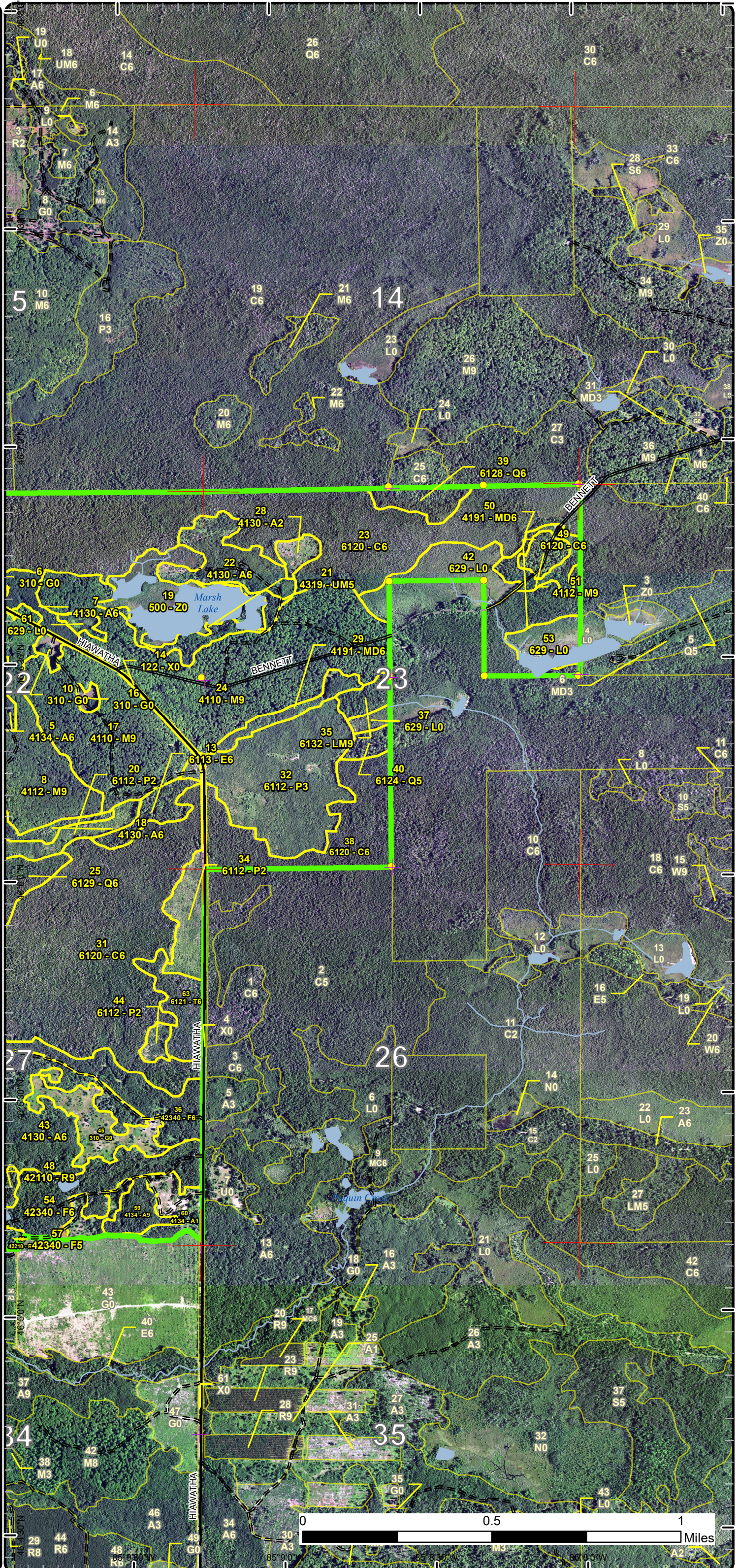


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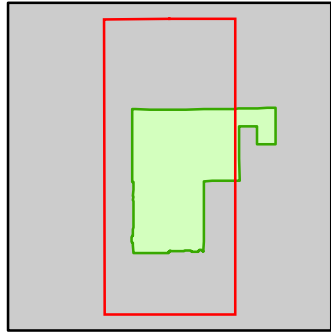


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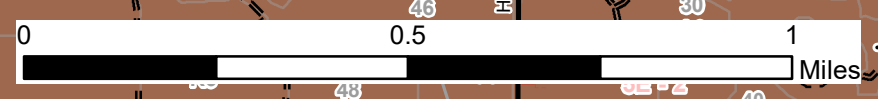
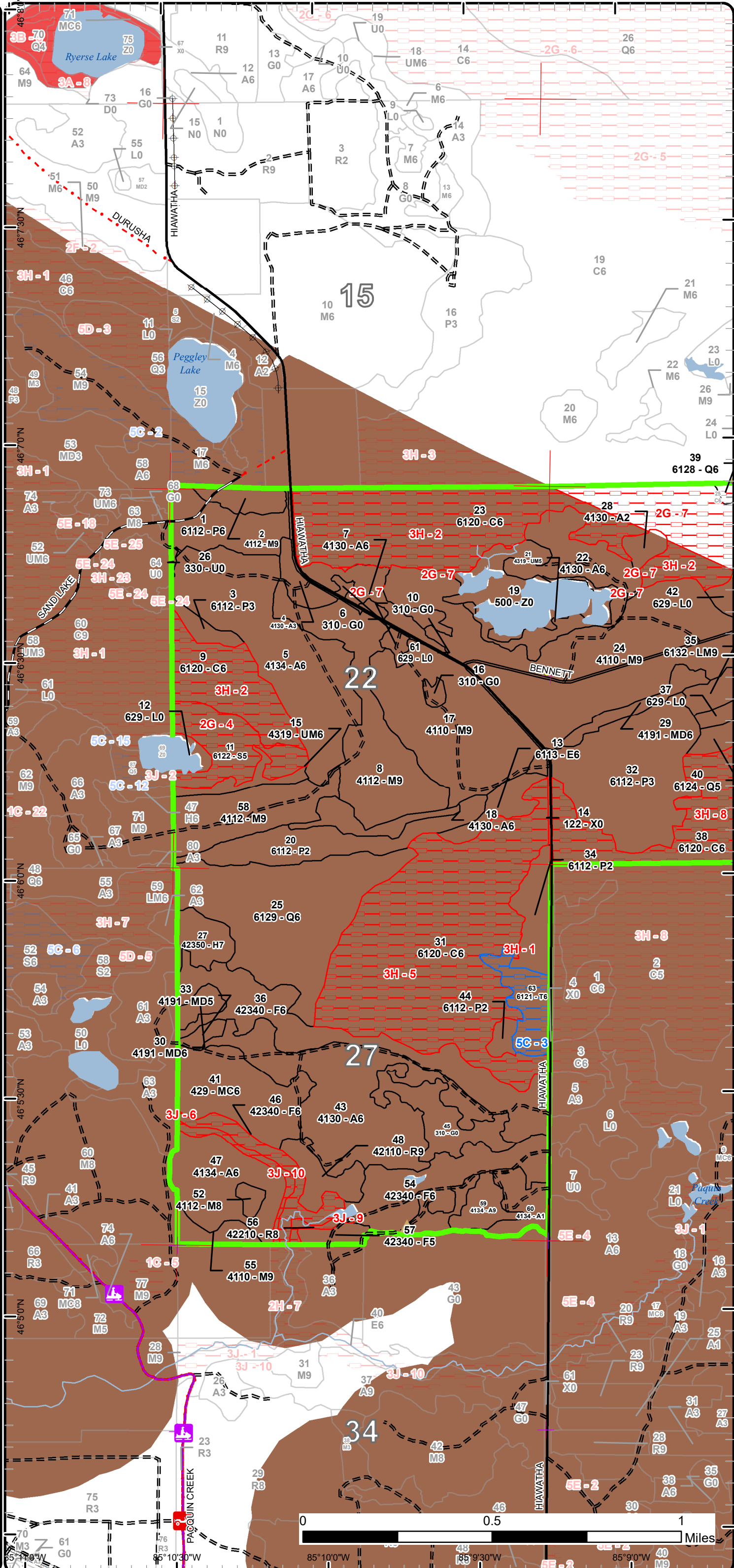


