



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41132

Entry Year 2023

Acreage: 1,907

County Alger

Management Area: Pictured Rocks Buffer

Stand Examiner: Bob Burnham

Legal Description:

T49N R15W sections 22, 23, 25, 26, 27, 34, 35, and 36

Identified Planning Goals:

To provide multiple use benefits for the citizens of Michigan.

Soil and topography:

Rubicon sand in upland pine areas, AuTrain sand in Preacher Lake Hardwood area. Topography varies throughout the compartment, there is a bluff on the northern and eastern portions. The land in section 36 mostly sits beneath a bluff as well and is lowlands.

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

Sections 22 and 23 fall within the Pictured Rocks National Lakeshore buffer zone. There is State ownership to the west of this compartment - mainly pine types. The rest of the compartment is mainly surrounded by Hancock Forest Management, most of this is under Conservation Easement..

Unique Natural Features:

The Hurricane River headwaters and associated swamp are in sections 25 and 36.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains Hurricane River. Hurricane River supports a native brook trout population, experiences spawning migrations for Coho salmon and steelhead. Hurricane River also exhibits the potential for coaster brook trout to utilize the river. Hurricane River is a designated trout stream less than 50 ft in width. A 300 ft buffer is recommended for Hurricane River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100 ft plus 5 ft per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is located within the Grand Marais Sandy End Moraine Outwash sub-subsection. The average growing season is approximately 120 days. The extreme winter temperature generally reaches approximately -35 F. Snowfall in this compartment averages 160 inches or more annually. General Land Office (GLO) Surveyor notes indicate that the upland forest contained a mixture of softwood and hardwoods. Principle species included white pine, hemlock, yellow birch, beech, balsam fir, red pine, cedar, sugar maple, and red maple. Lowlands contained cedar, black spruce, and tamarack. Windthrow and fire were likely the major sources of natural disturbance. Current forests appear to have shifted toward a heavier pine component than was found in the presettlement condition. In particular, white pine plays a larger role in present day ecology of the area, while the hardwood species appear to have been reduced. Wildlife habitat objectives include restoring large diameter deciduous trees to the landscape, increasing hard mast production through oak planting, protecting and enhancing hemlock across the landscape, recreating the interior forest characteristic by planting trees in old logging roads, and providing within stand diversity. There are no known occurrences of endangered, threatened, or special concern species within this compartment. Common loons could potentially use Preacher Lake. Other species of interest in this compartment include black-throated blue warblers, hairy woodpecker, marten, fisher, and black bear.

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. No active mineral production is known to occur in the area. There may be some potential for sand within the compartment. There is no other known mineral potential within the compartment, and no current mineral leasing activity exists in the area.

Vehicle Access:

The Hurricane Truck Trail runs through the middle of the Compartment, this road is also referred to as Beaver Meadow Road on some maps, it is a county road and also a Snowmobile Trail. H-58 is located to the north. Access is good to most of the compartment except the land located in Section 36, access to this parcel is difficult.

Survey Needs:

Stand are appropriately factored to illustrate needs in Sections 14,22,23 and 25.

Recreational Facilities and Opportunities:

H-58 offers access to the Pictured Rocks National Lakeshore and is also Snowmobile trail 89 in the winter. The Hurricane truck Trail (Beaver Meadow Road) is also a Snowmobile Trail (Trail 8).

Fire Protection:

Lightning strikes are a concern in this area but more of a concern is the potential for human caused fires from campfires due to the explosion in dispersed camping in recent years due to the Pictured Rocks growing popularity.

Additional Compartment Information:

The following reports from the Inventory are attached:

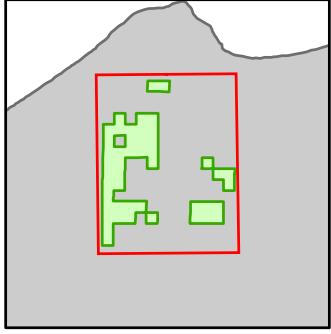
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

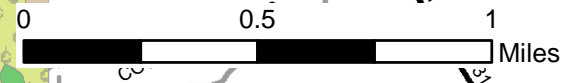
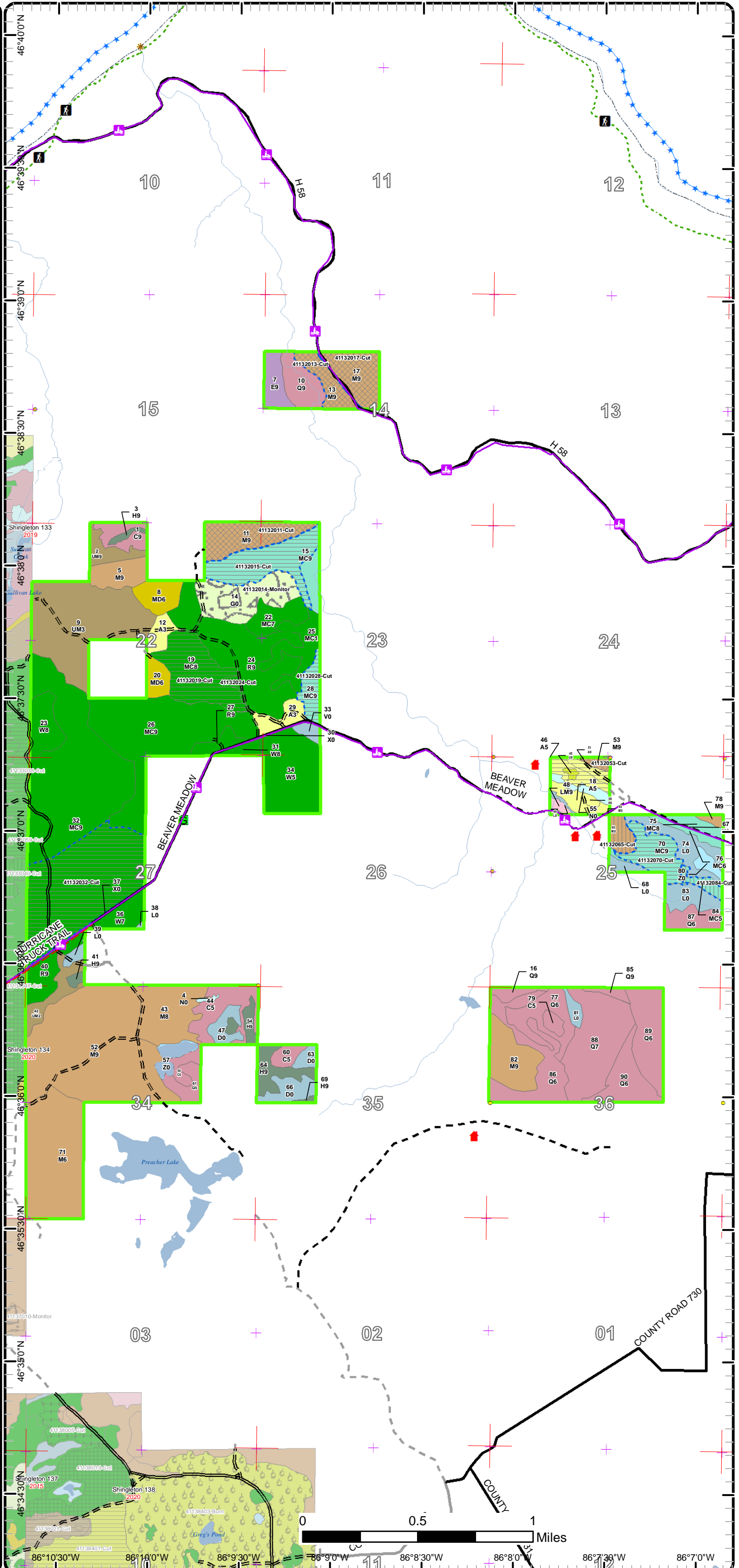
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 132
 T49N R15W Sec. 14, 22, 23, 25-27, 34-36
 County: Alger
 Unit: Shingleton
 Mgmt Area: Pictured Rocks Buffer
 YOE: 2023
 Acres: 1907.3 GIS Calculated
 Examiner: Bob Burnham
 Map Revised: 2/9/2022
 Map Phase: Post Review



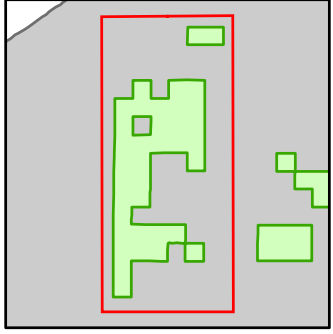
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Forest Access Route
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- Lake/Pond
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- Lakes and Rivers
- Cabin
- Gate
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 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
- 622 - Lowland Shrub
- 623 - Emergent Wetland



