



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45191

Entry Year 2022

Acreage: 1,988

County Mackinac

Management Area: Battydoe Deer Yard

Revision Date: 2020-07-29

Stand Examiner: Jennifer Burnham

Legal Description:

T42N-R12W Sections 16, 17, and 21; Newton Township

Identified Planning Goals:

This compartment is at the northwest end of a high use winter deer yard, the proposed Batty Doe Deer Yard Management Area. Large continuous cedar stands will remain intact to provide thermal cover during the winter. Timber harvests have been prescribed for the winter months so that tops will provide a food source for deer. Most of the aspen stands have been cut within the past 5-20 years. Regeneration has been good, and these young stands provide good habitat for grouse and other wildlife. The compartment contains little acreage of aspen and mixed aspen stands in older ages classes.

Soil and topography:

The majority of the compartment consists of poorly drained soils: Angelica Muck or Markey and Carbondale Mucks. Other soils present include: Amadon-Rock Outcrop Complex, Cozy Cobbly Fine Sandy Loam, Ensign Fine Sandy Loam, Graveraet Fine Sandy Loam, Guardlake Fine Sandy Loam, Heinz Sandy Loam, ponded Histosols and Aquent, Mattix Sandy Loam, Paquin Sand, Solona Loam, and Wallace Sand. Most of this compartment consists of relatively level ground, especially low-lying wet ground punctuated with slightly higher dry ground. Small elevation changes have a significant effect on moisture regime.

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

All of the land within the compartment boundary is owned by the State of Michigan. Land north of the compartment is owned by Michigan Limestone Company, which operates an active quarry. Land to the east is owned by The Forestland Group. The State of Michigan also owns the land to the south and west of this compartment.

Unique Natural Features:

Unique, natural features are known to exist in an adjacent compartment. These may affect management of some of the stands in this compartment. Follow management guidelines for any species requiring special management considerations.

Archeological, Historical, and Cultural Features:

Remnants of some old foundations are visible within the compartment.

Special Management Designations or Considerations:

The southern three-quarters of this compartment lie within the Deer Wintering Area Special Conservation Area (SCA).

Watershed and Fisheries Considerations:

This compartment contains reaches of the north and main branches of the Milakokia River. The Milakokia River supports a cool/warm-water fish community of northern pike, rock bass, suckers, and central mudminnow. Implementation of BMPs will aid in preventing sediment input at road crossings. Upland areas are critically important to protect spawning areas for stream-resident fishes. Information in the files indicates that Batty Doe Lake has supported northern pike and yellow perch in the past. No active fisheries management is being implemented at this time.

Wildlife Habitat Considerations:

This compartment is part of the Battydoe Deer Yard MA where featured wildlife species include red-shouldered hawk, ruffed grouse, snowshoe hare, and white-tailed deer. It is mainly comprised of mix of aspen of various age classes and lowland conifer swamp dominated by cedar. Some openings are also located in the northern portion. The compartment is part of deer wintering complex, and deer activity is evident. The Milakokia River weaves through. Heinz Lake is located between this compartment and the Battydoe Lake Road to the west, and is connected to the river. This system provides habitat for beaver and other wetland wildlife. Aspen stands provide habitat for grouse, American woodcock, and deer, while closed canopy conifer (particularly cedar) stands provide cover for wintering deer and other species.

Wildlife objectives include maintaining the cover for wintering deer as well as other species like black bear, providing early-successional habitat in various age classes, protecting riverine and wetland areas by buffering these systems, retaining

the openings present, and maintaining species diversity in the compartment. All harvests will take place during the winter to provide browse for wintering deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and coarse-textured till. The glacial drift thickness is at or near the surface. The Silurian Manistique Group subcrops below the glacial drift. The Manistique could be used for stone/limestone. The Inland Quarry, Burnt Bluff Group, is located one mile to the north. The nearest gravel pit is located one mile to the southwest. There appears to be gravel potential in the upland areas. There is no economic oil and gas production in the UP, currently.

Vehicle Access:

Vehicle access to this compartment is primarily from Batty Doe Lake Road, a gravel road which connects Schoolcraft County Road P433 and Leveille Road. The Well Casing Road runs from the west side of Section 17, off the Batty Doe Lake Road, into Section 16. Logging roads also reach the south end of Section 21. Access to Section 16 might be possible via winter logging roads if The Forestland Group offered permission to cross their property. Management activities will be restricted by the limited access to portions of this compartment.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The primary form of recreation in this compartment is hunting, especially for deer and small game. There are numerous illegal shooting lanes, permanent blinds, established trails, and at least one established camp. ORV and snowmobile use are primarily associated with hunting. There may also be opportunities for trapping.

Fire Protection:

Fire protection is not a major concern since this compartment contains so much low, wet ground and relatively fire-resistant timber types. However, evidence of past fires was found. If a fire did occur in this compartment, access would be an issue. Some prescribed burning has been done to promote aspen regeneration.

Additional Compartment Information:

The following reports from the Inventory are attached:

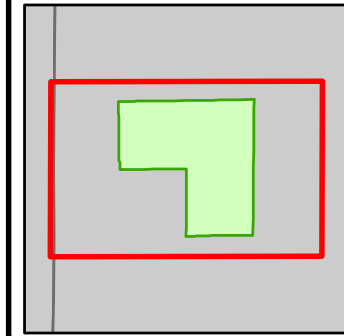
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

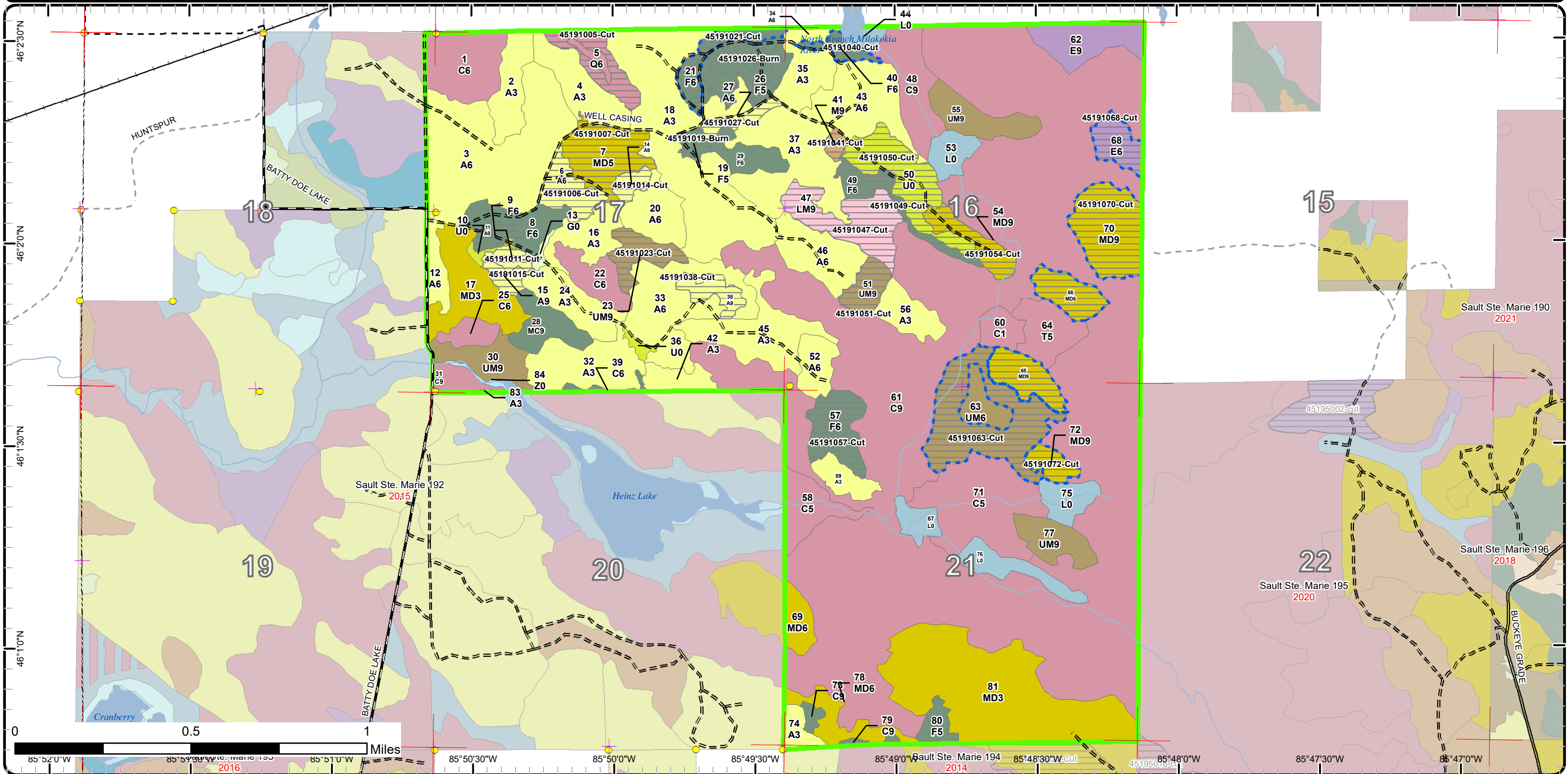
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 191
 T42N, R12W, Sec: 16, 17, 21
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Battydoe Deer Yard
 YOE: 2022
 Acres: 1,988 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 8/10/2020
 Map Phase: Web Post

