



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33089

Entry Year 2022

Acreage: 1,828

County Delta

Management Area: Dead Horse Moraines

Revision Date: 2020-08-16

Stand Examiner: Dan Racine

Legal Description:

T43N R23W Sections 19, 20, 29, 30 and 31

Identified Planning Goals:

This compartment is comprised of approximately 27% percent upland cover types with the majority of these cover types classified as northern hardwood and aspen stands. The lowland forested cover types comprise approximately 55% percent of the compartment with the majority of these classified as cedar, lowland deciduous and tamarack stands. Additional acreage is in the lowland non-forested types within this compartment including marsh, lowland shrub and beaver flooding. The forested treatments prescribed in this compartment total 94 acres of final harvest designed to regenerate the stands in the aspen, northern hardwood and lowland deciduous types. These treatments are accessed through private property and some stands provide difficult access across the beaver flooding. A large tamarack stand will be monitored for successful regeneration prior to harvesting additional stands. These additional tamarack and black spruce stands will be ready in the next treatment period.

Soil and topography:

Topography is nearly level to slightly rolling. Soils are very poorly drained non- acid organic soils, poorly drained loamy soils, well drained loams. Major soil series are Trenary loams, Ensley, Charlevoix, Dawson, and Cathro.

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

This compartment is a part of an 1,800 block of state forest land within Delta county surrounded by private and non-industrial private forest lands. A larger block of state forest land continues to the west of this compartment within Marquette county.

Unique Natural Features:

Old beaver floodings and new beaver dams scattered throughout the compartment.

Archeological, Historical, and Cultural Features:

None Known.

Special Management Designations or Considerations:

Previously removed areas of Special Conservation area.

Watershed and Fisheries Considerations:

This compartment contains Mud Creek which serves as tributary to the Rapid River. Mud Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Mud Creek in riparian areas susceptible to aspen regeneration. For areas not susceptible to aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

The most significant habitat feature in this compartment is a 300-acre block of land that contains beaver floodings, wet meadows, and interspersed timber. Few stands within the complex are scheduled for treatment this year of entry, retaining diverse species within each stand will provide quality habitat. Elsewhere in the compartment a 75-acre aspen stand is scheduled for treatment, and half will be retained to provide age class diversity for wildlife benefit.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium textured glacial till and peat and muck. There is approximately 35 feet of relief in the compartment.

The glacial drift thickness varies between 0 and 10 feet. The Ordovician Trenton Formation underlies the glacial drift. The Trenton is quarried for stone/dolomite near Escanaba. A gravel pit is located 0.5 miles to the southwest of the compartment. There appears to be good gravel potential in the northwest corner of the compartment.

Vehicle Access:

The access into this block of state land is limited to department personnel via an administrative easement.

Survey Needs:

Survey corners will be required for establishment in the NWNW of section 29 and NW of section 30 for the proposed treatments.

Recreational Facilities and Opportunities:

Limited opportunities for hunting, camping, and other forest associated recreation.

Fire Protection:

The access to this compartment is limited. There are water sources and limited fuel types that pose a significant fire risk.

Additional Compartment Information:

* The following reports from the Inventory are attached:

- ◆ Total Acres by Cover Type and Age Class
- ◆ Proposed Treatment Summary
- ◆ Proposed Treatments – No Limiting Factors
- ◆ Proposed Treatments – With Limiting Factors
- ◆ Stand Details (Forested and Nonforested)
- ◆ Dedicated and Proposed Special Conservation Areas

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

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

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**

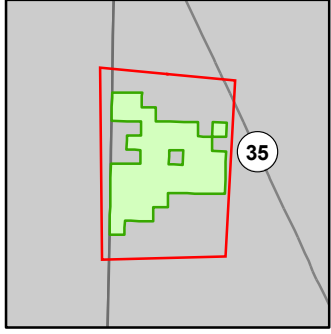
The following information is displayed, where pertinent, on the attached compartment maps:

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

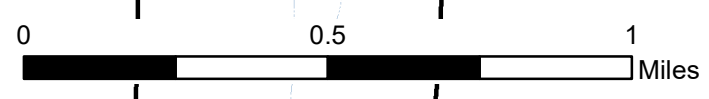
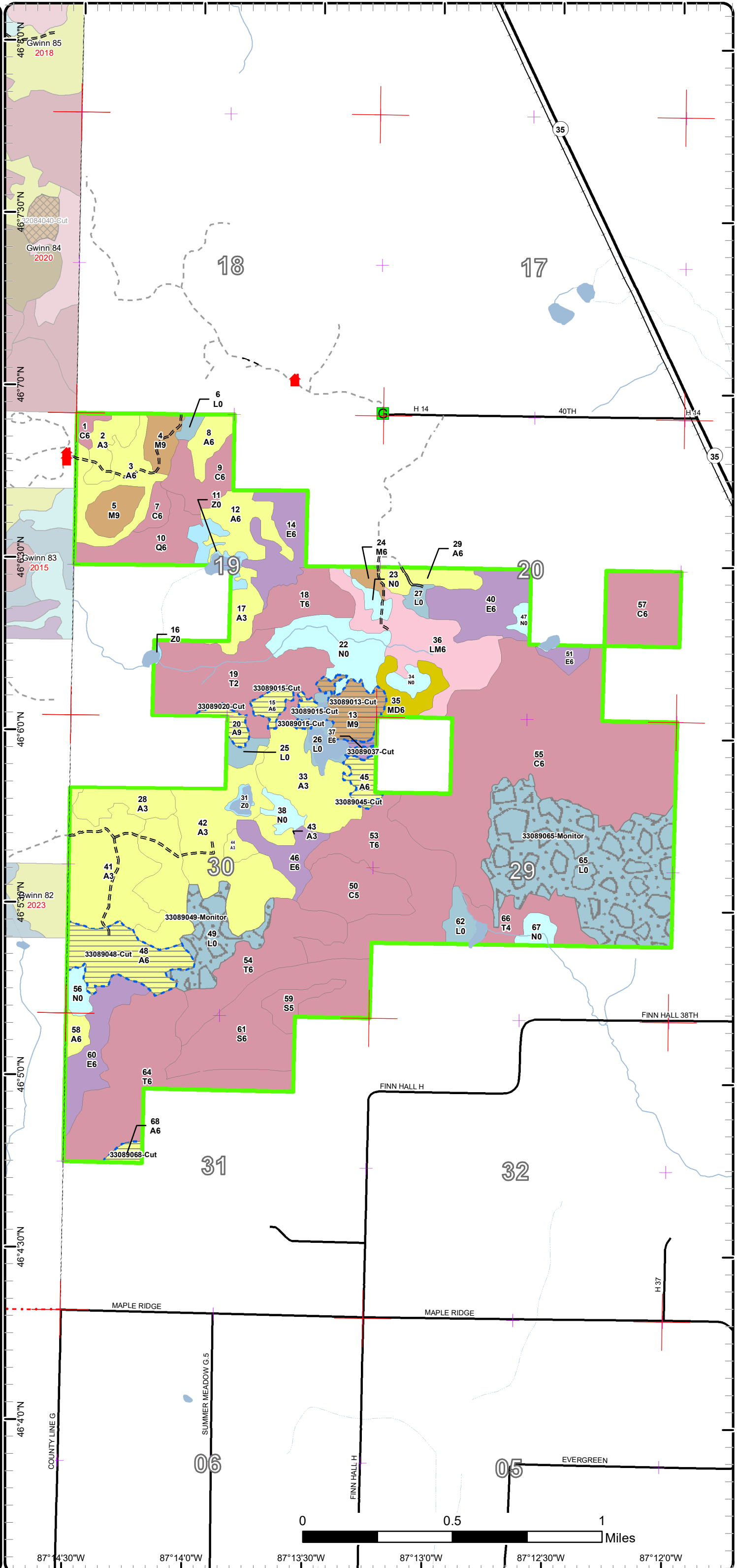
Cover Type & Treatments Map