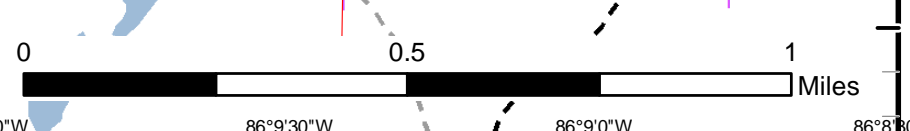
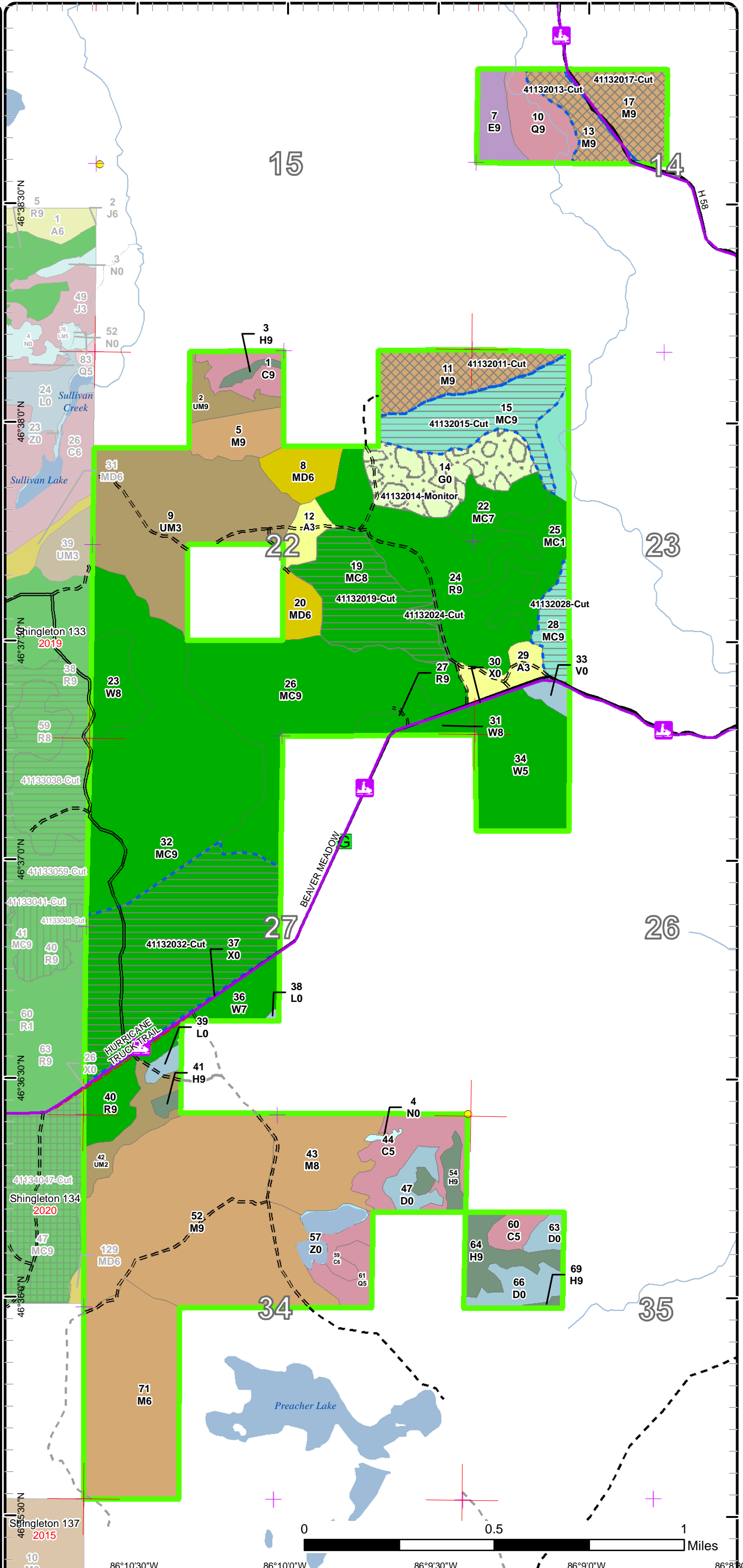
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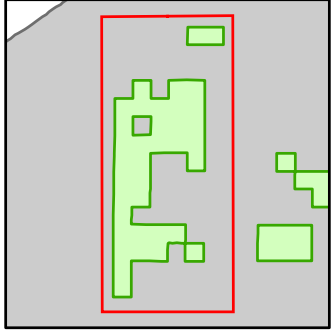


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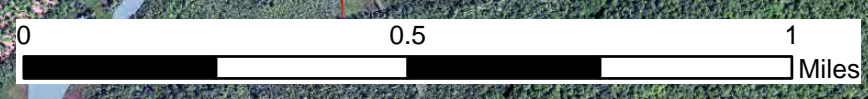
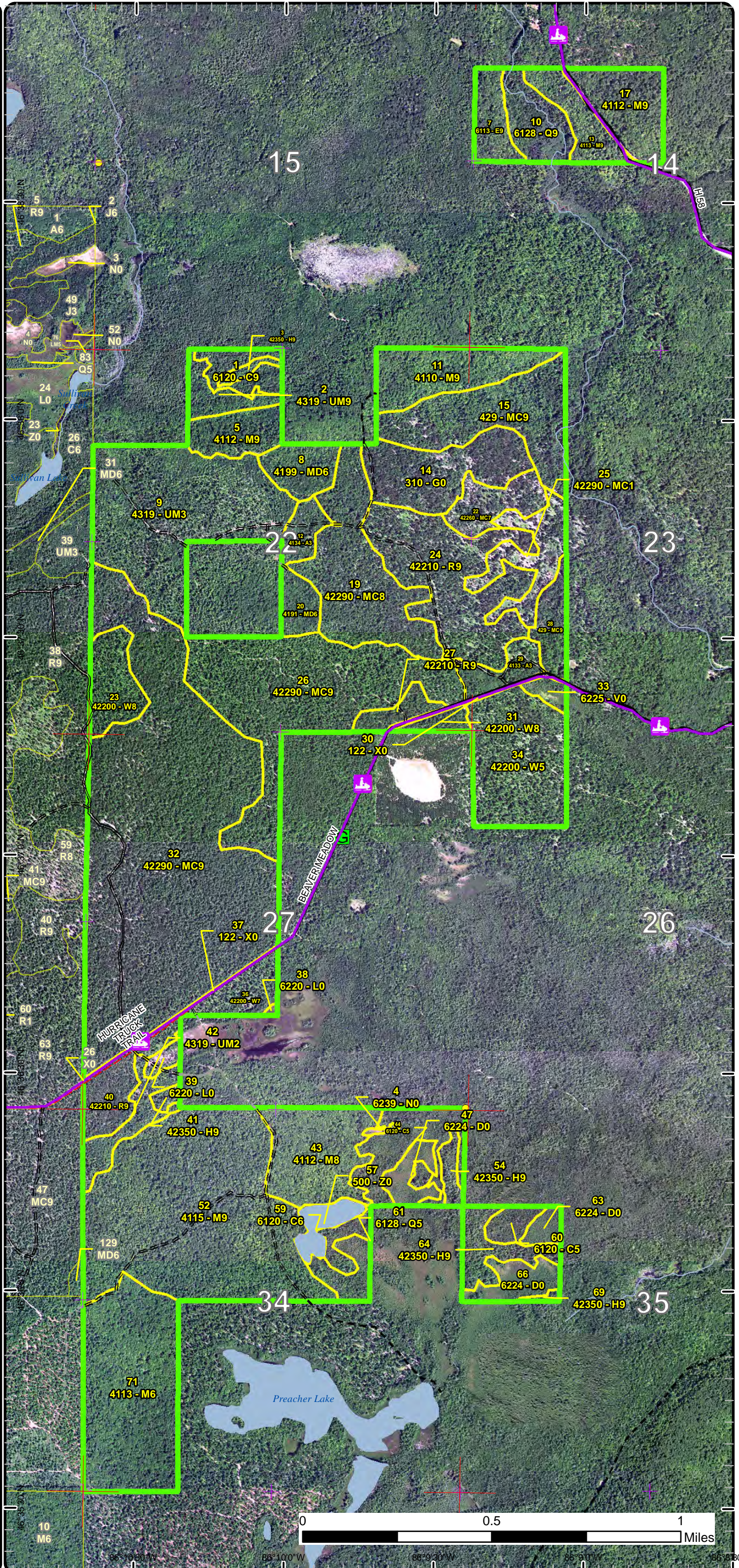


