



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63089

Entry Year 2025

Acreage: 3,028

County Missaukee

Management Area: High Sand Plains

Stand Examiner: Andrew Krugh

Legal Description:

T23N R6W, Sections 1-3,10,11,15,22

T24N R6W, Sections 35,36

Identified Planning Goals:

Maintain a variety of cover types while promoting age class diversity to provide favorable habitat to a variety of game and non-game species.

Soil and topography:

The soil series present in this Compartment are:

Lupton Muck – very poorly drained; Roscommon Mucky Sand – poorly drained; Montcalm/Graycalm Complex – well drained sand/loamy sand; Croswell Sand – moderately well drained.

The dominant topographical feature is the flat, poorly drained area of swamp that surrounds the Haymarsh Creek which bisects this Compartment. The ground is only marginally more drained in Section 15, and the southern portion of Section 10. In these areas, pine is mixed with the predominant aspen cover type. The northern portion of Section 1 and the northern most 40 acres in Section 35 are both well drained sand/loamy sand ridges, and consequently where the only northern hardwoods are located. The southern portion of Section 22 falls away topographically into the West Branch of the Muskegon River (located just south of the compartment boundary).

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

The compartment and surrounding area have mixed ownerships of state and private land. Farming is the major land use around the area. Hunting and trapping are quite popular in the area. There is a large parcel of land known as the Haymarsh Hunt Club that is for sale on the northern border and has been on the market for several years. The proximity to the Haymarsh Deeryard and the undeveloped nature of these parcels make them desirable for acquisition.

Unique Natural Features:

Haymarsh Creek and the surrounding area provide some unique and isolated natural wetlands for the area's wildlife, especially deer. Potamogeton Lilli and Hills Pondweed (threatened) occur in Haymarsh Creek. The proposed treatments will not negatively impact these species.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Haymarsh Creek Deeryard is in this compartment. Numerous habitat cuts have been conducted in inaccessible (high water table) areas. Any new roads built for timber sales in the compartment should be closed upon completion of harvests.

Watershed and Fisheries Considerations:

Haymarsh Creek Flows through Compartment 89. Haymarsh Creek is a Designated Trout Stream. Appropriate buffers to discourage beaver dams in trout streams are recommended. (R. O'Neal, 8/24/2013).

Wildlife Habitat Considerations:

320 acres of Pittman Roberson purchased land is located in the NE corner of the south half of the compartment.

This compartment is located in the Highplains Ecosystem, Grayling Outwash Plains Subsection, LTA 5149, 5111, and 5549. Most of the compartment is represented by LTA 5149 and 5549, containing very poorly drained peat or muck soils. Historically, these areas were conifer dominated wetlands. In the other quarter of the compartment, within LTA 5111, the predominate soil is Grayling sand, a deep, excessively drained acidic soil with low natural fertility. Pre-settlement vegetation was variable but dominated by fire dependent conifer forest, e.g., jack pine, red pine/white pine, and pine or oak/pine barrens. Wildlife habitat objectives are to maintain a variety of cover types and age class diversity. Featured species of special interest are deer, golden-winged warbler, woodcock, and ruffed grouse. (E. Victory, 8/21/13)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Saginaw and Grand River Formations and the Mississippian Michigan Formation and Bayport Limestone. The Saginaw is quarried for clay/shale, the Michigan Formation for gypsum and the Bayport for limestone in other areas of the State. A gravel pit is located in Section 36 and potential is thought to be good on the uplands. East Norwich Field is located three miles to the northeast. The field has produced over 15.9 million BO and 15.7 Bcf gas from the Devonian Richfield Formation. It is in secondary recovery operations currently. There are a few oil and gas leases in the compartment. (T. Hoane, 3/6/2013).

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for closure. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

The current survey data for this compartment is sufficient for current timber management needs.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within this compartment, although hunting and fishing opportunities are prevalent with relatively easy access to Haymarsh Creek. (T.M/N/ 7/8/13)

Fire Protection:

Being that the area is of low swampy areas, fire access would be limited with larger suppression units. Road access on the south side of the unit is good. During dry period, mop-up of a wildfire would be a concern. Ignition causes by human influence would be limited. (B. Tower, 2013).

Additional Compartment Information:

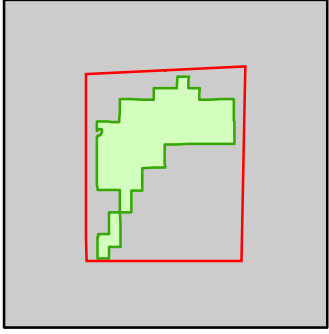
The following reports from the Inventory are attached:

- 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**

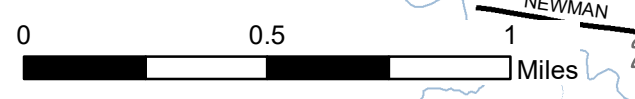
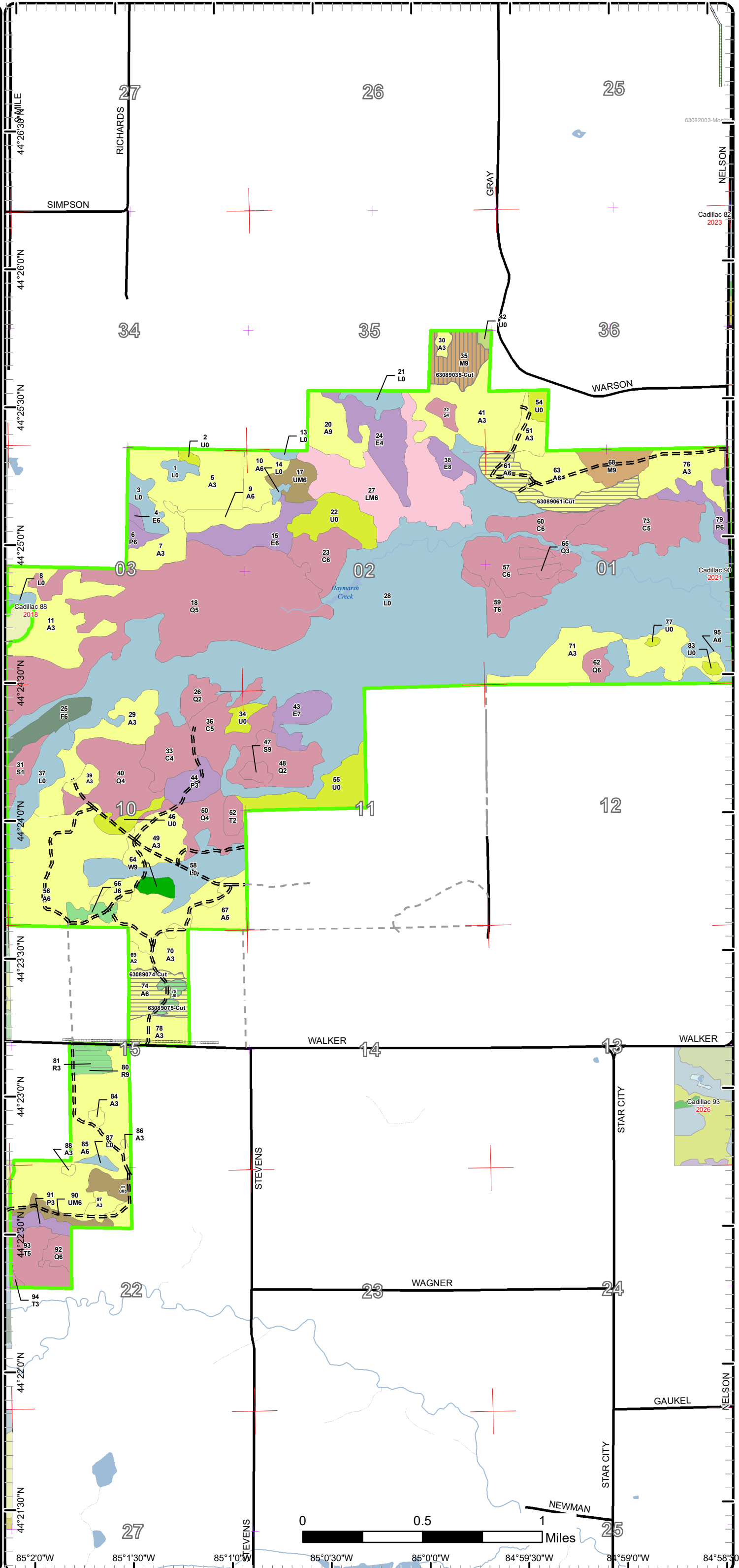
The following information is displayed, where pertinent, on the attached compartment maps:

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

Compartment: 89
 T23N-R06W Sec. 1-3,10,11,15,22
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 3027.6 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 10/19/2023
 Map Phase: Post-Maps



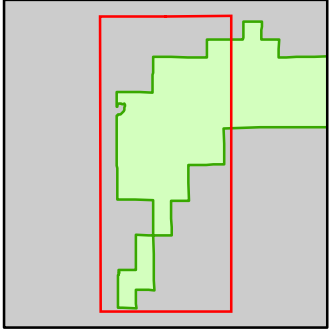
- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ▭ Compartment Boundary
- ▨ Clearcut (w/Reserves)
- ▩ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub



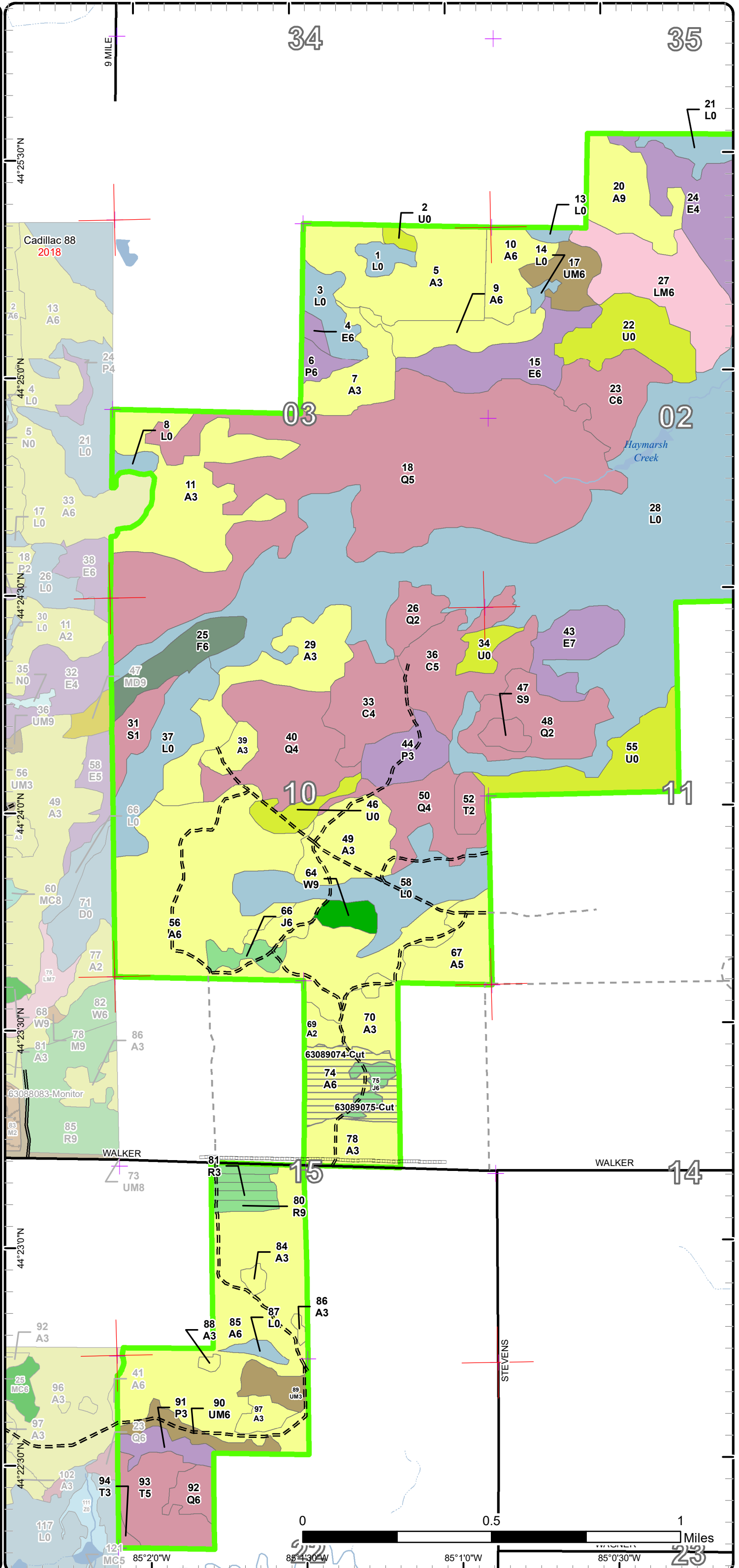
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Cover Type & Treatments Map

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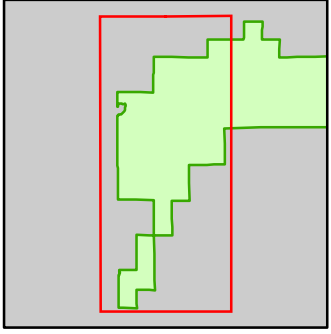


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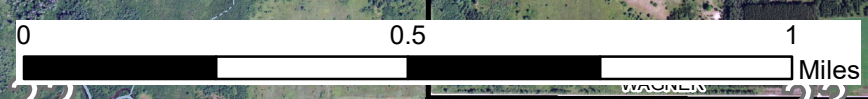
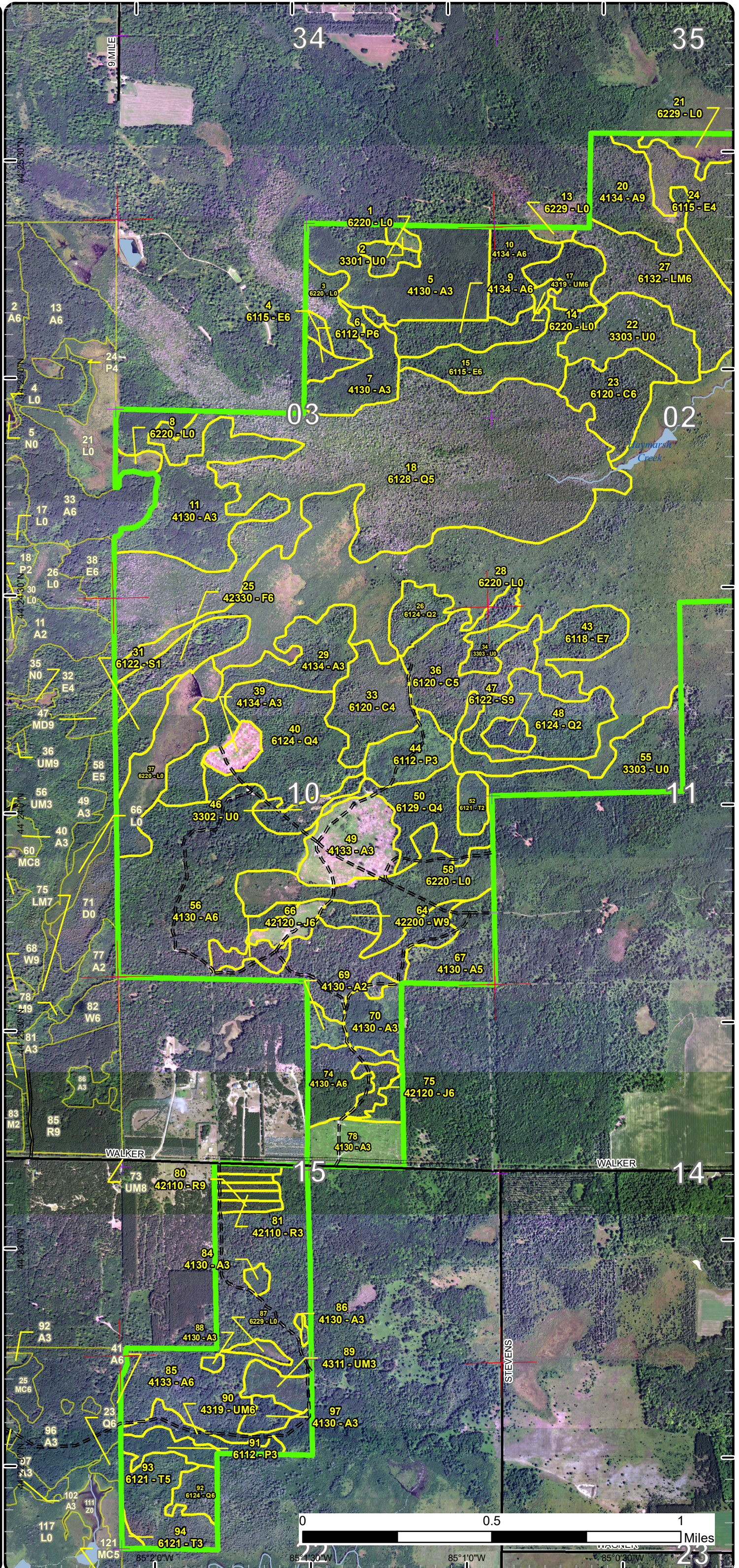


