



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63082

Entry Year 2023

Acreage: 1,857

County Missaukee

Management Area: Upper Muskegon

Revision Date: 2021-06-16

Stand Examiner: Matt Edison

Legal Description:

T24N, R5W Sections 29,30,31,32

Identified Planning Goals:

The goals of this Compartment are to manage for a diverse timber and age class to provide for recreational opportunities for the public. Much of this compartment contains wetland complexes. This entry harvest focuses on some mature aspen and pine stands, while maintaining age-class diversity.

Soil and topography:

Loamy and mucky sands, organic soils, peat and mucky peat. Level with flat lowlands.

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

Mostly blocks of state land surrounded by state swampland to north and east. Private agriculture and recreation land to south and west. Parcels listed for desirable acquisition, Section 32 SENW, north of river and SENE. All are recommended to block in state forest lands.

Unique Natural Features:

Northern wet meadow to NW, oak-pine barrens to N. Loon and dusted skipper to the north. Great blue heron rookery to E. Massasauga to N. Spotted turtle and Blanding's turtle to SE. Bald eagle and osprey to SE. Marsh birds to SE: Least bittern, common moorhen, and black tern. Fish and mussels in rivers to south: river redhouse, bigmouth shiner, rainbow. Hill's pondweed just SW of section 31. Hill's thistle and rough fescue to N. Potential for secretive locust and ebony boghaunter in bogs. Potential for massasauga, Blanding's turtle, box turtle, and spotted turtle. Potential for eagle, osprey, and great blue heron rookery. Potential for red-shouldered hawk. Potential for marsh birds: American bittern, least bittern, yellow rail, black tern, common moorhen, and marsh wren. Potential for Hill's pondweed in marshes. Potential for Hill's thistle, Alleghany plum, and rough fescue in grassy openings. Potential for calpyso and ram's head lady slipper in cedar swamps.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

Abuts Deadstream Swamp boundary but not within designated area. Large conifer swamp complex north of Rhoby Rd.

Watershed and Fisheries Considerations:

No Fisheries comments at this time

Wildlife Habitat Considerations:

Featured wildlife species include deer, bear, ruffed grouse, woodcock, and beaver. Management objectives are to retain a variety of cover types and age class diversity as well as maintain and/or enhance habitat including work on openings and edges to preserve wildlife viewing and hunting opportunities.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. No active sand/gravel pits occur in the area. Potential for sand & gravel development within the compartment appears relatively low. East Norwich Field is located one mile northeast of this compartment and another active field to the southeast, but both fields are in secondary recovery. Potential for oil & gas from known producing formations beneath the compartment is considered low at this time. There is no current leasing activity in the compartment. There is some mineral leasing activity farther to the west and southwest.

Vehicle Access:

The compartment is accessed via forest road off of Nelson Road and Rhoby Road. Access is good to most manageable areas within the compartment. Pipeline R.O.W. provides road access from north to south.

Survey Needs:

Survey work will be needed for private boundary placement on proposed treatments in Sec. 32

Recreational Facilities and Opportunities:

No formal recreation facilities within the compartment. Numerous hunting opportunities exist throughout the compartment.

Fire Protection:

Timber type would not support a large crown fire in most of the compartment. There is private land ownership around the outside of the compartment near the conifer stands. This mixture would be a urban interface concern. There is a gas transmission line of a concern, also. Wildfire protection is provided by the Houghton Lake Field Office. Local county roads border the compartment, allow equipment to respond but access to the interior of area would be hampered due to lack of interior roads. 9-01-2011 BET

Additional Compartment Information:

The following reports from the Inventory are attached:

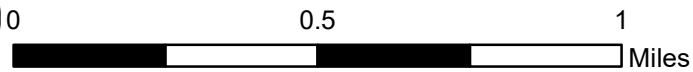
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

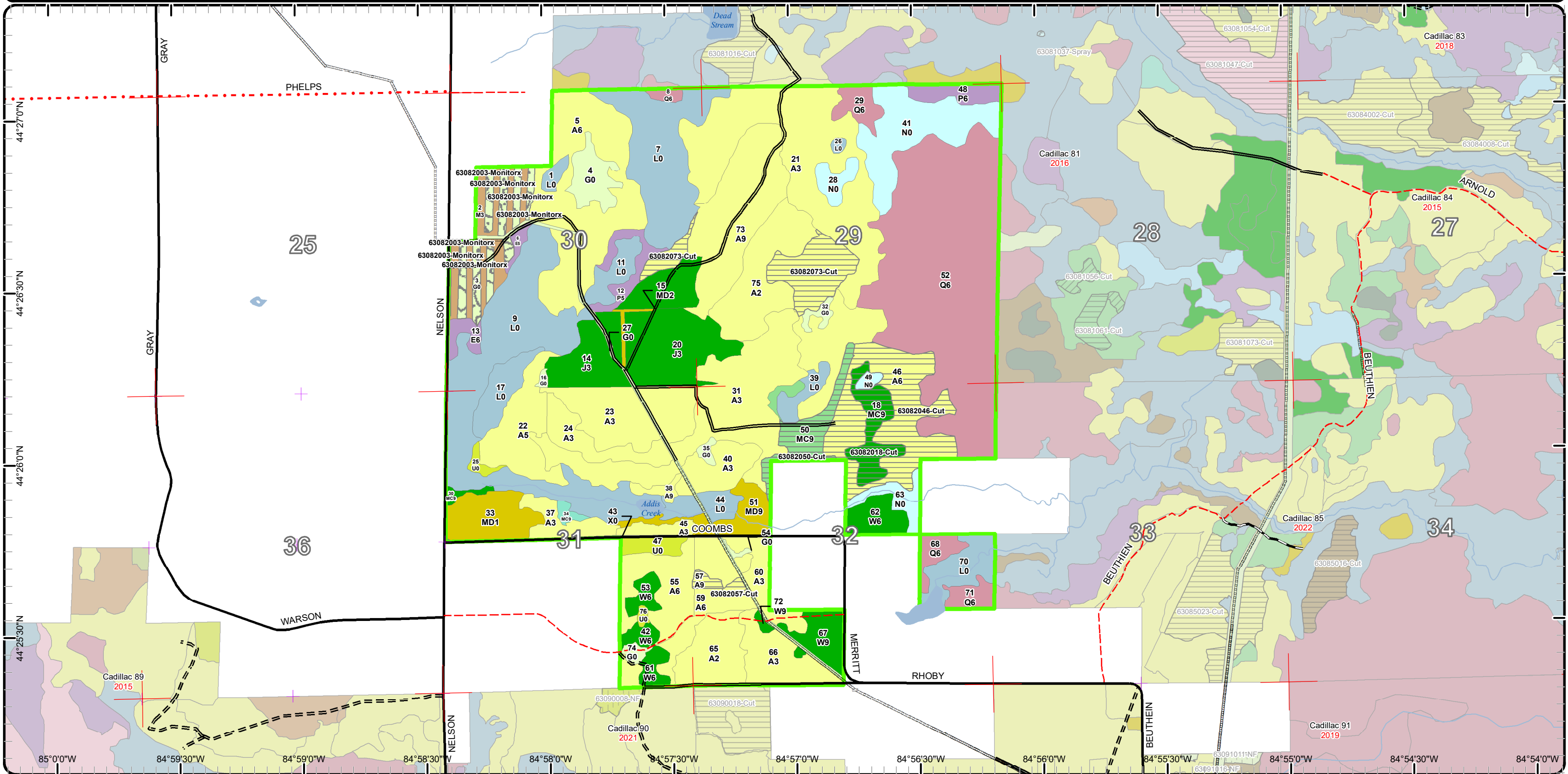
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 82
 T24N, R5W Sec. 29,30,31,32
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Upper Muskegon
 YOE: 2023
 Acres: 1856.6 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 6/16/2021
 Map Phase: Web-Post