Stand Boundary Map

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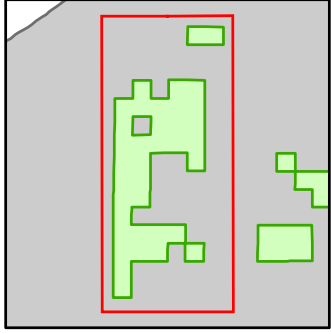
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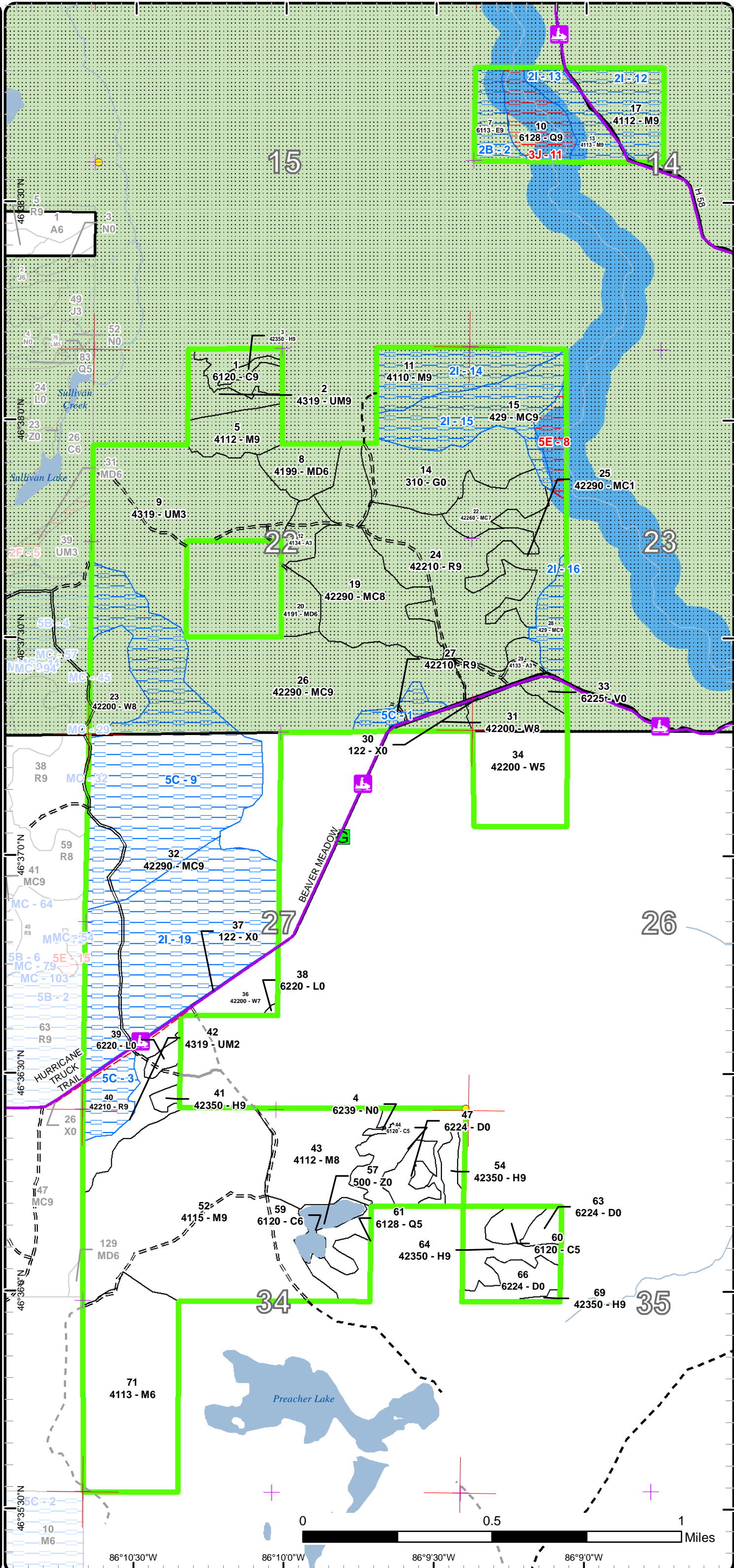
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Special Conservation Areas

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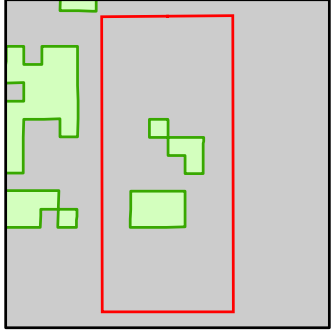


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- 2I: Survey needed
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- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area

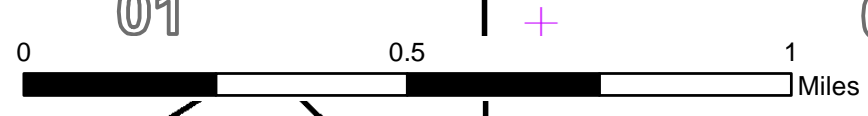
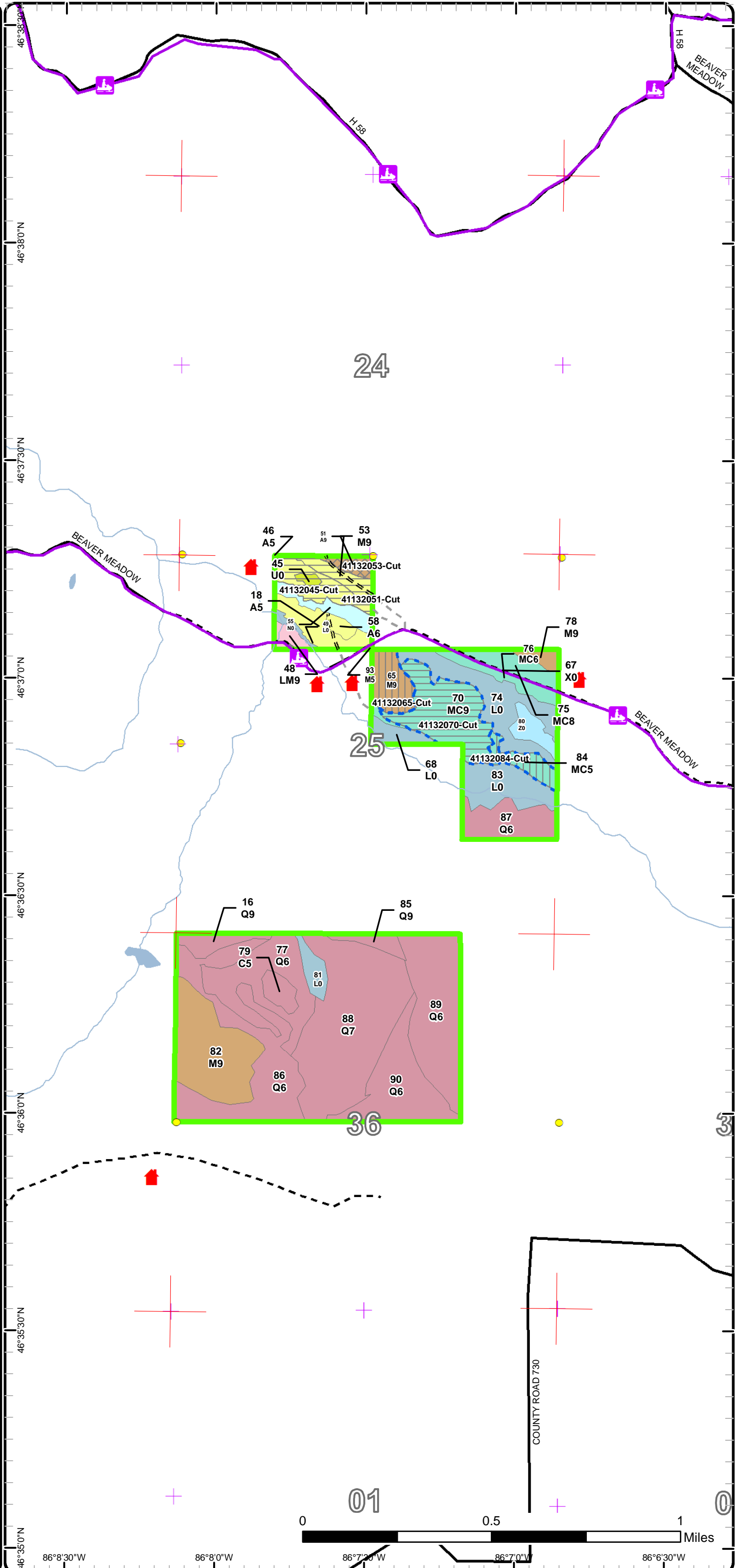