Compartment: 89

County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOY: 2022
 Acres: 1,829 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 9/8/2020
 Map Phase: Web-Post



- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- - - DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
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- Swamp
- Lakes and Rivers
- 🏠 Cabin
- Ⓜ Gate
- ▭ Compartment Boundary
- ▭ Treatments with Site Conditions
- ▭ Clearcut (w/Reserves)
- ▭ Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



87°14'30"W 87°14'0"W 87°13'30"W 87°13'0"W 87°12'30"W 87°12'0"W

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Mgmt Area: Dead Horse Moraines

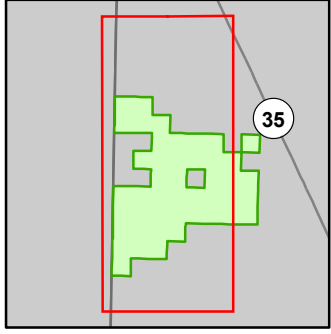
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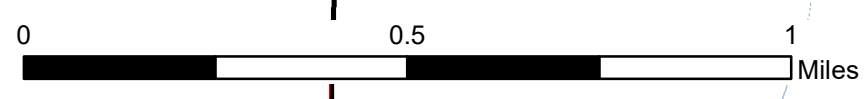
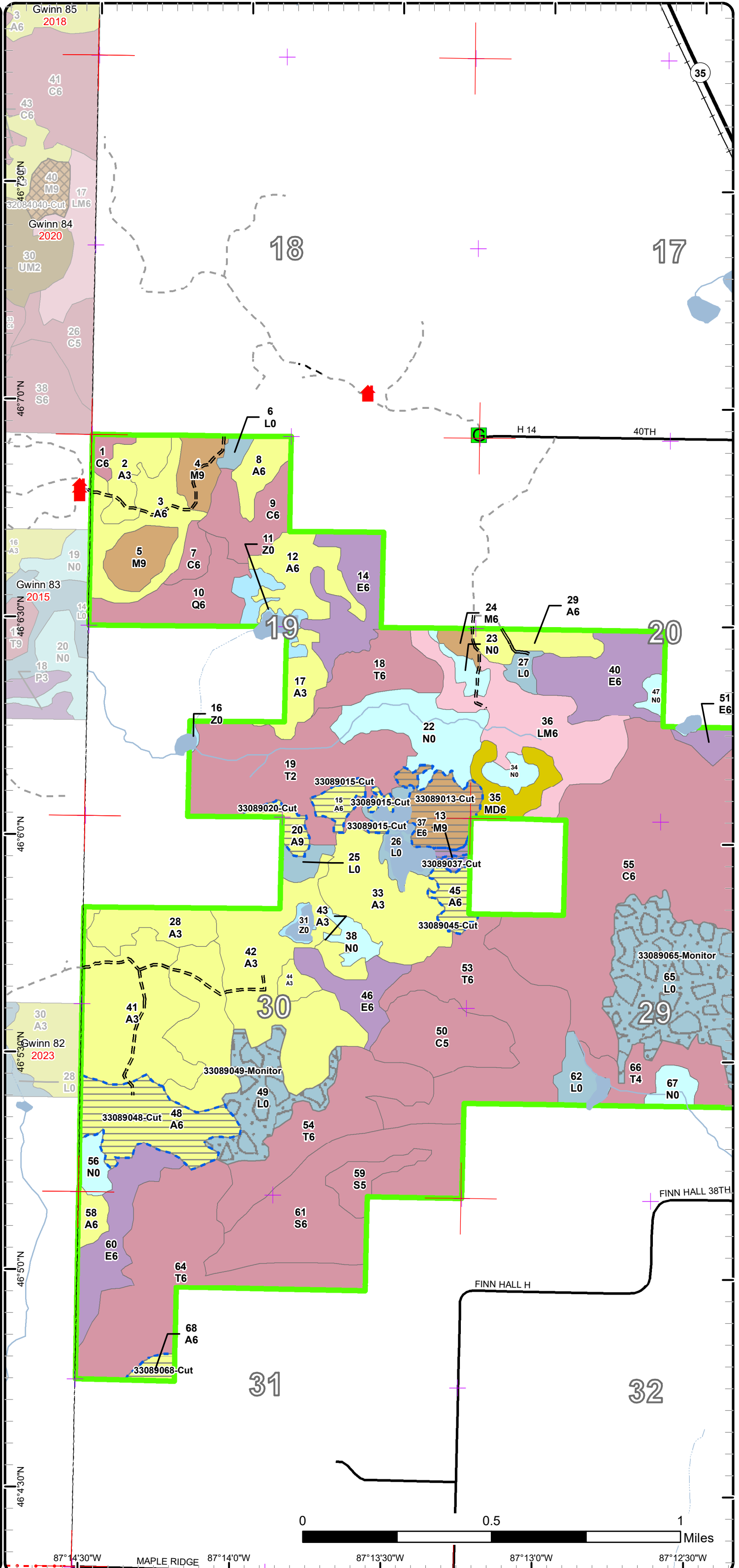
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Stand Boundary Map

Compartment: 89

County: Delta

Unit: Escanaba

Mgmt Area: Dead Horse Moraines

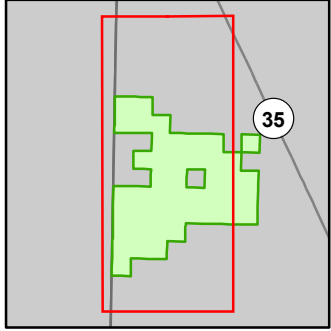
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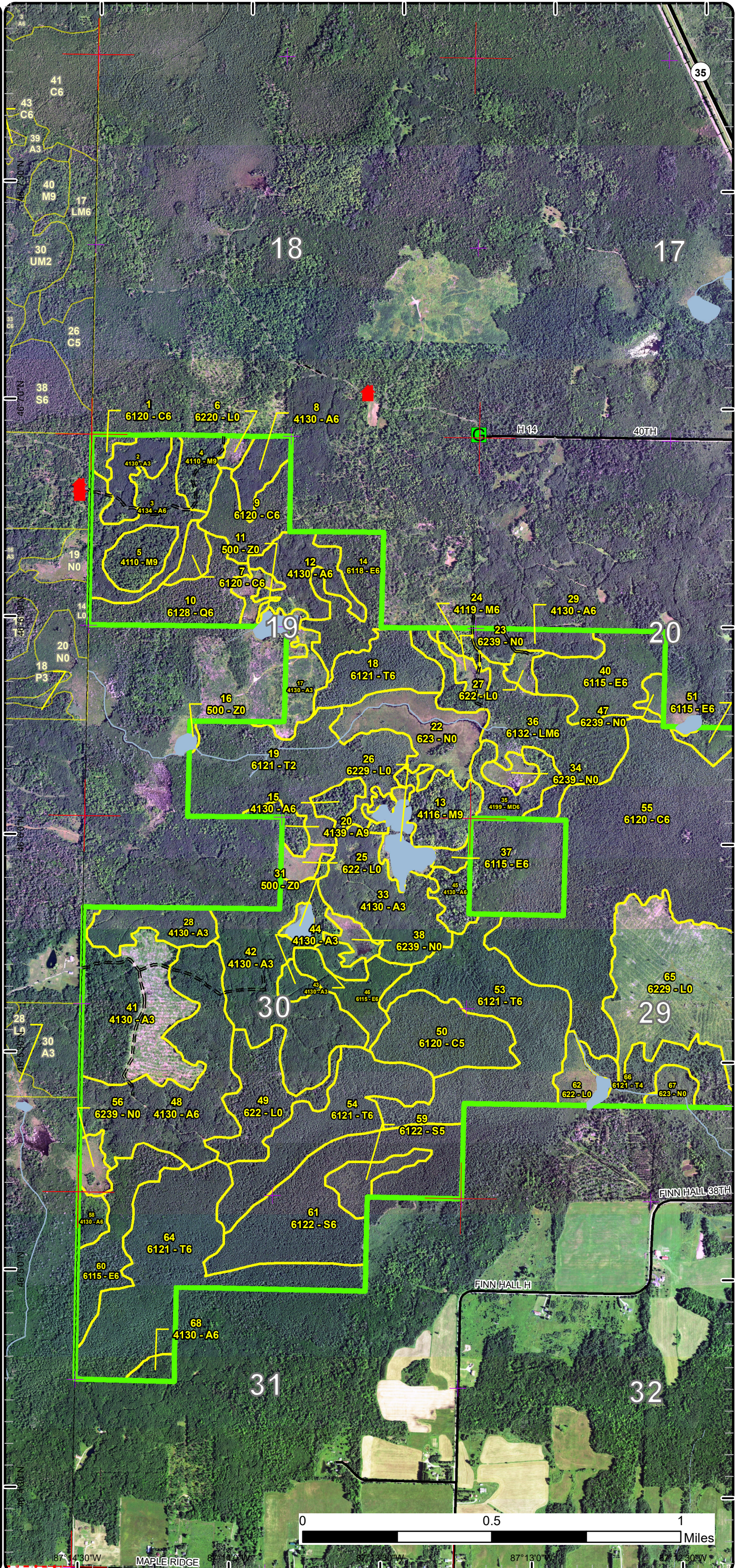
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Special Conservation Areas