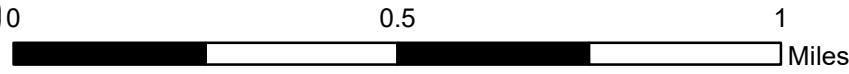


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

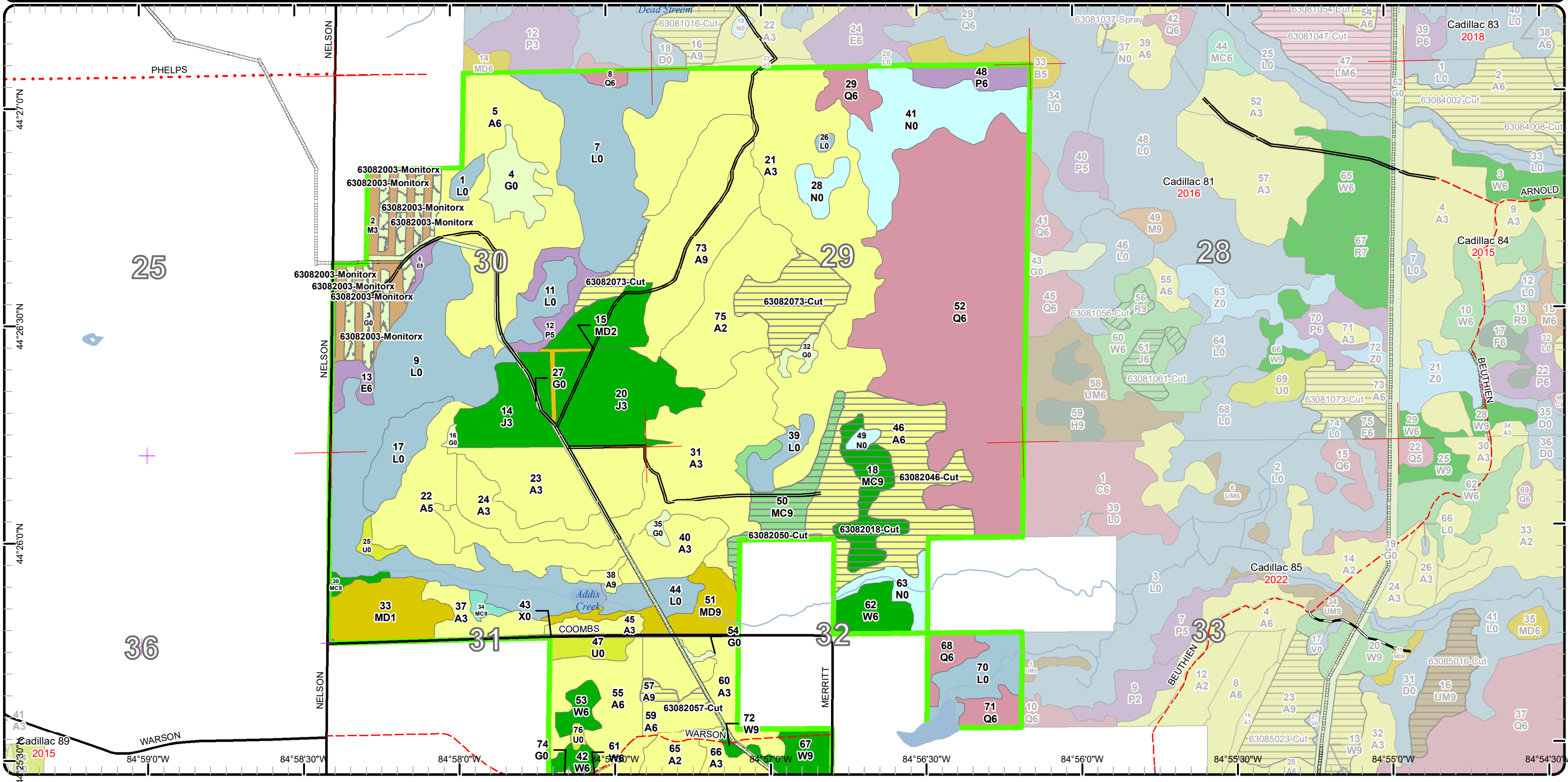


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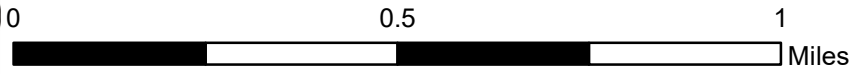