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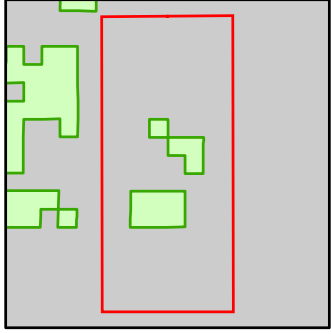
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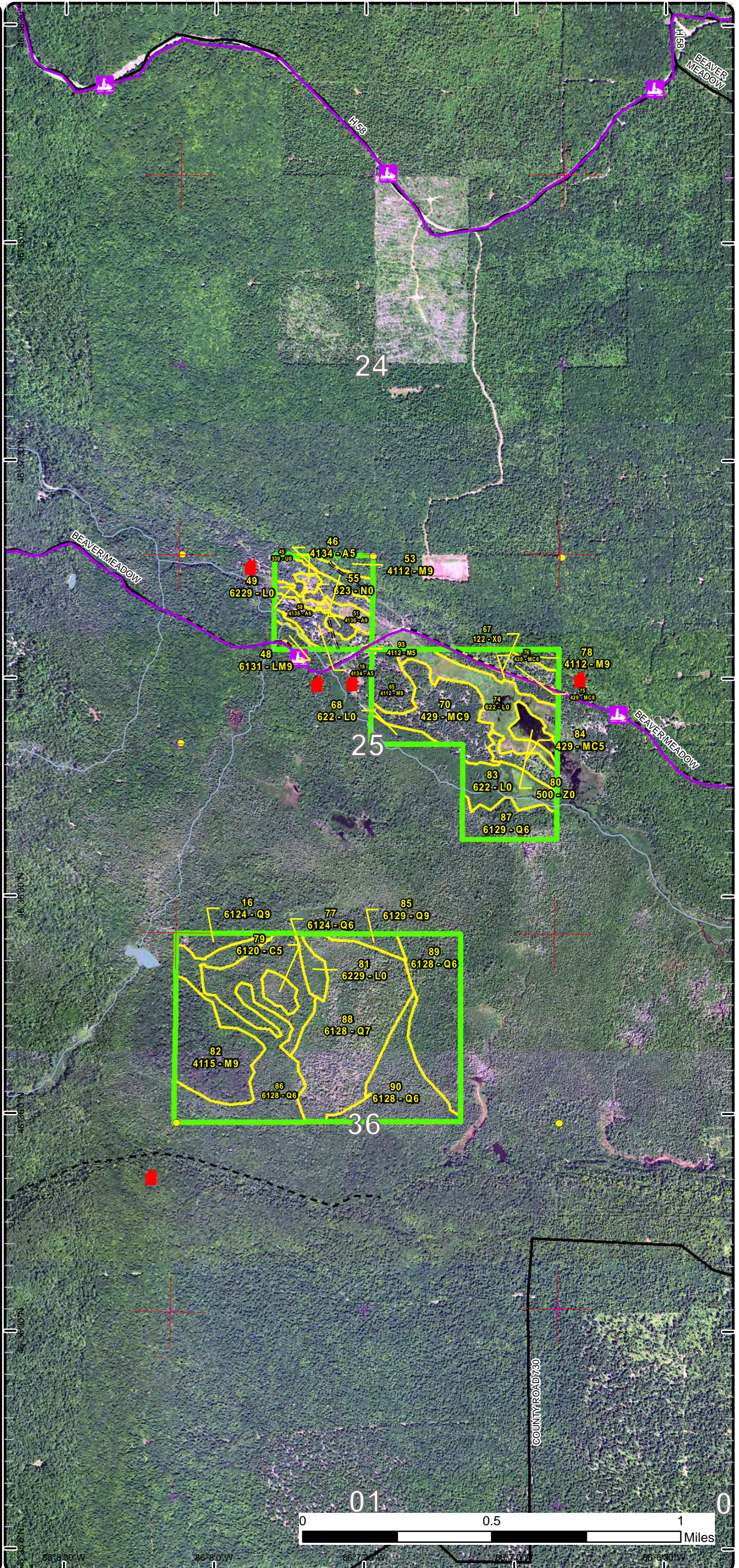
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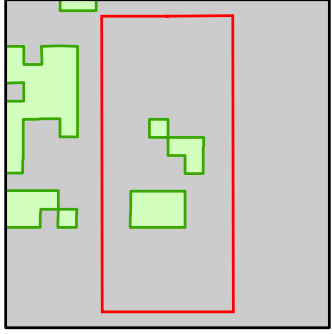


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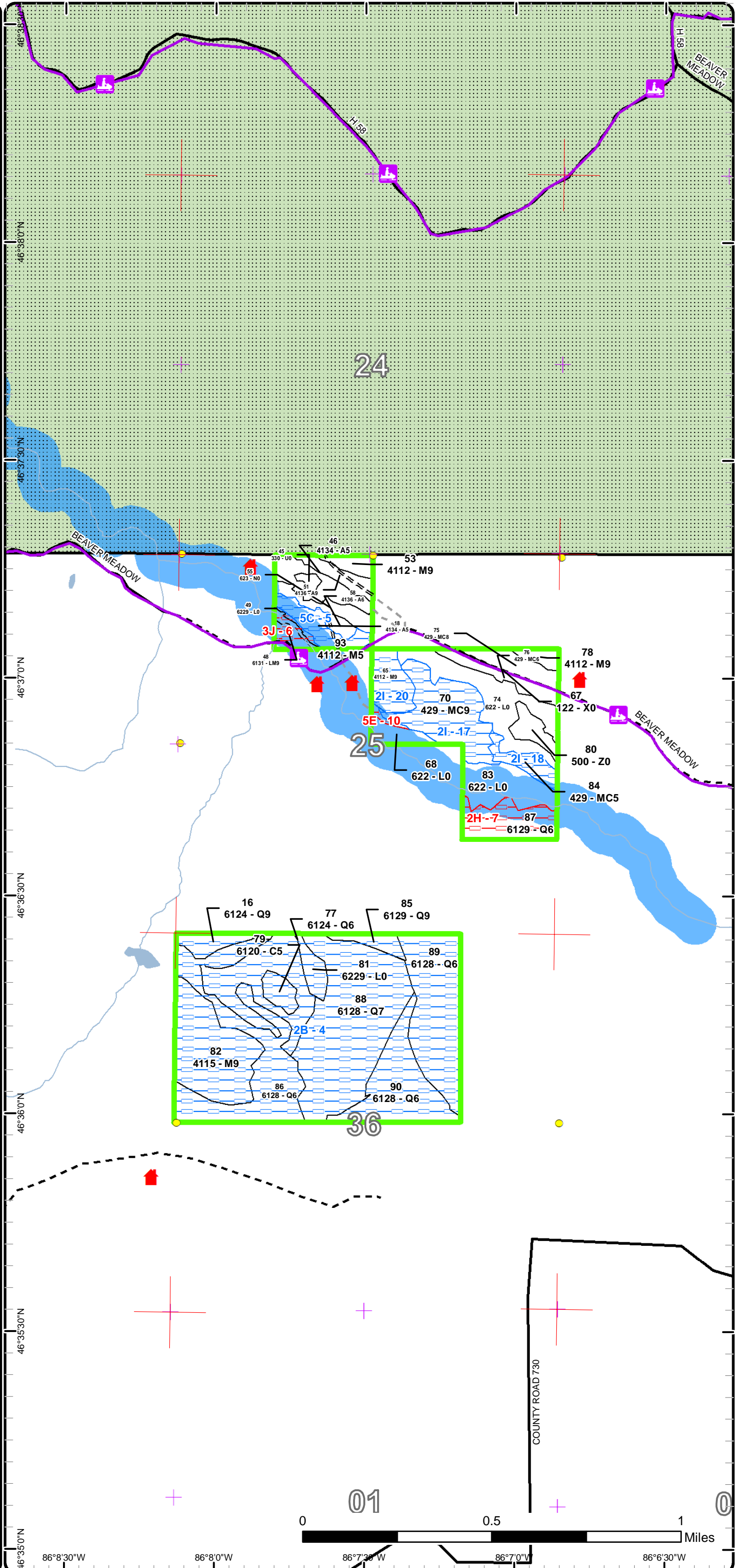


Special Conservation Areas

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- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- ▭ Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- ▭ Stand Boundaries
- ▭ SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area





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	0	21	0	9	12	0	5	0	0	0	0	0	0	0	0	0	47
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	26	0	5	26	0	0	0	0	0	0	0	56
Hemlock	0	0	0	0	0	0	0	0	0	2	23	1	3	0	0	0	0	0	29
Herbaceous Openland	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	0	0	0	11	72	148	15	0	0	0	0	0	0	245
Lowland Deciduous	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Lowland Mixed Forest	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Lowland Shrub	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25
Natural Mixed Pines	0	0	24	0	0	0	18	0	0	62	107	269	0	0	0	0	0	0	480
Northern Hardwood	0	0	0	0	0	0	0	0	373	27	0	0	0	0	0	0	0	28	428
Red Pine	0	0	0	0	0	0	0	0	69	0	24	0	0	0	0	0	0	0	93
Treed Bog	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Upland Conifers	0	0	0	0	0	6	85	0	7	13	0	0	0	0	0	0	0	0	111
Upland Mixed Forest	0	0	0	115	0	0	0	0	0	11	0	0	0	0	0	0	0	0	126
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	0	0	0	0	0	99	0	0	0	0	0	0	0	98
Total	151	0	24	136	0	40	115	26	482	192	427	285	3	0	0	0	0	28	1905



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 132

Total Compartment Acres: 1,907

Commercial Harvest - 71
 Harvests with Site Condition - 297
 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	14	0	0	0	0	0	0	0	0	14
Low-Density Trees	1	0	0	0	0	0	0	0	0	1
Natural Mixed Pines	171	0	0	0	0	0	0	0	0	171
Northern Hardwood	0	81	0	0	10	0	0	0	0	91
Red Pine	3	0	0	0	0	0	0	0	0	3
Upland Conifers	82	0	0	0	6	0	0	0	0	87
Total	271	81	0	0	16	0	0	0	0	368

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	368	0	0	0	0	0	41	0	0	409
Next Step	0	199	174	0	0	174	541	1	0	1089
Total	368	199	174	0	0	174	581	1	0	1497



Standard

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:

11	41132011-Cut	32.8	4110 - Sugar Maple Association	Sawtimber Well	79	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand per Compleat Marker Standards with a target BA of 80 square feet.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of current species but try to discourage beech if possible.

Regen:

Other This stand should be delayed along with stand 15 until green-up is met for stand 14.

Comment:

Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

13	41132013-Cut	17.1	4113 - R.Maple, Conifer	Sawtimber Well	89	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark to 80 BA concentrating on making quality regen gaps and keeping visuals in mind as this stand sits adjacent H-58 and Pictured

Specs: Rocks. Designate all spruce and fir.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of the current species on-site

Regen:

Other Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

14	41132014-Monitor	40.6	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Looking for a mix of species including jack pine aspen, fir, paper birch, white pine, red pine and maple.

