



# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 63136

Entry Year 2020

Acreage: 1,686

County Wexford

Management Area: Manistee River Valley

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**Revision Date:** 2018-06-14

**Stand Examiner:** Joe Ventimiglia

**Legal Description:**

T24N R10W Sections 13,14,15,22,23,24,27,34.

**Identified Planning Goals:**

Vegetation management in the Manistee River Valley Management Area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

**Soil and topography:**

Rubicon, Croswell, Montcalm sands. Tawas in wet areas.

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

Private ownership in every section. Some full time residents on main roads. The areas in center part of sections are wooded or christmas tree plantations. Some of the small blocks of state land are landlocked due to private ownership or inaccessible because of creeks. Possible disposing potential of 10 acre parcel in section 24 SESW.

**Unique Natural Features:**

Buttermilk and Silver Creeks flow from south to north through compartment to Manistee River.

**Archeological, Historical, and Cultural Features:**

None known.

**Special Management Designations or Considerations:**

None at this time.

**Watershed and Fisheries Considerations:**

Maintain water quality along creek areas using BMP's.

**Wildlife Habitat Considerations:**

Featured wildlife species in this Management Area are diverse reflecting the wide range of habitat types present. Featured Species of wildlife include american bittern, american woodcock, beaver, black bear, eastern massasuga rattlesnake, golden-winged warbler, mallard, pileated woodpecker, ruffed grouse, snowshoe hare, white-tailed deer, and wood duck. Most of these species benefit from young forest and open types while some require some old trees for foraging and nest/den sites. Maintaining the opening types and balancing harvests with a diverse assortment of age classes in the timber types will meet the goals for these species.

**Mineral Resource and Development Concerns and/or Restrictions**

Sections 13-15, 22-24, & 34 T24N-R10W, Wexford Co.

An active sand/gravel pit is located in Sec 34, and there may be additional sand & gravel potential within the compartment. The nearest oil & gas production, past or present is five miles away. Some oil & gas exploration has occurred in this area, but there is no known oil & gas potential from known producing formations in this area. There is no known metallic mineral potential in this part of the state. There is currently no active mineral leasing in the area.

**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.

# Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 136 Year of Entry 2020

Joe Ventimiglia : Examiner



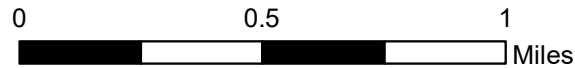
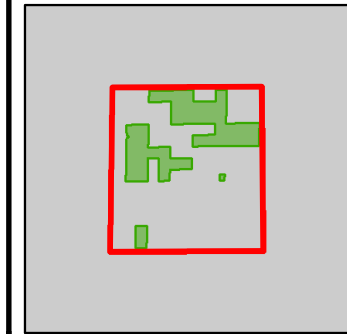
## Age Class

	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	208	51	4	8	51	493	0	0	0	0	0	0	0	0	0	0	0	815
Cedar	0	0	0	0	0	0	0	0	0	0	3	10	0	17	0	0	0	0	30
Herbaceous Openland	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Jack Pine	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	11
Low-Density Trees	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102
Lowland Aspen/Balsam Poplar	0	0	8	5	0	0	0	18	0	0	0	0	0	0	0	0	0	0	31
Lowland Conifers	0	0	0	0	0	0	0	0	0	11	5	43	44	0	0	0	0	0	103
Lowland Deciduous	0	0	0	0	0	0	37	28	0	0	0	0	0	0	0	0	0	0	65
Lowland Mixed Forest	0	0	0	0	0	0	0	12	0	22	21	0	0	0	0	0	0	3	57
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mixed Upland Deciduous	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	1	49	0	0	0	0	0	0	0	0	0	50
Planted Mixed Pines	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Red Pine	0	0	0	0	0	0	19	148	0	0	0	0	0	0	0	0	0	0	167
Upland Mixed Forest	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	36
Upland Spruce/Fir	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	41
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	0	1	10	0	0	0	0	0	0	0	11	22
<b>Total</b>	<b>208</b>	<b>256</b>	<b>62</b>	<b>9</b>	<b>8</b>	<b>51</b>	<b>601</b>	<b>207</b>	<b>87</b>	<b>32</b>	<b>35</b>	<b>15</b>	<b>43</b>	<b>61</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>1686</b>