Stand Boundary Map

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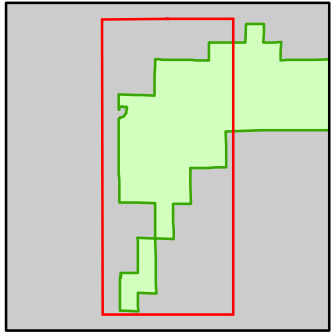


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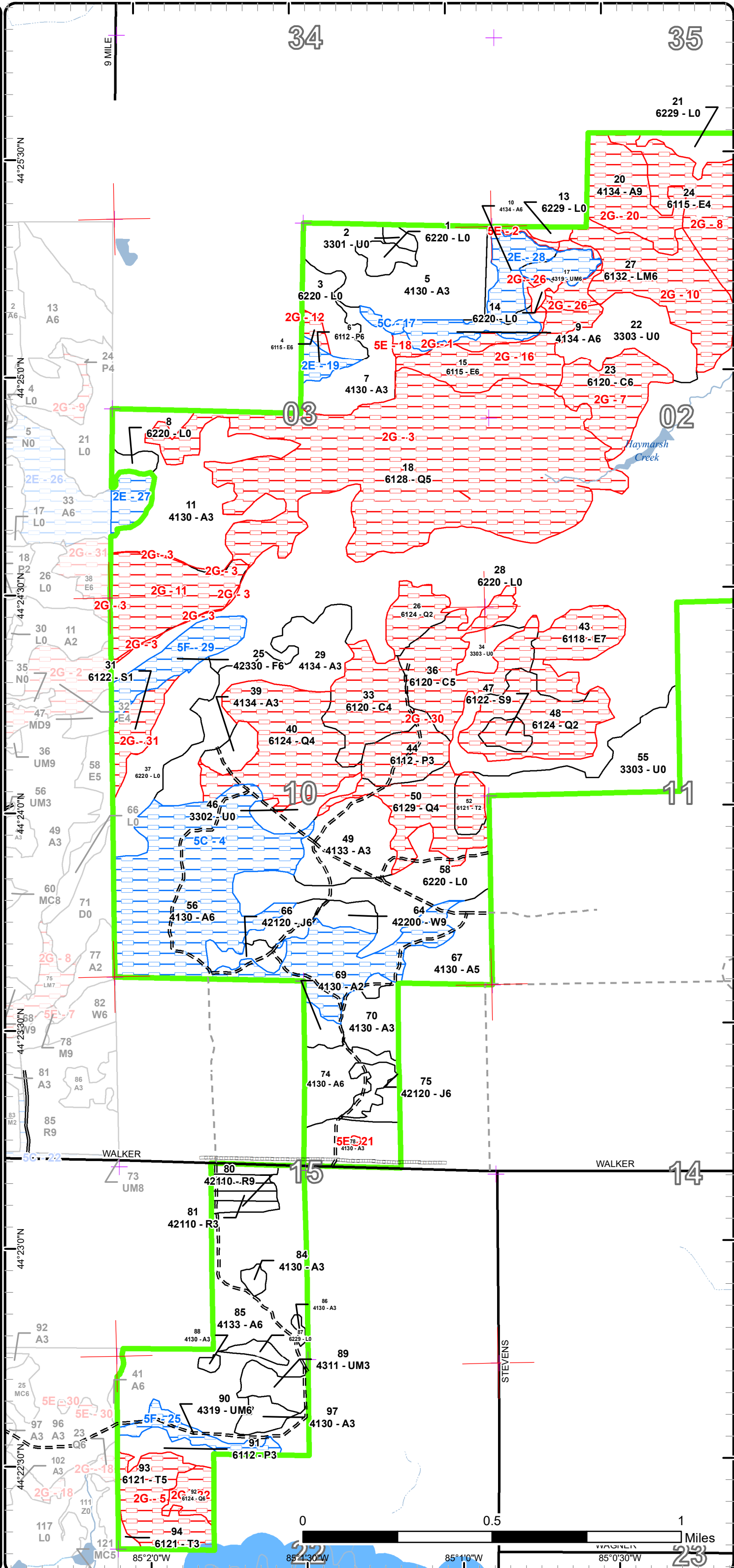


Special Conservation Areas

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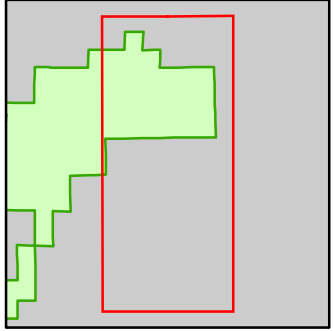


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- Pipeline
- █ Compartment Boundary
- █ Available w/ Constraints
- 2E: Road needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- █ Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