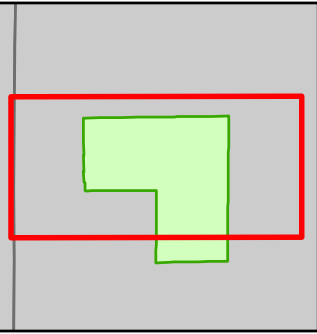


- | | |
|--|-----------------------------------|
| — Miris Corners | ▨ Treatments with Site Conditions |
| ✦ Remonumented Section Corners | ▨ Clearcut (w/Reserves) |
| ● Survey Grade Corners | ☼ Prescribed Burn |
| ▭ Counties | ■ 411 - Northern Hardwood |
| — DNR - Primary Forest Road | ■ 413 - Aspen |
| == DNR - Forest Access Route | ■ 419 - Mixed Upland Deciduous |
| - - Federal / State - Dirt / Gravel Road | ■ 423 - Other Upland Conifers |
| - - Private - Dirt / Gravel Road | ■ 430 - Upland Mixed Forest |
| ⚡ Active Railroads | ■ 611 - Lowland Deciduous Forest |
| — Island in Lake or River | ■ 612 - Lowland Coniferous Forest |
| — Lake/Pond | ■ 613 - Lowland Mixed Forest |
| — Perennial River | ■ 310 - Herbaceous Openland |
| ■ Lakes and Rivers | ■ 330 - Low Density Trees |
| ▭ Compartment Boundary | ■ 500 - Water |
| | ■ 622 - Lowland Shrub |

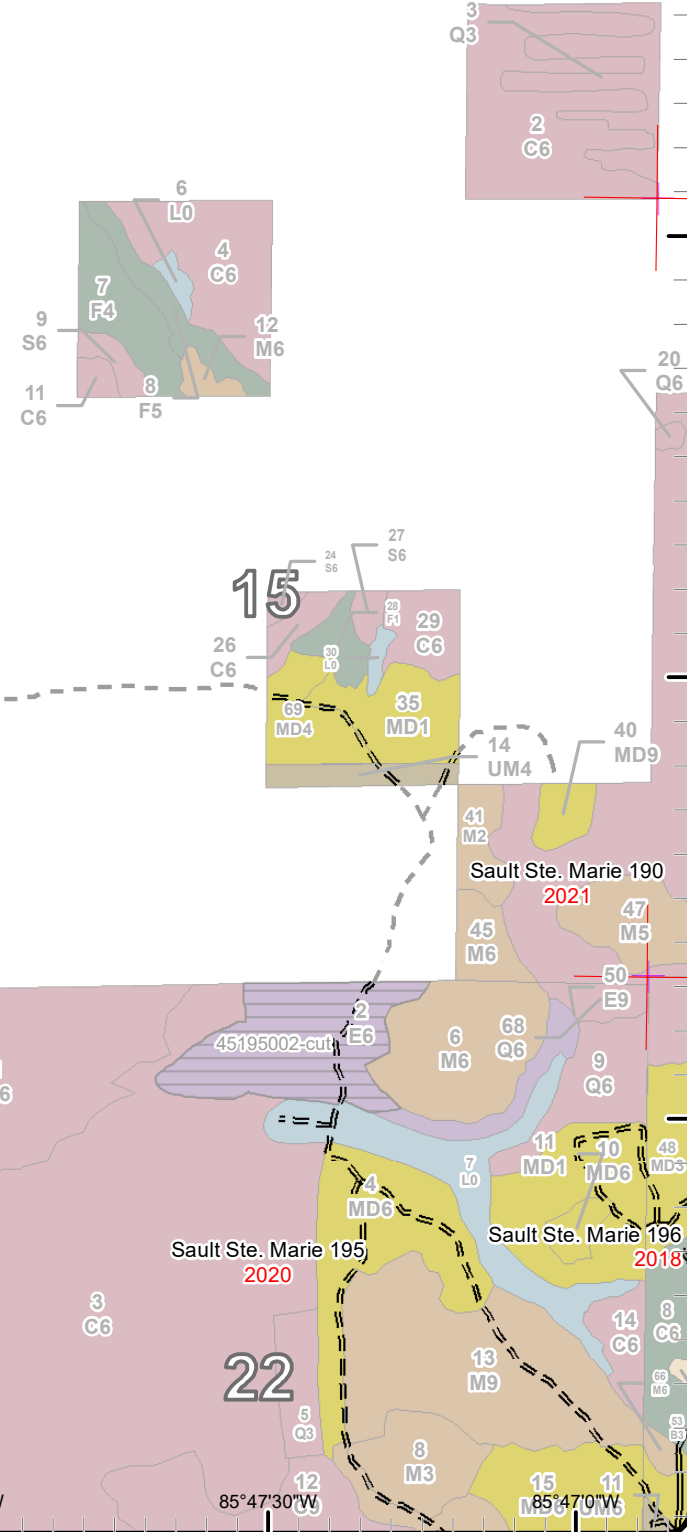
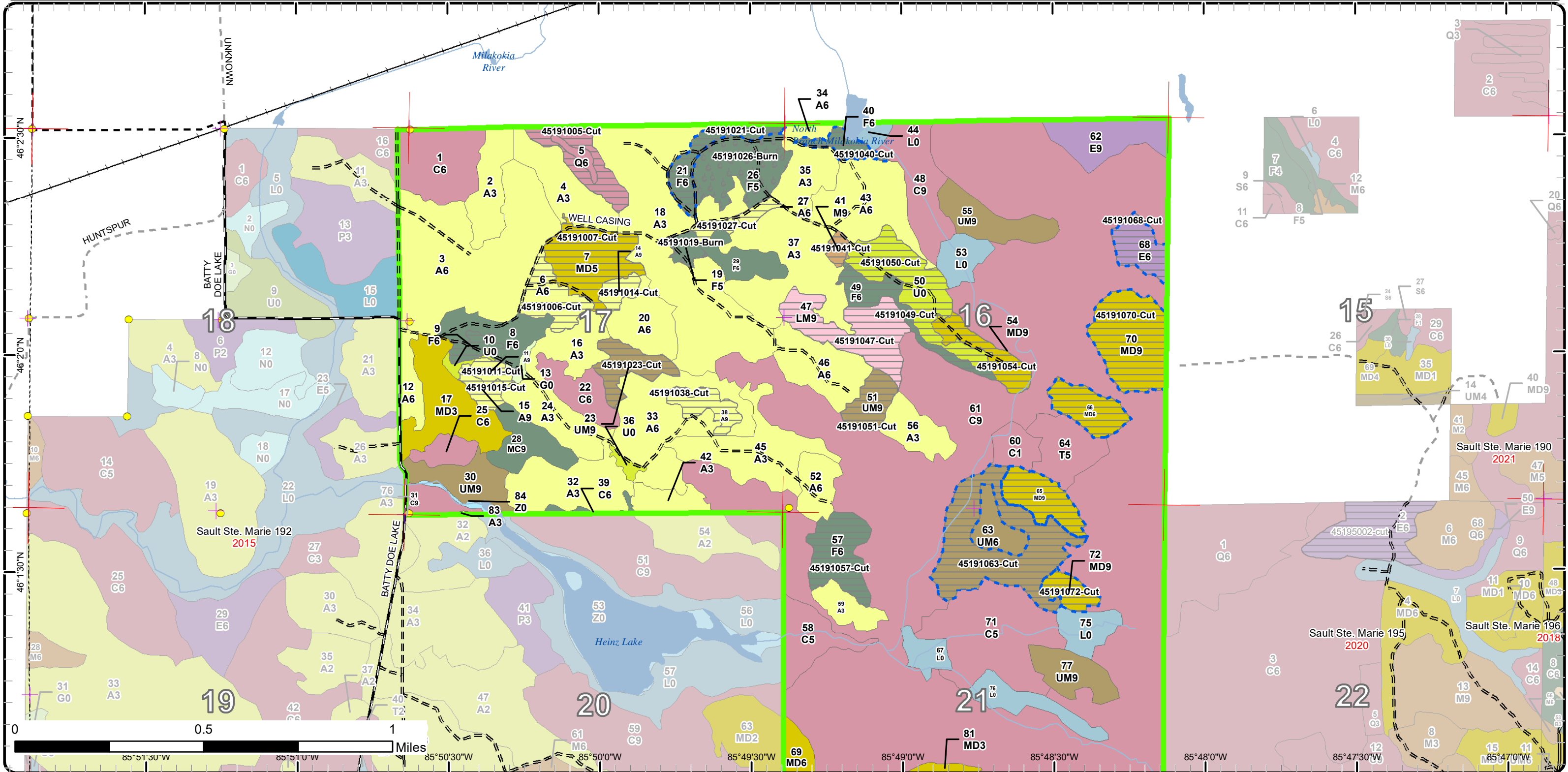