Compartment: 89

County: Delta

Unit: Escanaba

Mgmt Area: Dead Horse Moraines

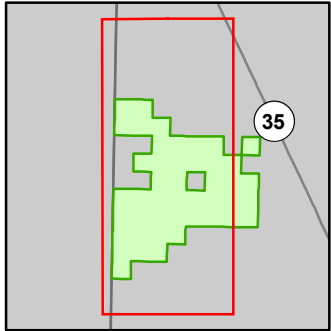
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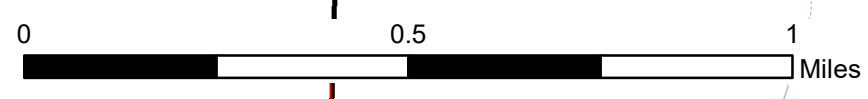
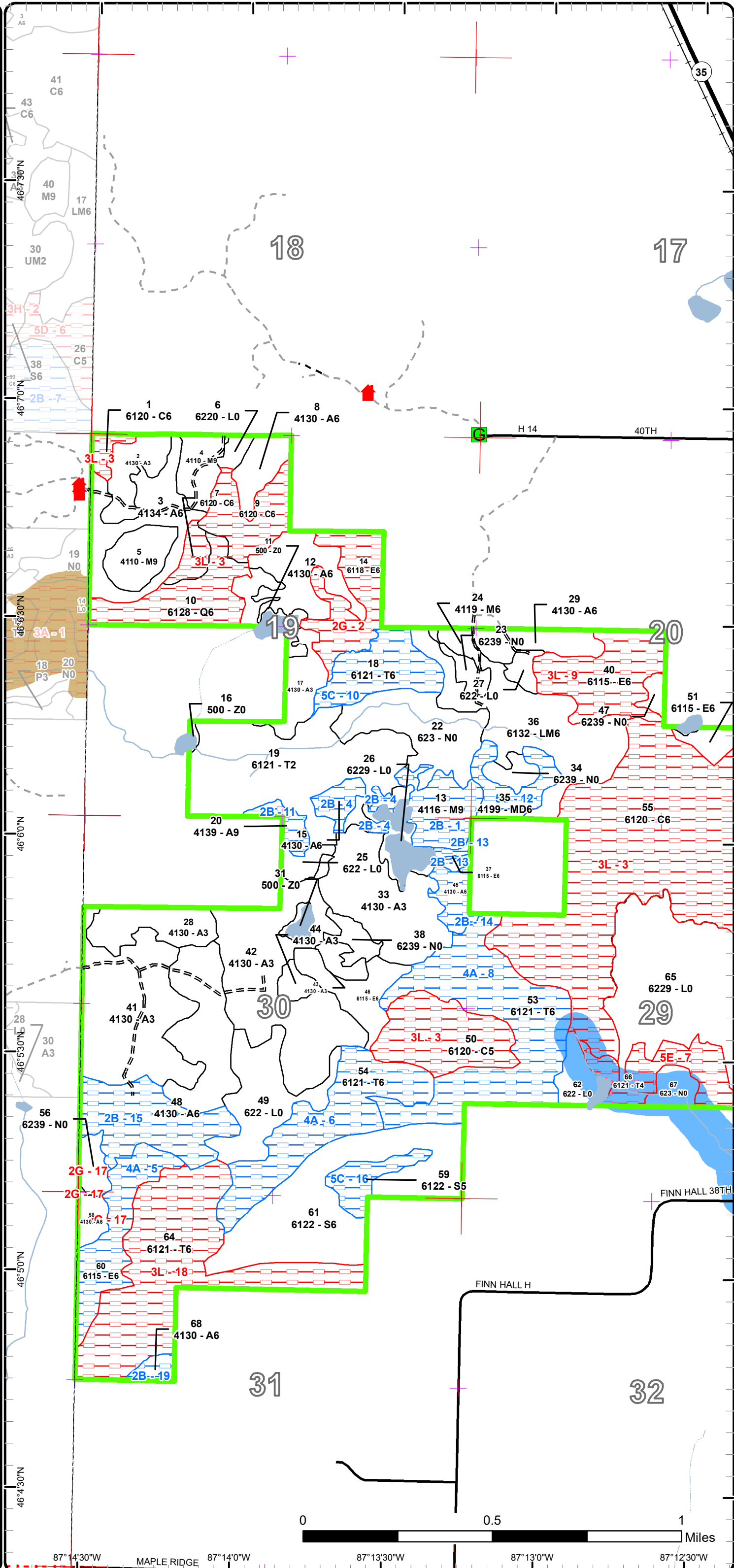
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- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Forest Habitat Core Interior
- High Priority Trout Stream Buffer