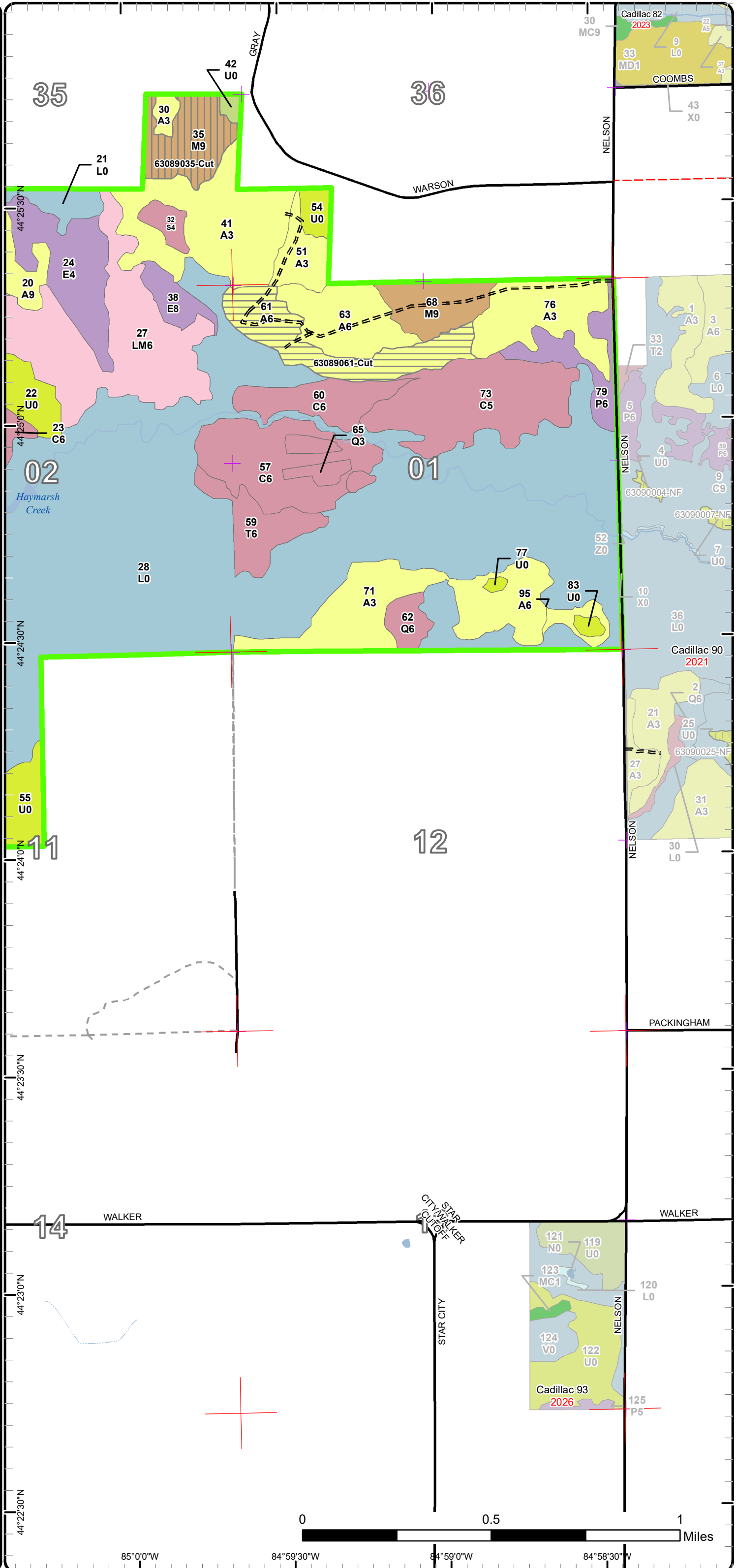


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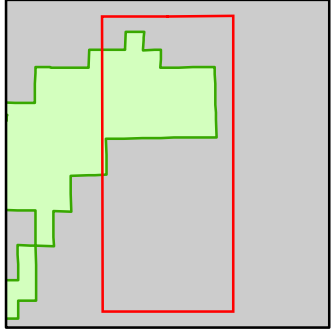


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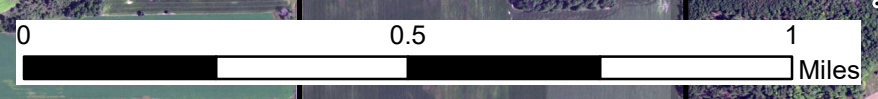
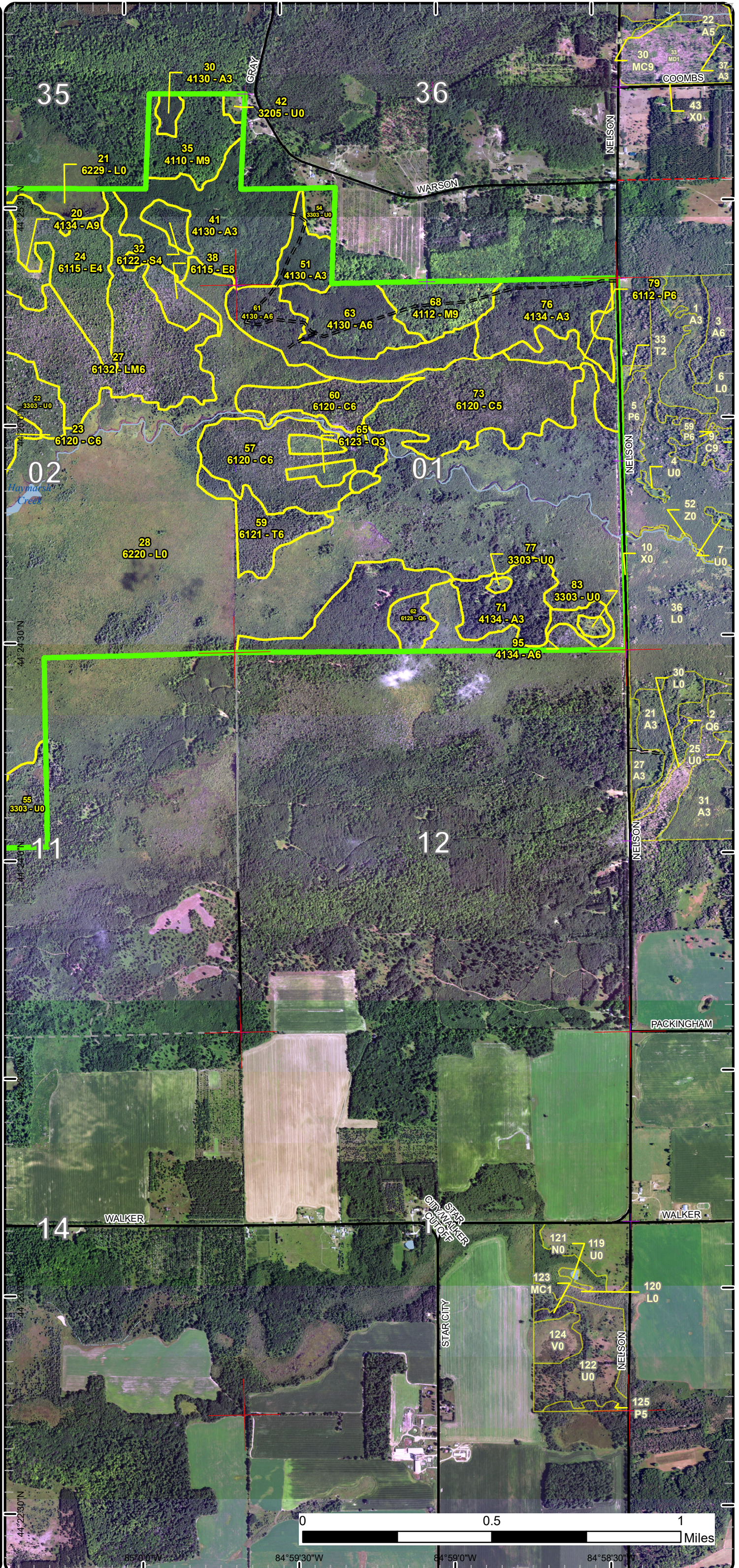