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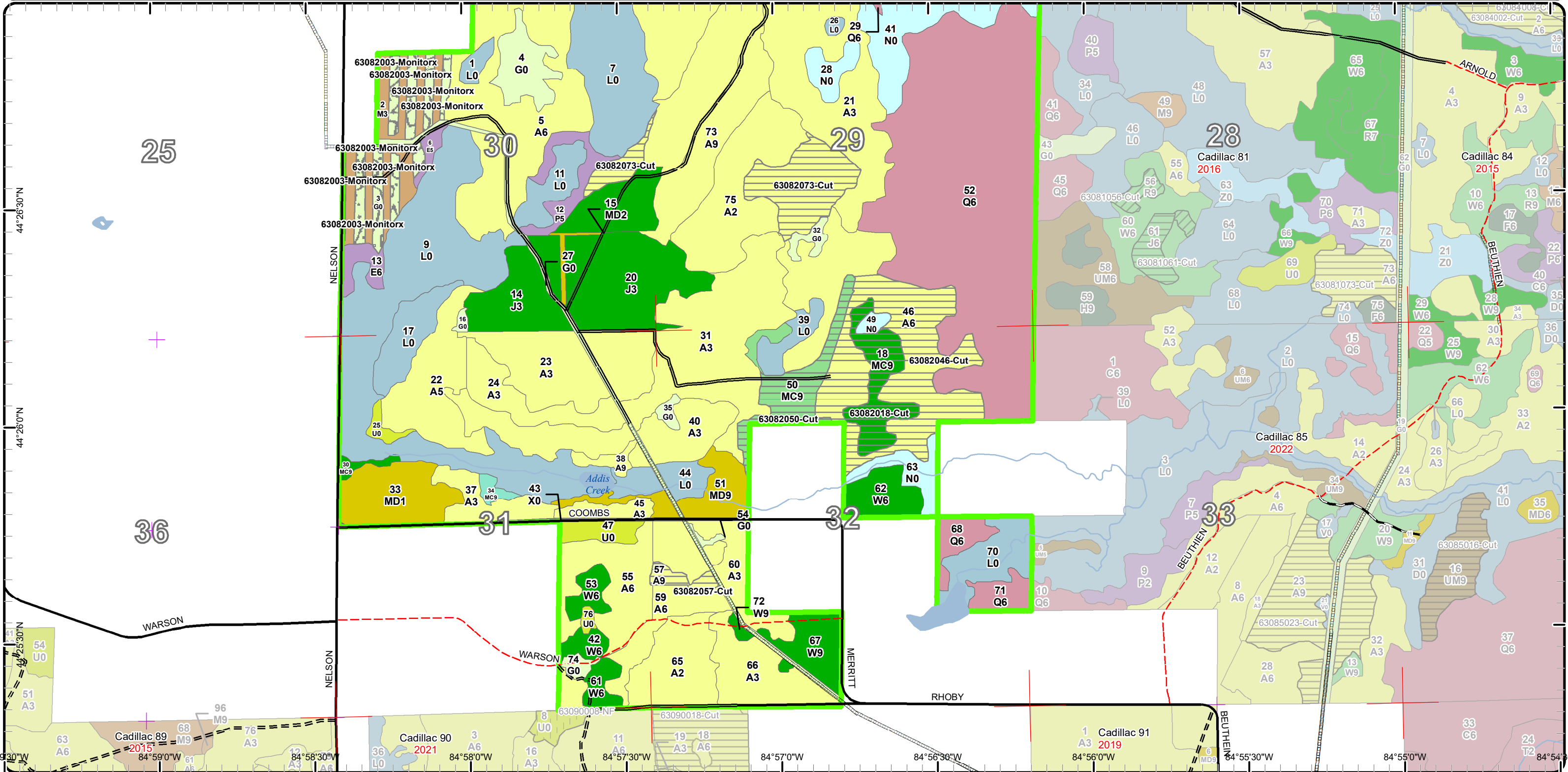


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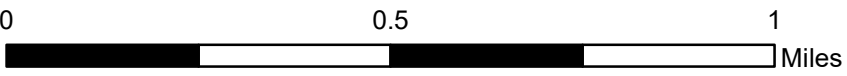


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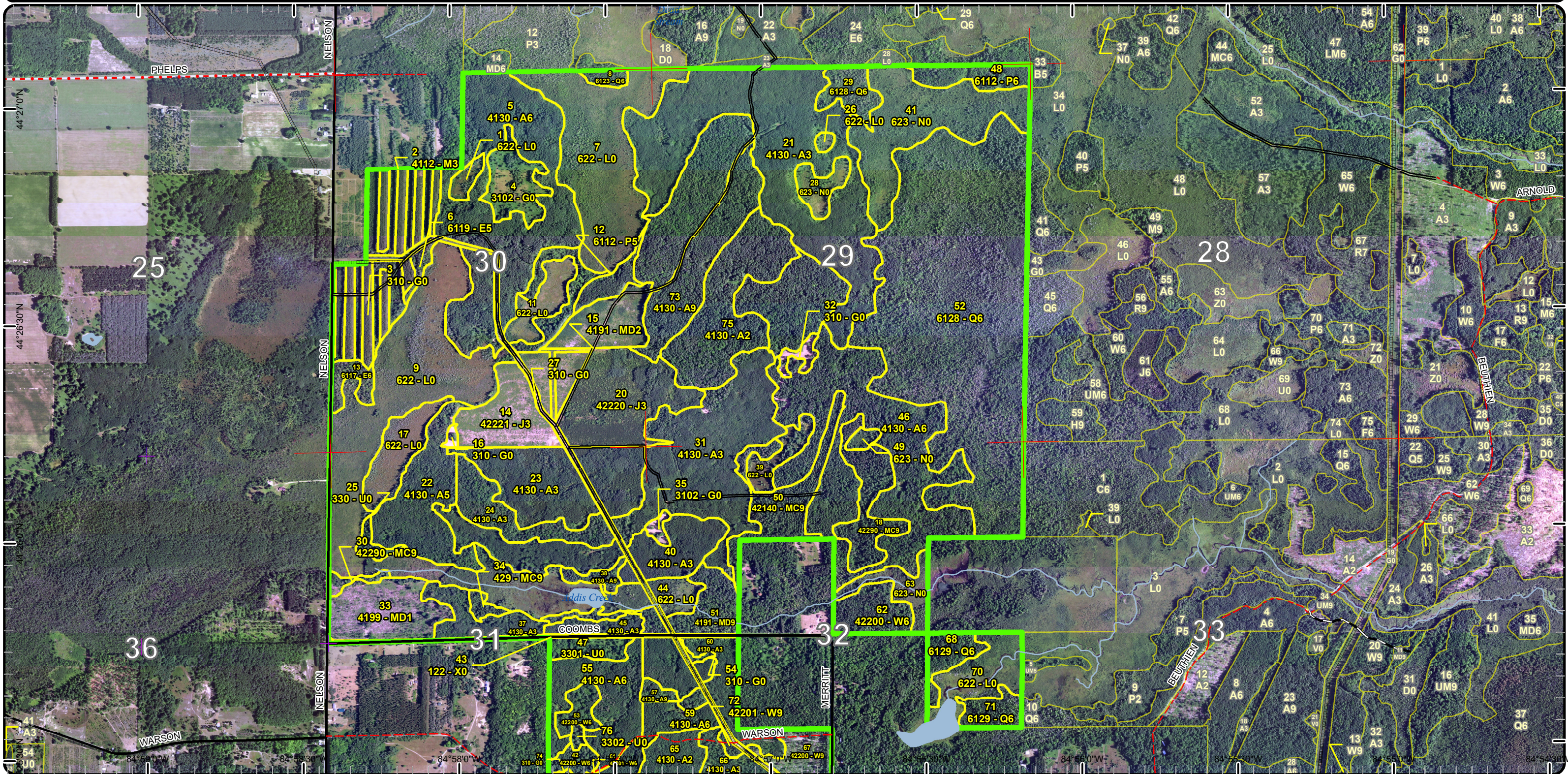