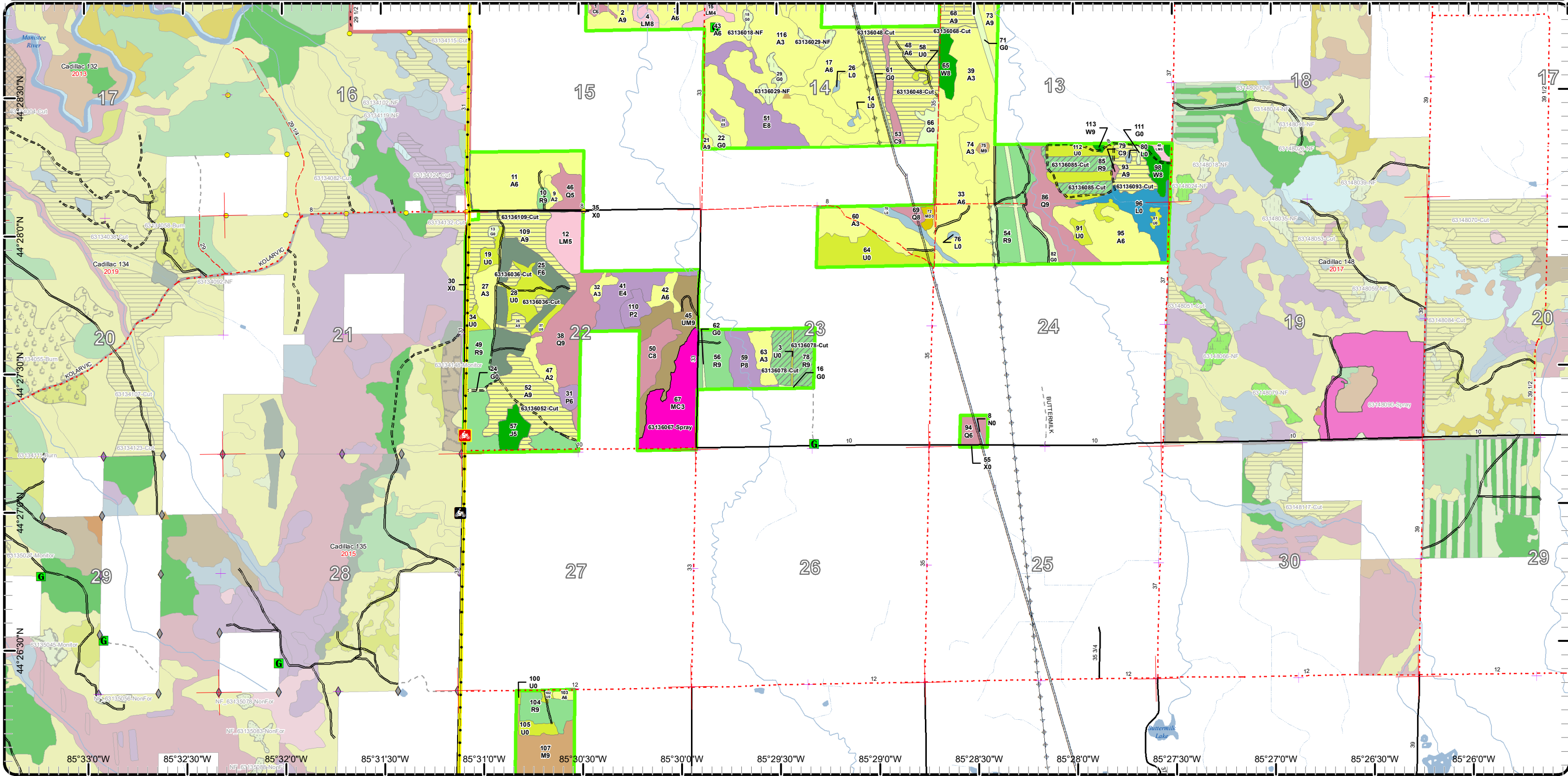
# Cover Type & Treatments Map

Compartment: 136

County: Wexford  
 Unit: Cadillac  
 Mgmt Area: Manistee River Valley  
 YOE: 2020  
 Acres: 1,686 GIS Calculated  
 Examiner: Joe Ventimiglia  
 Map Revised: 10/23/2018  
 Map Phase: Post - Review



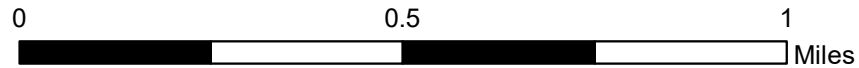
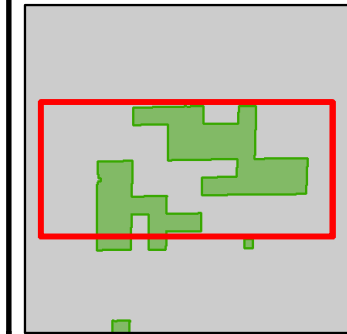
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- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
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- == DNR - Forest Access Route
- Federal / State / County - Paved Road
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- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- \*\*INCORRECT ATTRIBUTES\*\*
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 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
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes



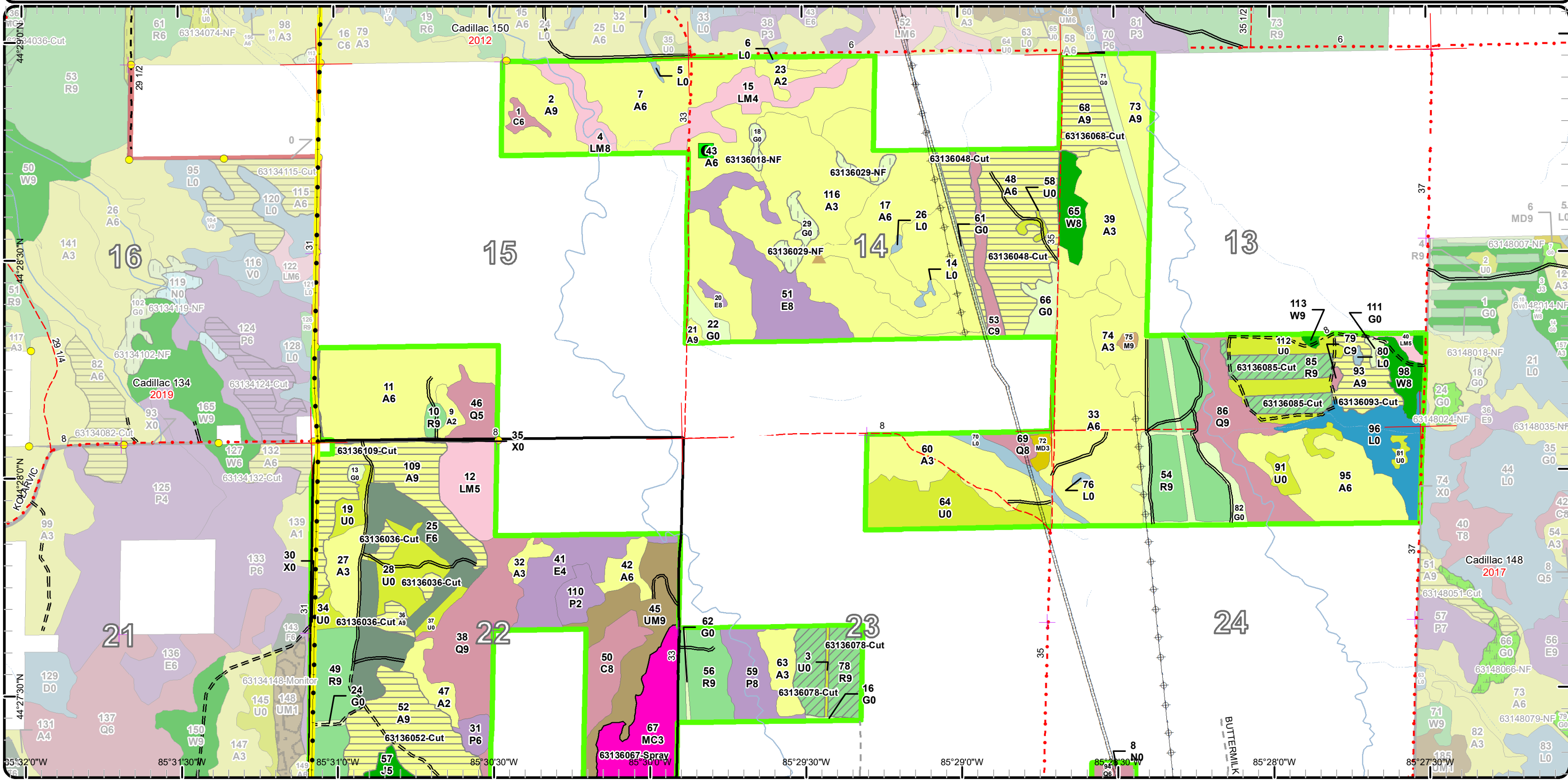
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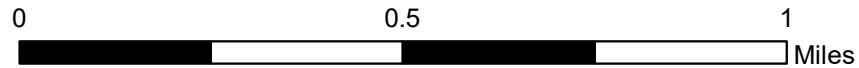
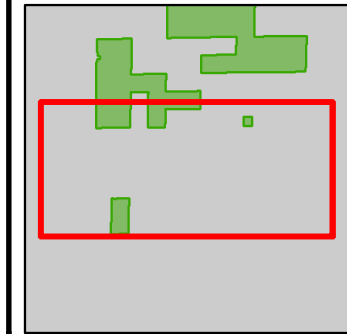
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