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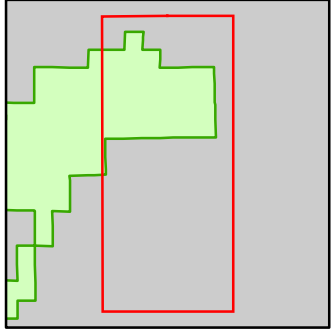
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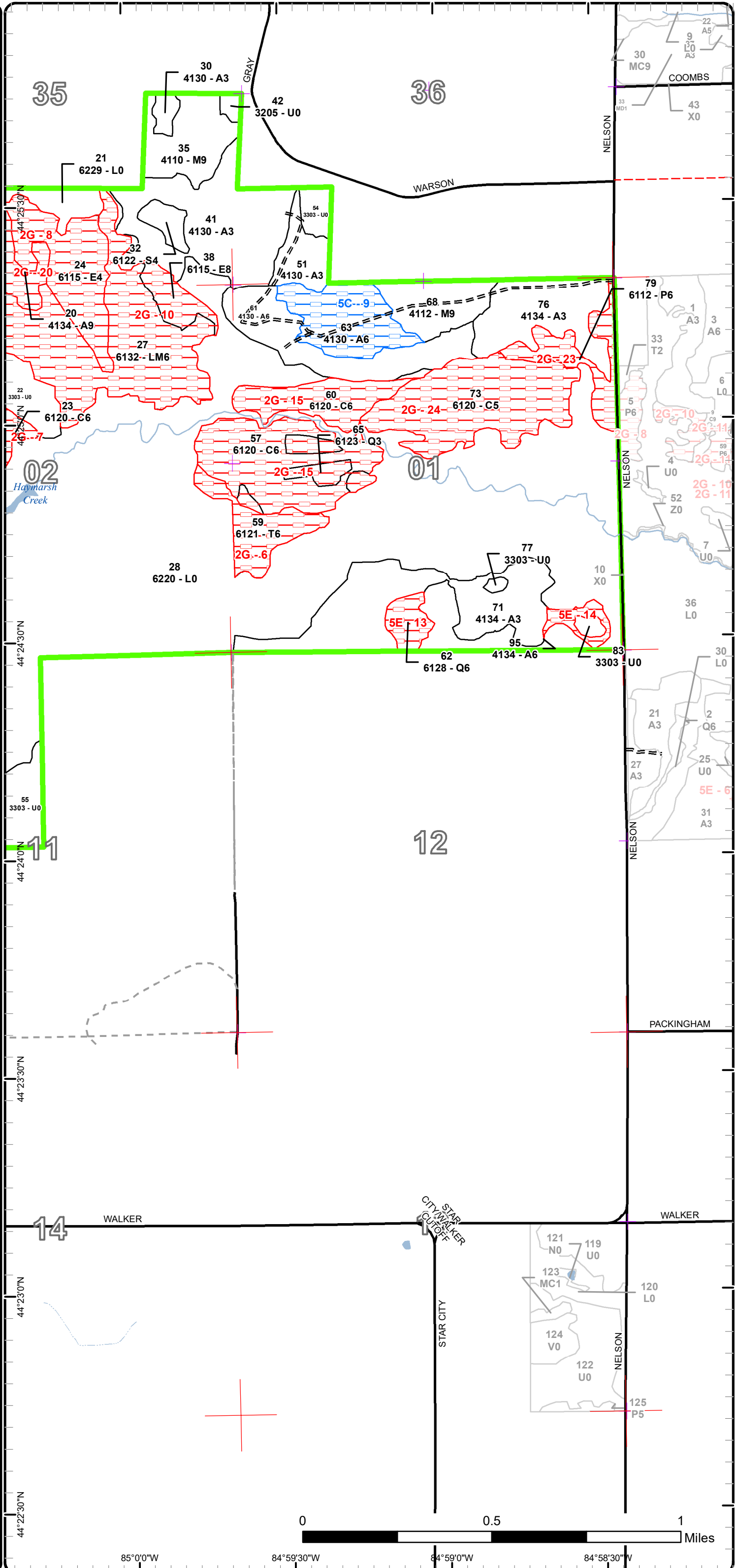
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- Stand Boundaries
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Age Class

	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	173	72	208	44	70	290	41	31	0	0	0	0	0	0	0	0	0	929
Cedar	0	0	0	0	0	0	0	0	0	0	181	29	23	0	0	0	0	0	233
Jack Pine	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	13
Low-Density Trees	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
Lowland Aspen/Balsam Poplar	0	0	0	28	0	0	26	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Conifers	0	0	0	57	0	52	0	277	28	0	9	0	0	0	0	0	0	0	423
Lowland Deciduous	0	0	0	0	0	0	0	63	33	11	0	3	0	0	0	0	0	0	109
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100
Lowland Shrub	859	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	859
Lowland Spruce/Fir	0	0	0	13	0	0	0	6	0	6	0	0	0	0	0	0	0	0	25
Northern Hardwood	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	50
Red Pine	0	0	0	5	0	0	0	0	9	0	0	0	0	0	0	0	0	0	14
Tamarack	0	0	0	10	0	0	0	0	28	0	22	0	0	0	0	0	0	0	60
Upland Mixed Forest	0	0	10	0	0	0	11	15	0	0	0	0	0	0	0	0	0	0	36
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Spruce/Fir	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	21
White Pine	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Total	958	173	82	321	44	122	340	423	129	74	312	32	23	0	0	0	0	0	3032



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 89

Total Compartment Acres: 3,028

Commercial Harvest - 97
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	63	0	0	0	0	0	0	0	0	63
Jack Pine	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	27	0	0	0	0	27
Total	69	0	0	0	27	0	0	0	0	97

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	97	0	0	0	0	0	0	0	0	97
Next Step	0	0	0	0	0	0	97	0	0	97
Total	97	0	0	0	0	0	97	0	0	194



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

35	63089035-Cut	27.4	4110 - Sugar Maple Association	Sawtimber Well	84	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Leave 60- 80 BA managing for best tree in place and focusing on leaving mast producing trees. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked maple, oak, beech, aspen, pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
61	63089061-Cut	38.9	4130 - Aspen	Poletimber Well	48	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2 inches and greater. Leave all hemlock and cedar. Leave 3-10 percent retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked aspen, maple, fir, birch, and white pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
74	63089074-Cut	24.4	4130 - Aspen	Poletimber Well	57		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest. Leave a component of red and/or white pine on the landscape. Leave a small retention pocket. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
75	63089075-Cut	6.1	42120 - Planted Jack Pine	Poletimber Well	57		Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen and mixed pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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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Total Treatment
Acreage Proposed: 96.8

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 89
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				2E	5C	5F	2G	5E
926	672	208		46	Aspen	27	182		36	10
233	1	0		232	Cedar				232	
13	13	0		0	Jack Pine					
97	97	0		0	Low-Density Trees				0	
54	9	6		38	Lowland Aspen/Balsam Poplar	6			38	
422	0	0		422	Lowland Conifers				414	9
109	0	0		109	Lowland Deciduous				109	
100	1	0		99	Lowland Mixed Forest				99	
859	859	0		0	Lowland Shrub	0			0	
25	6	0		19	Lowland Spruce/Fir				19	
50	50	0		0	Northern Hardwood					
14	14	0		0	Red Pine					
59	2	0		57	Tamarack				57	
35	10	18		7	Upland Mixed Forest	8		11	7	
2	2	0		0	Upland Shrub					
21	0	21		0	Upland Spruce/Fir			21		
7	7	0		0	White Pine					
3,028	1,745	253		1,030	Total Forested Acres	40	182	31	1,011	18
	58%	8%		34%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
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Compartment: 89
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3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	229	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	148	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 89
Year of Entry: 2025

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	109	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 89
Year of Entry: 2025

14	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	2E: Road needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 89
Year of Entry: 2025

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5F: Evaluated for Forest Health Considerations	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 89
Year of Entry: 2025