Special Conservation Areas

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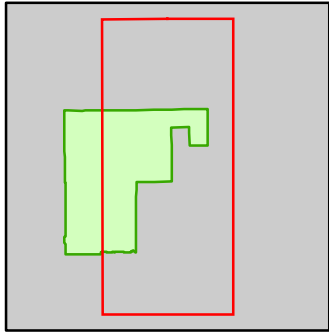
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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range



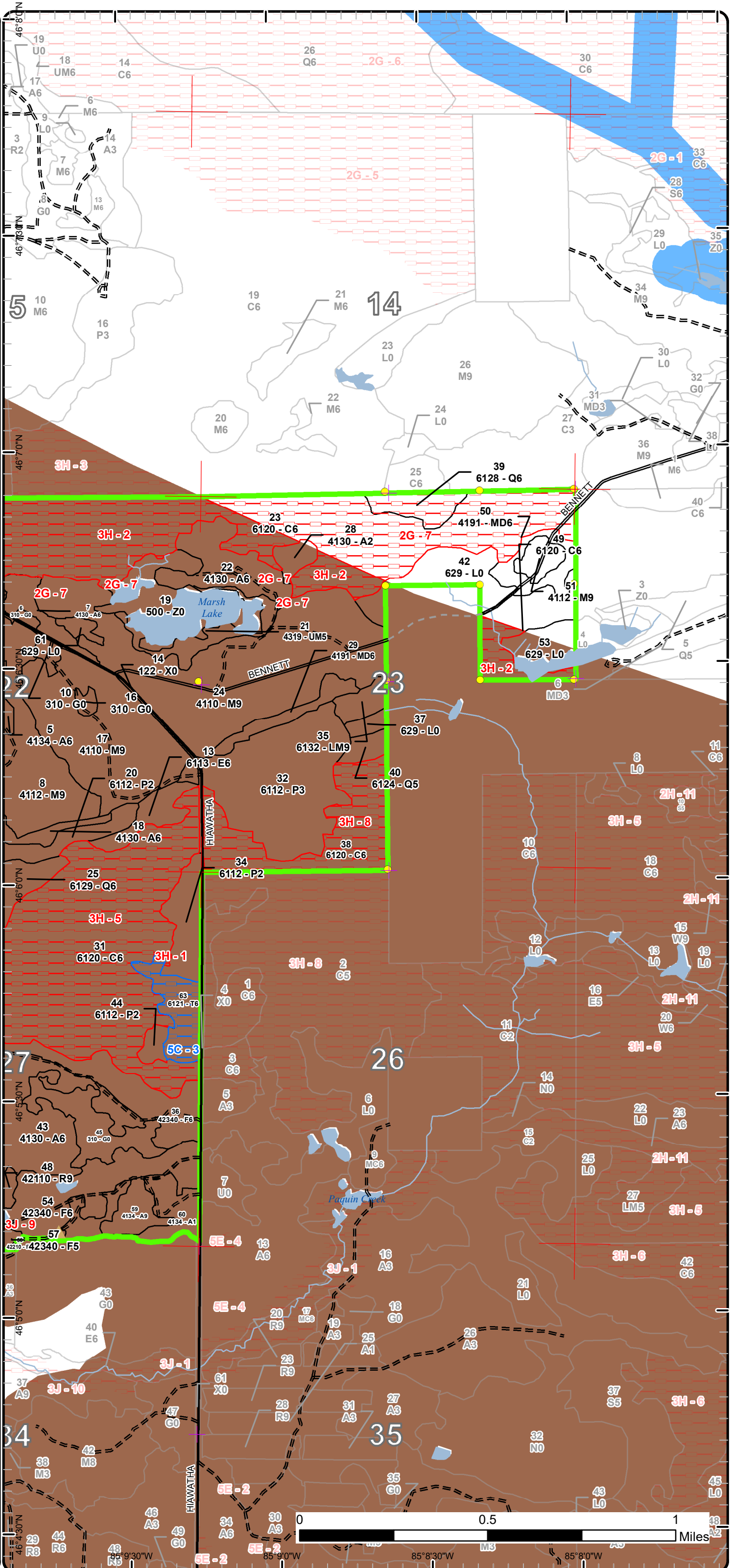
70 M3 61 G0 76 R3 85°10'0"W 85°9'30"W 85°9'0"W 85°8'30"W
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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	31	25	0	220	10	0	0	0	0	0	0	0	0	0	0	0	286
Cedar	0	0	0	0	0	0	0	0	0	0	0	24	0	46	383	0	0	0	452
Hemlock	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Herbaceous Openland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
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	125	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	150
Lowland Conifers	0	0	0	0	0	0	0	0	90	11	0	0	0	0	0	0	0	0	101
Lowland Deciduous	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Lowland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	0	23	5	0	0	0	0	0	0	0	0	0	0	0	0	28
Northern Hardwood	0	0	0	0	0	0	0	0	186	50	0	0	0	0	0	0	0	67	302
Red Pine	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Tamarack	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Upland Conifers	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	39
Upland Mixed Forest	0	0	0	0	7	0	12	0	0	0	0	0	0	0	0	0	0	0	18
Upland Spruce/Fir	0	0	0	5	0	110	0	0	0	0	0	0	0	0	0	0	0	0	115
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Total	118	0	156	30	55	374	22	16	287	80	42	24	0	46	383	0	0	67	1697