Cover Type & Treatments Map

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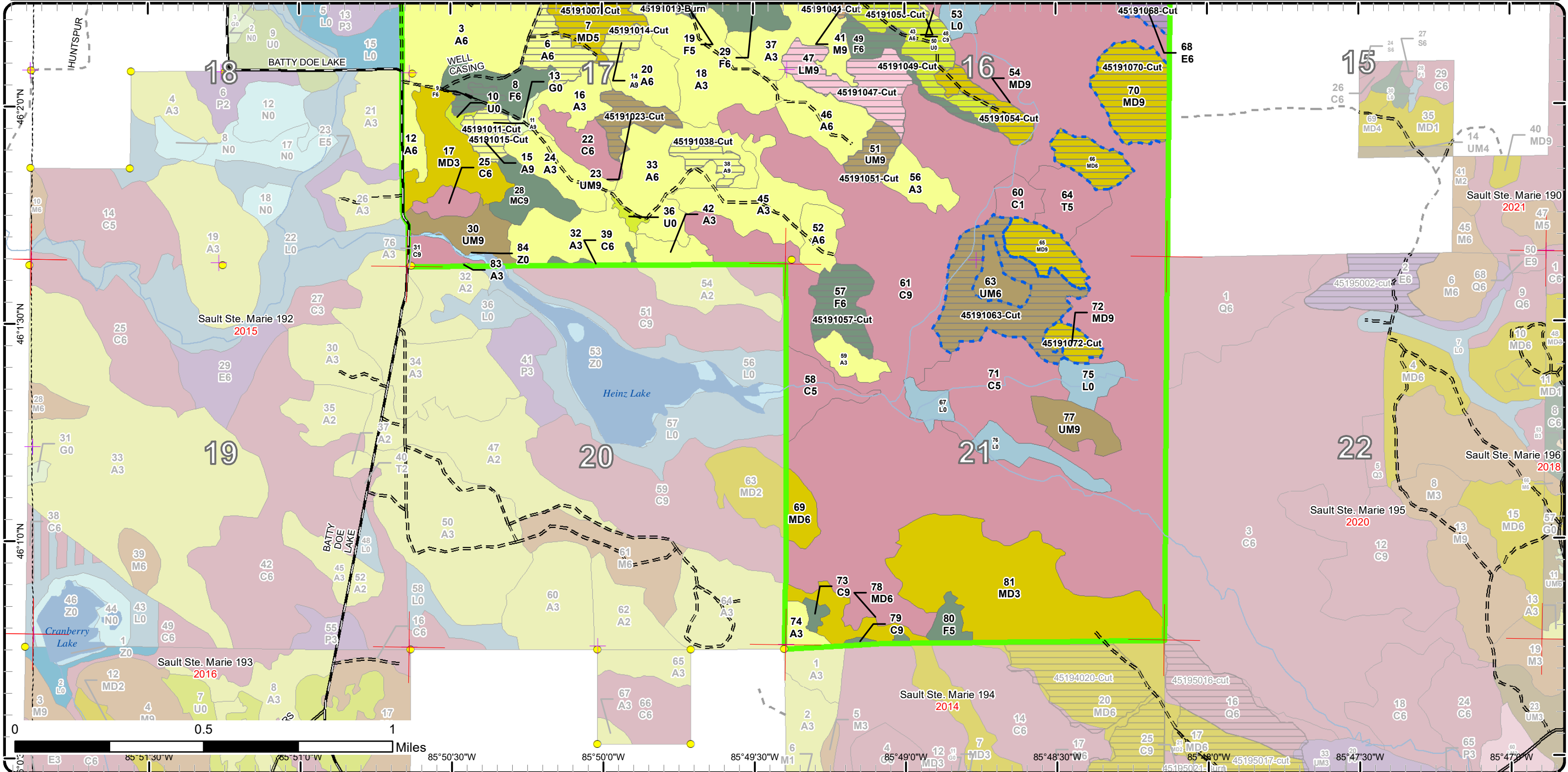


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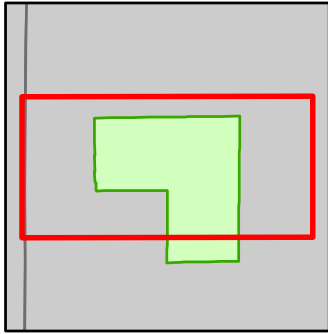


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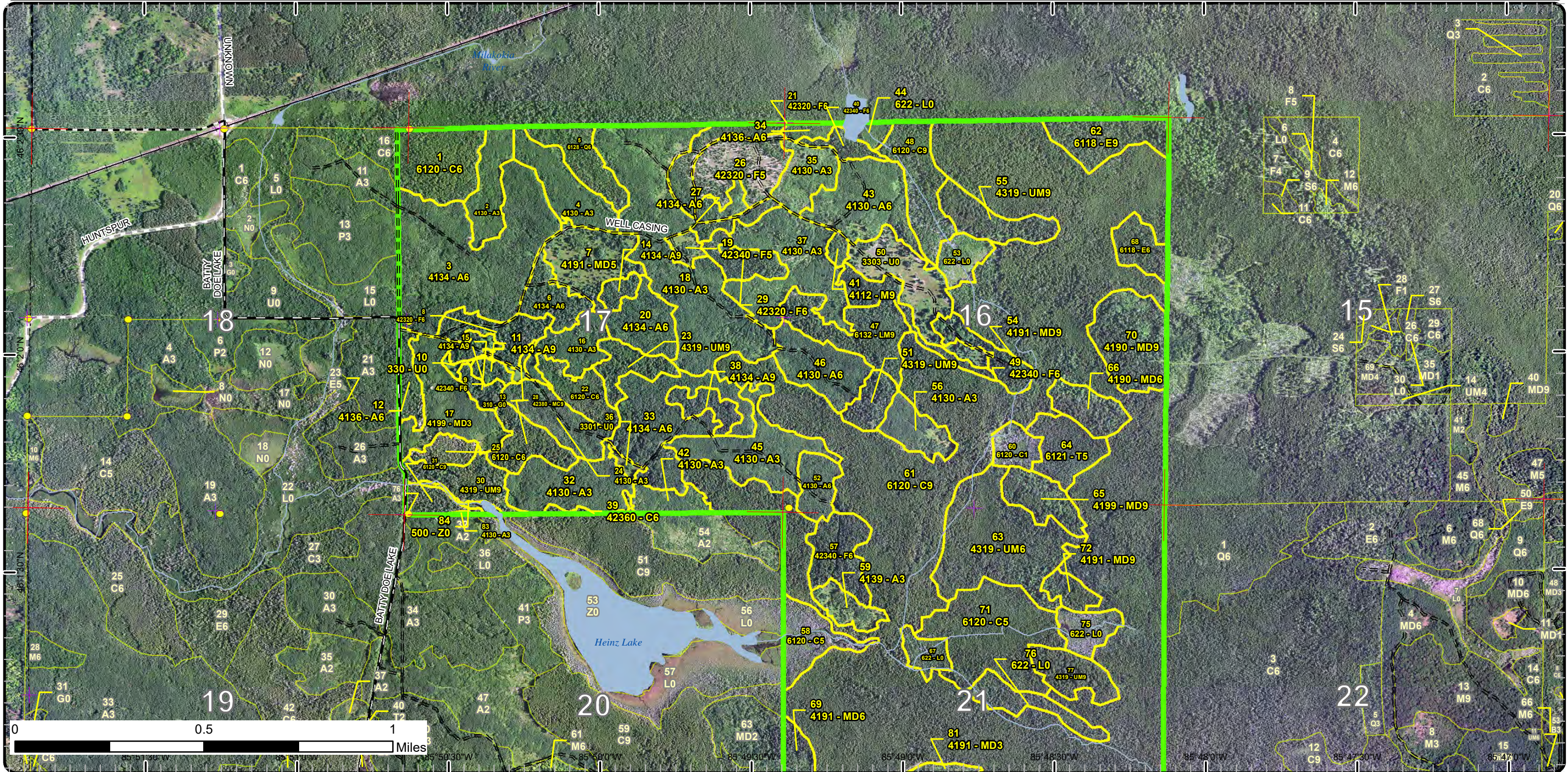


Stand Boundary Map

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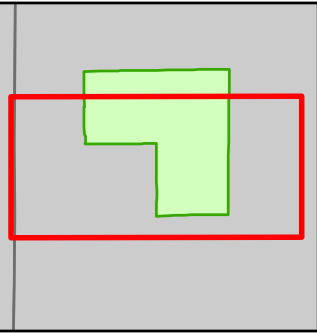