26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	2E: Road needed	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Beaver activity has compromised only road access on State land, work with wildlife and other FMD staff on building road back up or potentially using temp bridge?							
28	Available	2E: Road needed	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5F: Evaluated for Forest Health Considerations	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	252	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	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	6220 - Alder/willow	Nonstocked	6.0			No	Alder/willow dominated stand. Pocket of black spruce found within stand boundary.																																																	
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2	3301 - Low Density Deciduous Trees	Nonstocked	2.6			Managed Opening	Black Spruce regeneration site.																																																	
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3	6220 - Alder/willow	Nonstocked	14.1			No	Non-forested low density trees. Willow/alder dominated stand. Pockets of Black Spruce within stand.																																																	
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4	6115 - Lowland Ash	Poletimber Well	3.0	102	81-110	N/A	Low wet black ash stand.																																																	
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5	4130 - Aspen	Sapling Well	58.8	18		N/A	Well stocked aspen regeneration stand.																																																	
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6	6112 - Lowland Aspen	Poletimber Well	5.9	58	111-140	N/A	Aspen dominated stand with wet pockets. Stand is slightly above water table. Balsam fir found in clumps in the overstory.																																																	
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7	4130 - Aspen	Sapling Well	23.3	26	171-200	N/A	Aspen sapling stand. Some lower/wetter areas present.																																															
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9	4134 - Aspen, Spruce/Fir	Poletimber Well	20.9	69	Unspecified	N/A	Mixed stand dominated by aspen and balsam fir. Southern edge of stand is somewhat wetter. Scattered large/overmature aspen throughout stand.																																															
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10	4134 - Aspen, Spruce/Fir	Poletimber Well	19.7	64	111-140	N/A	Mature aspen stand with low wet pockets. Trace of black spruce.																																															
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11	4130 - Aspen	Sapling Well	65.1	26		N/A	Young aspen stand with traces of balsam fir, paper birch, red maple, and black cherry.																																															
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13	6229 - Mixed lowland shrub	Nonstocked	2.6			No	Flooded black ash stand. Lots of blow down. Cattails and other lowland grasses. EAB present.																																															
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14	6220 - Alder/willow	Nonstocked	2.3		Unspecified	No	Tag alder stand with standing water.																			
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15	6115 - Lowland Ash	Poletimber Well	32.8	71	51-80	N/A	Low wet mixed deciduous stand. EAB present. POckets dominated by advanced regeneration.																			
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17	4319 - Mixed Upland Forest	Poletimber Well	14.8	67	51-80	N/A	Mature aspen and balsam fir stand. Some of the larger diameter trees are breaking off. Regeneration is focused in open pockets in stand.																			
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18	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	267.7	66	51-80	N/A	Low density trees scattered throughout. Ash found in pockets. Tag alder is thick. Slight variation in water table stand, creating variable species composition. Dominate tree species varies in some pockets.																			
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20	4134 - Aspen, Spruce/Fir	Sawtimber Well	30.9	77	111-140	N/A	Wind event on southern end of stand, which blew over large balsam. Low wet ash in center of stand.																			
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21	6229 - Mixed lowland shrub	Nonstocked	10.4		Unspecified	No																																														
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22	3303 - Mixed Low Density Trees	Nonstocked	30.5		Unspecified	No	Standing water throughout stand.																																													
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23	6120 - Lowland Cedar	Poletimber Well	29.1	101	111-140	N/A	Cedar dominated stand. High water table, with soft organic soils. Nice tamarack present, with poor formed cedar.																																													
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24	6115 - Lowland Ash	Poletimber Poor	40.1	66	Unspecified	N/A	Ash dominated low wet area. Stand barely makes the 25% canopy cover.																																													
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25	42330 - Upland Fir	Poletimber Well	20.7	66	81-110	N/A	Balsam fir dominated stand. Larger overmature balsam falling out of stand. Access is challenging. Stand was prescribed but later chapter 7 as a result of difficult access and limited volume.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	6124 - Lowland Spruce-Fir	Sapling Medium	12.7	24	Unspecified	N/A	Lowland pocket of tamarack that was cc and is regenerating. There are approximately 800-1100 stems per acre of black spruce and tamarack about 10-15 feet tall. There is a small pocket of more mature trees bordering the west edge of the harvested portion these trees represent the 2nd age noted for the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Sapling	2	
Red Maple	3	Sapling	2	
Balsam Poplar	2	Sapling	2	
Tamarack	40	Sapling	2	24
Balsam Fir	20	Sapling	2	
Black Spruce	33	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
Canada Blueberry	Medium	Variable	Tall Shrub
Leatherleaf	Medium	Variable	Tall Shrub

27	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	100.1	94	Unspecified	N/A	Cedar stand with high component of black ash present. EAB present.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	50	Pole/Log	8	94
Red Maple	2	Pole	6	
Black Ash	48	Pole/Log	9	77

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

28	6220 - Alder/willow	Nonstocked	735.8			No	Stand is mostly alder with scattered trees. Walking on ice most of the time in this stand. Abundant snowshoe hare tracks.
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Sub-Canopy Species	Density	Avg. Height	Size
Alder	Full		Tall Shrub
Paper Birch	Trace		Sapling
Balsam Poplar	Trace		Sapling
Red Maple	Trace		Sapling
Tamarack	Trace		Pole
Black Ash	Trace		Sapling

29	4134 - Aspen, Spruce/Fir	Sapling Well	43.5	36	Unspecified	N/A	Variable water table. Stand is fairly well stocked to well stocked. Alder is heavy in areas. Size and diameter of trees varies with water table.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	6	Sapling/Pole	4	
Tamarack	3	Sapling/Pole	4	
Black Spruce	4	Sapling	4	
Balsam Fir	30	Sapling	3	
Red Maple	15	Pole	6	
Quaking Aspen	42	Sapling	4	36

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

30	4130 - Aspen	Sapling Well	3.9	24	Unspecified	N/A	Young aspen stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Sapling	3	
Bigtooth Aspen	55	Sapling	3	24
Quaking Aspen	37	Sapling	3	24
Red Maple	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
31	6122 - Black Spruce	Sapling Poor	13.0	29	Unspecified	N/A	Low wet mixed conifer type with scattered aspen. Small diameter due to high water table. Low density trees. Stocking on lower end of 25-50%.																																													
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32	6122 - Black Spruce	Poletimber Poor	6.4	64	Unspecified	N/A	Small black spruce pocket with majority of the stand composed of tag alder and willow.																																													
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33	6120 - Lowland Cedar	Poletimber Poor	29.9	92	Unspecified	N/A	There is a high component of tag alder in this stand with pockets of scrubby cedar and ash scattered throughout. The ash appears to be mostly dead and dying and is small and of no economic value. There is also a trace amount of balsam fir.																																													
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35	4110 - Sugar Maple Association	Sawtimber Well	27.4	84	81-110	N/A	Sugar maple dominated stand.																																													
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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	6120 - Lowland Cedar	Poletimber Medium	40.6	93	Unspecified	N/A	Nice cedar stand with some pockets that are fairly open. there is heavy regen of balsam fir and red maple in these areas.
Canopy Species	% Cover	Size Class	DBH	Age			
Northern White Cedar	88	Log	10	93			
Tamarack	2	Log	10				
Red Maple	5	Log	10				
Balsam Fir	2	Pole	8				
Paper Birch	3	Log	10				
Sub-Canopy Species	Density	Avg. Height	Size				
Tamarack	Low	< 5 feet	Sapling				
Tag Alder	Medium	5 - 10 feet	Tall Shrub				
Balsam Fir	Medium	5 - 10 feet	Sapling				
Red Maple	Medium	5 - 10 feet	Sapling				

37	6220 - Alder/willow	Nonstocked	33.0			No	
Sub-Canopy Species	Density	Avg. Height	Size				
Alder	Full		Tall Shrub				
Northern White Cedar	Trace		Pole				

38	6115 - Lowland Ash	Sawtimber Medium	10.5	87	Unspecified	N/A	Ash and alder stand. EAB present.
Canopy Species	% Cover	Size Class	DBH	Age			
Paper Birch	2	Pole	6				
Black Ash	93	Log	10	87			
Red Maple	2	Pole/Log	9				
Balsam Fir	3	Pole	8				
Sub-Canopy Species	Density	Avg. Height	Size				
Tag Alder	High	10 - 20 feet	Tall Shrub				
Red Maple	Low	10 - 20 feet	Sapling				
Balsam Fir	Low	5 - 10 feet	Sapling				

39	4134 - Aspen, Spruce/Fir	Sapling Well	7.7	7	Immature	N/A	Stand was final harvested in 2016.
Canopy Species	% Cover	Size Class	DBH	Age			
Black Spruce	2	Sapling	1				
Red Maple	4	Sapling	1				
Balsam Fir	32	Sapling	1	7			
Paper Birch	2	Sapling	1				
Quaking Aspen	60	Sapling	1	7			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	5 - 10 feet	Sapling				
Tag Alder	Low	5 - 10 feet	Tall Shrub				