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 139
Total Compartment Acres: 1,697

Commercial Harvest - 314
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
Aspen	92	0	0	0	0	0	0	0	0	92
Lowland Conifers	5	0	0	0	0	0	0	0	0	5
Lowland Mixed Forest	7	0	0	0	0	0	0	0	0	7
Northern Hardwood	1	109	0	0	0	7	0	0	0	116
Red Pine	9	0	0	0	3	0	0	0	0	12
Upland Conifers	35	0	4	0	0	0	0	0	0	38
Upland Spruce/Fir	44	0	0	0	0	0	0	0	0	44
Total	193	109	0	4	0	3	7	0	0	314

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	314	0	0	0	0	66	0	0	0	380
Next Step	0	58	34	0	34	107	354	24	0	610
Total	314	58	34	0	34	107	420	24	0	990



Stand Name	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:

26	45139001-Monitor	0.6	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription
Specs:

Next Step
Treatments:

Acceptable Regen: Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce, cedar, hemlock, and white pine.

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 7 /5 /2022

2	45139002-Monitor	8.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	73	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Specs: Follow-up treatment with a regeneration survey as per the work instructions.

Next Step
Treatments:

Acceptable Regen: Sugar maple, red maple, yellow birch, basswood, paper birch, aspen and hemlock.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2031

5	45139005-Cut	23.3	4134 - Aspen, Spruce/Fir	Poletimber Well	44	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Harvest all deciduous trees over 2" DBH and all conifers over 4" DBH. Exclude immature patches of aspen. Retention should be placed on edges, especially near adjacent cedar stand. Leave any and all cedar. Treatment size may vary.

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

Acceptable Regen: Aspen, spruce, fir, white pine.

Other Comment: Any large boulders found within treatment area need to have retention around them and checked for any T & E species.

Site Condition

Proposed Start Date: 10/1 /2023



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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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7	45139007-Cut	13.5	4130 - Aspen	Poletimber Well	44	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all deciduous trees over 2" DBH and all conifers over 4" DBH. Exclude any areas of immature aspen. Retention will be along edges of stand, especially where lowland conifer is present. Treatment size may vary.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

8	45139008-Cut	1.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	71	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Harvest all deciduous trees over 2" DBH and conifers over 4" DBH. No retention due to small size. Goal of treatment is convert to aspen and manage with adjacent stand because of small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

8	45139008-Monitor	56.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	71	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Follow-up treatment with a regeneration survey as per the work instructions.

Specs:

Next Step

Treatments:

Acceptable Sugar maple, red maple, yellow birch, basswood, paper birch, aspen and hemlock.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2031



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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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17 45139017-Cut	67.3	4110 - Sugar Maple Association	Sawtimber Well	84	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin to 70-90 BA. Focus on over mature trees. Designate all aspen to be cut. Also designate all merchantable fir to be cut. Hardwood thinning's in other parts of the compartment have a high fir component, and have stifled hardwood regeneration. Retain all hemlock and healthy beech. Any large boulders found within treatment are need to have retention around them and checked for any T & E species.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar maple, red maple, yellow birch, basswood and hemlock.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

18 45139018-Cut	10.2	4130 - Aspen	Poletimber Well	49	141-170	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Harvest all deciduous trees over 2" DBH and all conifers over 4" DBH. No retention due to small size. Treatment size may vary.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir.

Regen:

Other

Comment:

Any large boulders found within treatment area need to have retention around them and checked for any T & E species.

Site Condition

Proposed Start Date: 10/1 /2023

24 45139024-Cut	41.2	4110 - Sugar Maple Association	Sawtimber Well	79	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin to 70-90 BA. Focus on over mature trees. Designate all aspen to be cut. Also designate all merchantable fir to be cut. Hardwood thinning's in other parts of the compartment have a high fir component, and have stifled hardwood regeneration. Retain all hemlock, cedar and healthy beech. Treatment size may vary.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar maple, red maple, yellow birch, cherry basswood, white spruce, aspen.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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
35 45139035-Cut	6.8	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	87	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription</u> Harvest all deciduous trees over 2"DBH and all conifers over 4" DBH. Leave a couple large, healthy yellow birch throughout the stand.</p> <p><u>Specs:</u> Retain all closed canopy cedar. Leave all hemlock. Use 100' RMZ if nay stream is found within stand and follow BMP guidelines. Treatment size may vary.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple spp, birch, aspen. bam, spruce, fir, tamarack, 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 /2023</p>										
36 45139036-Cut	27.4	42340 - Upland Spruce/Fir	Poletimber Well	46	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all deciduous trees over 2" DBH and all conifers over 4" DBH. Exclude any immature patches of aspen. Place retention along edges, especially overly wet areas. Leave any and all cedar.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, spruce, fir, white 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 /2023</p>										
40 45139040-Cut	4.9	6124 - Lowland Spruce-Fir	Poletimber Medium	74	51-80	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all deciduous trees over 2"DBH and all conifers over 4" DBH. Leave a 1-2 healthy white pine per acre. Exclude overly wet areas.</p> <p><u>Specs:</u> Retain any patches of closed canopy cedar.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce, jack pine, white pine, balsam fir, cedar, tamarack.</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 /2023</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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41 45139041-Cut	3.5	429 - Mixed Upland Conifers	Poletimber Well	46	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Harvest all deciduous trees over 2"DBH and all conifers over 4" DBH. Leave residual white and red pine to maintain an average residual BA of 20-30. Focus on leaving over sized trees. Retain any overly wet areas. Treatment size may vary.

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

Acceptable Red pine, white pine, maple spp, birch, aspen, spruce, fir.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

41 45139041-Cutx	24.3	429 - Mixed Upland Conifers	Poletimber Well	46	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Harvest all trees over 2" DBH. Buffer stream appropriately. Goal of harvest is to convert to planted red pine and merge with adjacent red pine stand to the south to increase red pine acreage in the compartment.

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

Acceptable Red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

41 45139041-Cutxx	10.4	429 - Mixed Upland Conifers	Poletimber Well	46	81-110	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Harvest all trees over 2" DBH. Buffer stream appropriately. No retention due to small acreage. Treatment size may vary.