Stand Boundary Map

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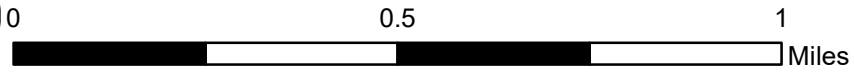


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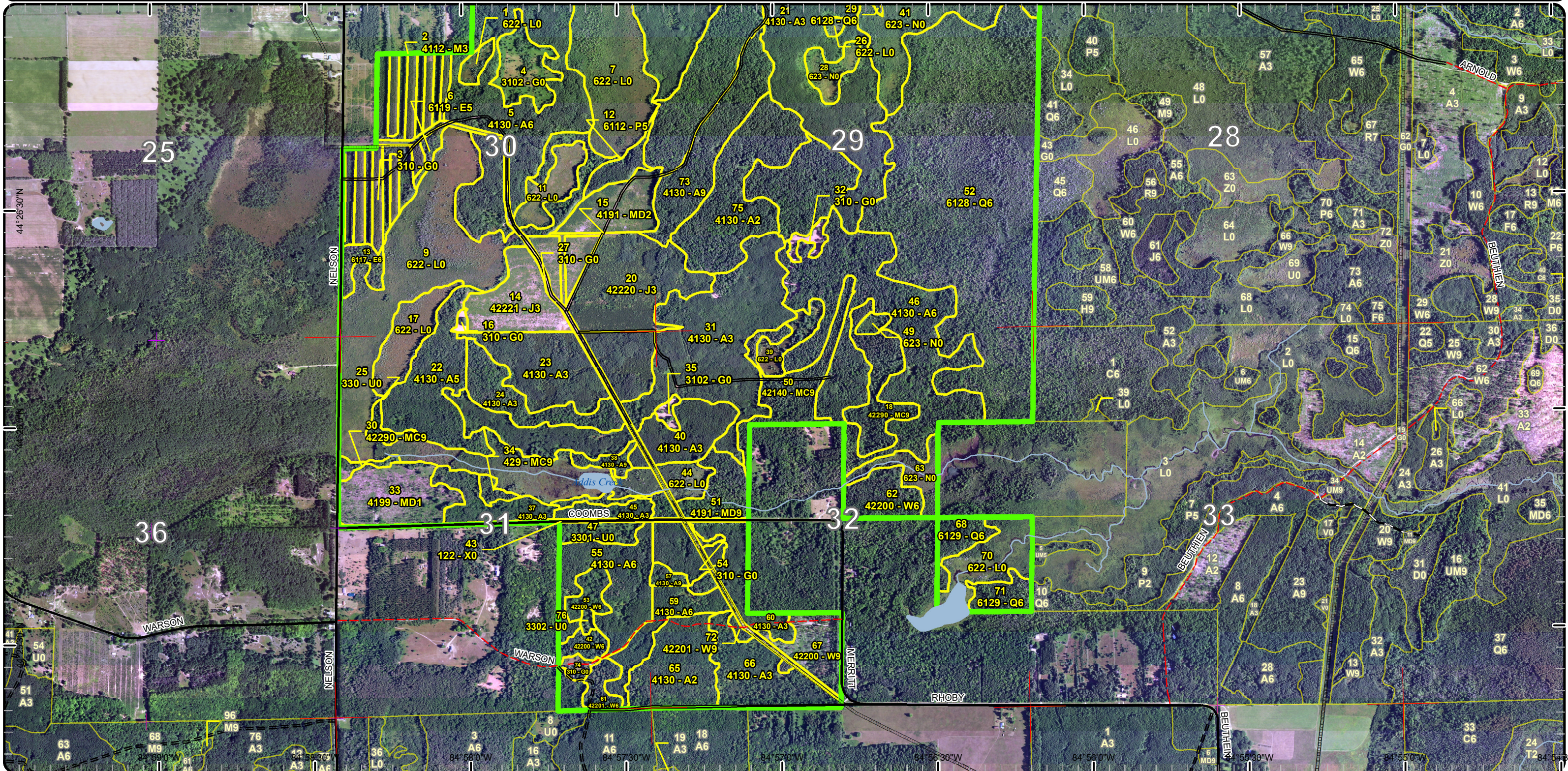


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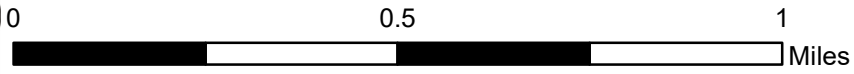