Specs:

Next Step

Treatments:

Acceptable Looking for a mix of species including jack pine aspen, fir, paper birch, white pine, red pine and maple.

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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15	41132015-Cut	43.3	429 - Mixed Upland Conifers	Sawtimber Well	59	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Clear cut stand, retention will be the river buffer. Leave all hemlock and most white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of the current species on-site.

Regen:

Other Harvest will need to be delayed to meet green-up requirements in stand 14.

Comment:

Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

17	41132017-Cut	27.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	96	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
----	--------------	------	---	----------------	----	---------	---------	-----------------------	-------------------------	-------------	----

Prescription Mark to 80 BA concentrating on making quality regen gaps and keeping visuals in mind as this stand sits adjacent H-58 and Pictured

Specs: Rocks. Designate all spruce and fir.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of current species on site.

Regen:

Other Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

19	41132019-Cut	48.7	42290 - Natural Mixed Pine	Sawtimber Medium	80	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all live and dead trees to 2 inches to manage for red pine. Retention is part of the parent stand.

Specs:

Next Step SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial

Treatments: Regen(3yr)

Acceptable Red Pine

Regen:

Other Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
24	41132024-Cut	3.0	42210 - Natural Red Pine	Sawtimber Well	73	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all trees live and dead.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Treatments: Regen(3yr)</p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> This is just a small portion of a large stand, retention is in the parent stand.</p> <p><u>Comment:</u> Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
28	41132028-Cut	13.1	429 - Mixed Upland Conifers	Sawtimber Well	86	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak. Some white pine should be left for seed. Retention will be a patch.</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> Mix of species currently on-site</p> <p><u>Regen:</u></p> <p><u>Other</u> Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
32	41132032-Cut	122.2	42290 - Natural Mixed Pine	Sawtimber Well	100	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut stand and manage for red pine. Cut all live and dead trees down to 2 inches. Retention will be part of the parent stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Treatments: Regen(3yr)</p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
45	41132045-Cut	1.4	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Clearcut	31021 - Cool Season Grass		No
<p><u>Prescription</u> Harvest stand with adjacent stands. This will get the small opening cleaned up. Cut everything except oak down to 2 inches.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Other, Other</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Grass</p> <p><u>Regen:</u></p> <p><u>Other</u> No retention due to this being only a 1.4 acre stand.</p> <p><u>Comment:</u> Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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46	41132046-Cut	9.1	4134 - Aspen, Spruce/Fir	Poletimber Medium	46	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees except oak and hemlock. Cut all deciduous except oak to 2 inches. Retention can be left along southern marsh edge.
Specs:

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

Acceptable Mix of current species on-site
Regen:

Other Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

51	41132051-Cut	5.1	4136 - Aspen, Mixed Conifer	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees except oak and hemlock. Cut all deciduous except oak to 2 inches. Retention can be left as a patch.
Specs:

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

Acceptable Mix of current species on-site
Regen:

Other Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

53	41132053-Cut	3.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	71	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark to Complete Marker standards with a residual BA of 80 square feet.
Specs:

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

Acceptable Mix of current species on-site.
Regen:

Other Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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
65 41132065-Cut	9.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	81-110	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription Specs:</u> Leave 30-40 square feet of healthy deciduous trees. Try to encourage lesser occurring trees if possible like black cherry. Remove all merchantable spruce and fir.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of the current species.</p> <p><u>Other Comment:</u> There are many over-sized trees, leave some of these that are or could be cavity producers. Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
70 41132070-Cut	25.1	429 - Mixed Upland Conifers	Sawtimber Well	56	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut stand due to forest health concerns. Cut everything except oak and hemlock. With the amount of jack pine in the stand anchor chaining the stand may be beneficial. Retention will be a patch which is already excluded.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A mix of current species on-site.</p> <p><u>Other Comment:</u> Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
84 41132084-Cut	5.9	429 - Mixed Upland Conifers	Poletimber Medium	51	1-50	Harvest	Shelterwood	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription Specs:</u> Leave most white pine and remove all else except oak and hemlock if present.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of current species on-site.</p> <p><u>Other Comment:</u> Compartment Review Decision/Discussion; Unless a Roost Tree is found, no restriction needed for Northern Long Eared Bat.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 408.6

Report 4 – Site Conditions

Shingleton Mgt. Unit
Bob Burnham : Examiner

Compartment: 132
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions								
		With Condition				2B	2I	5C	2H	3J	5E			
47	37	9		1	Aspen			9			1			
4	4	0		0	Bog									
56	51	4		0	Cedar	4								
29	29	0		0	Hemlock									
41	41	0		0	Herbaceous Openland									
1	1	0		0	Low-Density Trees									
245	11	200		34	Lowland Conifers	200				15	20			
14	0	14		0	Lowland Deciduous	14								
3	0	0		3	Lowland Mixed Forest						3			
52	46	5		1	Lowland Shrub	5					1			
7	7	0		0	Marsh									
25	25	0		0	Mixed Upland Deciduous									
479	210	269		0	Natural Mixed Pines		122	146						
429	309	120		0	Northern Hardwood	32	88							
93	69	24		0	Red Pine			24						
27	27	0		0	Treed Bog									
111	13	87		11	Upland Conifers		87						11	
126	126	0		0	Upland Mixed Forest									
5	5	0		0	Urban									
14	14	0		0	Water									
99	99	0		0	White Pine									
1,907	1,126	731		50	Total Forested Acres	255	297	179	15	25	11			
	59%	38%		3%	Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Bob Burnham : Examiner

Compartment: 132
 Year of Entry: 2023

2	Available	2B: Unknown if access through adjacent landowner(s) is possible	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	241	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: difficult access.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: across hurricane river							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Bob Burnham : Examiner

Compartment: 132
 Year of Entry: 2023

8	Unavailable	5E: Long-Term Retention	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	146	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2I: Survey needed	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	2I: Survey needed	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Bob Burnham : Examiner

Compartment: 132
 Year of Entry: 2023

15	Available	2I: Survey needed	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2I: Survey needed	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	2I: Survey needed	122	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	2I: Survey needed	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	6120 - Lowland Cedar	Sawtimber Well	12.3	91	111-140	N/A	This stand is mostly cedar with some large hemlock, yellow birch, and red maple too.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Hemlock</td> <td>20</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Log/Pole</td> <td>10</td> <td>91</td> </tr> <tr> <td>Yellow Birch</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Hemlock	20	Log/Pole	10		Northern White Cedar	60	Log/Pole	10	91	Yellow Birch	10	Pole/Sapling	5		Red Maple	10	Pole/Sapling	5		<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>Hemlock</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hemlock	Low	< 5 feet	Sapling	Red Maple	Low	< 5 feet	Sapling	Balsam Fir	Medium	< 5 feet	Sapling	Northern White Cedar	Medium	< 5 feet	Sapling						
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2	4319 - Mixed Upland Forest	Sawtimber Well	11.4	87	81-110	N/A	This stand contains dead and decaying paper birch.																																															
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3	42350 - Upland Hemlock	Sawtimber Well	2.6	111	141-170	N/A	This is a hemlock dominated ridge in the middle of a cedar swamp.																																															
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Hemlock	Low	< 5 feet	Sapling																																																			
4	6239 - Mixed Emergent Wetland	Nonstocked	0.8	0	Unspecified	No																																																
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.8	73	81-110	N/A	Stand was thinned down to around 70-90 BA with 3-5 regeneration holes per acre. Large trees over 22 inches in dbh were left along with yellow birch and conifers. This was done under TS# 026-03 Hurricane Drumming Pine. This stand also contains a lot of beech flush from BBD.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	6113 - Lowland Maple	Sawtimber Well	14.1	76	111-140	N/A	There are a lot of large, log trees with a lot of regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole	8		White Spruce	Low	10 - 20 feet	Sapling
Beech	10	Pole	8		Balsam Fir	Low	< 5 feet	Sapling
Sugar Maple	10	Pole	7		Maple (spp.)	Medium	10 - 20 feet	Sapling
White Pine	5	Log	14		Beech	Low	>20 feet	Sapling
Red Maple	60	Log/Pole	12	76	Hemlock	Medium	>20 feet	Sapling
Hemlock	10	Log	12		White Pine	Low	10 - 20 feet	Sapling

8	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.3	46	1-50	N/A	This is a poor hardwood site that was thinned heavily in the past. There are mostly sapling sized hardwood species present with a few large red maple, beech, and hemlock trees scattered around.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	10	Log	10		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	2	Pole/Sapling	6		Beech	Medium	5 - 10 feet	Sapling
Paper Birch	15	Pole/Sapling	6		White Pine	Low	< 5 feet	Sapling
Red Maple	15	Log	16	84	Red Maple	High	< 5 feet	Sapling
Yellow Birch	5	Sapling/Pole	4		Hemlock	Medium	5 - 10 feet	Sapling
Hemlock	10	Log	14					
Red Maple	35	Sapling	4	46				
Quaking Aspen	3	Sapling/Pole	4					
Hemlock	5	Sapling	4					