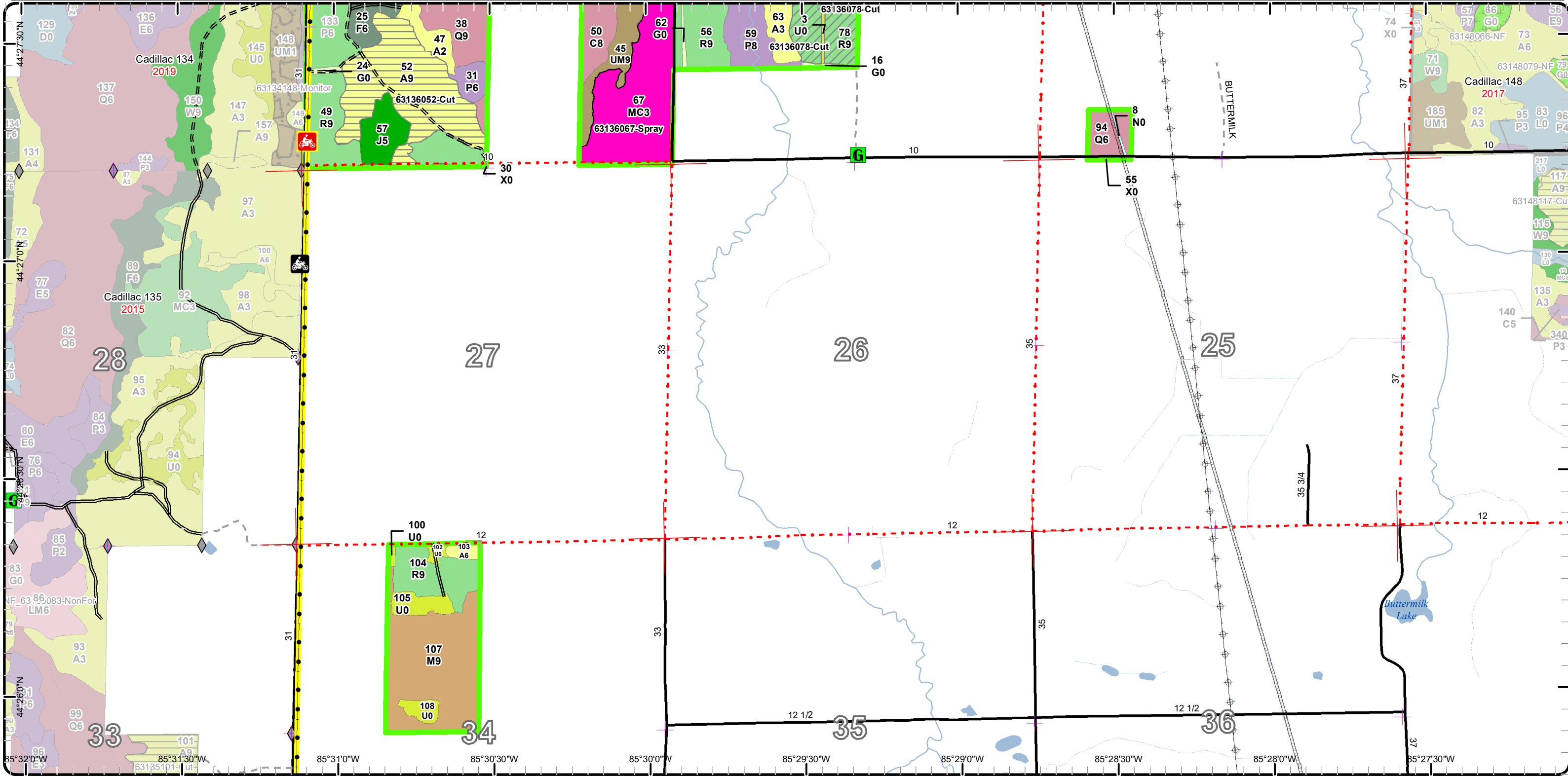
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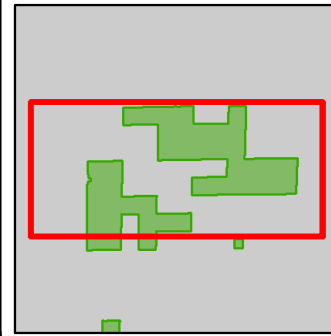
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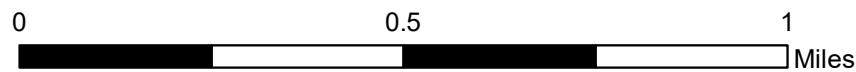