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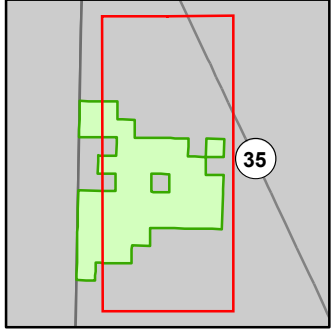
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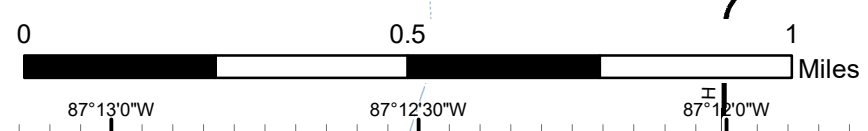
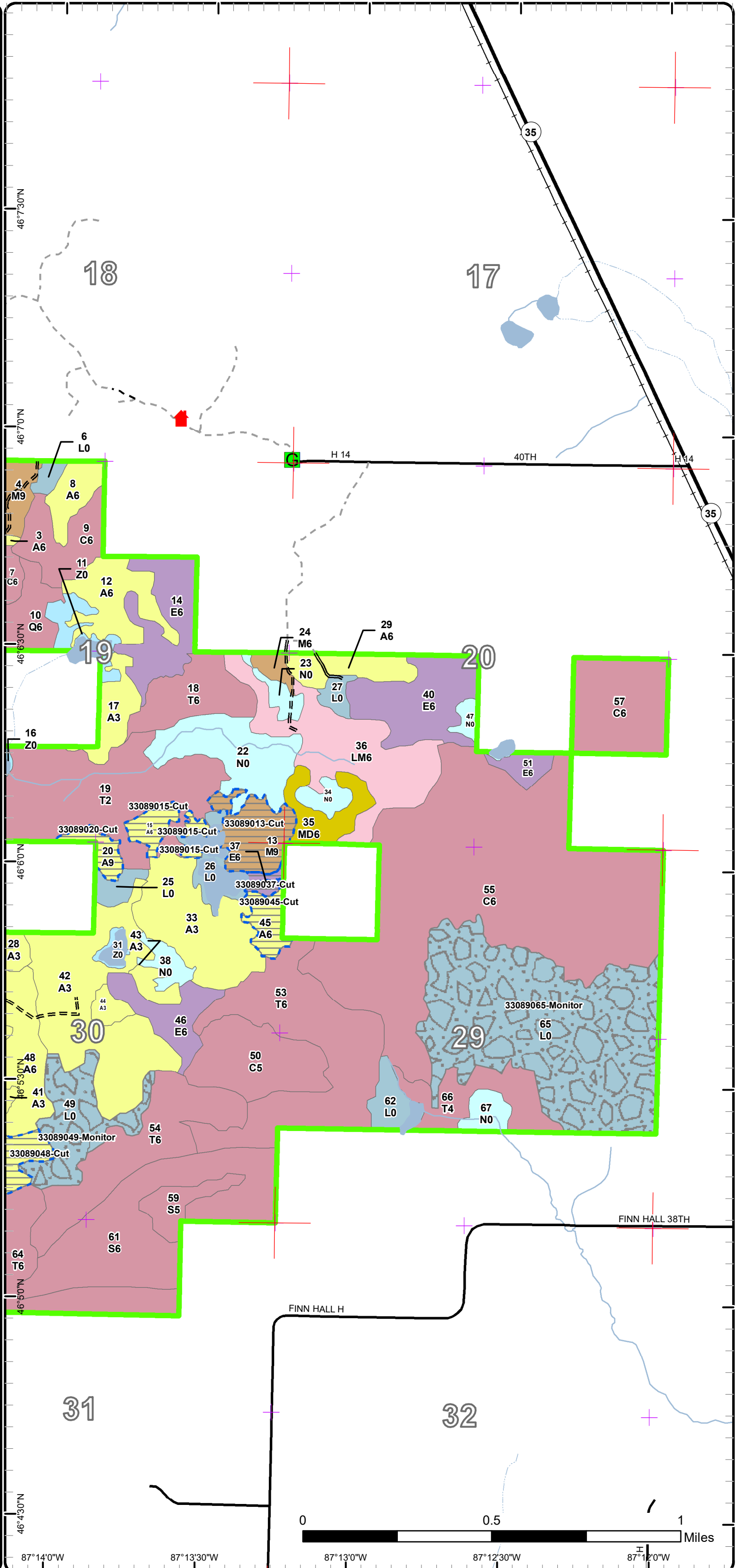
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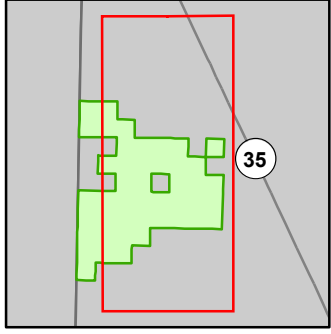
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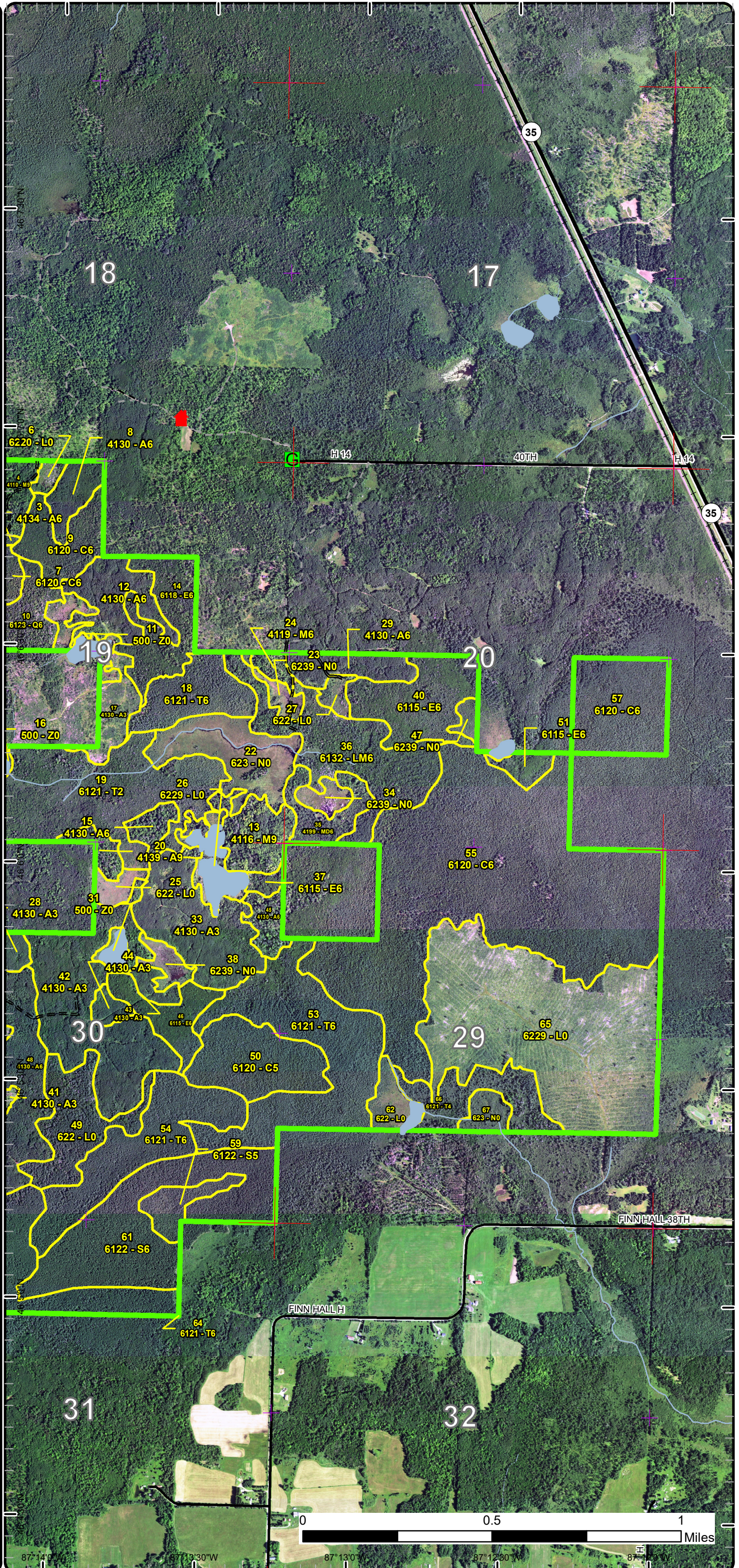
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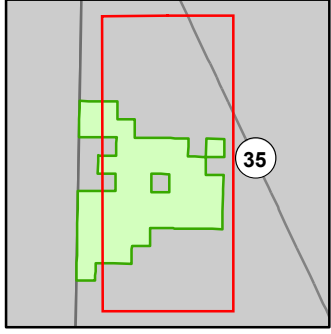
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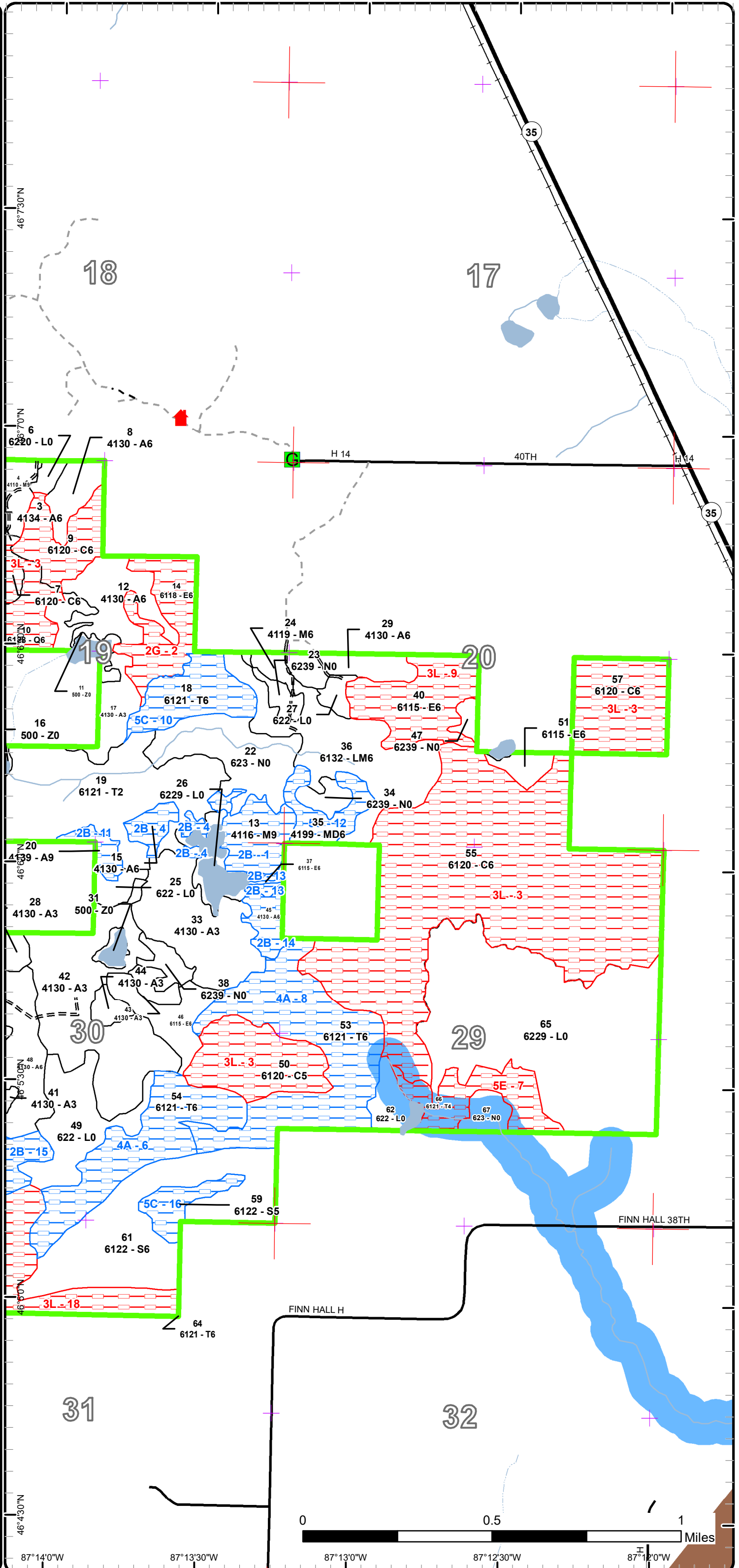
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- Stand Boundaries
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	78	90	86	18	136	0	0	25	0	0	0	0	0	0	0	0	0	433
Cedar	0	0	0	0	0	0	0	0	0	5	317	0	7	23	0	0	0	0	352
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	30
Lowland Deciduous	0	0	0	0	0	0	0	0	28	30	66	0	0	0	0	0	0	0	124
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	56
Lowland Shrub	227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	227
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	91	0	0	0	0	0	0	0	0	0	91
Marsh	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Northern Hardwood	0	0	0	0	0	0	0	0	21	32	0	0	0	0	0	0	0	0	53
Tamarack	0	0	0	0	0	78	0	0	254	27	0	0	0	0	0	0	0	0	358
Water	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Total	315	78	90	86	18	214	0	0	419	165	383	0	37	23	0	0	0	0	1827