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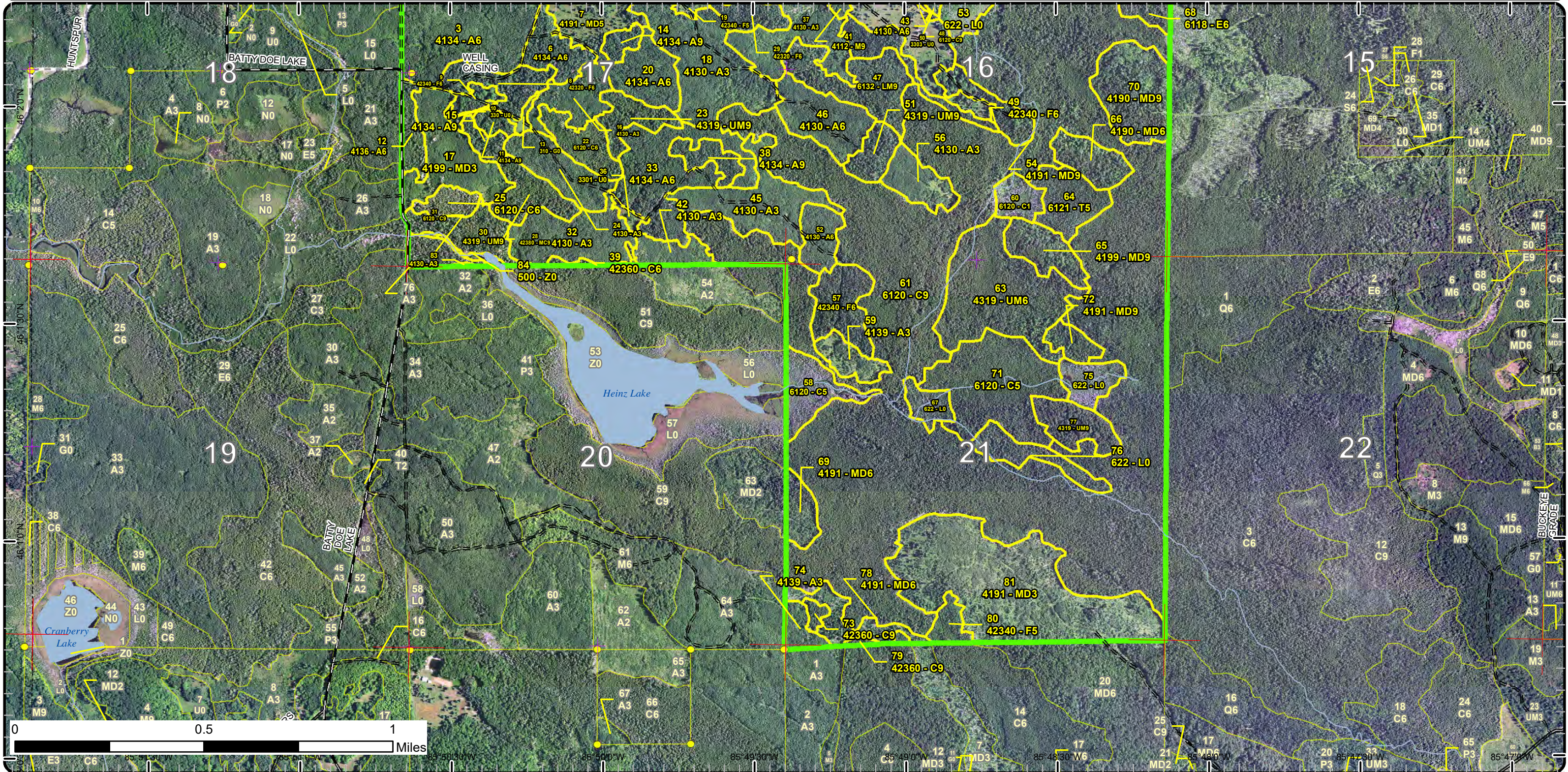


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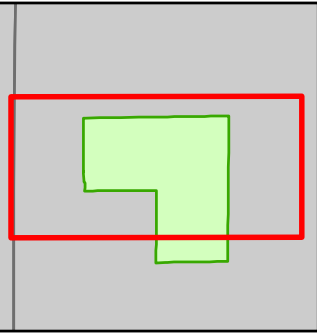


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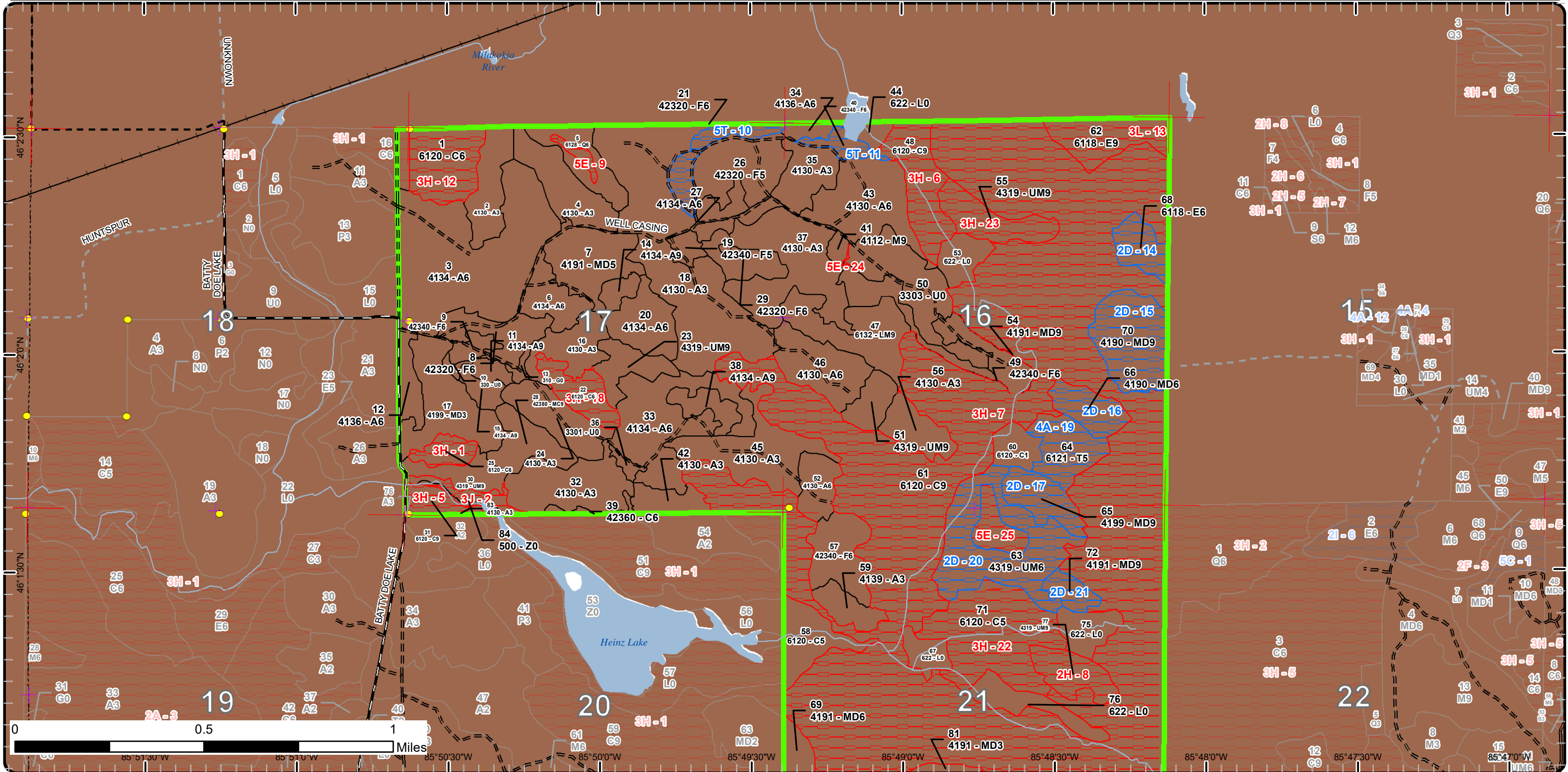


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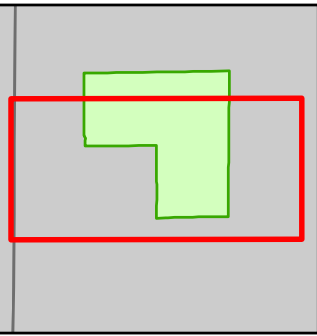


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- Available w/ Constraints
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 4A: No Markets Available for these Forest Products
- 5T: Contingency Treatment for Forest Health Concerns
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns

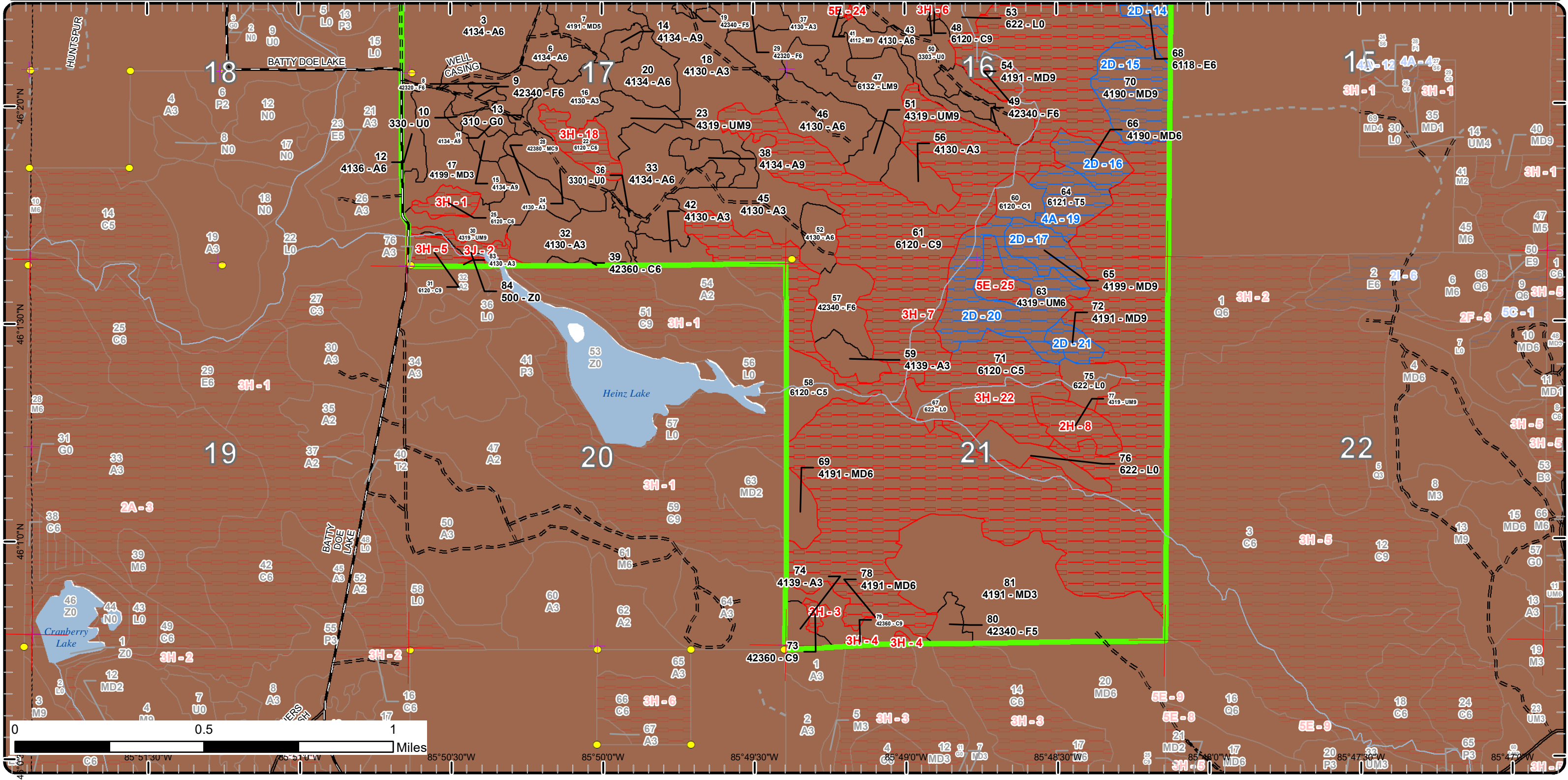


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- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment 191 Year of Entry 2022



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	147	116	229	13	21	9	4	0	0	0	0	0	0	0	0	0	539
Cedar	0	0	0	0	0	0	0	16	46	0	33	2	15	27	661	0	13	0	812
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Conifers	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	30
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	25
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Mixed Upland Deciduous	0	0	133	9	23	0	0	0	0	28	19	0	25	0	0	0	0	0	236
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14
Upland Mixed Forest	0	0	0	0	0	0	0	0	9	15	0	30	11	0	52	0	0	0	117
Upland Spruce/Fir	0	0	0	0	0	60	15	12	18	0	0	0	0	0	0	0	0	4	108
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	76	0	280	125	252	73	36	52	77	68	82	35	68	27	713	0	27	4	1991



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 191
Total Compartment Acres: 1,988

Commercial Harvest - 207
Harvests with Site Condition - 131
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	39	0	0	0	0	0	0	0	0	39
Low-Density Trees	26	0	0	0	0	0	0	0	0	26
Lowland Conifers	13	0	0	0	0	0	0	0	0	13
Lowland Deciduous	11	0	0	0	0	0	0	0	0	11
Lowland Mixed Forest	25	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	95	0	0	0	0	0	0	0	0	95
Northern Hardwood	2	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	63	0	0	0	0	0	0	0	0	63
Upland Spruce/Fir	65	0	0	0	0	0	0	0	0	65
Total	338	0	0	0	0	0	0	0	0	338

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	338	0	0	0	27	0	0	0	0	365
Next Step	0	0	0	0	49	0	365	0	0	415
Total	338	0	0	0	77	0	365	0	0	780



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

5	45191005-Cut	12.5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	65	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Perimeter is ready for harvest on frozen ground or during a dry year. Retention will be the center of the stand that is wet and contains more cedar. Harvest cedar on the perimeter where needed for operability and good regeneration. Treatment size may vary due to retention of cedar/hemlock. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Regeneration will be species that are present in the stand at this time.</p> <p><u>Other Comment:</u> Stand was prescribed in previous inventory but FL: 5E - Delayed treatment for age/size class diversity and 3I - Deer yards; Stand is very wet, lots of sphagnum; Clumps of cedar - could be left</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2021</p>											
6	45191006-Cut	12.6	4134 - Aspen, Spruce/Fir	Poletimber Well	56	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Leave closed canopy conifer cover dominated by cedar and do not reach into cedar pockets to harvest other species. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Stand will regenerate to what is present now.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2021</p>											
7	45191007-Cut	23.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	30	1-50	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Final harvest and burn for wildlife. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Burn, Opening</p> <p><u>Acceptable Regen:</u> Regeneration is not desired. Area to be burned and maintained for wildlife.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2021</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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8	45191008-Cut	14.2	42320 - Upland Spruce	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
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Prescription Final harvest stand. Retention will be 3% of the stand. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be the species that are present now.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

9	45191009-Cut	4.4	42340 - Upland Spruce/Fir	Poletimber Well	50	1-50	Harvest	Clearcut	42330 - Upland Fir	Even-Aged	No
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Prescription Final harvest with no retention due to small size and no desire to have mixed ages because of SBW. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be the species that are present now.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

11	45191011-Cut	3.6	4134 - Aspen, Spruce/Fir	Sawtimber Well	67	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest, no retention due to small acreage and age. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be species that are present now.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

14	45191014-Cut	4.3	4134 - Aspen, Spruce/Fir	Sawtimber Well	72	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest with no retention due to small acreage. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be the species that are present.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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
15	45191015-Cut	5.0	4134 - Aspen, Spruce/Fir	Sawtimber Well	67	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest, with no retention due to small acreage and stand representation to the west. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Regeneration will be the species that are present now.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
19	45191019- Burn	3.9	42340 - Upland Spruce/Fir	Poetimber Medium	38	1-50	Burn	Opening	310 - Herbaceous Openland		No
<p><u>Prescription</u> Burn to maintain opening for wildlife.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
21	45191021-Cut	11.6	42320 - Upland Spruce	Poetimber Well	41	51-80	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Final harvest, Leave closed canopy conifer cover dominated by cedar and do not reach into cedar pockets to harvest other species". Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Regeneration will be species that are present now.</p> <p><u>Regen:</u></p> <p><u>Other</u> Harvest if SBW becomes an issue in the stand. If not, harvest during next inventory rotation.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Contingency Treatment</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
23	45191023-Cut	11.3	4319 - Mixed Upland Forest	Sawtimber Well	112	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, leave closed canopy conifer cover dominated by cedar and do not reach into cedar pockets to harvest other species".</p> <p><u>Specs:</u> Treatment size may vary due to retention of cedar/hemlock. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Regeneration will be those species that are present now.</p> <p><u>Regen:</u></p> <p><u>Other</u> Harvest during frozen conditions or when soil is not saturated.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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26	45191026-Burn	23.3	42320 - Upland Spruce	Poletimber Medium	41	1-50	Burn	Opening	310 - Herbaceous Openland		No
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Prescription Prescribe burn to maintain opening for wildlife.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

27	45191027-Cut	5.1	4134 - Aspen, Spruce/Fir	Poletimber Well	48	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest with no retention due to small acreage. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be species that are present now.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

38	45191038-Cut	8.1	4134 - Aspen, Spruce/Fir	Sawtimber Well	57	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest with no retention due to small acreage. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be the species that are present now.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

40	45191040-Cut	5.5	42340 - Upland Spruce/Fir	Poletimber Well	45	51-80	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
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Prescription Final harvest, leave closed canopy conifer cover dominated by cedar and do not reach into cedar pockets to harvest other species. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be species that are present now.

Regen:

Other

Comment: Harvest if SBW becomes an issue in the stand. If not, harvest during next inventory rotation.

Site Condition Contingency Treatment

Proposed Start Date: 10/1 /2021



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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	45191041-Cut	2.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	No
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Prescription Final harvest, retention placed on common line with stand 49 and 50. Winter cut (Dec. 1 - Mar. 31) for wintering deer.
Specs:

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

Acceptable Regeneration will be the species that are present now.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

47	45191047-Cut	25.1	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	89	51-80	Harvest	Clearcut with Retention	6132 - Mixed Lowland Forest with Cedar	Even-Aged	No
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Prescription Final harvest, leaving cedar and any areas that will be difficult to operate in where BA of cedar is high. Treatment size may vary due to retention of cedar/hemlock. Winter cut (Dec. 1 - Mar. 31) for wintering deer.
Specs:

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

Acceptable Regeneration will be the species that are present now.
Regen:

Other Operate on frozen ground or during the dry part of the year to avoid rutting.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

49	45191049-Cut	11.4	42340 - Upland Spruce/Fir	Poetimber Well	60	51-80	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
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Prescription Final harvest, retention left on common line with stands 41 and 50. Winter cut (Dec. 1 - Mar. 31) for wintering deer.
Specs:

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

Acceptable Regeneration will be the species that are there now.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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
50	45191050-Cut	26.3	3303 - Mixed Low Density Trees	Nonstocked		Immature	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Final harvest with no retention. Follow up with a prescribed burn to maintain opening for wildlife. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Regeneration is not desired.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
51	45191051-Cut	9.0	4319 - Mixed Upland Forest	Sawtimber Well	75	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest, leave closed canopy conifer cover dominated by cedar and do not reach into cedar pockets to harvest other species". Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Species that are present now will regenerate.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
54	45191054-Cut	10.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	110	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest. Put red line inside stand in some places along the east line against stand 61 for 3% representation. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Regeneration will be species that are present now.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
57	45191057-Cut	17.8	42340 - Upland Spruce/Fir	Poetimber Well	73	51-80	Harvest	Clearcut	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Final harvest stand with no retention to insure good regeneration and to reduce the chances of SBW issues with multiple fir ages. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Regeneration will be the species that are present now.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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63	45191063-Cut	42.8	4319 - Mixed Upland Forest	Poletimber Well	135	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Final harvest stand. Retention shown is an estimation of acreage that will be out there due to high amount of cedar that is present.
Specs: Treatment size may vary due to retention of cedar/hemlock. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

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

Acceptable Regen: Regeneration will be species that are present now.