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

Acceptable Red pine, white pine, spruce, balsam, aspen, maple, cherry, birch.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

47 45139047-Cut	35.2	4134 - Aspen, Spruce/Fir	Poletimber Well	46	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all deciduous trees over 2" DBH and conifers over 4" DBH. Retain patches of immature trees. Retention will be on edges of stand adjacent to Smith Creek with a 150' buffer per the fisheries biologists instructions. Treatment size may vary.

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

Acceptable Aspen, spruce, fir.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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48 45139048-Cut 3.0 42110 - Planted Red Pine Sawtimber Well 93 81-110 Harvest Crown Thinning 4221 - Natural Red Pine Two-Aged No

Prescription Thin red pine to an average residual BA of 50-70 to allow new growth to regenerate. These areas of the stand will not be planted back to red pine. Focus on harvesting trees that are at or approaching oversized diameters. Cut all other merchantable species present.

Specs:

Next Step
Treatments:

Acceptable Red pine, white pine, maple spp, aspen, birch, balsam, spruce.

Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

48 45139048-Cutx 9.3 42110 - Planted Red Pine Sawtimber Well 93 81-110 Harvest Clearcut with Retention 42110 - Planted Red Pine Even-Aged No

Prescription Clear cut for final harvest on red pine plantation. Areas excluded from sale will be thinned and left for retention. Buffer stream appropriately.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide,
Treatments: Aerial - Release; Monitoring, Herbicide Use

Acceptable Red Pine

Regen:

Other Old next step comments: After harvest treatment is completed, the stand may be prescribed burned if necessary for site prep depending on
Comment: amount of slash left on site. Trenching and hand planting of red pine seedling to acceptable regeneration levels will need to be completed within 2 years of the Timber Cutting Report date. After establishment of red pine regeneration, regeneration surveys need to be scheduled for 1 year and 3 years for monitoring of regeneration. Release as necessary determined by TMS.

Site Condition

Proposed Start Date: 10/1 /2023

51 45139051-Cut 6.6 4112 - Maple, Beech, Cherry Association Sawtimber Well 84 51-80 Harvest Overstory Removal 411 - Northern Hardwood Uneven-Aged No

Prescription Harvest all deciduous and conifer trees over 4" DBH. Retain all hemlock. Treatment size may vary.

Specs:

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

Acceptable Sugar maple, red maple, yellow birch, paper birch and hemlock.

Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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54	45139054-Cut	16.7	42340 - Upland Spruce/Fir	Poletimber Well	49	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all deciduous trees over 2" DBH and all conifers over 4" DBH. Avoid overly wet areas. Retain any pockets of immature timber.
Specs: Retention will be a buffer along Smith Creek. Treatment size may vary.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

59	45139059-Cut	9.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	59	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all deciduous trees over 2" DBH and all conifers over 4" DBH. No retention due to small size. Treatment size may vary.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

Total Treatment Acreage Proposed: 380.1

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Nate Plato : Examiner

Compartment: 139

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions				
Acres	Available	With Condition	Not Available	5C	2G	3H	3J	
285	280	0	5	Aspen		0	0	5
452	89	0	363	Cedar			363	
12	12	0	0	Hemlock				
27	27	0	0	Herbaceous Openland				
1	1	0	0	Low-Density Trees				
150	150	0	0	Lowland Aspen/Balsam Poplar			0	
101	90	0	11	Lowland Conifers		11		
11	11	0	0	Lowland Deciduous				
7	7	0	0	Lowland Mixed Forest				
45	45	0	0	Lowland Shrub				
28	0	0	28	Lowland Spruce/Fir		28	0	
28	28	0	0	Mixed Upland Deciduous		0		
303	303	0	0	Northern Hardwood				
15	12	0	2	Red Pine				2
16	0	16	0	Tamarack	16			
39	39	0	0	Upland Conifers				
19	19	0	0	Upland Mixed Forest				
115	99	0	16	Upland Spruce/Fir				16
8	8	0	0	Urban			0	
37	37	0	0	Water				
1,697	1,256	16	425	Total Forested Acres	16	39	363	23
	74%	1%	25%	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	Dominant Site 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	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
Small size, older cedar.								

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Compartment: 139

Nate Plato : Examiner

Year of Entry: 2024

2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	150	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old cedar that is small diameter and short in height. Not very productive, wet to very wet conditions limit operability in many locations.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet with poor quality, stunted timber.							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	167	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Older, wet ground cedar.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Smith Creek riparian area							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	88	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old cedar that is small diameter and short in height. Not very productive, wet to very wet conditions limit operability in many locations.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Compartment: 139

Nate Plato : Examiner

Year of Entry: 2024

8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old cedar that is small diameter and short in height. Not very productive, wet to very wet conditions limit operability in many locations.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer left along Smith Creek.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Smith Creek buffer							