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 89

Total Compartment Acres: 1,828

Commercial Harvest -
 Harvests with Site Condition - 94
 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	70	0	0	0	0	0	0	0	0	70
Lowland Deciduous	3	0	0	0	0	0	0	0	0	3
Northern Hardwood	21	0	0	0	0	0	0	0	0	21
Total	94	0	0	0	0	0	0	0	0	94

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	94	0	0	0	0	0	189	0	0	283
Next Step	0	0	0	0	0	0	94	0	0	94
Total	94	0	0	0	0	0	283	0	0	377



Stand	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:

13	33089013-Cut	21.1	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	75	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all trees except leave retention of this stand along the wetland complex edge of stand 26 and stand 22</p> <p><u>Specs:</u> determining at time of sale preparation the location of the retention. EGLE will have to be contacted to determine if any permits are required for access to harvest this stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand is designed to regenerate the older aspen and mixed conifer that will be lost within this stand. The regeneration of sugar maple</p> <p><u>Comment:</u> has shown potential in this compartment and those pockets of northern hardwoods have an opportunity to regenerate here. This stand is limited factor due to access concerns both from the landowner and beaver flooding,</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
15	33089015-Cut	9.8	4130 - Aspen	Poletimber Well	75	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all trees and leave no retention to best encourage regeneration. EGLE will have to be contacted to determine if any permits are required for access to harvest this stand.</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> Aspen and mixed upland deciduous and conifer species.</p> <p><u>Regen:</u></p> <p><u>Other</u> This harvest is designed to regenerate in particular the aspen species. The stand is limit factor due to access unknown through private</p> <p><u>Comment:</u> property as well as across the beaver flooding.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
20	33089020-Cut	6.4	4139 - Aspen, Mixed Deciduous	Sawtimber Well	70	1-50	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all trees, no retention with the small stand. EGLE will have to be contacted to determine if any permits are required for access</p> <p><u>Specs:</u> to harvest this stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple and any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> The treatment is designed to regenerate the aspen and maple that will be lost without the harvest. The stand is limiting factor due to</p> <p><u>Comment:</u> unknown access through private. Access is limited through the low wet area as well.</p> <p><u>Site Condition</u> Unknown Access</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
37 33089037-Cut	3.0	6115 - Lowland Ash	Poletimber Well	72	Unspec ified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees except stay out of the drainage area in the area of the center of the stand. EGLE will have to be contacted to determine if any permits are required for access to harvest this stand.</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> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand is limited factor due to access unknown through private and difficult access due to the beaver flooding. This treatment is intended to salvage the ash while the treatment is applied to the north and south.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
45 33089045-Cut	9.2	4130 - Aspen	Poletimber Well	76	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all the merchantable trees. Some of the aspen regeneration and maple regeneration established will continue.</p> <p><u>Specs:</u> EGLE will have to be contacted to determine if any permits are required for access to harvest this stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access is limited through private with unknown access. The access is also limited by the beaver flooding. This treatment is intended to remove the mature timber and allow the regeneration of the existing under</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
48 33089048-Cut	40.3	4130 - Aspen	Poletimber Well	45	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all trees and leave retention determined at the time of sale prep. The stand is broken apart in order to distribute the age classes within this aspen complex.</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> Any mix of the overstory species</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand is limited factor due to unknown access through the private landowner. This treatment will help to distribute the aspen age classes within this compartment. Other aspen stands in the 40-50 year range to the north can be treated next treatment period. This access is not limited by the beaver flooding area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
65 33089065-Monitor	155.7	6229 - Mixed lowland shrub	Nonstocked		Immature	Monitoring	Natural Regen (Re-Inventory)	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u> Monitor the regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Tamarack, black spruce and mix of the lowland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was cut and completed in 2012 and regeneration may take some time to get above the snow level.</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
68 33089068-Cut	4.4	4130 - Aspen	Poletimber Well	49	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all trees with no retention left. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen and any mix of the overstory species. <u>Regen:</u> <u>Other</u> This stand is limited factor due to access unknown through private. Small stand but if someone is interested this could be done. This <u>Comment:</u> treatment will maintain the aspen resource and help to distribute the aspen age classes. <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2021</p>										