40	6124 - Lowland Spruce-Fir	Poletimber Poor	51.8	47	Unspecified	N/A	Heavy alder stand with scattered trees throughout. Stand canopy closure on lower end of 25-50%.
Canopy Species	% Cover	Size Class	DBH	Age			
Balsam Fir	26	Sapling	4				
Northern White Cedar	35	Pole	4				
Black Spruce	39	Sapling	4	47			
Sub-Canopy Species	Density	Avg. Height	Size				
Quaking Aspen	Low	5 - 10 feet	Sapling				
Tag Alder	High	5 - 10 feet	Tall Shrub				
Paper Birch	Low	5 - 10 feet	Sapling				

41	4130 - Aspen	Sapling Well	62.5	28	Unspecified	N/A	Young aspen stand.
Canopy Species	% Cover	Size Class	DBH	Age			
Paper Birch	2	Sapling	3				
Quaking Aspen	95	Sapling	4	28			
Balsam Fir	3	Sapling	3				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	< 5 feet	Sapling				
Balsam Fir	Low	< 5 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
42	3205 - Mixed Upland Shrub	Nonstocked	2.4		Unspecified	No	Small pocket of sumac with a few trees and grass borders adjoining landowners yard.		
				Sub-Canopy Species	Density	Avg. Height		Size	
				Sumac	Medium			Tall Shrub	
				White Pine	Trace		Log		
43	6118 - Lowland Deciduous with Cedar	Sawtimber Poor	22.7	67	Unspecified	N/A	Fairly open grown stand with alder scattered throughout open areas. Pockets where cedar is located are more dense and rest on small rises in elevation. There is a decent amount of younger red maple filling in some of more open areas.		
				Canopy Species	% Cover	Size Class		DBH	Age
				Red Maple	63	Pole/Log		10	67
				Northern White Cedar	20	Log	10		
				Black Ash	2	Pole	8		
				Paper Birch	15	Pole	8		
				Sub-Canopy Species	Density	Avg. Height	Size		
				Tamarack	Low	< 5 feet	Sapling		
				Balsam Fir	Low	< 5 feet	Sapling		
				Tag Alder	Low	Variable	Tall Shrub		
44	6112 - Lowland Aspen	Sapling Well	18.6	24	Unspecified	N/A			
				Canopy Species	% Cover	Size Class		DBH	Age
				Balsam Fir	7	Sapling		2	
				Tamarack	2	Sapling	2		
				Quaking Aspen	85	Sapling	2	24	
				Jack Pine	4	Sapling	2		
				Paper Birch	2	Sapling	2		
				Sub-Canopy Species	Density	Avg. Height	Size		
				Canada Blueberry	Medium	Variable	Tall Shrub		
				Balsam Fir	Medium	< 5 feet	Sapling		
				Black Cherry	Low	< 5 feet	Sapling		
46	3302 - Low Density Conifer Trees	Nonstocked	10.2			No			
				Sub-Canopy Species	Density	Avg. Height		Size	
				Red Pine	Trace			Pole	
				Tamarack	Low		Pole		
				Balsam Fir	Trace		Pole		
				White Pine	Medium		Pole		
				Alder	Medium		Tall Shrub		
				Laurel	Medium		Tall Shrub		
47	6122 - Black Spruce	Sawtimber Well	5.6	81	Unspecified	N/A	Stand is a small pocket of mature black spruce. It appears that this area was once covered with large white pines there are multiple burnec out large stumps in this stand.		
				Canopy Species	% Cover	Size Class		DBH	Age
				Balsam Fir	10	Pole		8	
				Tamarack	5	Log	10		
				Red Maple	5	Pole	6		
				Black Spruce	80	Log	10	81	
				Sub-Canopy Species	Density	Avg. Height	Size		
				Black Spruce	Low	5 - 10 feet	Sapling		
				Red Maple	Medium	5 - 10 feet	Sapling		
				Canada Blueberry	Medium	Variable	Tall Shrub		
				Nannyberry	Low	Variable	Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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48 6124 - Lowland Spruce-Fir Sapling Medium 34.3 24 Unspecified N/A Average height of trees ranges between 10 and 25 feet tall depending on species and location within the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole	5		Tag Alder	Low	Variable	Tall Shrub
Red Maple	25	Pole	5		Canada Blueberry	Medium	Variable	Tall Shrub
Paper Birch	10	Pole	5		Balsam Fir	Low	< 5 feet	Sapling
Black Spruce	20	Sapling	4		Nannyberry	Low	Variable	Tall Shrub
Balsam Fir	30	Sapling/Pole	3	24				
Tamarack	10	Sapling	3					

49 4133 - Aspen, Mixed Pine Sapling Well 38.5 6 Immature N/A Mixed stand of pine and aspen. Stand was final harvested in 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	1		Quaking Aspen	Medium	5 - 10 feet	Sapling
Red Pine	5	Sapling	1	6	Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	50	Sapling	1	6				
Bigtooth Aspen	20	Sapling	1	6				
White Pine	20	Sapling	1	6				

50 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 28.1 72 Unspecified N/A The larger balsam Fir have died out and smaller trees are replacing them. Closer to the 25% canopy closer than 50%.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Labrador Tea	Medium	Variable	Tall Shrub
Tamarack	45	Pole/Log	9	72	Canada Blueberry	Medium	Variable	Tall Shrub
Black Spruce	30	Pole/Log	8		Nannyberry	Medium	Variable	Tall Shrub
Balsam Fir	15	Pole/Sapling	6		Tag Alder	Medium	Variable	Tall Shrub
Red Maple	5	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
					Black Spruce	Low	5 - 10 feet	Sapling

51 4130 - Aspen Sapling Well 14.0 28 Unspecified N/A Young aspen stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Sapling	2		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	75	Sapling	3	28	Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Fir	5	Sapling	2					
Bigtooth Aspen	17	Sapling	3					

52 6121 - Tamarack Sapling Medium 7.5 24 Unspecified N/A Young stand dominated by tamarack.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Sapling	4		Red Maple	Low	< 5 feet	Sapling
Black Spruce	10	Sapling	3		Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Fir	5	Sapling	3		Balsam Fir	Low	< 5 feet	Sapling
Tamarack	80	Sapling	3	24				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54	3303 - Mixed Low Density Trees	Nonstocked	6.5		Unspecified	No	Grass dominated opening with some sumac. Clump of white pine within the opening and a few scattered jack pine.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Jack Pine	Trace		Pole
								Sugar Maple	Trace		Pole
								Red Maple	Trace		Pole
								Sumac	Low		Tall Shrub
								White Pine	Low		Log

55	3303 - Mixed Low Density Trees	Nonstocked	36.7		Unspecified	No	A mix of low density trees with tag alder dominating the covertype. East end is more dense with trees than the west end,				
								Sub-Canopy Species	Density	Avg. Height	Size
								Tamarack	Low		Pole
								Black Spruce	Low		Pole
								Black Ash	Low		Pole
								Paper Birch	Low		Pole
								Balsam Fir	Low		Pole
								Red Maple	Low		Pole
								Tag Alder	Full		Tall Shrub

56	4130 - Aspen	Poletimber Well	148.2	57	81-110	N/A	Variable stand. Stand is mainly aspen dominated. Pockets of planted jack pine within stand. Small pockets dominated by white pine. Some balsam fir scattered throughout stand. Size class varies from sapling to pole with pockets of log size trees.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Bigtooth Aspen	23	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
								Red Maple	3	Pole	8		White Pine	Low	5 - 10 feet	Sapling
								White Pine	3	Log	12		Red Pine	Low	< 5 feet	Sapling
								Quaking Aspen	56	Pole	7	57	Jack Pine	Low	5 - 10 feet	Sapling
								Red Pine	5	Log	12		Wintergreen	Medium	< 5 feet	Tall Shrub
								Paper Birch	2	Pole	8					
								Jack Pine	8	Pole	6					