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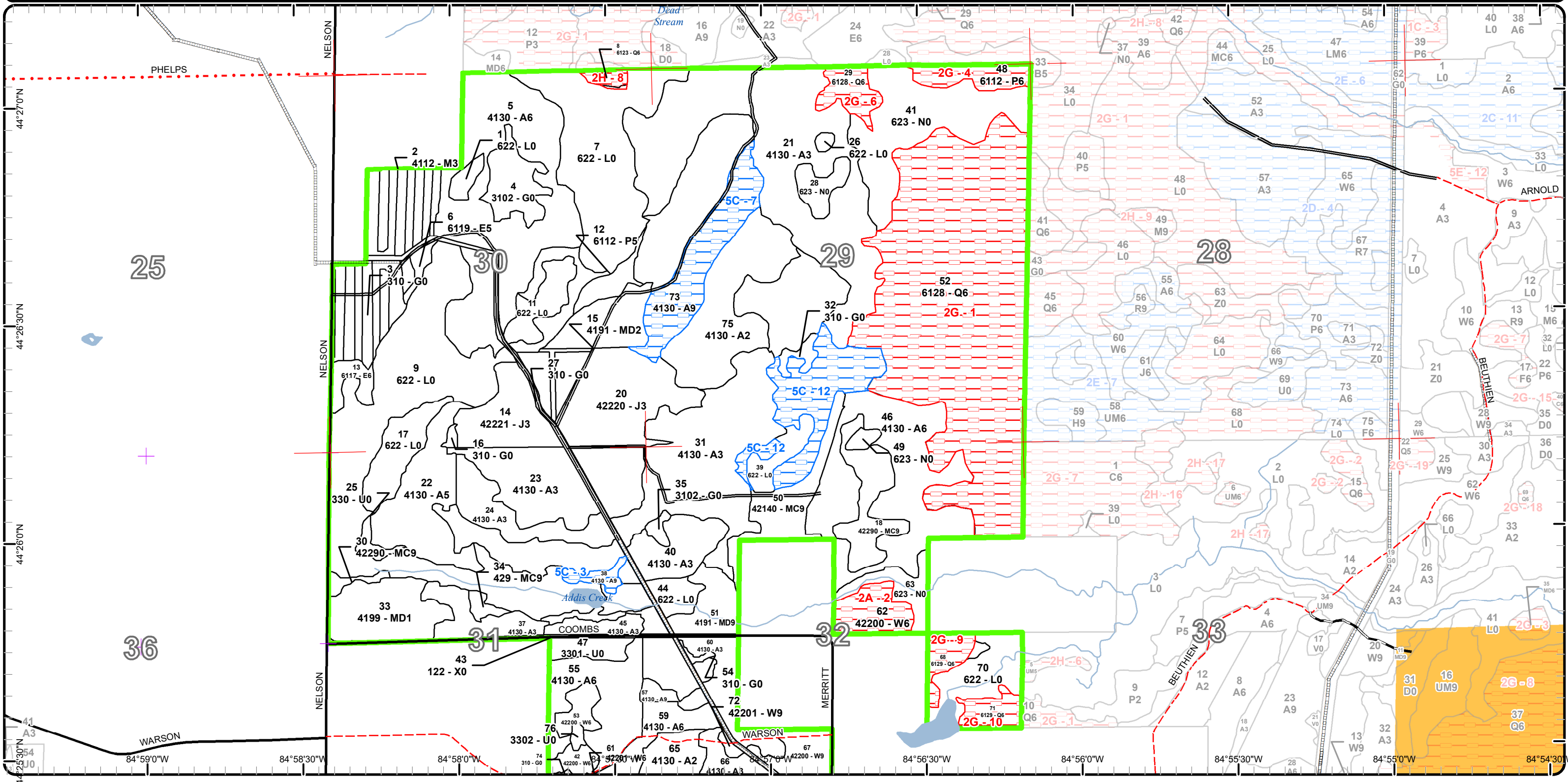


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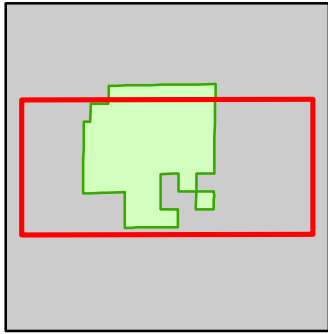
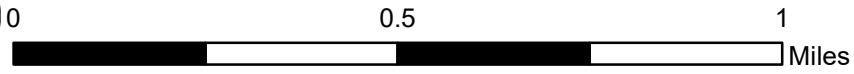


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks

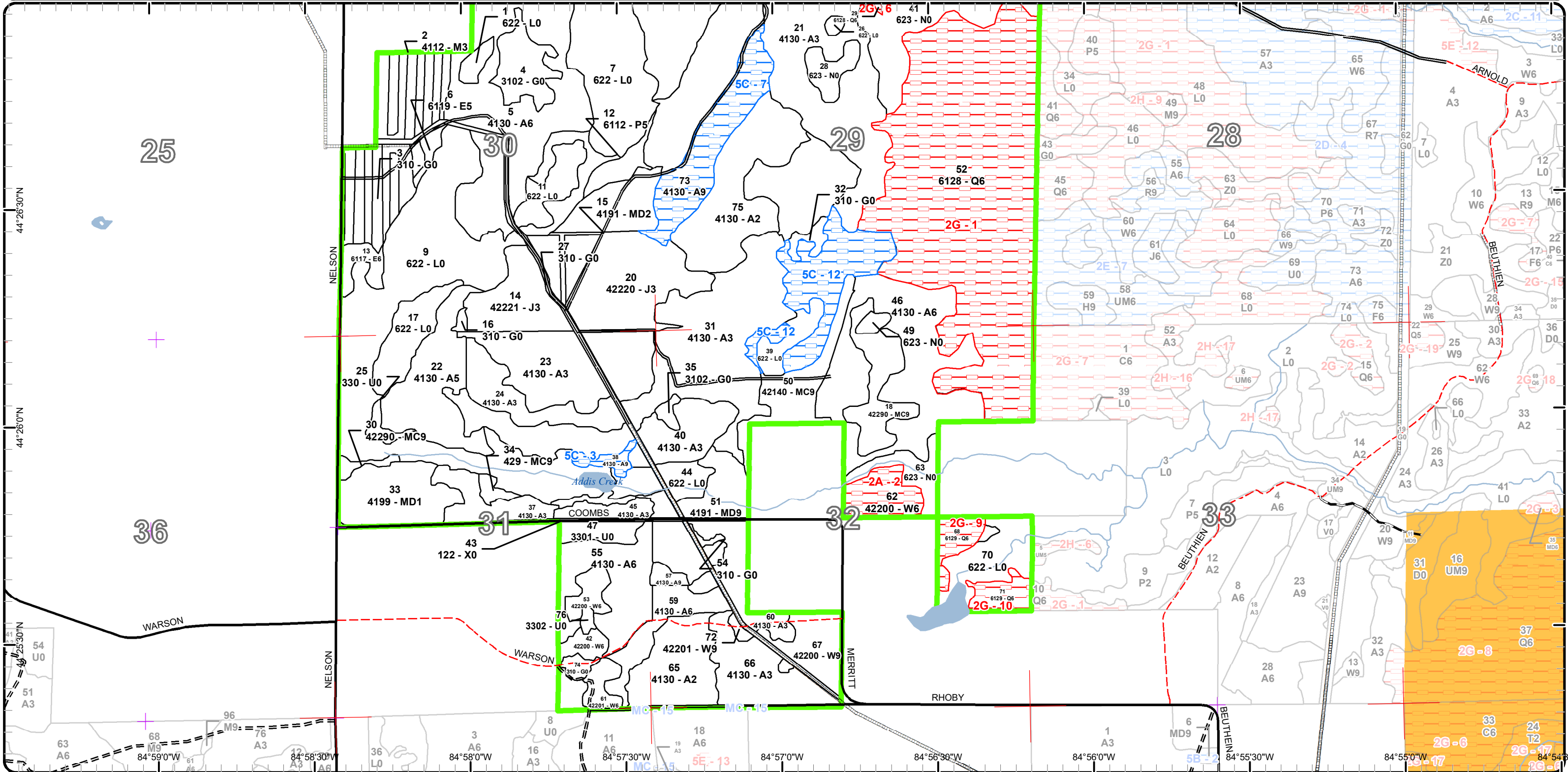


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Report 1 – Total Acres by Cover Type and Age Class