Approved Treatments:

49 33089049-Monitor	33.3	622 - Lowland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6121 - Tamarack	Two-Aged	No
<p><u>Prescription</u> Continue to monitor the regeneration here. The tamarack and spruce should be above the snow during the next inventory cycle. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> tamarack and any mix of the existing overstory species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 283.2

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 89
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2B	4A	5C	2G	3L	5E
434	364	70	0	Aspen	70	0			0	
352	0	0	352	Cedar		0			352	
30	0	0	30	Lowland Conifers					30	
124	25	33	66	Lowland Deciduous	3	30		30	36	
56	56	0	0	Lowland Mixed Forest					0	
227	226	0	0	Lowland Shrub		0			0	
91	79	12	0	Lowland Spruce/Fir			12			
72	72	0	0	Marsh		0			0	
15	0	15	0	Mixed Upland Deciduous			15			
53	32	21	0	Northern Hardwood	21					
359	78	159	122	Tamarack		132	26		95	27
16	16	0	0	Water						
1,828	949	310	570	Total Forested Acres	94	162	53	30	513	27
	52%	17%	31%	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	2B: Unknown if access through adjacent landowner(s) is possible	21	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: New landowner unknown if access if feasible through. Access is across beaver flooding area.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Areas of poor quality black ash with significant areas of rutting potential.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 89
Year of Entry: 2022

3	Unavailable	3L: Other wildlife concerns	382	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High amount of northern white cedar. Lack of treatment due to Deer Winter Range Guidelines.							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: Unknown if the access is available through the new landowner. Access may also be restricted due to the beaver flooding.							
5	Available	4A: No Markets Available for these Forest Products	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	4A: No Markets Available for these Forest Products	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	4A: No Markets Available for these Forest Products	81	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit

Dan Racine : Examiner

Compartment: 89

Year of Entry: 2022

9	Unavailable	3L: Other wildlife concerns	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Poor quality heavy tag alder and 4-6 inch diameter black ash with cedar.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: If feasible to harvest some portions of this stand when stand 12 gets harvested.							
11	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unknown access through new landowner. Access will be difficult across stand 25.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is currently regenerating. If a treatment is ever done, coming from the north through stand 36 is when this one could be potentially treated.							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	3	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: Access through private in unknown and access across the beaver flooding is unknown.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 89
Year of Entry: 2022

14	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	2B: Unknown if access through adjacent landowner(s) is possible	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unknown if the access through the private landowner is possible.							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small diameter timber and not enough to work with to not cause significant rutting.							
18	Unavailable	3L: Other wildlife concerns	95	Unspecified	Unspecified	Unspecified	Unspecified
Comments: With the cedar percentage here regeneration is not feasible nor harvesting without doing significant rutting without a clearcut or seed tree leaving clumps and cutting most of the cedar.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 89
Year of Entry: 2022

19	Available	2B: Unknown if access through adjacent landowner(s) is possible	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unknown the landowner for access to this treatment.							

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	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	Poletimber Well	4.6	80	Unspecified	N/A	cedar, 1 - 2 sticks tall, small dbh (7"). Balsam fir, Ash and Paper birch scattered throughout the stand.																																																							
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2	4130 - Aspen	Sapling Well	14.9	15	Immature	N/A	Treated in 2005 under permit 330060201, Days River Headwater. Small patches of hardwood thinned and included in this stand.																																																							
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3	4134 - Aspen, Spruce/Fir	Poletimber Well	31.3	45	Unspecified	N/A	This stand should wait one treatment period. Treat with stands 4 and the next treatment period. Most of this aspen is 6-8 inches.																																																							
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4	4110 - Sugar Maple Association	Sawtimber Well	12.7	82	51-80	N/A	Western portion of this stand was cut in 2015 under the 89 North sale. Small patch of younger timber in NE Corner of stand (mix of A, Rm, Sm, Fb, Sp.). Some good maple regen in places.																																																							
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5	4110 - Sugar Maple Association	Sawtimber Well	14.8	82	51-80	N/A	This stand was cut under the 89 North timber sale in 2015. Excellent maple regeneration ranging from 1' - 20' feet tall. Previously the stand was treated in 2005 under contract 330060201, Days River Headwater Sale.																																																							
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6	6220 - Alder/willow	Nonstocked	3.4		Unspecified	No	Beaver Flooding, dead standing timber, tag alder.																																																							