# Stand Boundary Map

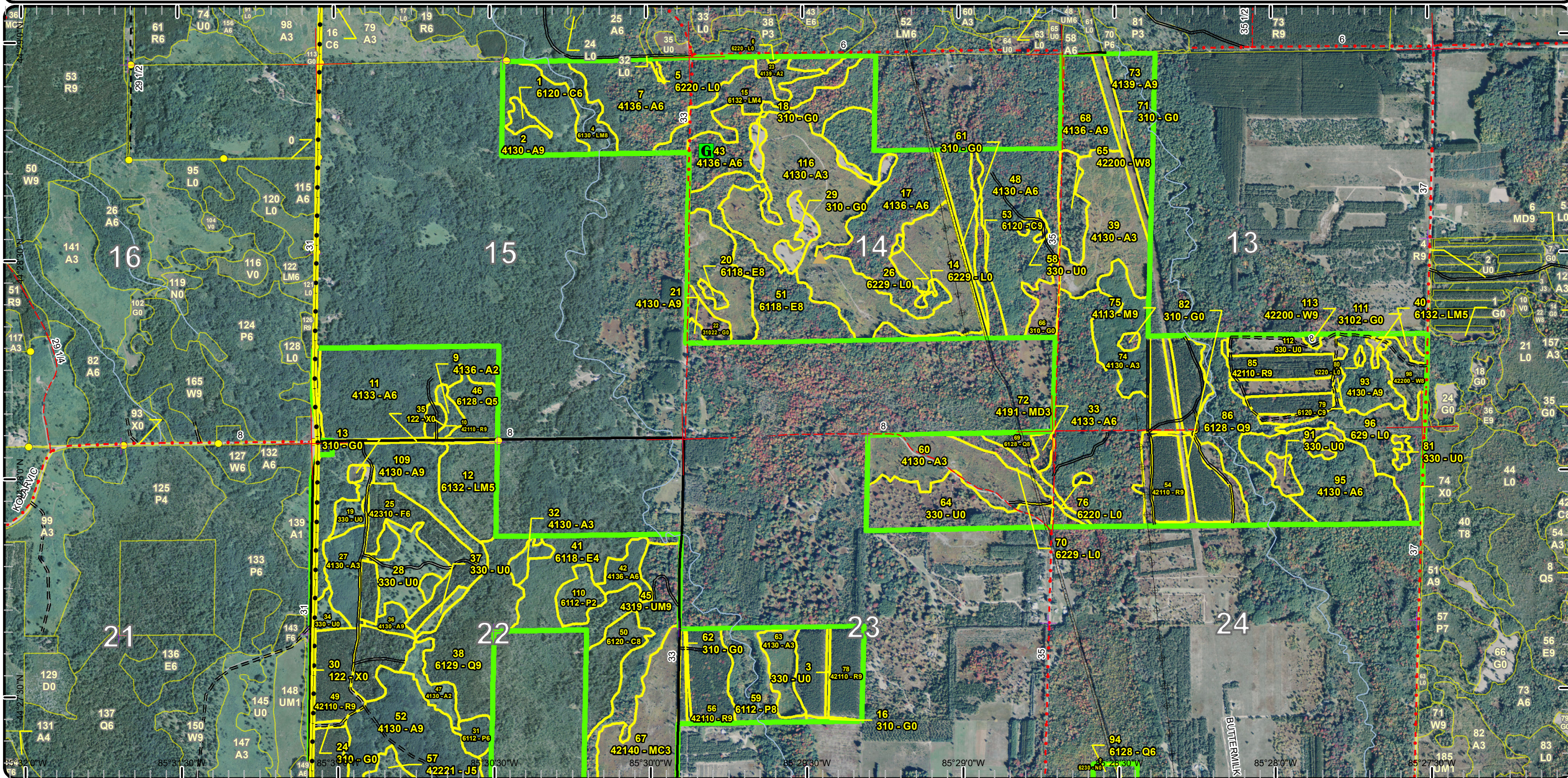


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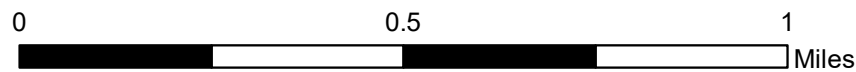
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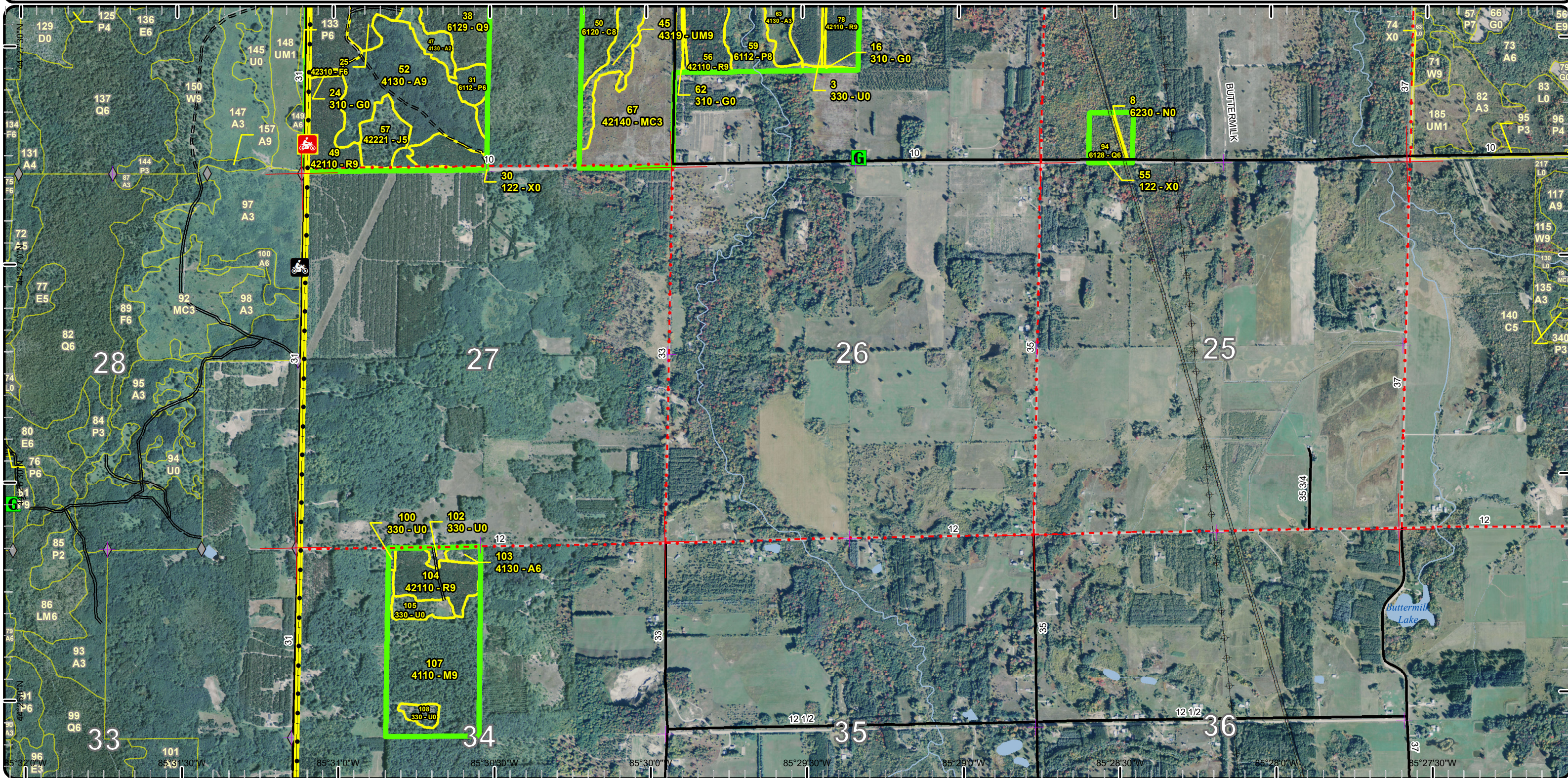