9	4319 - Mixed Upland Forest	Sapling Well	98.7	24	1-50	N/A	This stand was cut in 1997-98, with scattered white pine and red pine left as residuals. Under FTP # W41-1076 inmates handplanted red pine along logging roads. This stand is now dominated by 10-20 ft. balsam fir with other conifer and hardwood species mixed in.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Sapling	3		Canadian Yew	Low	5 - 10 feet	Tall Shrub
Red Pine	2	Sapling	2					
Red Oak	2	Pole	7					
Balsam Fir	20	Sapling	3	24				
Hemlock	5	Log	10					
Jack Pine	2	Pole/Sapling	5					
White Spruce	5	Sapling/Pole	4					
White Pine	15	Log	16	79				
Paper Birch	4	Sapling	3					
Red Maple	15	Sapling	3					
White Pine	10	Sapling	3					
Red Pine	10	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 19.9 91 81-110 N/A This stand encompasses the Hurricane River and contains a variety of lowland conifer tree species and other riparian oriented plant species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	20	Log/Pole	12		Beech	Low	< 5 feet	Sapling
Northern White Cedar	20	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Red Maple	25	Pole	8	91	White Spruce	Medium	>20 feet	Sapling
White Pine	10	XLog/Log	20		Red Maple	Medium	>20 feet	Sapling
Balsam Fir	15	Log/Pole	10					
Hemlock	10	XLog/Log	18					

11 4110 - Sugar Maple Association Sawtimber Well 32.8 79 111-140 N/A The beech has mostly fallen out of the stand but the maple could support a harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	14		Sugar Maple	Medium	10 - 20 feet	Sapling
Beech	3	Pole/Log	9		Beech	Medium	5 - 10 feet	Sapling
White Pine	2	XLog/Log	18		Red Maple	Medium	10 - 20 feet	Sapling
Sugar Maple	80	Log/Pole	14	79				

12 4134 - Aspen, Spruce/Fir Sapling Well 9.1 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling/Pole	4		White Spruce	Low	10 - 20 feet	Sapling
White Spruce	10	Sapling/Pole	4		Quaking Aspen	Medium	5 - 10 feet	Sapling
Red Maple	15	Sapling/Pole	4		Red Pine	Low	< 5 feet	Sapling
White Pine	5	Log	14		Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	55	Sapling/Pole	4	25	Red Maple	Medium	< 5 feet	Sapling
Red Pine	5	Log	14		White Pine	Low	< 5 feet	Sapling

13 4113 - R.Maple, Conifer Sawtimber Well 17.1 89 111-140 N/A This stand's BA is variable. There is not a lot of structure and most of the regen is beech.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	3	Log/Pole	16		White Spruce	Low	< 5 feet	Sapling
Balsam Fir	16	Pole	9		Sugar Maple	Medium	10 - 20 feet	Sapling
Sugar Maple	15	Log/Pole/XLog	16	89	Beech	High	10 - 20 feet	Sapling
White Spruce	6	Log/Pole	12		Striped Maple	Medium	Variable	Sapling
Red Maple	60	Log/Pole/XLog	16	89	Balsam Fir	Low	< 5 feet	Sapling

14 310 - Herbaceous Openland Nonstocked 40.6 0 Unspecified 42290 - Natural Mixed Pine unit 1 of Hurricane Adios 41-045-13-01 FTP C41-1573 scarify. TCR: 2/13/18 Scarified summer 2018 by Holi. Regen failed. There are pockets of aspen but very little jack pine regen. Wait a couple more years to determine success, a mix of species is acceptable since the stand was not pure jack pine when harvested.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15 429 - Mixed Upland Conifers Sawtimber Well 53.2 59 111-140 N/A Stand varies quite a bit but many of the species are mature and showing decline.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	8	Log/Pole	12	59	Balsam Fir	High	Variable	Sapling
Hemlock	15	Log	12		White Spruce	Low	Variable	Sapling
Balsam Fir	30	Pole	9	59	Red Maple	Low	10 - 20 feet	Sapling
Red Pine	2	Log	16					
Quaking Aspen	2	Log	14					
Jack Pine	5	Pole	8					
Red Maple	25	Log/Pole	10					
White Pine	10	Log/Pole	14					
Paper Birch	3	Log/Pole	10					

16 6124 - Lowland Spruce-Fir Sawtimber Well 5.8 88 81-110 N/A This is a lowland area with spruce, fir, cedar, and some hemlock.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole/Sapling	5		Northern White Cedar	Low	< 5 feet	Sapling
Black Spruce	45	Pole	7	88	Balsam Fir	Low	< 5 feet	Sapling
Hemlock	10	Log	12		Black Spruce	Low	Variable	Sapling
Red Maple	5	Sapling/Pole	4					
Tamarack	15	Pole	6					
Balsam Fir	5	Pole	6					
White Pine	10	Log/Pole	12					

17 4112 - Maple, Beech, Cherry Association Sawtimber Well 27.9 96 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Log	14		Striped Maple	Medium	Variable	Sapling
Balsam Fir	7	Pole	6		Sugar Maple	Medium	10 - 20 feet	Sapling
Sugar Maple	70	Log/XLog/Pole	16	96	Balsam Fir	Low	< 5 feet	Sapling
Red Maple	14	Log/Pole	12		Beech	High	10 - 20 feet	Sapling
Beech	7	Log/Pole	16					

18 4134 - Aspen, Spruce/Fir Poletimber Medium 9.5 50 1-50 N/A This is a small patch of aspen growing into a grassy opening.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	30	Pole/Sapling	6		Quaking Aspen	Medium	10 - 20 feet	Sapling
White Pine	10	Pole	6		White Pine	Low	Variable	Sapling
Quaking Aspen	60	Pole	8	50	Balsam Fir	Medium	10 - 20 feet	Sapling
					White Spruce	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
19	42290 - Natural Mixed Pine	Sawtimber Medium	61.6	80	81-110	N/A																																																								
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20	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.0	46	51-80	N/A	This stand is almost an even mix between paper birch, red maple, fir, and hemlock trees which are mostly sapling sized with a few larger diameter trees scattered around.																																																							
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22	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	17.5	56	51-80	N/A																																																								
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24	42210 - Natural Red Pine	Sawtimber Well	68.6	73	111-140	N/A	This stand actually has 3 distinct ages, super-canopy is 100+, regular canopy is appx 70 yrs old and the understory is 15 years old which is a result of the 2006 harvest, Units 2 and 3 of Hurricane Drumming Sale.																																																							
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25	42290 - Natural Mixed Pine	Sapling Poor	24.3	16	1-50	N/A	This stand was previously typed as non-stocked but it has filled in with pine and their is also mature pine mixed throughout.																																																															
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26	42290 - Natural Mixed Pine	Sawtimber Well	107.1	92	51-80	N/A	This stand was cut approximately in 1996 with scattered white and red pine left in the supercanopy. In the understory is 10 - 20 ft. regeneration of mixed conifer and deciduous tree species. There are also small pockets of hemlock and red maple saplings throughout the stand.																																																															
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27	42210 - Natural Red Pine	Sawtimber Well	8.3	95	81-110	N/A	Unit 2 Hurricane Adios Sale thinned cut in 2017.																																																															
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28	429 - Mixed Upland Conifers	Sawtimber Well	13.1	86	81-110	N/A	This stand occurs along the Hurricane Truck Trail and contains a lot of white pine with paper birch, aspen, red maple, and spruce/fir mixed in.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	4133 - Aspen, Mixed Pine	Sapling Well	12.0	25	1-50	N/A	This stand was clearcut approximately in 1996. Paper birch and white pine seed trees were left. Among them is red pine in the super canopy.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Sapling/Pole	4	25
Paper Birch	5	Pole/Sapling	7	
Red Maple	10	Sapling/Pole	4	
Red Pine	10	Log/Pole	12	
White Pine	15	Log/Pole	12	79

30	122 - Road/Parking Lot	Nonstocked	2.3		Unspecified	No	
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31	42200 - Natural White Pine	Sawtimber Medium	5.2	94	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	15	Log/Pole	16		White Spruce	Medium	Variable	Sapling
White Spruce	15	Log/Pole	10		Balsam Fir	High	Variable	Sapling
White Pine	65	Log/Pole	16	94	Red Maple	Low	>20 feet	Sapling
Paper Birch	5	Pole/Log	9		White Pine	Medium	Variable	Sapling

32	42290 - Natural Mixed Pine	Sawtimber Well	268.6	100	111-140	N/A	This a large mature pine stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	50	Log/XLog/Pole	16	100	White Pine	High	Variable	Sapling
Paper Birch	5	Pole/Log	9		Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	40	XLog/Log/Pole	18	100	Red Pine	Low	5 - 10 feet	Sapling
Red Oak	3	Log/Pole	10		Red Maple	Medium	>20 feet	Sapling
Jack Pine	2	Log/Pole	10					

33	6225 - Bog	Nonstocked	4.4		Unspecified	No	
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34	42200 - Natural White Pine	Poletimber Medium	54.7	96	51-80	N/A	This stand was cut approximately in 1998. White pine seed trees were left throughout and paper birch was left along the Hurricane Truck Trail.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	75	Pole/Log	8	96	Black Spruce	Low	10 - 20 feet	Sapling
Paper Birch	10	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
Hemlock	5	Pole	5		Red Maple	High	10 - 20 feet	Sapling
Balsam Fir	5	Sapling/Pole	4		White Pine	High	Variable	Sapling
Red Pine	5	Pole	7		Paper Birch	Low	10 - 20 feet	Sapling
					Quaking Aspen	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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36 42200 - Natural White Pine Sawtimber Poor 18.9 91 51-80 N/A This stand was cut approximately around 1996.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	5	Log	10		White Spruce	Low	5 - 10 feet	Sapling
Red Pine	35	Log/Pole/XLog	16		Red Maple	Medium	Variable	Sapling
White Pine	60	XLog/Log	18	91	Red Pine	Low	10 - 20 feet	Sapling
					White Pine	High	Variable	Sapling
					Balsam Fir	Medium	Variable	Sapling