Other Comment:

Site Condition Portable Bridge Needed

Proposed Start Date: 10/1 /2021

65	45191065-Cut	13.7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	110	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest with no retention due to small size and retention being left in stand 63, along with stand 64 that will not be harvested. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

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

Acceptable Regen: Regeneration will be the species that are present now.

Other Comment:

Site Condition Portable Bridge Needed

Proposed Start Date: 10/1 /2021

66	45191066-Cut	12.2	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	97	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest with no retention due to small size and retention being left in stand 54, along with stand 64 that will not be harvested. Winter cut (Dec. 1 - Mar. 31) for wintering deer.

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

Acceptable Regen: Regeneration will be the same species that are present now.

Other Comment:

Site Condition Portable Bridge Needed

Proposed Start Date: 10/1 /2021



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
68	45191068-Cut	10.5	6118 - Lowland Deciduous with Cedar	Poletimber Well	97	51-80	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest with no retention due to small size and surrounding mature timber. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Regeneration will be the species that are present now.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
70	45191070-Cut	28.2	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest, leave closed canopy conifer cover dominated by cedar and do not reach into cedar pockets to harvest other species".</p> <p><u>Specs:</u> Treatment size may vary due to retention of cedar/hemlock.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Regeneration will be the same species that are present now.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
72	45191072-Cut	6.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	97	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest with no retention due to small acreage. Winter cut (Dec. 1 - Mar. 31) for wintering deer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Regeneration will be species that are present now.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 365.3
Acreage Proposed:

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Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions								
		With Condition				2D	4A	5T	2H	3H	3J	3L	5E	
538	538	0		0	Aspen					0				
811	26	0		786	Cedar		0			786				
2	2	0		0	Herbaceous Openland									
30	30	0		0	Low-Density Trees									
15	13	0		2	Lowland Conifers									2
30	0	10		19	Lowland Deciduous	10							19	
25	25	0		0	Lowland Mixed Forest									
42	42	0		0	Lowland Shrub									
236	175	61		0	Mixed Upland Deciduous	61	0			0				
3	2	0		0	Northern Hardwood									0
16	0	16		0	Tamarack		16							
14	14	0		0	Upland Conifers									
117	30	43		44	Upland Mixed Forest	43			14	16	5			9
108	91	17		0	Upland Spruce/Fir			17		0				0
2	0	0		1	Water						1			
1,988	988	147		853	Total Forested Acres	114	16	17	14	802	7	19		12
	50%	7%		43%	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	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	661	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5T: Contingency Treatment for Forest Health Concerns	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5T: Contingency Treatment for Forest Health Concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3L: Other wildlife concerns	19	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
WLD has a no cut time limit on the stand, being wet harvest is not possible. A road is also needed through the cedar stand for access.							

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14	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	11	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: There are old winter roads to get to the stand from the west, bridge needed or access from PVT to the east.							
15	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	28	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Harvest can be from the PVT or an old winter road from the west.							
16	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	12	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Access with a portable bridge from the west or through the PVT to the east.							
17	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	14	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: A bridge is needed for access from the west.							
18	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	4A: No Markets Available for these Forest Products	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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20	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	43	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: There is a good bridge location to access the stand.							
21	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	7	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large amounts of cedar in the stand, it would need to be cut to harvest the stand.							
24	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for treatment in stand. Size and location may vary after harvest.							

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				
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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	6120 - Lowland Cedar	Poletimber Well	25.7	95	81-110	N/A	There are some small wet pockets with tag alder and low BA of cedar through the stand.																																											
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2	4130 - Aspen	Sapling Well	15.8	15	1-50	N/A	Stand harvested under TS# 101-02-01. alder is at edges; interior regeneration is good																																											
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3	4134 - Aspen, Spruce/Fir	Poletimber Well	76.1	32	1-50	N/A	This was once two stands; east half was cut in 1988, The Bear-Casing Aspen sale 042-86-01, west half was cut in 1983; no discernible difference now. There are areas where dbh is still sapling size but most trees have moved into small poles.																																											
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5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.0	65	51-80	N/A	Aspen, birch, and maple are dying out. There are scattered white pine mixed in with the spruce. The stand is around 80BA with most of the merchantable trees around the perimeter of the stand with the middle being made up of tag alder w stunted cedar and spruce.																																											
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6	4134 - Aspen, Spruce/Fir	Poletimber Well	12.6	56	51-80	N/A	Stand is over mature and BA is being reduced. Stand (A6) was prescribed in previous inventory but FL: 5E - Delayed treatment for age/size class diversity. This stand was probably harvested in '64.																																												
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7	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	23.1	30	1-50	N/A	Harvest with the surrounding sales. There are multiple ages of spruce and fir. Harvest and burn will help reduce SBW issues and promote breakout areas for deer.																																												
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8	42320 - Upland Spruce	Poletimber Well	14.2	48	51-80	N/A	Some areas are breaking up others healthy.																																												
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9	42340 - Upland Spruce/Fir	Poletimber Well	4.4	50	1-50	N/A	Maple and fir are dying out.																																												
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12	4136 - Aspen, Mixed Conifer	Poletimber Well	8.1	45	1-50	N/A	Some of the stand is low ground where less BA and merchantable tree is found. There is also a chain wide strip of the same stand on the west side of the road. If not harvested it will become a poor quality maple aspen stand.																																																				
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13	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified	No																																																					
14	4134 - Aspen, Spruce/Fir	Sawtimber Well	4.3	72	81-110	N/A	Harvest now, stand is breaking up. Stand was prescribed in previous inventory but FL: 5E - Delayed treatment for age/size class diversity.																																																				
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15	4134 - Aspen, Spruce/Fir	Sawtimber Well	5.0	67	51-80	N/A	Aspen starting to die; cedar pocket in narrow part between younger aspen stands; wetter southeast of cedar band																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4130 - Aspen	Sapling Well	14.4	16	1-50	N/A	Regenerating aspen clearcut with reserved cedar in patches and some scattered individual trees; less BAM than other aspen stands in this compartment; some paper birch in regen. Stand cut under TS#101-02-01, 5 Point Foothold.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Sapling	4	16
Bigtooth Aspen	35	Sapling	4	
Balsam Poplar	20	Sapling	4	
Balsam Fir	2	Sapling/Pole	4	
Northern White Cedar	8	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Low	< 5 feet	Tall Shrub
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Green Ash	Low	< 5 feet	Sapling

17	4199 - Other Mixed Upland Deciduous	Sapling Well	28.0	15	1-50	N/A	Stand cut under TS#101-02-01, 5 Point Foothold.
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Canopy Species	% Cover	Size Class	DBH	Age
White Ash	5	Pole	6	
Quaking Aspen	20	Sapling	4	
Balsam Poplar	60	Sapling	4	15
Balsam Fir	5	Sapling	4	
Northern White Cedar	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Currant	Medium	< 5 feet	Tall Shrub

18	4130 - Aspen	Sapling Well	83.3	25	1-50	N/A	Stand cut under TS# 110-94-01, Well Casing II. Regenerating aspen stand with scattered spruce and fir and occasional spruce/fir clumps; north half cut in 1994 and south half cut in 1995, contains pockets of denser, larger spruce. Varying dbh in the aspen, spruce and fir okay.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Sapling	2	
Bigtooth Aspen	50	Sapling/Pole	4	25
Balsam Poplar	25	Sapling/Pole	4	
Balsam Fir	8	Sapling/Pole	4	
White Spruce	2	Sapling/Pole	4	

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

19	42340 - Upland Spruce/Fir	Poletimber Medium	3.9	38	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Sapling/Pole	4	
White Spruce	55	Pole	8	38
Black Cherry	10	Sapling/Pole	4	
Balsam Fir	10	Sapling/Pole	4	
Balsam Poplar	15	Pole/Sapling	5	

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

20	4134 - Aspen, Spruce/Fir	Poletimber Well	16.5	36	1-50	N/A	Stand harvested under TS# 024-82-01, Section 17 Aspen. Balsam is scattered individual trees and in patches with spruce - mostly shorter than aspen; moderate aspen slash.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Pole/Sapling	7	36
Bigtooth Aspen	30	Pole/Sapling	7	36
Balsam Poplar	15	Pole/Sapling	6	
Balsam Fir	20	Pole/Sapling	6	
White Spruce	5	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21	42320 - Upland Spruce	Poletimber Well	11.6	41	51-80	N/A	Stand is on the low end of BA and most spruce contain one stick. Areas of loose rock on soil surface and bare patches with moss; areas of better aspen regeneration (in southern tip) but stand is mostly spruce now.
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Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	15	Sapling	2	
Balsam Fir	10	Pole/Sapling	5	
White Spruce	70	Pole/Sapling	7	41
Northern White Cedar	5	Sapling	2	