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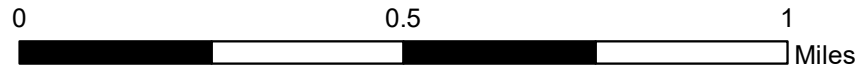
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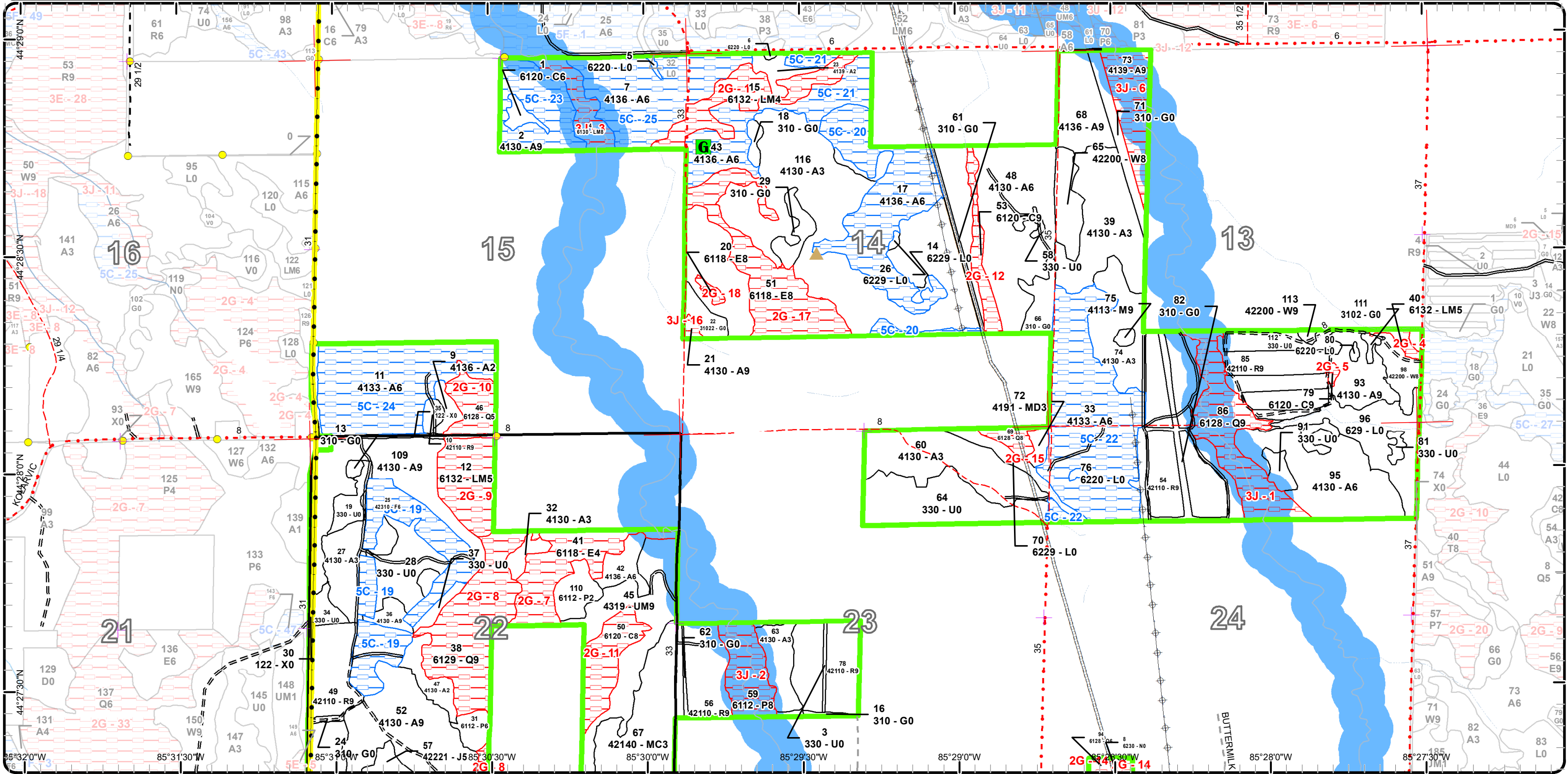
# Special Conservation Areas & Site Conditions Map