37 122 - Road/Parking Lot Nonstocked 1.6 Unspecified No

38 6220 - Alder/willow Nonstocked 0.6 Unspecified No

39 6220 - Alder/willow Nonstocked 3.7 Unspecified No

40 42210 - Natural Red Pine Sawtimber Well 15.7 98 81-110 N/A Hurricane Adios unit 3. 41-045-13-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	Log/Pole/XLog	14		White Spruce	Low	Variable	Sapling
Red Pine	60	Log	14	98	White Pine	Medium	Variable	Sapling
					Balsam Fir	Low	< 5 feet	Sapling
					Red Maple	Medium	10 - 20 feet	Sapling
					Red Pine	Low	< 5 feet	Sapling

41 42350 - Upland Hemlock Sawtimber Well 2.4 81 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Beech	Medium	< 5 feet	Sapling
White Pine	25	Log/Pole	14		Balsam Fir	Low	< 5 feet	Sapling
Hemlock	70	Log/Pole	12	81	Hemlock	Medium	Variable	Sapling
					Red Maple	Medium	< 5 feet	Sapling

This is a hemlock covered ridge. The stand was cut in 1996 with the adjacent stand that was clearcut. The hemlock were not cut in this stand and other trees were selectively harvested from this stand. The adjacent clearcut exposed the hemlock stand to windthrow and as a result high mortality is occurring along the stand edge. Also, the available light in the stand was increased, causing a flush of hardwood tree species regeneration.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42	4319 - Mixed Upland Forest	Sapling Medium	15.6	26	1-50	N/A	This stand was clearcut in 1996 except for a few scattered white and red pine in the supercanopy.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling	2	26	White Spruce	Low	< 5 feet	Sapling
Hemlock	5	Log/Pole	10		Red Maple	Medium	< 5 feet	Sapling
Paper Birch	5	Sapling/Pole	4		White Pine	Low	< 5 feet	Sapling
Red Pine	8	Log	16		Beech	Low	< 5 feet	Sapling
Red Pine	10	Sapling	4		Balsam Fir	High	< 5 feet	Sapling
Red Maple	14	Sapling/Pole	4					
White Pine	8	Log	16	86				
White Pine	10	Sapling	4					
White Spruce	15	Sapling	2					
Quaking Aspen	15	Sapling/Pole	4	26				

43	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	41.3	72	51-80	N/A	hurricane Adios unit 4 41-045-13-201
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Log/Pole	12		Balsam Fir	Low	10 - 20 feet	Sapling
Beech	4	Pole	8		Sugar Maple	Medium	Variable	Sapling
Sugar Maple	35	Log/Pole	10		Red Maple	High	Variable	Sapling
Hemlock	5	Log	12		Beech	High	Variable	Sapling
Red Maple	51	Log/Pole	10	72				

44	6120 - Lowland Cedar	Poletimber Medium	25.5	61	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	25	Pole	8		Tag Alder	Low	< 5 feet	Tall Shrub
Northern White Cedar	50	Pole	7	61	Labrador Tea	Low	< 5 feet	Tall Shrub
Tamarack	25	Pole	6		Black Spruce	Low	< 5 feet	Sapling
					Northern White Cedar	Low	< 5 feet	Sapling

45	330 - Low-Density Trees	Nonstocked	1.4		Unspecified	Managed Opening	
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46	4134 - Aspen, Spruce/Fir	Poletimber Medium	9.1	46	1-50	N/A	This stand is healthy and can hold but the adjacent stand which is on a steep hill cannot be harvested without cutting this stand as well.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole	8	46	White Spruce	Medium	5 - 10 feet	Sapling
Red Maple	13	Sapling/Pole	4		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch	5	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
White Pine	5	Pole	8		White Pine	Medium	10 - 20 feet	Sapling
White Spruce	27	Pole/Sapling	7		Quaking Aspen	Low	5 - 10 feet	Sapling

47	6224 - Treed Bog	Nonstocked	9.4		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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48 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Well 3.0 70 81-110 N/A Small stand along Hurricane River and Hurricane Truck Trail. There is a creek in the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	6	Pole	5		Balsam Fir	High	< 5 feet	Sapling
White Spruce	13	Pole	5		Beech	Low	5 - 10 feet	Sapling
Red Maple	40	Log/Pole	12	70	Red Maple	Low	< 5 feet	Sapling
White Pine	5	Log	14		Hemlock	High	< 5 feet	Sapling
Yellow Birch	10	Log/Pole	12					
Hemlock	26	Log	14					

49 6229 - Mixed lowland shrub Nonstocked 1.3 0 Unspecified No

51 4136 - Aspen, Mixed Conifer Sawtimber Well 5.1 78 81-110 N/A The stand occurs on a steep hill that will make logging difficult. The adjacent private land was successfully harvested and contains the same hillside.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	11	Pole/Log	9		White Spruce	Low	< 5 feet	Sapling
Red Maple	16	Pole	1		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen	45	Log/Pole	12	78	White Pine	Low	Variable	Sapling
Yellow Birch	2	Pole	7		Beech	Medium	5 - 10 feet	Sapling
White Spruce	13	Pole/Log	9		Black Cherry	Low	< 5 feet	Sapling
Beech	6	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	7	Log/XLog/Pole	12					

52 4115 - Y.Birch, Hemlock NH Sawtimber Well 158.2 79 81-110 N/A This stand was selectively harvested in 2006 under TS # 002-03 Preacher Lake Hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	XLog/Log	22		Balsam Fir	High	5 - 10 feet	Sapling
Beech	8	Pole	8		Beech	Low	Variable	Sapling
Yellow Birch	5	Log/Pole	10		Sugar Maple	High	5 - 10 feet	Sapling
Red Maple	43	Log/Pole	12	79	Striped Maple	Low	5 - 10 feet	Sapling
Sugar Maple	18	Log/Pole	10	79	Red Maple	Low	Variable	Sapling
Hemlock	21	XLog/Log	22					

53 4112 - Maple, Beech, Cherry Association Sawtimber Well 3.5 71 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	70	Log/Pole	10	71	Black Cherry	Medium	10 - 20 feet	Sapling
White Pine	2	XLog/Log	18		Balsam Fir	Low	Variable	Sapling
Beech	5	Log/Pole	12		Red Maple	Medium	10 - 20 feet	Sapling
Sugar Maple	23	Log/Pole	10		Beech	High	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54	42350 - Upland Hemlock	Sawtimber Well	7.3	91	111-140	N/A	This is a narrow ridge covered with hemlock and white pine surrounded by low, wet land.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole	7		Balsam Fir	Low	< 5 feet	Sapling
White Pine	15	Log	14		Hemlock	Medium	Variable	Sapling
Red Maple	10	Pole	8		White Spruce	Low	< 5 feet	Sapling
Red Pine	5	Pole	9		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole	7					
Hemlock	50	Log	14	91				

55	623 - Emergent Wetland	Nonstocked	5.7		Unspecified	No	
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57	500 - Water	Nonstocked	9.1		Unspecified	No	
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58	4136 - Aspen, Mixed Conifer	Poletimber Well	2.1	50	51-80	N/A	This is a small patch of aspen growing into a grassy opening.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole/Sapling	6		Quaking Aspen	Medium	10 - 20 feet	Sapling
Quaking Aspen	80	Pole	8	50	White Pine	Low	Variable	Sapling
White Pine	10	Pole	6		Balsam Fir	Medium	10 - 20 feet	Sapling
					White Spruce	Medium	5 - 10 feet	Sapling

59	6120 - Lowland Cedar	Poletimber Well	6.9	95	111-140	N/A	This is a lowland area with mostly cedar. The area is wet with intermitent streams in it.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole	7		Black Spruce	Low	< 5 feet	Sapling
Hemlock	20	XLog/Log	14		Northern White Cedar	Medium	< 5 feet	Sapling
Northern White Cedar	55	Pole	8	95	Red Maple	Medium	>20 feet	Sapling
Red Maple	10	Pole	7		Hemlock	Low	< 5 feet	Sapling
White Pine	5	XLog/Log	14		Balsam Fir	Low	< 5 feet	Sapling
Black Spruce	5	Pole	7		Labrador Tea	Medium	< 5 feet	Tall Shrub

60	6120 - Lowland Cedar	Poletimber Medium	6.7	99	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	25	Pole	7		Northern White Cedar	Low	< 5 feet	Sapling
Northern White Cedar	50	Pole/Sapling	7	99	Tamarack	Low	< 5 feet	Sapling
Tamarack	25	Pole	6		Black 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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61 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 10.9 76 51-80 N/A This is a lowland mix of conifer and deciduous trees with cedar being the majority. Tree size and densities vary throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	5		Black Spruce	Medium	< 5 feet	Sapling
Northern White Cedar	45	Pole	8	76	Beech	Low	< 5 feet	Sapling
Red Maple	30	Pole	6		Tamarack	Low	< 5 feet	Sapling
White Pine	5	Pole/Log/Sap	8		Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	5	Pole	8		Northern White Cedar	High	5 - 10 feet	Sapling
Hemlock	10	Pole/Log	10		Balsam Fir	Low	5 - 10 feet	Sapling