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	136	279	146	125	0	0	173	9	0	0	0	0	0	0	0	0	0	867
Herbaceous Openland	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Jack Pine	0	53	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Aspen/Balsam Poplar	0	0	0	0	12	0	0	0	0	12	0	0	0	0	0	0	0	0	24
Lowland Conifers	0	0	0	0	0	0	3	0	11	0	0	18	221	0	0	0	0	0	252
Lowland Deciduous	0	0	0	0	0	0	0	3	7	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267
Marsh	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Mixed Upland Deciduous	0	0	0	2	28	0	0	0	19	0	0	0	0	0	0	0	0	0	49
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
Upland Conifers	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	12	0	0	0	18	21	0	0	0	0	0	0	0	0	51
Total	428	189	350	148	177	0	3	176	67	81	0	18	221	0	0	0	0	0	1856



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 82

Total Compartment Acres: 1,857

Commercial Harvest - 152
 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	110	0	0	0	0	0	0	0	0	110
Natural Mixed Pines	21	0	0	0	0	0	0	0	0	21
Planted Mixed Pines	21	0	0	0	0	0	0	0	0	21
Total	152	0	0	0	0	0	0	0	0	152

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	152	0	0	0	0	0	27	0	0	179
Next Step	0	0	0	0	0	0	206	0	0	206
Total	152	0	0	0	0	0	234	0	0	385



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

3	63082003-Monitorx	27.3	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> 1 Year regen check											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
18	63082018-Cut	21.1	42290 - Natural Mixed Pine	Sawtimber Well	82	171- 200	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<u>Prescription</u> Clear Cut to convert to a natural mixed upland/deciduous stand. Leave some large red and white pine scattered in the stand. Treatment area											
<u>Specs:</u> will reflect on the ground conditions and may vary in acreage from proposed treatment											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of aspen, maple, red pine, white pine, black cherry, birch, beech, balsam fir, oak, or spruce.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2022											
46	63082046-Cut	69.3	4130 - Aspen	Poletimber Well	61	111- 140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<u>Prescription</u> Clear-cut with retention. Place some retention pockets scattered throughout 3-10% area. Treatment area will reflect on the ground conditions											
<u>Specs:</u> and may vary in acreage from proposed treatment											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of Aspen, maple, oak, birch, cherry, white pine, red pine, balsam fir, spruce, hemlock											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2022											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
50	63082050-Cut	20.8	42140 - Planted Mixed Pine	Sawtimber Well	82	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Clear Cut to convert to a natural mixed upland/deciduous stand. Leave some large red and white pine scattered in the stand. Treatment area will reflect on the ground conditions and may vary in acreage from proposed treatment</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 aspen, maple, red pine, white pine, black cherry, birch, beech, balsam fir, oak, or spruce.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
57	63082057-Cut	4.6	4130 - Aspen	Sawtimber Well	72	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention. Place some retention pockets scattered throughout 3-10% area. Treatment area will reflect on the ground conditions and may vary in acreage from proposed treatment</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 Aspen, maple, cherry, birch, beech, oak, pine, spruce, balsam fir, or hemlock.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
73	63082073-Cut	35.9	4130 - Aspen	Sawtimber Well	65	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention. Place some retention pockets scattered throughout 3-10% area. Treatment area will reflect on the ground conditions and may vary in acreage from proposed treatment.</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 aspen, maple, red pine, white pine, black cherry, birch, beech, balsam fir, oak, or spruce.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

Total Treatment 179
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 82
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				5C	MC	2A	2G	2H
868	796	71	0	0	Aspen	71	0		0	
70	70	0	0	0	Herbaceous Openland					
96	96	0	0	0	Jack Pine					
12	12	0	0	0	Low-Density Trees					
23	12	0	12	12	Lowland Aspen/Balsam Poplar				12	
253	1	0	252	252	Lowland Conifers				249	3
10	10	0	0	0	Lowland Deciduous					
267	267	0	0	0	Lowland Shrub	0				
74	74	0	0	0	Marsh			0		
50	50	0	0	0	Mixed Upland Deciduous					
24	24	0	0	0	Natural Mixed Pines					
28	28	0	0	0	Northern Hardwood					
24	21	3	0	0	Planted Mixed Pines	3				
3	3	0	0	0	Upland Conifers					
5	5	0	0	0	Urban					
51	37	0	14	14	White Pine			14		
1,857	1,504	74	278	278	Total Forested Acres	74	0	14	261	3
	81%	4%	15%		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)	221	2E: Road needed	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Stand is located in the Dead Stream Swamp and is inaccessible due to various habitat and water issues.							
2	Unavailable	2A: Adjacent landowner denied access	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Matt Edison : Examiner

Compartment: 82
 Year of Entry: 2023

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	2E: Road needed	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Stand is located in the Dead Stream Swamp and is inaccessible due to various habitat and water issues.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 82
Year of Entry: 2023

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	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
----------	--------------	-------------	----------------	-------

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	622 - Lowland Shrub	Nonstocked	3.7			No																																																
2	4112 - Maple, Beech, Cherry Association	Sapling Well	28.0	18	Immature	N/A	Strips that were apparently abandoned in past. Decide in a few entries what to do with these after harvested.																																															
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3	310 - Herbaceous Openland	Nonstocked	27.3	0	Unspecified	42110 - Planted Red Pine	Good quality red pine strips that were final harvested and chipped in 2017. Site was trenched in 2018. Planted to RP on 5/3/2021.																																															
4	3102 - Grass	Nonstocked	16.3		Unspecified	No	open grass stand with scattered cherry.																																															
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5	4130 - Aspen	Poletimber Well	92.2	37	111-140	N/A	Good looking small pole stand. Still needs to put on more growth, continue to monitor in future.																																															
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6	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	3.0	68	51-80	N/A	Small wet stand bordering lowland complex																																															
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7	622 - Lowland Shrub	Nonstocked	67.9			No																																																
8	6123 - Lowland Fir	Poletimber Well	3.0	57	51-80	N/A	Small stand of balsam and white pine with a few scattered red maples. Virtually no access except for frozen winter across wetland.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9 622 - Lowland Shrub Nonstocked 120.7 No

11 622 - Lowland Shrub Nonstocked 12.8 No Lowland shrub overall, but with standing water in large areas and open water in some small areas.