22	6120 - Lowland Cedar	Poletimber Well	12.7	160	81-110	N/A	Stand also contains white spruce, large diameter white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	7	Pole	6	
Paper Birch	8	Pole	6	
Northern White Cedar	80	Pole/Log	8	160
Black Ash	5	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	Sapling

23	4319 - Mixed Upland Forest	Sawtimber Well	11.3	112	51-80	N/A	Stand was picked through in '65. Large diameter quaking aspen snags; also contains white pine; overall upland, but very wet in spots; canopy is variable - patches of almost 100% cedar.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sap/Log	8	
Paper Birch	10	Log	12	95
Quaking Aspen	10	Log	14	
Balsam Fir	10	Pole/Log	8	
Northern White Cedar	45	Log/Pole	10	112
Black Ash	5	Pole/Sapling	6	
Yellow Birch	10	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	Sapling
White Spruce	Low	< 5 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

24	4130 - Aspen	Sapling Well	17.9	32	1-50	N/A	Stand was harvested under, The Bear-Casing Aspen sale 042-86-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Sapling	4	
Quaking Aspen	75	Sapling	4	32
Balsam Poplar	10	Sapling	4	
Balsam Fir	10	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
White Spruce	Low	10 - 20 feet	Sapling

25	6120 - Lowland Cedar	Poletimber Well	6.7	110	81-110	N/A	Stand has some very wet areas.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	8	
Bigtooth Aspen	5	Pole	8	
Balsam Fir	5	Pole/Sapling	6	
White Spruce	20	Log/Pole	10	
Northern White Cedar	55	Pole/Log	8	110
Black Ash	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Tag Alder	Low	10 - 20 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	42320 - Upland Spruce	Poletimber Medium	23.3	41	1-50	N/A	Stand is on the low end of BA. Poor tops and 1 stick spruce from the loose rock on soil surface. There are scattered openings with less than 25% tree cover.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Sapling	2	
Balsam Fir	10	Sapling	4	
White Spruce	70	Pole/Sapling	6	41
Pin Cherry	10	Sapling	2	
Northern White Cedar	5	Sapling	2	

27	4134 - Aspen, Spruce/Fir	Poletimber Well	5.1	48	1-50	N/A	Stand is variable.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Pole	8	
Bigtooth Aspen	30	Pole	8	48
Balsam Poplar	20	Pole	6	
White Spruce	20	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling

28	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	13.7	160	81-110	N/A	There is a lot of blowdown along edges and surrounding younger stand. Overall upland but contains wet spots and these wet areas contain almost all cedar.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20	Pole	6	70
Quaking Aspen	10	Pole	8	
Balsam Fir	5	Pole/Log	8	
White Spruce	10	Pole	6	

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

29	42320 - Upland Spruce	Poletimber Well	10.1	50	81-110	N/A	The larger aspen has mostly died out.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Quaking Aspen	10	Sapling/Pole	4	
Balsam Fir	5	Pole/Sapling	6	
White Spruce	65	Pole/Log	8	50
Northern White Cedar	15	Pole/Log	8	

30	4319 - Mixed Upland Forest	Sawtimber Well	15.3	88	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
Paper Birch	10	Pole/Log	8	
Bigtooth Aspen	35	Log	14	88
Balsam Fir	5	Pole	4	
White Spruce	5	Pole	8	
Northern White Cedar	35	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
31	6120 - Lowland Cedar	Sawtimber Well	6.8	90	81-110	N/A	More conifer than stand North of river (especially spruce); stand also contains black ash; tag alder near river; heavy blow down along southern edge, next to clearcut.																																															
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34	4136 - Aspen, Mixed Conifer	Poletimber Well	3.6	34	51-80	N/A	There are a few overstory 8" aspen with clumps of cedar/fir.																																															
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35	4130 - Aspen	Sapling Well	14.2	34	1-50	N/A	Stand was harvested under TS# 021-82-01, Heinz Lake sale. Loose rock at soil surface; unevenly regenerated, contains patches with no aspen.																																															
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36	3301 - Low Density Deciduous Trees	Nonstocked	1.9		Unspecified	No	One clump of aspen and scattered spruce and fir trees.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37 4130 - Aspen Sapling Well 38.4 15 1-50 N/A

Regenerating aspen stand; also contains pin cherry and clumps of spruce/fir at edge; part of 5-point Foothold, TS#101-02-01 (2005); scattered overstory paper birch at north end.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	9	
Quaking Aspen	45	Sapling	4	15
Bigtooth Aspen	15	Sapling	4	
Balsam Poplar	15	Sapling/Pole	4	15
White Spruce	5	Pole/Sapling	6	
Black Cherry	5	Sapling	3	
Balsam Fir	5	Sapling	3	

38 4134 - Aspen, Spruce/Fir Sawtimber Well 8.1 57 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Pole/Log	9	57
Balsam Poplar	10	Pole/Log	8	
Balsam Fir	15	Pole	6	
White Spruce	10	Pole	8	

39 42360 - Upland Cedar Poletimber Well 2.0 103 Unspecified N/A

Lots of windthrow at edge.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Quaking Aspen	15	Pole/Log	9	
Balsam Fir	10	Pole	5	
White Spruce	5	Pole	5	
Northern White Cedar	65	Pole/Log	9	103

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	Low	5 - 10 feet	Sapling

40 42340 - Upland Spruce/Fir Poletimber Well 5.5 45 51-80 N/A

Aspen are dying out with very little understory in heart of stand; rock at soil surface, rocky ledges; moderate slope; western "tail" of mapped stand has no log-size aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	6	
Quaking Aspen	20	Pole/Log	9	89
Balsam Fir	55	Pole/Log	8	45
White Spruce	10	Pole/Log	8	
Northern White Cedar	5	Pole/Log	8	
Tamarack	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling
White Spruce	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 4112 - Maple, Beech, Cherry Association Sawtimber Well 2.6 100 81-110 N/A Low end of BA 90. Aspen and other spp. declining. Beech is out of the stand from scale. There is nothing coming up in the understory.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Log/Pole	10	100
Red Maple	75	Log/Pole	10	100
Paper Birch	5	Log	10	
Bigtooth Aspen	5	Pole	7	
White Spruce	5	Log	10	

42 4130 - Aspen Sapling Well 8.4 11 Immature N/A Fine Nine, finished cutting 3/09

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling	3	11
Balsam Fir	5	Sapling	2	
White Spruce	5	Sapling	2	
Balsam Poplar	20	Sapling	3	
Bigtooth Aspen	20	Sapling	2	

43 4130 - Aspen Poletimber Well 30.0 34 1-50 N/A This stand was harvested under The Heinz Lake sale # 021-82-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Pole/Sapling	6	34	Balsam Fir	Low	< 5 feet	Sapling
Bigtooth Aspen	5	Pole/Sapling	6					
Balsam Poplar	15	Pole/Sapling	5					
Balsam Fir	10	Sapling	4					
Black Cherry	10	Sapling	3					
White Spruce	5	Sapling/Pole	4					

44 622 - Lowland Shrub Nonstocked 4.1 Unspecified No Beaver pond/flooded area.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High		Tall Shrub

45 4130 - Aspen Sapling Well 28.9 16 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Sapling	1	
Quaking Aspen	45	Sapling	2	16
Bigtooth Aspen	30	Sapling	1	
Balsam Poplar	10	Sapling	2	16
Balsam Fir	5	Sapling	2	
White Spruce	5	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
46	4130 - Aspen	Poletimber Well	21.3	32	51-80	N/A	Just moving into the pole category. The stand was harvested under, The Bear-Casing Aspen sale 042-86-01.																																														
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47	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	25.1	89	51-80	N/A	There are ponds/wet spots with tag alder through out the entire stand. Would need to harvest on frozen or very dry ground to protect the soils. It is possible to work around cedar. South end of the stand has all but cedar falling out.																																														
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48	6120 - Lowland Cedar	Sawtimber Well	23.0	125	81-110	N/A	There are many areas of wind-throw. Less cedar and more open to the north with small canopy gaps.																																														
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49	42340 - Upland Spruce/Fir	Poletimber Well	11.5	60	51-80	N/A	Contains large white pine in overstory. The stand is drier in northern with more black spruce and cedar in south.																																														
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50	3303 - Mixed Low Density Trees	Nonstocked	26.3		Immature	No	Filling in with white spruce.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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51 4319 - Mixed Upland Forest Sawtimber Well 9.0 75 51-80 N/A Aspen starting to die; significant softwood volume in understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Log/Pole	10		Balsam Fir	Medium	>20 feet	Pole
Quaking Aspen	35	Log/Pole/XLog	14	75				
Balsam Fir	20	Pole/Sapling	6					
White Spruce	25	Pole/Log	8					

52 4130 - Aspen Poletimber Well 10.4 35 51-80 N/A Stand was harvested under TS# 021-82-01, Heinz Lake Sale. Some supercanopy quaking aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole/Sapling	6	35	Balsam Fir	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	30	Sapling/Pole	6		White Spruce	Medium	10 - 20 feet	Sapling
Balsam Poplar	40	Sapling	4	35				

53 622 - Lowland Shrub Nonstocked 8.9 No Beaver flooding killing trees.