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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

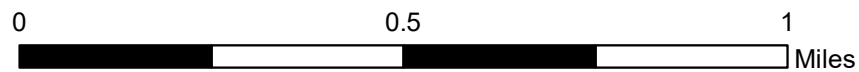




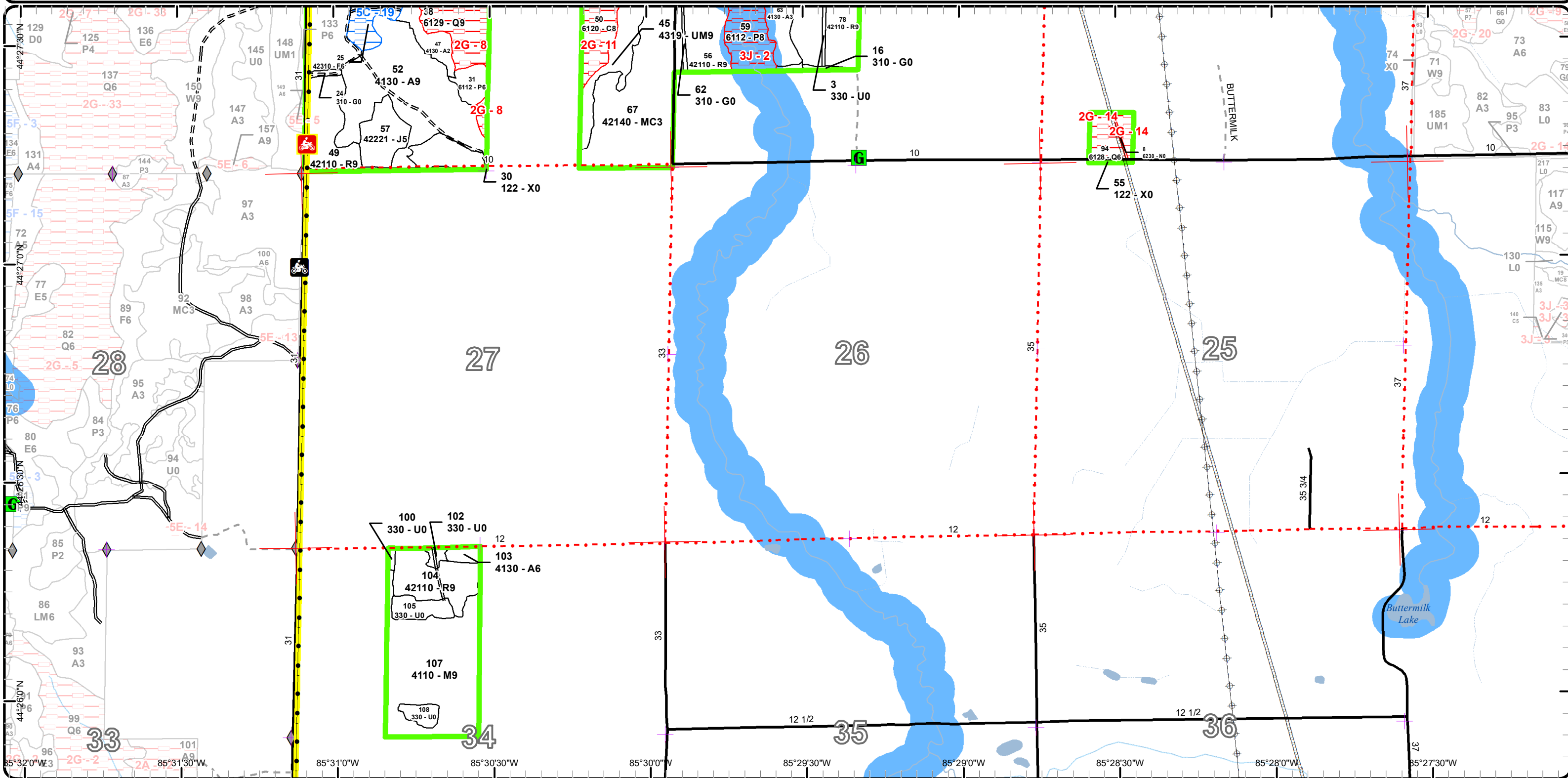
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## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 136