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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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	6112 - Lowland Aspen	Poletimber Well	24.6	37	81-110	N/A	Stand was cut in 1986. Still small diameter aspen on mostly low ground. Areas of birch and cherry also. Area of pure aspen in western part of stand. This area was not cut with rest of stand and is more mature. Some areas dominated by fir. Approaching medium pole timber size. Rest of stand is slightly more immature. Some spots are very wet. Check in 10 years.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole	5		Balsam Fir		Medium	Variable	Sapling
Balsam Fir		15	Pole	6		Red Maple		Low	5 - 10 feet	Sapling
Quaking Aspen		55	Pole	6	37					
White Spruce		15	Pole	6						
Black Cherry		10	Pole	5						
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.9	73	51-80	N/A	Thinned in winter of 2018/ 2019. Mixed hardwood stand. Decent quality. Mostly large poletimber and small sawlog. Fir understory throughout stand. Densest in southern part of stand. A lot of beech brush has established. Some maple regenerating, but is having trouble competing with the beech and all the fir left from harvest. Regeneration is not at adequate levels yet, so stand should be checked again next entry.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		55	Log/Pole	10	73	Beech		Medium	Variable	Sapling
Beech		5	Log	12		Maple (spp.)		Medium	Variable	Sapling
Balsam Fir		10	Pole/Sapling	5		Balsam Fir		Medium	Variable	Sapling
Hemlock		5	Log	12						
Red Maple		25	Log/Pole	10						
3	6112 - Lowland Aspen	Sapling Well	5.5	17	Immature	N/A	Stand was cut in 2006 as part of the Intimidator Hardwood sale. Aspen regen with mix of spruce and balsam with some tamarack. Red maple and paper birch also mixed in. Good stocking, but some areas have grown better than others. Tag alder mixed in where wettest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		5	Sapling	2		Balsam Fir		Low	< 5 feet	Sapling
Red Maple		10	Sapling	3						
Paper Birch		5	Sapling	2						
Balsam Poplar		5	Sapling	3						
Balsam Fir		15	Sapling	3						
Quaking Aspen		60	Sapling	3	17					
4	4130 - Aspen	Sapling Well	7.1	17	Immature	N/A	Stand was cut in 2006 as part of the Intimidator Hardwood sale. Good looking aspen regen. Excellent stocking.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		85	Sapling	4	17					
Bigtooth Aspen		10	Sapling	4						
Balsam Fir		5	Sapling	4						
5	4134 - Aspen, Spruce/Fir	Poletimber Well	79.6	44	141-170	N/A	Extremely variable, patchy stand. Some is nice aspen with heavy mix of birch, cherry, red maple, and balsam. Thick BA, but overall diameter needs some growth. Patches of mature aspen/spruce/fir present throughout. Patch in north part of stand containing fir, spruce and cherry. Patchy, but nice size. Nice patch of mature aspen in southern part of stand. This should be cut this entry, the rest will be ready next entry.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		10	Pole	6		Balsam Fir		Medium	Variable	Sapling
Sugar Maple		10	Pole	6		Maple (spp.)		Low	< 5 feet	Sapling
Paper Birch		10	Pole	7						
Quaking Aspen		50	Pole/Sapling	7	44					
Balsam Fir		20	Pole	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
6	310 - Herbaceous Openland	Nonstocked	1.1		Immature	No	Starting to fill in with aspen/spruce/fir.																																														
				<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>White Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Quaking Aspen	Low	Variable	Sapling																																
Sub-Canopy Species	Density	Avg. Height	Size																																																		
White Spruce	Low	Variable	Sapling																																																		
Balsam Fir	Low	Variable	Sapling																																																		
Quaking Aspen	Low	Variable	Sapling																																																		
7	4130 - Aspen	Poletimber Well	13.5	44	111-140	N/A	Nice stand of aspen. Multiple age classes present. Best aspen is in west part of the stand. North part of stand adjacent to cedar and hardwood stands contains more cherry, maple, and fir. Harvest this entry.																																														
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8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	57.6	71	51-80	N/A	Thinned winter of 2018/2019. Stand is a fairly even mix of logs and poles, but more of stand is advancing into small log size. Lots of small seedlings established in more open areas. Best regen is from stump sprouts. Not much for advanced regen except where aspen was cut. Very dense aspen saplings in these spots. Pockets of fir left from previous thinning are hindering regeneration. Monitor regen next entry, as it is too soon since last thinning to get an accurate representation of regeneration. Area of stand across the road to the north was not thinned last entry and has much higher BA. Harvest this entry.																																														
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9	6120 - Lowland Cedar	Poletimber Well	35.4	133	51-80	N/A	Variable stand. Mixed diameter cedar mixed with balsam, spruce and birch. Low ground with sparse clumpy cedar. Tag alder where open and wet. Frequent blow down.																																														
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10	310 - Herbaceous Openland	Nonstocked	2.8			No	Opening starting to fill in with aspen and hardwood spp.																																														
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11	6122 - Black Spruce	Poletimber Medium	27.9	99	1-50	N/A	Very wet conditions throughout most places. Small diameter, poor quality black spruce mixed with some tamarack and straggler birch. Scattered pole/log size white pine throughout stand. Non-productive.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		20	Pole/Sapling	6		Tag Alder		Medium	10 - 20 feet	Tall Shrub
Paper Birch		5	Pole/Sapling	5		Black Spruce		Medium	5 - 10 feet	Sapling
White Pine		10	Log/Pole	11		Balsam Fir		Medium	Variable	Sapling
Black Spruce		65	Pole/Sapling	6	99					
12	629 - Mixed non-forested wetland	Nonstocked	5.3		Immature	No				
13	6113 - Lowland Maple	Poletimber Well	10.7	77	51-80	N/A	Variable stand. Mix of mature maple, birch, cedar and some white pine over sapling size aspen/spruce/fir. Mostly low ground, but not overall wet. Some high spots throughout stand. Possibly old shelterwood cut. Check next entry when understory should be merchantable.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		10	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling
White Pine		10	Log	12		White Spruce		Low	Variable	Sapling
Northern White Cedar		10	Pole/Log	9		Red Maple		Medium	Variable	Sapling
Red Maple		60	Pole/Log	9	77	Aspen (spp.)		Medium	>20 feet	Sapling
Yellow Birch		10	Pole/Log	9						
14	122 - Road/Parking Lot	Nonstocked	7.7		Immature	No				
15	4319 - Mixed Upland Forest	Poletimber Well	6.5	39	81-110	N/A	Cut in 1984. Small diameter mix of maple, aspen, some balsam, birch and cherry. Heavy to fir. Transition stand between hardwoods and low ground. Clear cut whenever ready in a couple decades.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		5	Sapling/Pole	4		Maple (spp.)		Low	Variable	Sapling
Red Maple		20	Pole	7		Conifers		Low	Variable	Sapling
Paper Birch		10	Pole/Sapling	5						
Black Cherry		10	Sapling/Pole	4						
White Pine		5	Sapling/Pole	4						
Balsam Fir		40	Pole	6	39					
Sugar Maple		10	Pole/Sapling	5						
16	310 - Herbaceous Openland	Nonstocked	2.2		Immature	No	Grass opening. Edges have filled with aspen and cherry. Mostly large sapling/small pole size.			
Sub-Canopy Species		Density	Avg. Height	Size						
Black Cherry		Low	>20 feet	Sapling						
Bigtooth Aspen		Low	>20 feet	Sapling						
17	4110 - Sugar Maple Association	Sawtimber Well	67.4	84	81-110	N/A	Thinned in 2006 as part of Intimidator Hardwood. Good looking, high quality hard maple. Rolling terrain throughout stand. Some spots are thinner than others and contain excellent advanced regen. Overall, good stocking of good quality logs. Approaching a two age stand. Some pockets of cherry and aspen saplings present.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		5	Log/Pole	12		Black Cherry		Low	Variable	Sapling