54 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 10.9 110 81-110 N/A Moderately dense understory with poor quality hardwood overstory.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole	6	
Red Maple	50	Log/Pole	10	110
Paper Birch	5	Log/Pole	12	
Quaking Aspen	20	Log	10	
Balsam Fir	10	Pole	6	
White Spruce	10	Log/Pole	12	

55 4319 - Mixed Upland Forest Sawtimber Well 16.1 100 81-110 N/A Open understory - easy to walk around. The middle of stand contains more BAM, large yellow birch; central and eastern parts are wet, lots of slash, more cedar scattered openings; lots of cedar in most of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Sapling/Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Yellow Birch	2	Log	14					
Paper Birch	10	Log/Pole	10					
Balsam Poplar	25	Log/Pole	10					
Balsam Fir	4	Pole	6					
White Spruce	5	Log	12					
Northern White Cedar	50	Log/Pole	10	100				

56 4130 - Aspen Sapling Well 12.1 15 Immature N/A Stand cut under TS#101-02-01, 5 Point Foothold.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling	2	15	Balsam Fir	Low	< 5 feet	Sapling
Balsam Poplar	10	Sapling	2		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
57	42340 - Upland Spruce/Fir	Poletimber Well	17.8	73	51-80	N/A	Variable stand; overall upland but with some wet spots; some openings and wet spots with tag alder; spruce and fir have lots of dead limbs in understory; some aspen starting to die out																																									
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58	6120 - Lowland Cedar	Poletimber Medium	15.8	67	1-50	N/A	Stand is expanding because of high water table.																																									
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59	4139 - Aspen, Mixed Deciduous	Sapling Well	8.6	15	1-50	N/A	Regenerating clearcut with reserves TS# 101-02-01, 5 Point Foothold; individual, scattered log-size paper birch.																																									
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60	6120 - Lowland Cedar	Sapling Poor	8.0	112	1-50	N/A	flooded beaver pond, barely 25% live tree cover, lots of dead cedar; shrub ID is uncertain																																									
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61	6120 - Lowland Cedar	Sawtimber Well	660.9	135	81-110	N/A	Variable stand, contains areas of other types (Q, P) but they aren't large enough to be their own stands; aspen and birch are starting to die out in many of these areas; Small patch of hardwoods at end of Well Casing Rd near North Branch of Milakokia River; Stand also contains: scattered large white pine in overstory, black ash, yellow birch, red maple, hemlock, tamarack; North Branch of the Milakokia River is not mapped correctly, especially northern and southern sections, central section is mapped more accurately; contains numerous other unmapped stream segments and wet areas, including moderately large stream in section south of Milakokia River; ground is uneven, wet spots contain sphagnum, ferns and wetland shrubs (e.g. labrador tea); higher ground supports white pine etc slash is dense and windthrow is heavy in many areas, especially at edges of the stand dense understory in many places																																																								
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62	6118 - Lowland Deciduous with Cedar	Sawtimber Well	19.2	98	81-110	N/A																																																									
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63	4319 - Mixed Upland Forest	Poletimber Well	51.9	135	51-80	N/A	Could not make it to the stand due to high water. There is potential bridge location at the end of stand 56 for access so you don't have to go through PVT. 2010 comments: variable stand, contains pockets of almost all cedar (central section) and at least 1 small black spruce bog (southeast corner). Creek on the west side of the stand.																																																								
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64	6121 - Tamarack	Poletimber Medium	16.5	117	51-80	N/A	Did not make it to the stand due to high water table. 2010 comments: Wet, possibly flooded by adjacent beaver pond; lots of grasses on forest floor																																																								
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65	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.7	110	111-140	N/A	Did not make it to the stand because of the high water table. Access from stand 63. 2010 comments: Thick limby balsam in understory; aspen in understory is dense in patches; cedar at edges; hilly topography; short regen is heavily browsed; aspen heavier in some pockets, birch in other.																																															
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66	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	12.2	97	51-80	N/A	Did not make it to the stand due to high water. 2010 comments: overall upland but with wet spots and small, drier ridges; red maple regen is dense in places; at least 1 large yellow birch. What is 3B for? use access to east to get to these stands.																																										
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67	622 - Lowland Shrub	Nonstocked	6.8			No	Area flooded by beavers, lots of standing dead cedar
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68	6118 - Lowland Deciduous with Cedar	Poletimber Well	10.5	97	51-80	N/A	Did not make it to the stand due to high water and time. 2010 comments: Variable stand, black ash in patches.																																															
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69	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.6	21	51-80	N/A	Heavy browse on red maple in sub-canopy; part of Heinz Lake timber sale, TS# 034-90-01 (1999); softwood inclusion in northern half contains larger diameter fir, spruce & BAM (6") and a little cedar and paper birch. Average diameter in rest of stand is 1-2" for all species,																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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70 4190 - Mixed Upland Deciduous with Cedar Sawtimber Well 28.2 88 81-110 N/A Did not make it to the stand due to high water and time. 2010 comments: aspen starting to die out; overall upland but w/ wet spots.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	30	Log	10					
Balsam Poplar	15	Log/XLog	14					
Balsam Fir	3	Pole	6					
White Spruce	2	Log/XLog	14					

71 6120 - Lowland Cedar Poletimber Medium 45.9 75 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Sapling	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	90	Sapling/Pole	6	75				
Tamarack	5	Sapling/Pole	6					

72 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 6.5 97 81-110 N/A

Did not make it to the stand due to high water and time. 2010 comments: Overall upland but with wet spots, especially at edges; Black spruce bog to southwest; Variable stand, extremely heavy balsam understory in places; Aspen and birch are starting to die out.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log	12		Balsam Fir	High	Variable	Sapling
Paper Birch	30	Pole/Log	6	97	Black Spruce	Medium	5 - 10 feet	Sapling
Balsam Poplar	20	Log/Pole	10	135				
Balsam Fir	10	Pole/Log	8					
White Spruce	10	Pole/Log	8					
Black Spruce	5	Pole	8					
Northern White Cedar	5	Pole	8					

73 42360 - Upland Cedar Sawtimber Well 2.3 128 81-110 N/A

Large diameter yellow birch trees at west edge of stand next to Stand 60; also contains white spruce. Retention from Soggy Stalks Hardwood sale (2003); some slash but not major blowdowns of other stands.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Log/XLog	16		Yellow Birch	Low	>20 feet	Pole
Northern White Cedar	90	Pole/Log	12	128	Paper Birch	Low	>20 feet	Sapling

74 4139 - Aspen, Mixed Deciduous Sapling Well 6.1 23 1-50 N/A Stand cut under TS# 017-96-01, Yeti Sale. Low deer browse.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Sapling	2	23	Balsam Fir	Low	< 5 feet	Sapling
Bigtooth Aspen	25	Sapling	2		White Spruce	Low	< 5 feet	Sapling
Balsam Poplar	40	Sapling	2	23				
Balsam Fir	10	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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75	622 - Lowland Shrub	Nonstocked	9.9			No	Area flooded by beavers. Lots of standing dead cedar.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Tag Alder	High		Tall Shrub
								Northern White Cedar	Low		Sapling

76	622 - Lowland Shrub	Nonstocked	12.2		Unspecified	No	Close to 25% live tree canopy, area has been flooded by beavers. Includes some dead cedar, but not as much as other beaver ponds in this compartment.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Tamarack	Low		Sapling
								Tag Alder	High		Tall Shrub
Northern White Cedar	Medium		Sapling								

77	4319 - Mixed Upland Forest	Sawtimber Well	13.6	105	51-80	N/A	Did not make it to the stand due to time. Not sure how to access the stand for a treatment unless a winter road is made through the cedar stand. 2010 comments: Birch and aspen starting to die; dense red maple regen in @ least 1 spot. Access from the east?					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Log/Pole	10	
								Paper Birch	30	Log/Pole	12	105
								Balsam Poplar	10	Log/Pole	10	
								Balsam Fir	5	Pole	6	
								White Spruce	5	Pole/Log	8	
								Northern White Cedar	25	Log/Pole	10	96
								White Pine	20	Log	18	
								Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	Low	10 - 20 feet	Sapling									
Balsam Fir	Low	Variable	Sapling									
Northern White Cedar	Low	< 5 feet	Sapling									

78	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.5	17	1-50	N/A	Part of Soggy Stalks Hardwood TS#102-02-01, (2003); birch was retention; also contains red maple					
								Canopy Species	% Cover	Size Class	DBH	Age
								Yellow Birch	15	Log/Pole	10	89
								Paper Birch	40	Sapling/Pole	3	17
								White Spruce	5	Log	10	
								Northern White Cedar	15	Log/Pole	12	
								Red Maple	25	Sapling	3	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	5 - 10 feet	Sapling	
								Balsam Fir	Low	5 - 10 feet	Sapling	
White Spruce	Low	< 5 feet	Sapling									
Blackberry/Raspberry	High	< 5 feet	Tall Shrub									
Birch (spp.)	Low	5 - 10 feet	Sapling									

79	42360 - Upland Cedar	Sawtimber Well	1.7	125	51-80	N/A	Part of cedar stand in Comp 194.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	3	Log/Pole	10	
								Yellow Birch	5	Log/Pole	10	
								Paper Birch	2	Pole/Log	8	
								White Spruce	3	Log	12	
								Northern White Cedar	87	Pole/Log	8	125



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
80	42340 - Upland Spruce/Fir	Poletimber Medium	6.0	46	51-80	N/A	Variable stand, just coming into pole size class. Wet in areas and more small cedar on the west side of the stand.																																													
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81	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	92.1	17	1-50	N/A	Regenerating clearcut with retention (Soggy Stalks Hardwood, 102-02-01, cut 2003); scattered log-size white pine (and white pine snags) in super canopy.																																													
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