12 6112 - Lowland Aspen Poletimber Medium 11.8 31 N/A Wet ground fringe around lowland with standing water. More sparse than adjacent A6 stand. Treat as much as possible when adjacent is treated.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	4		Tag Alder	Low	10 - 20 feet	Tall Shrub
Paper Birch	5	Sapling	4					
Quaking Aspen	60	Pole/Sapling	5	31				
White Pine	20	Pole/Sapling	6					

13 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 6.7 74 111-140 N/A Small stand on relatively higher ground than wetland on two sides. Check in 10 years.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	33	Pole/Sap/Log	6	74	Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	7	Pole	5	11	Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	20	Pole/Sapling	5		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	15	Pole/Sapling	5					
Tamarack	15	Pole	6					
Black Ash	10	Sapling/Pole	3					

14 42221 - Natural Jack Pine, Mixed Deciduous Sapling Well 53.4 6 Immature N/A Sale closed in 2016. 63-052-13 "82 Jack". Jack Pine regeneration is coming with fair amount of cherry, maple, and aspen as well.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Pole/Sapling	5	
Jack Pine	60	Sapling	1	6
Red Maple	10	Sapling	1	6
Black Cherry	25	Sapling	1	6

15 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 2.3 25 Immature N/A Fire break between Jack pine plantations

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	50	Sapling	2	25
Quaking Aspen	20	Sapling	2	
White Pine	5	Pole/Sapling	5	
Jack Pine	25	Sapling	1	

16 310 - Herbaceous Openland Nonstocked 1.1 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
17	622 - Lowland Shrub	Nonstocked	17.2			No			
18	42290 - Natural Mixed Pine	Sawtimber Well	21.1	82	171-200	N/A	Large diameter red pine and white pine mix. Heavy understory of aspen and red maple. Some white pine. Consider cutting and leaving some larger red and white pine and letting this stand convert to natural mixed deciduous.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		45	Log/Pole	12	82	Red Maple	Medium	10 - 20 feet	Sapling
Red Pine		55	Log	13	82	Aspen (spp.)	Medium	10 - 20 feet	Sapling
20	42220 - Natural Jack Pine	Sapling Well	42.7	17	Immature	N/A	Good looking Jack pine regeneration.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		100	Sapling	2	17				
21	4130 - Aspen	Sapling Well	122.7	17	Immature	N/A	Cut in 2004 (63-031-03) "Many Bug Aspen". Large stand of solid looking Aspen regen. A few scattered low areas.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		4	Sapling	3					
Bigtooth Aspen		94	Sapling	3	17				
Black/Red (Hybrid) Oak		2	Sapling	2					
22	4130 - Aspen	Poletimber Medium	37.0	25	Immature	N/A	Stand of young aspen mixed with scattered pine and maple. Needs plenty of growth for next couple entries. Not the best Aspen around.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		8	Sapling	4					
Bigtooth Aspen		85	Sapling	4	25				
White Pine		7	Pole	5					
23	4130 - Aspen	Sapling Well	49.4	26	Immature	N/A	Cut in 1995 63-021-93 (Spruce Hen Sale). Good looking Aspen regeneration approaching all pole sized.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		20	Sapling	4					
White Oak		5	Sapling	1					
Bigtooth Aspen		70	Sapling	4	26				
White Pine		5	Sapling	4					
24	4130 - Aspen	Sapling Well	21.3	2	Immature	N/A	Stand was final harvested in 2020. Oaks as well as young conifer was left. Aspen is regenerating.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		8	Sapling	1					
Red Oak		6	Log/Pole	10					
Bigtooth Aspen		75	Sapling	1	2				
White Pine		11	Pole	6					
25	330 - Low-Density Trees	Nonstocked	3.0			No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
26	622 - Lowland Shrub	Nonstocked	1.3			No																																										
27	310 - Herbaceous Openland	Nonstocked	15.7		Unspecified	Managed Opening	Pipeline R.O.W.																																									
28	623 - Emergent Wetland	Nonstocked	8.2			No																																										
29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.5	70	51-80	N/A	Stand is fringe area of large wetland. It is low ground and has fairly sparse tree cover overall. Site condition added last entry.																																									
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30	42290 - Natural Mixed Pine	Sawtimber Well	2.6	83	51-80	N/A	Stand is a narrow buffer between plantation to south and lowland complex to the north.																																									
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32	310 - Herbaceous Openland	Nonstocked	3.4			Managed Opening																																										
33	4199 - Other Mixed Upland Deciduous	Sapling Poor	28.0	30	1-50	N/A	Stand was harvested in summer 2015. 63-018-13 (RN Pine). All Oak and Maple <4" was left as residual. Mix at this point.																																									
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34	429 - Mixed Upland Conifers	Sawtimber Well	2.8	75	81-110	N/A	Small stand of white pine between edge of lowland complex and young aspen cut. Could thin out all but Pine and add to a nearby sale.																																													
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35	3102 - Grass	Nonstocked	2.2			Managed Opening	Wildlife managed opening.																																													
37	4130 - Aspen	Sapling Well	14.5	16	Immature	N/A	Cut in 2005 63-022-03 (Coombs Aspen). Good looking aspen regeneration.																																													
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38	4130 - Aspen	Sawtimber Well	4.1	74	81-110	N/A	Small stand of aspen left as a buffer between adjacent sales and Addis Creek. Previous inventory suggested to leave the buffer.																																													
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39	622 - Lowland Shrub	Nonstocked	8.8			No																																														
40	4130 - Aspen	Sapling Well	20.3	26	Immature	N/A	Stand was cut in 1995. 63-021-93 (Spruce Hen Sale). Good looking regeneration.																																													
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41	623 - Emergent Wetland	Nonstocked	52.3			No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
42	42200 - Natural White Pine	Poletimber Well	5.1	30	81-110	N/A	Stand of short, limby, bushy white pine. Little merchantability potential now. Save for now as age class diversity with young stands surrounding. See what happens over next couple of entries.																																													
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43	122 - Road/Parking Lot	Nonstocked	4.9			No																																														
44	622 - Lowland Shrub	Nonstocked	12.2			No																																														
45	4130 - Aspen	Sapling Well	6.7	26	Immature	N/A	Stand was cut in 1995 63-021-93 (Spruce Hen Sale). Good looking stand.																																													
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46	4130 - Aspen	Poletimber Well	102.6	61	111-140	N/A	Aspen stand with white pine scattered maple and oak. Borders lowland types to the east. Part of stand was included in adjacent Q6 stand and had site condition for too wet. Redefined the "too wet" as accurately as possible. Previous inventory suggested harvesting western part of stand and leaving east for another entry. Best idea may be to harvest east half first to leave west half as age class diversity between older west cut and this east cut.																																													
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47	3301 - Low Density Deciduous Trees	Nonstocked	7.4			No	Mixed opening with some hardwood and aspen, oak.																																													
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48	6112 - Lowland Aspen	Poletimber Well	11.7	88		N/A	Small stand appears to be aspen mix. too wet to access for inventory. Notes from previous inventory and proven true.																																													
49	623 - Emergent Wetland	Nonstocked	2.4			No																																														
50	42140 - Planted Mixed Pine	Sawtimber Well	23.9	82	111-140	N/A	Mixed pine plantation, mostly red pine east and south. Row thinned in past. Heavy red maple and aspen understory. Clear cut wit surrounding stand and let convert to mixed deciduous. Would be fighting regeneration forever. Leave some red and white pine.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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51	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	19.4	73	81-110	N/A	Somewhat sparse stand in some spots. Check in 10 years.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	10		White Pine	Low	10 - 20 feet	Sapling
Red Oak	15	Log	13		Aspen (spp.)	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole/Log	7					
Bigtooth Aspen	35	Log/Pole	10	73				
White Pine	20	Pole/Log	9					