Yellow Birch		5	Log/Pole	12		Maple (spp.)		Medium	Variable	Sapling
Red Maple		15	Log/Pole	11						
Sugar Maple		75	Log/Pole	12	84					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
18	4130 - Aspen	Poletimber Well	10.3	49	141-170	N/A	Stand was cut in 1974. Small stand of aspen mixed with some balsam and spruce. Varying sizes with southern half more mature. Stand should be cut this entry, as mortality is becoming more frequent throughout the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		10	Pole	6		Red Maple		Low
Red Maple		15	Pole	8		Balsam Fir		Low
Paper Birch		5	Pole	7				
Quaking Aspen		70	Pole	7	49			
19	500 - Water	Nonstocked	36.6		Immature	No		
20	6112 - Lowland Aspen	Sapling Medium	30.9	17	Immature	N/A	Stand was cut in 2006. Good looking aspen regen coming in. Birch, cherry, fir and some red maple also present. Tag alder present in multiple pockets.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		5	Sapling	3		Tag Alder		Medium
Balsam Poplar		8	Sapling	3				
Balsam Fir		10	Sapling	4				
Black Cherry		2	Sapling	3				
Quaking Aspen		67	Sapling	3	17			
Red Maple		3	Sapling	3				
Tamarack		5	Sapling	3				
21	4319 - Mixed Upland Forest	Poletimber Medium	12.3	51	81-110	N/A	Mixed stand of fringe happy species. Hard maple, balsam, aspen, tag alder, spruce....edge of Marsh Lake. Varying size classes.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		15	Pole	7		Tag Alder		Medium
Balsam Fir		35	Pole	7	51	Conifers		Medium
Paper Birch		10	Pole	6				
Balsam Poplar		5	Pole	6				
Northern White Cedar		10	Pole/Log	8				
Red Maple		10	Pole	6				
Sugar Maple		15	Pole	7				
22	4130 - Aspen	Poletimber Well	24.6	27	81-110	N/A	Stand was cut in 1996. Good looking aspen regen. Very good stocking. A lot of cherry in spots. Patch in middle of stand has extensive wind and/or snow damage. Many snapped off trees. Some wet areas present. Might be ready in 10 years. There is a 2 acre patch in the west part of the stand that was cut in 2006. Does not meet mapping standards to make its own stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		5	Pole/Sapling	5		Balsam Fir		Low
Balsam Fir		5	Pole/Sapling	5				
Black Cherry		20	Sapling/Pole	4				
Quaking Aspen		70	Pole	6	27			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
23	6120 - Lowland Cedar	Poletimber Well	180.4	136	81-110	N/A	Very wet stand of small diameter, poor quality cedar. Old cedar varies in density and size. Some areas of aspen/bam present. East part of stand is wettest.																																																
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24	4110 - Sugar Maple Association	Sawtimber Well	119.2	79	81-110	N/A	Portion of stand east of section line was thinned in 2006 as part of Intimidator Hardwood. West of section line was thinned in 1996 as part of the Bennet Road Junction Aspen sale. A lot of beech has died out, and some areas were thinned heavier resulting in lower basal areas. Good quality northern hardwoods. Excellent advanced regen throughout. Heavy deer browse in areas. Scattered clumps of fir and aspen throughout stand.																																																
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25	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	85.4	72	111-140	N/A	Variable stand of small diameter mix of cedar, tamarack, spruce, balsam and scattered birch in some isolated areas. Areas of higher diameters present. Not very productive in places. Very wet ground, nothing to do here now. Frequent tag alder. A patch in the northeast corner and another in the southern part of the stand contain more deciduous species than rest of the stand. Areas to look at next entry.																																																
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26	330 - Low-Density Trees	Nonstocked	0.6	0	Unspecified	No	Stand was cut in 1986. Still small diameter aspen on mostly low ground. Areas of birch and cherry also. Area of pure aspen in western part of stand. This area was not cut with rest of stand and is more mature. Some areas dominated by fir. Approaching medium pole timber size. Rest of stand is slightly more immature. Some spots are very wet. Check in 10 years. 2022- Clearcut in fall 2021 as part of Forgotten Aspen 45-105-19 along with stand 64 comp 138. Was part of stand 1 prior to harvest.																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
27	42350 - Upland Hemlock	Sawtimber Poor	11.6	88	1-50	N/A	Stand was cut in 2010. Hardwood stand with patches of aspen that were clearcut. Only residual present is clumps of white pine, hemlock, and yellow birch. Dense mixed regen in between clumps. West side is almost all aspen regen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		10	Log/XLog	15		Black Cherry		Medium	Variable	Sapling
Yellow Birch		25	Log	12		Maple (spp.)		High	Variable	Sapling
Hemlock		65	Log/XLog	15	88	Birch (spp.)		Medium	Variable	Sapling
						Conifers		Medium	Variable	Sapling
						Quaking Aspen	Medium	>20 feet	Sapling	
28	4130 - Aspen	Sapling Medium	5.1	14	Immature	N/A	Stand was cut in 2006. Good looking aspen regen with mix of spruce and balsam. Wetter areas present containing more bam and ash. Some alder. Regen starts to get patchy towards north part of stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		70	Sapling	3	14					
Bigtooth Aspen		5	Sapling	3						
Balsam Poplar		5	Sapling	3						
Balsam Fir		10	Sapling	3						
Black Cherry		10	Sapling	3						
29	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.3	34	81-110	N/A	Stand was cut in 1989. Slightly lower ground than adjacent hardwood stand to the north. Mix of spruce and balsam, lowland aspen, and mixed hardwoods. Some tag alder on fringe. Mostly decent poletimber. Some sparse areas present. Check in 10 years.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		25	Pole	6	34	Tag Alder		Low	Variable	Tall Shrub
Balsam Poplar		20	Pole	5		Conifers		Medium	Variable	Sapling
Sugar Maple		5	Sapling/Pole	3						
Balsam Fir		20	Pole	6						
Black Cherry		10	Pole	5						
Paper Birch		10	Pole	6						
30	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.2	46	81-110	N/A	Stand was cut in 1977. Decent aspen mixed with poor quality maples, balsam, cherry and birch. Still small diameters overall, although aspen is approaching nice poletimber size. Frequent blowdown present. Check next entry.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		35	Pole	7	46	Conifers		Low	Variable	Sapling
Paper Birch		15	Pole	7		Maple (spp.)		Low	Variable	Sapling
Red Maple		20	Pole/Sapling	6						
Sugar Maple		10	Pole	6						
31	6120 - Lowland Cedar	Poletimber Well	166.7	133	141-170	N/A	Mixed cedar stand with balsam, birch and scattered tamarack. Tag alder where wettest. Not very big diameter for age, but areas of larger diameter present. Scattered pockets of birch, spruce, and fir present. Some aspen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		60	Pole	7	133	Conifers		Medium	Variable	Sapling
Tamarack		10	Pole	7		Tag Alder		Medium	Variable	Tall Shrub
Paper Birch		15	Pole	7						
Black Spruce		5	Pole	8						
Balsam Fir		10	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
32	6112 - Lowland Aspen	Sapling Well	68.5	17	Immature	N/A	Stand was cut in 2006 as part of the Intimidator Hardwood sale. Regen is mix of aspen and tamarack and tag alder where wettest. Some birch and balsam . Aspen doing very well on higher ground, while lower spots were slower to regenerate and are of smaller size classes. Alder has taken over in wettest areas. Cedar has regenerated on edges adjacent to mature cedar stand. Extensive beaver damage on east side of stand to aspen regen. Access road has also been flooded there.																																													
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33	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	3.3	35	Immature	N/A	Variable mix of small pole and sapling size aspen, fir, cherry and white pine. Patchy stand with frequent gaps containing sparse saplings and ferns. Most trees are of low quality.																																													