57	6120 - Lowland Cedar	Poletimber Well	46.9	99	Unspecified	N/A	Large Cedar dominated stand with a minor component of other species mixed in. Balsam fir extremely thick in understory.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	2	Pole	6		Red Maple	Low	< 5 feet	Sapling
								Paper Birch	2	Pole	6		Balsam Fir	Full	5 - 10 feet	Sapling
								Black Spruce	4	Pole	8		Black Ash	Low	< 5 feet	Sapling
								Northern White Cedar	90	Pole	8	99	Paper Birch	Low	< 5 feet	Sapling
								Quaking Aspen	2	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
58	6220 - Alder/willow	Nonstocked	47.6			No	Stand is mostly alder with scattered deciduous and conifer trees.																																													
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59	6121 - Tamarack	Poletimber Well	21.8	98		N/A	Difficult access lots of water in the stand and between the stand and dry ground.																																													
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60	6120 - Lowland Cedar	Poletimber Well	23.2	115	Unspecified	N/A	Low wet area dominated by cedar. Evidence of high water table.																																													
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61	4130 - Aspen	Poletimber Well	38.9	48	111-140	N/A	Mixed aspen balsam fir stand. Balsam fir dominates the understory.																																													
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62	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.6	92	51-80	N/A																																														
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63	4130 - Aspen	Poletimber Well	31.4	49	Unspecified	N/A	Aspen dominated stand with sugar maple and white ash advanced regeneration present.																																																
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64	42200 - Natural White Pine	Sawtimber Well	7.0	83	51-80	N/A	Aspen is located on the fringe bordering Alder. Small lowland pocket located in stand also.																																																
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65	6123 - Lowland Fir	Sapling Well	10.3	29	Unspecified	N/A	Wildlife habitat cuts. Mixed regeneration of aspen, balsam fir, tamarack, black ash, and red maple.																																																
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66	42120 - Planted Jack Pine	Poletimber Well	7.3	52	Unspecified	N/A	Stand will hold for 10 years.																																																
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67	4130 - Aspen	Poletimber Medium	23.9	27		N/A	Pole size aspen stand with a mixture of pine spread throughout. There are also several lowland pockets scattered throughout the stand.																																																
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68	4112 - Maple, Beech, Cherry Association	Sawtimber Well	22.3	84	51-80	N/A	Trace of Hemlock and yellow birch.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		5	Log	12		Beech	High	5 - 10 feet	Sapling
Sugar Maple		70	Log	12	84	Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple		25	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
69	4130 - Aspen	Sapling Medium	7.5	14	Immature	N/A	Aspen regen stand with scattered residual red pines. Stand was treated with an RX burn to prepare a seed bed for red pine. There are some scattered red pine seedlings but the stand has converted to aspen.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		50	Sapling	1	14	Red Pine	Low	< 5 feet	Sapling
Bigtooth Aspen		35	Sapling	1					
Red Pine		5	Log	14					
Red Maple		10	Sapling	1					
70	4130 - Aspen	Sapling Well	15.1	25	Immature	N/A	Good looking aspen regen stand trees are 10-25 foot tall and approaching pole size.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		60	Sapling	3	25	Red Maple	Low	< 5 feet	Sapling
Bigtooth Aspen		38	Sapling	3					
Jack Pine		2	Sapling	2					
71	4134 - Aspen, Spruce/Fir	Sapling Well	63.5	5	Immature	N/A	Grouse and hare spec		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		23	Sapling	1		Red Maple	Low	5 - 10 feet	Sapling
Northern White Cedar		2	Pole	6		Balsam Fir	Medium	10 - 20 feet	Sapling
Black Cherry		2	Pole	6					
Balsam Fir		25	Sapling	1					
Quaking Aspen		45	Sapling	1	5				
Red Maple		3	Pole	6					
73	6120 - Lowland Cedar	Poletimber Medium	63.1	94	Unspecified	N/A	Cedar and ash were more concentrated in homogeneous pockets. Pockets containing ash seemed to have a higher water table.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	8		Black Ash	Low	10 - 20 feet	Sapling
Black Ash		25	Pole	6		Tag Alder	Low	Variable	Tall Shrub
Northern White Cedar		55	Pole/Log	9	94	Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir		15	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
74	4130 - Aspen	Poletimber Well	24.4	57		N/A	Good looking aspen stand with pockets of scattered pine.																																											
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75	42120 - Planted Jack Pine	Poletimber Well	6.1	57		N/A	Poor jack pine.																																											
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76	4134 - Aspen, Spruce/Fir	Sapling Well	37.0	4	Immature	N/A	Trace of oak, hemlock and cedar.																																											
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78	4130 - Aspen	Sapling Well	19.6	7	Immature	N/A	Stand was final harvested and chipped in spring 2016.																																											
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79	6112 - Lowland Aspen	Poletimber Well	19.6	57	Unspecified	N/A	There is a trace of tamarack and balsm poplar concentrated along the road edge where there is a wet ditch. There is a tag alder pocket located at the north end of the stand bordering the road.																																											
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80	42110 - Planted Red Pine	Sawtimber Well	8.7	72	111-140	N/A	Part of a red pine/jack pine strip plantation. The jack pine was removed previously and red pine was planted where strips were removed.																																																									
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81	42110 - Planted Red Pine	Sapling Well	5.0	26	Immature	N/A	Young red pine plantation with jack pine recruits some aspen encroaching on east end.																																																									
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84	4130 - Aspen	Sapling Well	2.5	17	Unspecified	N/A	Stand has regenerated. 10-20 foot aspen regen looks good at this time.																																																									
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88	4130 - Aspen	Sapling Well	1.3	17	Unspecified	N/A	Stand has regenerated. Aspen regen 15-20 foot tall some pine coming in underneath looks good at this time.																																											
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89	4311 - Pine, Aspen Mix	Sapling Well	9.8	17	141-170	N/A	Stand has regenerated. Regeneratting jack pine with deciduous mixed in. Jack pine are 5-10 foot and the aspen are 5-20 foot. Aspen are focused in pockets.																																											
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90	4319 - Mixed Upland Forest	Poletimber Well	10.7	52	81-110	N/A	Mixed stand of aspen and balsam fir, with scattered pine and spruce along the edges.																																											
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91	6112 - Lowland Aspen	Sapling Well	9.5	27	Unspecified	N/A	Aspen regeneration stand, with balsam fir and balsam poplar mixed in.																																											
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92	6124 - Lowland Spruce-Fir	Poletimber Well	8.9	65	51-80	N/A	Lowland Spruce fir tamarack stand, with a cedar domiated inclusion. Windthrown balsam fir throughout stand.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
93	6121 - Tamarack	Poletimber Medium	28.1	72	51-80	N/A	Low wet ground. variable dominate cover type, mainly Tamarack. Where slight elevation changes, larger trees present.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		15	Pole/Sapling	5		Tag Alder	
Tamarack		73	Pole/Sapling	6	72	Density	Avg. Height
Quaking Aspen		2	Pole	6		Medium	5 - 10 feet
Balsam Fir		10	Pole	7			Tall Shrub
94	6121 - Tamarack	Sapling Well	1.7	22	Unspecified	N/A	Small diameter Tamarack stand. May be small in size due to water table.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		100	Sapling	1	22	Willow spp.	
						Low	< 5 feet
						Low	< 5 feet
95	4134 - Aspen, Spruce/Fir	Poletimber Well	5.6	59		N/A	Variable size and density. There may be some low inclusions within the stand boundary.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		20	Log/Pole	10		Red Maple	
Black Cherry		10	Pole/Sapling	6		Balsam Fir	
Balsam Fir		30	Pole	8		Black Cherry	
Quaking Aspen		35	Pole	8	59	Quaking Aspen	
Red Maple		5	Pole/Sapling	6		Medium	10 - 20 feet
97	4130 - Aspen	Sapling Well	6.3	2	Immature	N/A	Salvage cut blowdown in 2020, added to Missaukee Classic Aspen Sale .
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		10	Sapling	1			
Bigtooth Aspen		80	Sapling	1	2		
White Pine		5	Log/Pole	14			
Red Maple		5	Sapling	1			