52	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	221.4	116	51-80	N/A	Surveyed stand from west as far as could penetrate, turned very wet, very fast. Lowland mix that varies from tag alder to cedar/spruce and some scattered balm and red maple in relative "high" pockets. Not much size to trees, either height or diameter. There are pockets of blow down. Not much to do here. Site Conditioned.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Sap/Log	6		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Poplar	20	Log/Pole	9		White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	25	Pole/Sapling	7		Maple (spp.)	Low	10 - 20 feet	Sapling
Black Spruce	10	Log/Pole	11					

53	42200 - Natural White Pine	Poletimber Well	6.8	33	51-80	N/A	Stand is a mix of large open grown white pine and white pine poles. Note from previous inventory and is spot on. Harvest in future with white pine to south.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8		White Pine	Low	< 5 feet	Sapling
White Pine	90	Pole/Log/Sap	8	33				

54	310 - Herbaceous Openland	Nonstocked	0.9		Unspecified	No	old landing from adjacent aspen sale.
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55	4130 - Aspen	Poletimber Well	32.5	36	81-110	N/A	Aspen mixed with scattered red maple and white pine. Small for age.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	90	Pole/Sapling	6	36
White Pine	5	Pole/Log	8	
Red Maple	5	Pole/Sapling	5	

57	4130 - Aspen	Sawtimber Well	4.6	72	111-140	N/A	Stand was kept previously for age class. Final Harvest this entry. Use patch retention.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	11		Maple (spp.)	Low	5 - 10 feet	Sapling
White Ash	3	Pole/Log	8		Oak (spp.)	Low	5 - 10 feet	Sapling
Beech	4	Pole/Sap/Log	7					
Red Oak	5	Log/Pole	11					
Paper Birch	3	Pole/Sapling	6					
Bigtooth Aspen	70	Log/Pole	10	72				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
59	4130 - Aspen	Poletimber Well	32.8	26	81-110	N/A	Early pole stand. Not best looking aspen.																																													
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60	4130 - Aspen	Sapling Well	16.7	16	Immature	N/A	Stand starting to transition into pole stand. Good looking regen.																																													
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61	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	6.5	80	111-140	N/A	Stand of large White Pine with mixed understory. Hold for now and consider harvest next entry.																																													
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62	42200 - Natural White Pine	Poletimber Well	14.5	83	81-110	N/A	Natural pine stand with scattered aspen clones. Thin pine and remove aspen and maple. Poor Access and seasonally wet. Notes and site condition from previous inventory. Accessibility a huge issue.																																													
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63	623 - Emergent Wetland	Nonstocked	11.1			No																																														
65	4130 - Aspen	Sapling Medium	30.0	2	81-110	N/A	Stand was cut in 2020. All oak was left variable diameter in oak left.																																													
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66	4130 - Aspen	Sapling Well	28.4	16	1-50	N/A	Stand was cut previous entries. Aspen and maple removed. Scattered pine oaks overstory.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
67	42200 - Natural White Pine	Sawtimber Well	16.2	78	51-80	N/A	Stand was cut in 2014 63-044-14 (Cujo Pine) Marked pine and removed all other. Residual pine looks good, with mix of regen. coming underneath, including some white pine.. powerline runs along west edge of stand.																													
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68	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	9.4	104	51-80	N/A	Could not access, data from previous inventory. Site Conditioned.																													
70	622 - Lowland Shrub	Nonstocked	22.3			No																														
71	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.6	106	81-110	N/A	No access, data from previous inventory. Site Conditioned. Small stand of cedar, balsam, and spruce. Bordering private on two sides.																													
72	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	2.0	78	111-140	N/A	Stand is a mix of white pine and aspen. Leave for diversity and age- class considerations.																													
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73	4130 - Aspen	Sawtimber Well	69.9	65	111-140	N/A	Mature Aspen. Mix of some oak, red maple, and scattered cherry and birch. Adjacent to large clear cut from 2020. Center part is best suited to hold for age class considerations, Harvest west and east pieces of this stand.																													
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74	310 - Herbaceous Openland	Nonstocked	2.8			No	scattered white pine poles.																													
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75	4130 - Aspen	Sapling Medium	85.2	2	Immature	N/A	Stand was final harvested over 2019 and 2020. Unit to north was done in 2019. Whole tree skid operation. Scattered green marked trees left.																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments								
76	3302 - Low Density Conifer Trees	Nonstocked	1.4			No									
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