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34	6112 - Lowland Aspen	Sapling Medium	16.4	17	Immature	N/A	Stand was cut in 2006 as part of the Intimidator Hardwood sale. Wet stand. Mostly tag alder mixed with some aspen, fir, birch, and some tamarack. Cedar starting to come up. Most residual has died or fell over. Cattails present in wettest spots that didn't regenerate.																																													
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35	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	6.8	87	81-110	N/A	Mixed stand containing lowland hardwoods and cedar. Bam and aspen present. Decent cedar in spots. Good mix of red maple and fir throughout stand. Some blow down present. Access road on west edge of stand has been flooded by recent beaver activity. Stand is not overly wet.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
36	42340 - Upland Spruce/Fir	Poletimber Well	56.4	46	111-140	N/A	Variable sized mix of aspen/spruce/fir. Mostly medium sized poletimber, but some areas of smaller diameters present. East side of stand has more consistent and larger diameters. West side has more conifer that is still slightly immature, and also slightly wetter. Treat east half of stand this entry.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Spruce		10	Pole	7	46	Conifers		
Quaking Aspen		40	Pole	8		Density		
Balsam Fir		50	Pole	6	46	Avg. Height		
						Size		
						Sapling		
37	629 - Mixed non-forested wetland	Nonstocked	3.2			No	Scattered small cedar. Extremely fresh beaver activity. Many chewed off stems in adjacent young aspen stand. Mostly along old road.	
Sub-Canopy Species		Density	Avg. Height	Size				
Tag Alder		High	5 - 10 feet	Tall Shrub				
Northern White Cedar		Low	Variable	Sapling				
38	6120 - Lowland Cedar	Poletimber Well	45.6	126	141-170	N/A	Stand of dense, but variable mixed cedar stand. Patches of tamarack, fir, and spruce mixed in. Overall small size for age. Some alder in east part of stand. Pockets of spruce in NE part of stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		15	Pole	7		Northern White Cedar		
Northern White Cedar		50	Pole	8	126	Tag Alder		
Paper Birch		10	Pole	6		Paper Birch		
Tamarack		10	Pole	8		Balsam Fir		
Balsam Fir		15	Pole	7		Density		
						Avg. Height		
						Size		
						Sapling		
39	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.8	86	81-110	N/A	Inaccessible stand of mixed lowland conifer and deciduous. Variable wet ground. Blocked by surrounding cedar and wetland. Small change in elevation is allowing better growth and more upland spp.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		15	Pole	8		Conifers		
Hemlock		5	Log	11		Red Maple		
White Pine		5	Log	12		Density		
Paper Birch		5	Pole	8		Avg. Height		
Quaking Aspen		10	Pole	9		Size		
Red Maple		15	Pole	8		Sapling		
Northern White Cedar		45	Pole	7	86			
40	6124 - Lowland Spruce-Fir	Poletimber Medium	4.9	74	51-80	N/A	Poor to medium stocked black spruce mixed with white pine and paper birch. Variable sizes. Slightly upland in spots. Stand would benefit from a seed tree harvest to promote a black spruce white pine cover type. Harvest if access allows. Old road has been flooded by beavers.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		5	Pole	7		Black Spruce		
Northern White Cedar		5	Pole	6		Paper Birch		
Red Maple		5	Log/Pole	10		Balsam Fir		
Black Spruce		45	Pole	7	74	Density		
Balsam Fir		10	Pole	7		Avg. Height		
Paper Birch		15	Pole/Log	9		Size		
Tamarack		5	Pole	6		Sapling		
White Pine		10	Log/Pole	10				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
41	429 - Mixed Upland Conifers	Poletimber Well	38.6	46	81-110	N/A	Stand was cut in 1977. Variable stand consisting of mostly pole size aspen/spruce/fir and white pine. Scattered log size white spruce and white pine present throughout stand. Some maple and cherry mixed in. Patch of mature red and white pine in northeast part of stand. Some areas are solid white pine and spruce, while other areas lack white and are mostly dense small fir. Small drainage going north to south through stand. West part is mostly aspen/spruce/fir, while the east side is mostly the same with a white pine component.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry	5	Pole/Sapling	5		Conifers	Low		Variable	Sapling	
Quaking Aspen	8	Pole	6							
Paper Birch	3	Pole/Sapling	6							
Balsam Fir	38	Pole	6	46						
White Spruce	10	Pole/Log	8							
White Pine	36	Log/Pole	10							
42	629 - Mixed non-forested wetland	Nonstocked	20.5		Immature	No	Flooding from creek. Open water transitioning to cattails then to standing dead cedar. Some cedar regen established on north edge.			
Sub-Canopy Species		Density	Avg. Height	Size						
Northern White Cedar		Low	5 - 10 feet	Sapling						
43	4130 - Aspen	Poletimber Well	75.6	46	81-110	N/A	Stand was cut in 1977. Good looking aspen, but patchy and variable. Most of stand is decent size, but not where it should be for it's age. Best to hold until next entry to increase diameters throughout stand. Heavy maple, birch and aspen regen in gaps and spots of low BA.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	6		Birch (spp.)	Low		10 - 20 feet	Sapling	
Bigtooth Aspen	20	Pole	8	46	Balsam Fir	Medium	Variable	Sapling		
Balsam Fir	10	Pole	6	46	Aspen (spp.)	Medium	>20 feet	Sapling		
White Spruce	5	Pole	6		Maple (spp.)	Medium	10 - 20 feet	Sapling		
Quaking Aspen	60	Pole	8	46						
44	6112 - Lowland Aspen	Sapling Medium	3.7	13	Immature	N/A	Cut in 2010. Aspen, birch, fir and some tamarack regenerating. Very wet. Tag alder mixed in.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir	10	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub		
Tamarack	5	Sapling	2							
Paper Birch	10	Sapling	2							
Quaking Aspen	75	Sapling	2	13						
45	310 - Herbaceous Openland	Nonstocked	21.2		Immature	No	Mostly open grass and ferns. Scattered cherry throughout stand. Clumps of aspen present throughout, and starting to fill in more each year from adjacent aspen stands. Also scattered clumps of spruce/fir.			
Sub-Canopy Species		Density	Avg. Height	Size						
Quaking Aspen		Medium	Variable	Sapling						
Black Cherry		Low	Variable	Sapling						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
46	42340 - Upland Spruce/Fir	Poletimber Well	15.6	46	111-140	N/A	Riparian edge along Smith Creek. Ridge on both sides of creek. Wooded all the way to creek on both sides. Some tag alder and cedar growing along edge of creek. Mix of spruce, fir and some aspen. Large diameter red pine, white pine and spruce scattered throughout the overstory.																																																						
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47	4134 - Aspen, Spruce/Fir	Poletimber Well	40.6	46	141-170	N/A	Nice stand of aspen mixed with balsam and spruce. Very well stocked and most is of medium to large pole size. Some pockets of maple sapling/small poles and small aspen poles. Most likely due to aspen mortality. North and east edges contain more spruce/fir and scattered large diameter white and red pine. Clear cut this entry.																																																						
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48	42110 - Planted Red Pine	Sawtimber Well	12.3	93	81-110	N/A	Everything but red pine was harvested from stand in 1999/2000. Good looking red pine, approaching oversized diameters. Dense balsam understory throughout most of stand, although there are frequent patches that have died and blown over. Clear cut this entry.																																																						
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49	6120 - Lowland Cedar	Poletimber Well	23.8	109	81-110	N/A	Variable mixed cedar stand. Decent stocking in some areas. Other areas cedar is thin, but is occupied by small fir, birch and spruce. Creek running through western part of stand. Very wet in areas.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 10.6 37 81-110 N/A Cut in 1985. Mixed stand of hardwood and aspen mix. Variable size classes. There is a lot of cherry, birch, and balsam. Large gaps in some spots containing dense hardwood regen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	Log/Pole	10		Maple (spp.)	Medium	Variable	Sapling
Red Maple	42	Pole/Sapling	5	37	Black Cherry	Medium	Variable	Sapling
Paper Birch	15	Pole	6		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	5	Pole	6					
Balsam Fir	20	Pole	7	37				
Black Cherry	15	Pole/Sapling	5					