63 6224 - Treed Bog Nonstocked 5.1 Unspecified No

64 42350 - Upland Hemlock Sawtimber Well 15.9 94 111-140 N/A This is a hemlock ridge in the swamp.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Log/Pole	12		Balsam Fir	Low	< 5 feet	Sapling
Beech	3	Pole	6		White Pine	Low	< 5 feet	Sapling
Yellow Birch	10	Log	12		Red Maple	Low	5 - 10 feet	Sapling
Hemlock	62	Log	14	94	Hemlock	Medium	Variable	Sapling
Red Maple	10	Log	12		Black Spruce	Low	< 5 feet	Sapling
White Pine	5	Log	14					

65 4112 - Maple, Beech, Cherry Association Sawtimber Well 9.8 85 81-110 N/A Part of Hubbard Camp Sale, cut in 2015.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	16		Balsam Fir	Medium	Variable	Sapling
Red Maple	75	Log/Pole	14	85	Red Maple	Medium	5 - 10 feet	Sapling
White Spruce	10	Log/Pole	12		White Spruce	Low	5 - 10 feet	Sapling
Black Cherry	10	Pole/Log	9		Beech	Medium	5 - 10 feet	Sapling

The red maple is mature and pretty low quality and the spruce that was left is mature also.

66 6224 - Treed Bog Nonstocked 12.9 Unspecified No

67 122 - Road/Parking Lot Nonstocked 1.1 Unspecified No

68 622 - Lowland Shrub Nonstocked 4.9 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69 42350 - Upland Hemlock Sawtimber Well 1.2 104 111-140 N/A This is a hemlock covered ridge inbetween bogs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	7		Balsam Fir	Low	< 5 feet	Sapling
Red Maple	10	Pole	7		Red Maple	Medium	Variable	Sapling
Hemlock	70	XLog/Log	14	104	Labrador Tea	Low	< 5 feet	Tall Shrub
Northern White Cedar	10	Pole	8		Black Spruce	Low	< 5 feet	Sapling
White Pine	5	XLog/Log	14		Hemlock	Medium	< 5 feet	Sapling

70 429 - Mixed Upland Conifers Sawtimber Well 25.9 56 51-80 N/A This stand is fairly diverse, mostly upland but the quality is pretty low. The conifers were effected pretty heavily by the ice storm in 2019. Consider harvest before stand degrades further.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	8		Black Spruce	Low	5 - 10 feet	Sapling
White Pine	20	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Pole	7		White Pine	Medium	Variable	Sapling
Jack Pine	25	Pole	8		Quaking Aspen	Low	10 - 20 feet	Sapling
Red Maple	5	Pole	6		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Northern White Cedar	2	Pole	5		Balsam Fir	Medium	< 5 feet	Sapling
White Spruce	25	Pole	8	56				
Black Cherry	3	Pole	6					

71 4113 - R.Maple, Conifer Poletimber Well 85.4 71 81-110 N/A This hardwood stand is low quality and due to the loss of beech 1 more decade is needed before any management.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Pole	7		Hemlock	Low	< 5 feet	Sapling
Sugar Maple	10	Pole/Log	9		White Pine	Low	< 5 feet	Sapling
Balsam Fir	5	Pole	5		Balsam Fir	Low	Variable	Sapling
Yellow Birch	5	Pole/Log	8		Beech	High	10 - 20 feet	Sapling
Hemlock	10	Log	14		Sugar Maple	Low	< 5 feet	Sapling
Red Maple	60	Pole/Log	9	71	Red Maple	High	10 - 20 feet	Sapling
White Pine	5	XLog/Log	14					

74 622 - Lowland Shrub Nonstocked 21.6 Unspecified No

75 429 - Mixed Upland Conifers Sawtimber Medium 7.3 73 1-50 N/A This stand is located on a steep slope north of the Hurricane Truck Trail. Stand was cut in 2015. Regenerating to red maple and white pine beneath overstory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole/Sapling	6		White Pine	Medium	Variable	Sapling
White Pine	55	Log/Pole	16	73	Balsam Fir	Medium	Variable	Sapling
Red Maple	30	Pole	8		Red Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5		Beech	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
76	429 - Mixed Upland Conifers	Poletimber Well	6.1	49	51-80	N/A	The stand is located along along the Hurricane Truck Trail Road between higher topography and the adjacent wetland next to it.																																																							
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77	6124 - Lowland Spruce-Fir	Poletimber Well	25.4	88	51-80	N/A	This is a lowland area with spruce, fir, cedar, and some hemlock.																																																							
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80	500 - Water	Nonstocked	5.1		Unspecified	No																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
82	4115 - Y.Birch, Hemlock NH	Sawtimber Well	31.8	76	111-140	N/A	This is a lowland hardwood stand that was thinned about 50 years ago and now contains large trees of every species, except for beech. The beech has been hit hard by BBD and a lot of the larger diameter trees are dead. As a result there are areas of beech flush.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir	10	Pole/Sapling	5			Black Spruce		Low
Red Maple	55	Log	12	76		Hemlock		Low
Sugar Maple	10	Pole/Log	9			Red Maple		Medium
Hemlock	20	Log/Pole	12			Beech		Medium
Beech	5	Log/Pole	12					
83	622 - Lowland Shrub	Nonstocked	14.8		Unspecified	No		
84	429 - Mixed Upland Conifers	Poletimber Medium	5.9	51	1-50	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine	10	Pole	6			Black Cherry	Low	
White Spruce	30	Pole	7			White Spruce	Low	
White Pine	45	Pole/Log	9	51		Willow spp.	Low	
Quaking Aspen	5	Pole	6			White Pine	Low	
Balsam Fir	10	Pole	6					
85	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	4.0	91	Unspecified	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir	5	Pole/Sapling	5			White Pine	Low	
Hemlock	55	Log	14	91		Paper Birch	Low	
Red Maple	10	Pole	5			Red Maple	Low	
White Pine	5	Log	14			Northern White Cedar	Low	
Northern White Cedar	15	Log/XLog	12					
Black Spruce	10	Pole	6					
86	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	40.4	81	81-110	N/A	This stand contains a mix of very large hemlock and cedar trees, with red maple, and the occasional white pine. This stand is designated or has potential old growth	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar	22	Log/Pole	12			Balsam Fir		Medium
Black Spruce	10	Pole	7			Black Spruce		Low
Red Maple	15	Pole/Log	9			Northern White Cedar		Low
Hemlock	40	Log/Pole	10	81		Red Maple		Medium



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87 6129 - Mixed Coniferous Lowland Forest Poletimber Well 14.5 107 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Pole	7		Balsam Fir	Low	10 - 20 feet	Sapling
Northern White Cedar	25	Pole	8	107	Black Spruce	Low	< 5 feet	Sapling
Red Maple	15	Pole/Sapling	5		Red Maple	Medium	Variable	Sapling
White Pine	15	XLog/Log	14		Northern White Cedar	Low	< 5 feet	Sapling
Balsam Fir	20	Pole/Sapling	5					
Hemlock	10	Log	12					

88 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Poor 62.3 91 1-50 N/A This stand is extremely wet with trees growing on any ground higher than water level.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	5		Northern White Cedar	Low	Variable	Sapling
Paper Birch	10	Log/Pole	12		Balsam Fir	Low	< 5 feet	Sapling
Hemlock	5	XLog/Log	14		Red Maple	Low	< 5 feet	Sapling
Black Spruce	15	Pole	8		Hemlock	Low	< 5 feet	Sapling
Red Maple	25	Pole/Log	9		White Pine	Low	< 5 feet	Sapling
Northern White Cedar	30	Log	12	91				

89 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 35.5 91 51-80 N/A This stand is wet and has creeks and drains throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	5	Sapling/Pole	4		Black Spruce	Low	Variable	Sapling
Paper Birch	10	Pole	6		Red Maple	Low	< 5 feet	Sapling
Red Maple	10	Log/Pole	10		Northern White Cedar	Medium	< 5 feet	Sapling
Northern White Cedar	45	Pole	8	91				
Black Spruce	5	Pole	7					
Balsam Fir	15	Pole/Sapling	5					
Hemlock	10	Log/Pole	12					

90 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 26.6 91 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log	14		Red Maple	Low	5 - 10 feet	Sapling
Black Spruce	5	Pole	7		White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	15	Pole/Sapling	5		Hemlock	Low	< 5 feet	Sapling
Black Ash	10	Pole	7					
Beech	5	Log/Pole	12					
Northern White Cedar	20	Pole	8					
Red Maple	20	Pole	8	91				
Hemlock	15	Log	14	91				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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93 4112 - Maple, Beech, Cherry Association Poletimber Medium 0.0 76 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	90	Pole/Log	9	76	Red Maple	Medium	5 - 10 feet	Sapling
White Pine	10	Pole/Log	9		White Pine	Low	Variable	Sapling