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7	6120 - Lowland Cedar	Poletimber Well	6.7	110	Unspecified	N/A	Good quality cedar, straight 3-4 sticks, 9"dbh.																																																			
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8	4130 - Aspen	Poletimber Well	11.8	33	Unspecified	N/A	Fully stocked stand (A, P, Fb). South tip has 1-2 acre patch of mature timber, predominately Aspen. May be ready the next treatment period.																																																			
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9	6120 - Lowland Cedar	Poletimber Well	22.9	120	Unspecified	N/A	I walked through the east side which is closer to 9 inches and the west is much smaller diameter. Poor quality cedar. Heavy tag alder understory.																																																			
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10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	29.8	115	Unspecified	N/A	cedar with Tam and Sp.. Pockets of Rm, Wb scattered throughout. Hardwood pocket on the south end. If this stand ever gets treated then treat along with stand 3 and the hardwood stands 4 and 5.																																																			
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11	500 - Water	Nonstocked	11.1		Unspecified	No	Beaver Pond.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
12	4130 - Aspen	Poletimber Well	25.1	43	Unspecified	N/A	Beaver are active in this stand. They are blocking the drainage that flows from West to East. North part of stand contains P with A, South part is predominately A with some pockets of P. There is some maple regen in the understory. The finger to the west of the skid road is red maple and mixed open stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		80	Pole	7	43	Sugar Maple		
Balsam Poplar		20	Pole	7		Red Maple		
						Paper Birch		
						Tag Alder		
						Black Ash		
						Balsam Fir		
13	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	21.1	75	81-110	N/A	This is an area of more northern hardwood with some aspen to the east and more aspen and red maple to the west. The west portion of this stand and stands 15 and 20 are similar. Manage for final harvest and attempt to regenerate.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		25	Log/Pole	14	75	Red Maple		
Paper Birch		10	Log/Pole	10		Balsam Fir		
Quaking Aspen		25	Log	12	75	Tag Alder		
Balsam Fir		5	Pole	9		Hazelnut (Beaked)		
Sugar Maple		20	Log/Pole	12				
Basswood		5	Log	12				
Black Cherry		5	Log/Pole	10				
Yellow Birch		5	Log/Pole	12				
14	6118 - Lowland Deciduous with Cedar	Poletimber Well	30.1	80	Unspecified	N/A	Southern tip has Red maple, Aspen, Paper birch on a ridge. North is predominately black ash and cedar with other mixed lowland Hardwoods and yellow birch. Small run of timber in some areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Pole	9		Balsam Fir		
Quaking Aspen		5	Pole	9		Black Ash		
Balsam Poplar		5	Pole	7		Tag Alder		
Balsam Fir		5	Pole	8				
Northern White Cedar		20	Pole	6				
Black Ash		60	Pole	8	80			
15	4130 - Aspen	Poletimber Well	9.8	75	Unspecified	N/A	This is a stand of over-mature aspen and red maple with heavy hazel in some areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		25	Log	10		Red Maple		
Paper Birch		10	Pole	10		Balsam Fir		
Quaking Aspen		60	Log/Pole	11	75	Tag Alder		
Balsam Fir		5	Pole	8		Hazelnut (Beaked)		
16	500 - Water	Nonstocked	1.0		Unspecified	No	Beaver Pond.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	4130 - Aspen	Sapling Well	13.9	5	Immature	N/A	This stand was cut under the 89 North Sale completed in 2015.
Canopy Species		% Cover	Size Class	DBH		Age	
Red Maple		10	Sapling	1			
Quaking Aspen		70	Sapling	1		5	
Balsam Fir		5	Sapling	1			
Black Ash		5	Sapling	1			
Balsam Poplar		10	Sapling	1			
Sub-Canopy Species		Density	Avg. Height		Size		
Balsam Poplar		Low	< 5 feet		Sapling		
Balsam Fir		Medium	< 5 feet		Sapling		
Red Osier Dogwood		Low	5 - 10 feet		Tall Shrub		
18	6121 - Tamarack	Poletimber Well	26.4	70	1-50	N/A	Tamarack stand that has lots of tag alder under with areas of not a lot of merchantable timber.
Canopy Species		% Cover	Size Class	DBH		Age	
Black Spruce		20	Pole	7			
Tamarack		80	Pole	8		70	
Sub-Canopy Species		Density	Avg. Height		Size		
Balsam Fir		Low	10 - 20 feet		Sapling		
Black Spruce		Low	10 - 20 feet		Sapling		
Tamarack		Medium	10 - 20 feet		Sapling		
Tag Alder		Full	5 - 10 feet		Tall Shrub		
19	6121 - Tamarack	Sapling Medium	78.4	40	Unspecified	N/A	Bog area that is filling in with Taramack, Spruce and Cedar. Some of the Tamarack is 1 stick but majority is submerchantable. There are pockets of cedar scattered throughout this stand.
Canopy Species		% Cover	Size Class	DBH		Age	
Black Spruce		20	Sapling/Pole	5			
Northern White Cedar		5	Sapling/Pole	5			
Tamarack		50	Sapling/Pole	4		40	
Black Ash		25	Sapling/Pole	4			
Sub-Canopy Species		Density	Avg. Height		Size		
Black Spruce		Medium	10 - 20 feet		Sapling		
Tamarack		Medium	10 - 20 feet		Sapling		
Tag Alder		High	< 5 feet		Tall Shrub		
20	4139 - Aspen, Mixed Deciduous	Sawtimber Well	6.4	70	1-50	N/A	Over mature stand of timber with difficult access to the west portion.
Canopy Species		% Cover	Size Class	DBH		Age	
Red Maple		50	Log	14		82	
Paper Birch		5	Pole	9			
Quaking Aspen		40	Log	12		70	
Balsam Fir		5	Pole	9			
Sub-Canopy Species		Density	Avg. Height		Size		
Red Maple		Low	10 - 20 feet		Sapling		
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Hazelnut (Beaked)		High	5 - 10 feet		Tall Shrub		
Quaking Aspen		Medium	10 - 20 feet		Sapling		
22	623 - Emergent Wetland	Nonstocked	35.7		Unspecified	No	Old beaver pond, now is bog with blueberry and leatherleaf.
23	6239 - Mixed Emergent Wetland	Nonstocked	5.4		Unspecified	No	Old beaver flooding filling in with catails and willow. only water is along road edge on east side of stand.
24	4119 - Mixed Northern Hardwoods	Poletimber Well	4.4	82	51-80	N/A	This stand was unit 4 of the 89 North Timber sale. The unit was marked with all 3 or more stick aspen spruce and fir being harvested.
25	622 - Lowland Shrub	Nonstocked	5.7		Unspecified	No	Dried up beaver pond, filling in with grasses, willow and tag alder.
26	6229 - Mixed lowland shrub	Nonstocked	13.7		Unspecified	No	Old beaver flooding, filling in with grass, willow still has water



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
27	622 - Lowland Shrub	Nonstocked	4.5		Unspecified	No	Lowland shrub with scattered black ash. this was an old beaver flooding but is filling in with tag alder, Rm and Fb.																																										
28	4130 - Aspen	Sapling Well	19.8	15	Unspecified	N/A	Treated in 2005 under contract 330040201, Leftover Aspen Sale.																																										
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29	4130 - Aspen	Poletimber Well	15.1	29	Unspecified	N/A	Nice stand of fully stocked aspen with pockets of balm. Stand was treated under contract 330089002.																																										
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31	500 - Water	Nonstocked	3.9		Unspecified	No	Beaver Flooding.																																										
33	4130 - Aspen	Sapling Well	45.3	15	Unspecified	N/A	Stand treated in 2005 under contract 330040201, Leftover Aspen Sale. There is a pocket of lowland conifer in the middle of stand (includes T, C and Spruce). The southeast portion has a low swale with black ash mixed in along the edge of stand 45.																																										
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34	6239 - Mixed Emergent Wetland	Nonstocked	5.9		Unspecified	No	Tag alder with scattered dead timber. Old beaver flooding.																																										
35	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.3	80	1-50	N/A	Residual Rm and Fb, 7-8"dbh, 3 sticks tall. Balm and Aspen is regenerating where stand has been opened up. Black ash here as well. Treated in 1998 under permit 330299201, Beaver Flooding Aspen.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	55.7	88	Unspecified	N/A	Primarily black ash with Rm, Wb, C, Fb and T. Tamarack and cedar are heavy in some areas and the balsam fir is scattered throughout. Very wet ground. The NW corner of stand contains an area of Tamarack.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Sapling	7		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	5	Sapling/Pole	4		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Sapling/Pole	4		Black Ash	Low	5 - 10 feet	Sapling
Northern White Cedar	25	Pole	7		Tag Alder	High	10 - 20 feet	Tall Shrub
Tamarack	15	Pole	7					

37	6115 - Lowland Ash	Poletimber Well	3.5	72	Unspecified	N/A	Yellow birch here as well.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Balsam Fir	Low	< 5 feet	Sapling
Balsam Poplar	5	Pole	7		Willow spp.	Medium	< 5 feet	Tall Shrub
Balsam Fir	5	Pole	6					
Black Ash	75	Pole	8	72				
Tamarack	5	Pole	8					
Black Spruce	5	Pole	8					