51 4112 - Maple, Beech, Cherry Association Sawtimber Well 6.6 84 51-80 N/A Stand was cut in 2006. Beech has died out and basal areas are therefore a little low. Good hardwood site, but remaining overstory trees are mostly poor quality. Heavy to red maple. Fir and hemlock throughout. Excellent advanced regen present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Log	12		Yellow Birch	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Hemlock	10	Log	12		Black Cherry	Low	10 - 20 feet	Sapling
Red Maple	50	Log/Pole	12	84	Maple (spp.)	High	10 - 20 feet	Sapling
Sugar Maple	30	Log/Pole	12					

52 4112 - Maple, Beech, Cherry Association Sawtimber Medium 3.0 86 51-80 N/A Stand was thinned in 2008. Lower BA of mostly red maple logs and hard maple poles. Most beech is dead or dying. Excellent advanced maple regen established. Beech regen also present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	3	Pole	6		Maple (spp.)	Medium	Variable	Sapling
Red Maple	60	Log/Pole	13	86	Striped Maple	Low	Variable	Sapling
White Pine	2	Log/Pole	10		Beech	Medium	Variable	Sapling
Sugar Maple	35	Pole/Log	9					

53 629 - Mixed non-forested wetland Nonstocked 12.8 No

54 42340 - Upland Spruce/Fir Poletimber Well 37.6 49 141-170 N/A Nice size balsam and spruce mixed with aspen. Variable sizes throughout stand, but overall medium to large poletimber. A little birch, cedar, and white pine present in west part of stand. Tag alder where wet. Smith Creek runs through middle of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	40	Pole	7	49	Tag Alder	Low	Variable	Tall Shrub
Black Cherry	5	Pole	6		Balsam Fir	Low	Variable	Sapling
White Spruce	20	Pole	8					
Quaking Aspen	30	Pole	8					
Red Maple	5	Pole	6					

55 4110 - Sugar Maple Association Sawtimber Well 7.5 80 51-80 N/A Stand was thinned in 2006. Very nice quality hard maple. Mostly large diameter, veneer quality logs. Some beech and yellow birch mixed in. Nice layer of advanced regen. Mix of maple and beech.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Log/XLog	15	80	Maple (spp.)	Medium	Variable	Sapling
Red Maple	10	Log	12		Beech	Medium	Variable	Sapling
Beech	5	Log	12					
Yellow Birch	5	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
56	42210 - Natural Red Pine	Sawtimber Medium	2.4	91	51-80	N/A	Creek buffer left when stand 57 to the south was cut. Very large red pine and white spruce over spruce and fir saplings/small poles. Stand is along ridge going to down to Smith Creek.																																																							
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57	42340 - Upland Spruce/Fir	Poletimber Medium	5.4	24	1-50	N/A	Stand was a final harvest red pine cut in 1999. Open growing balsam and spruce. Aspen, mixed with some maple and cherry has started to fill in gaps. Some red pine has regenerated.																																																							
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58	4112 - Maple, Beech, Cherry Association	Sawtimber Well	33.3	80	51-80	N/A	Stand was thinned in 2006 as part of Intimidator Hardwood. Good looking, decent quality hard maple. Thinned pretty heavy in 2006, but an excellent layer of advanced regen has established. Wait at least 10 years for next thinning.																																																							
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59	4134 - Aspen, Spruce/Fir	Sawtimber Well	9.5	59	111-140	N/A	Very well stocked stand of aspen/spruce/fir. Large diameter aspen present. Mortality starting to set in. A little red pine scattered throughout stand. Clear cut this entry.																																																							
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60	4134 - Aspen, Spruce/Fir	Sapling Poor	19.3	15	1-50	N/A	Old sandpit surrounded by pockets of aspen saplings and pole size spruce/fir.																																																							
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61	629 - Mixed non-forested wetland	Nonstocked	3.0	0		No																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63	6121 - Tamarack	Poletimber Well	16.4	68	81-110	N/A	Mix of tamarack, birch, and cedar. Some bam and fir. Wet stand. Mostly sapling and small poletimber.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	50	Pole	6	68	Northern White Cedar	Low	< 5 feet	Sapling
Paper Birch	25	Sapling/Pole	4		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	15	Pole/Sapling	5					
Balsam Poplar	5	Pole/Sapling	5					
Balsam Fir	5	Pole/Sapling	5					