38	6239 - Mixed Emergent Wetland	Nonstocked	6.7		Unspecified	No	Old beaver dam, Dead standing timber.
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40	6115 - Lowland Ash	Poletimber Well	36.4	90	Unspecified	N/A	Very wet. Thick tag alder in understory. Poor site.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Balsam Poplar	3	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	10	Sapling/Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	15	Pole	7					
Black Ash	65	Pole/Sapling	5	90				
Paper Birch	5	Sapling/Pole	3					

41	4130 - Aspen	Sapling Well	63.8	2	Immature	N/A	This stand was unit 5 of the E&G mix timber sale. The east half was cut first and following with the west side. There are some open areas with cattails in the lowest spots. Balm is these low areas as well.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	
Quaking Aspen	75	Sapling	1	2
Balsam Fir	10	Sapling	1	
Balsam Poplar	10	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
42	4130 - Aspen	Sapling Well	70.8	22	Unspecified	N/A	Low ground=P3; High Ground=A3. Rm, Ch, Willow in understory. Stand has low wet areas that run N & S. Those areas contain more P than A, but overall stand is a A3/A4. Stand was treated under contract 330049201, Days River Headwater.																																										
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43	4130 - Aspen	Sapling Well	5.2	15	Unspecified	N/A	Treated in 2005, under contract 330040201, Leftover Aspen sale. Excellent Regeneration.																																										
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44	4130 - Aspen	Sapling Well	4.8	15	Unspecified	N/A	Treated in 2005 under contract 330040201, Leftover Aspen Sale																																										
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45	4130 - Aspen	Poletimber Well	9.2	76	51-80	N/A	Could consider this a two-aged stand in some areas. Over mature aspen to the east and more black ash to the west along the stand 33 line.																																										
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46	6115 - Lowland Ash	Poletimber Well	18.2	71	Unspecified	N/A																																											
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47	6239 - Mixed Emergent Wetland	Nonstocked	4.1		Unspecified	No	South edge of beaver flooding.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	4130 - Aspen	Poletimber Well	75.6	45	51-80	N/A	Treated in 1975. Lots of Rm regeneration in the SW corner of stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		2	Pole	10		Red Maple	
Quaking Aspen		85	Log/Pole	10	45	Medium	
Balsam Fir		3	Sapling/Pole	4		Medium	
Bigtooth Aspen		10	Log/Pole	10		High	
						Avg. Height	
						5 - 10 feet	
						Size	
						Sapling	
						Sapling	
						Tall Shrub	
49	622 - Lowland Shrub	Nonstocked	33.3	0	Unspecified	6121 - Tamarack	This was unit 6 of the E&G mix timber sale. Some seed trees that were left on the west side are dead from what appears ELB. No seed trees left on the east side.
50	6120 - Lowland Cedar	Poletimber Medium	37.3	90	Unspecified	N/A	Heavy to cedar with tamarack and spruce mixed in. Small diameters with 75+ and 50-75 areas
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	6		Balsam Fir	
Northern White Cedar		70	Pole	5	90	Low	
Tamarack		25	Pole	7		High	
						Avg. Height	
						< 5 feet	
						Size	
						Sapling	
						Tall Shrub	
51	6115 - Lowland Ash	Poletimber Well	6.4	72	Unspecified	N/A	Very wet. Small diameter 5-6"dbh, 1 stick tall
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		2	Sapling/Pole	5		Balsam Fir	
Balsam Fir		3	Sapling/Pole	5		Medium	
Black Ash		95	Pole	6	72	High	
						Low	
						Avg. Height	
						< 5 feet	
						Size	
						Sapling	
						Tall Shrub	
						Tall Shrub	
53	6121 - Tamarack	Poletimber Well	80.8	70	Unspecified	N/A	Some large tamarack and spruce, majority is 5-7"dbh. Scattered patches of cedar to the east, more tam and spr to the west. No treatment is needed
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		15	Pole	7		Balsam Fir	
Northern White Cedar		5	Pole	6		Low	
Tamarack		80	Pole	7	70	High	
						Avg. Height	
						5 - 10 feet	
						Size	
						Sapling	
						Tall Shrub	
54	6121 - Tamarack	Poletimber Well	51.7	70	1-50	N/A	Almost pure Tamarack. Small run of timber 5-7 inches. Merchantable Tam BA=20.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	7		Balsam Fir	
Tamarack		90	Pole	7	70	Medium	
Northern White Cedar		5	Pole	5		Low	
						Full	
						Avg. Height	
						5 - 10 feet	
						Size	
						Sapling	
						Tall Shrub	
55	6120 - Lowland Cedar	Poletimber Well	239.9	92	Unspecified	N/A	Cedar and Tamarack are small diameter and short, quality is poor. Lots of cedar regeneration 6"- 6' tall. South edge has bigger timber, 3 sticks and 7-8" dbh.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Sapling/Pole	4		Northern White Cedar	
Northern White Cedar		70	Pole	6	92	High	
Tamarack		15	Sapling/Pole	4	89	High	
Black Ash		5	Pole	6		Avg. Height	
Paper Birch		5	Pole	6		< 5 feet	
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						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
56	6239 - Mixed Emergent Wetland	Nonstocked	7.1		Unspecified	No	Beaver flooding.																																																									
57	6120 - Lowland Cedar	Poletimber Well	40.5	92	Unspecified	N/A	Cedar and Tamarack are small diameter and short poor quality. Lots of cedar regen in the understory 6"-6' tall.																																																									
58	4130 - Aspen	Poletimber Well	6.3	35	Unspecified	N/A	Beaver activity along SW edge. Young fully stocked stand. Northeast pocket has beaver very active, where popple has been cut by beaver; Rm is filling in very heavy.																																																									
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59	6122 - Black Spruce	Poletimber Medium	11.7	78	1-50	N/A	Open, sparse, small diameter timber. Not sure of actual age here, very small black spruce timber.																																																									
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60	6115 - Lowland Ash	Poletimber Well	29.7	92	Unspecified	N/A	Very wet, small diamter timber.																																																									
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61	6122 - Black Spruce	Poletimber Well	78.9	72	Unspecified	N/A	Edge of stand contains bigger timber (7-9dbh, 3-4 sticks tall). Middle of stand contains smaller timber (4-7"dbh, 1-2 sticks). Previous inventory was older but aged at 67-72.																																																									
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62	622 - Lowland Shrub	Nonstocked	10.3		Unspecified	No	Willow and tag alder. Water stand merged into this stand on the east side.																																																									
64	6121 - Tamarack	Poletimber Well	95.4	77	Unspecified	N/A																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
65	6229 - Mixed lowland shrub	Nonstocked	155.7		Immature	613 - Lowland Mixed Forest	There is a decent amount of paper birch and red maple regeneration in places. The tamarack is scattered along with spruce and black ash. I was not able to find any black spruce or small tamarack with the snow depths about 3 feet deep. Monitor the regeneration for the next treatment period as I would expect more black spruce and tamarack to move from seedling to sapling and move to 5 feet or higher. At this time mostly tag alder and cattails.																											
66	6121 - Tamarack	Poletimber Poor	26.5	86	1-50	N/A	Scattered clumps of tamarack, open areas are heavy to tag alder. A T4 stand some paper birch, red maple, cedar and black ash mixed into the overstory and understory. This stand is not being treated it is to sparse and would not support operations without excessive rutting in my estimation. The stand can be retention and seed tree for the larger cut stand.																											
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67	623 - Emergent Wetland	Nonstocked	7.5		Unspecified	No	Old beaver flooding,																											
68	4130 - Aspen	Poletimber Well	4.4	49	Unspecified	N/A	Small upland of timber. Access is restricted by private land. Landowner to the south would have to be contacted for access when stand is ready for harvest, possibly next treatment period.																											
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