Total Compartment Acres: 1,686

Commercial Harvest - 236  
 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	192	0	0	0	0	0	0	0	0	192
Red Pine	0	0	0	0	44	0	0	0	0	44
<b>Total</b>	<b>192</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>236</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	236	0	0	0	0	48	0	0	11	295
Next Step	0	0	0	0	0	0	192	0	0	192
<b>Total</b>	<b>236</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>192</b>	<b>0</b>	<b>11</b>	<b>486</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
18	63136018-NF	2.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal

**Habitat Cut: No****Site Condition:**

Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2009

29	63136029-NF	8.9	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2009

36	63136036-Cut	8.3	4130 - Aspen	Sawtimber Well	47	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest. No retention as a result of small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen

Regen:

Other

Add grouse spec. Lump in with larger aspen sale to north.

Comment:

Proposed Start Date: 10/1 /2019

48	63136048-Cut	62.1	4130 - Aspen	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest leave all red pine and white pine under 4 inches in diameter. As well leave retention corridor 3 percent of total sale acreage. Green ring the few super canopy white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with minor mix of pine, fir and maple also accepted.

Regen:

Other

Winter of dry summer harvest. Crane mats or brush may be needed to cross stand 53 to get to west side of 48. Add grouse spec.

Comment:

Proposed Start Date: 10/1 /2019



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	Approval Status
52	63136052-Cut	49.0	4130 - Aspen	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Approved Proposal

**Habitat Cut: No****Site Condition:**

Prescription Final harvest. Leave pine under 8 inches. Put in retention island 3 to 5 percentage of total acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Primarily aspen, with a little pine and maple.

Regen:

Other Grouse spec.

Comment:

Proposed Start Date: 10/1 /2019

67	63136067-Spray	48.1	42140 - Planted Mixed Pine	Sapling Well	6	Immature	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 9 /18/2018

68	63136068-Cut	19.6	4136 - Aspen, Mixed Conifer	Sawtimber Well	52	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Final Harvest. Leave all hemlock and cedar.

Specs: Leave white pine over 25 inches dbh. As well leave mapped retention 3 percent of acreage.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with fir, maple and pine.

Regen:

Other Winter or dry summer cut best. Grouse spec add as well.

Comment:

Proposed Start Date: 10/1 /2019

78	63136078-Cut	25.2	42110 - Planted Red Pine	Sawtimber Well	65	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Thin stand. Focus on proper spacing, and removing any poor form to open up room for best stems. Residual BA of 110 to 120.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Verbal access given by landowner. John Boyds 231 649 3417.

Comment:

Proposed Start Date: 10/1 /2019



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	Approval Status
85	63136085-Cut	18.7	42110 - Planted Red Pine	Sawtimber Well	62	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Approved Proposal

**Habitat Cut: No****Site Condition:**

Prescription Second thin plantation. Take poor form and suppressed stems.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

93	63136093-Cut	15.1	4130 - Aspen	Sawtimber Well	52	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Final Harvest. Leave any cedar, hemlock, and pine under 8 inches in diameter. Add retention island.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen and scattered pine and maple.

Regen:

Other

Best cut in winter or dry time. Add grouse spec.

Comment:

Proposed Start Date: 10/1 /2019

109	63136109-Cut	37.5	4130 - Aspen	Sawtimber Well	50	1-50	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Final Harvest. Leave one retention island 3 percent of total acreage, as well leave all pine under 4 inches in diameter. Green ring a few mature

Specs: white pine along Baxter ridge Rd and rear cabin.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen with minor mix of pine and red maple.

Regen:

Other

Add Grouse log spec.

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment  
Acreage Proposed: 294.8**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment: 136  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5C	2G	3J
815	506	<b>288</b>	21	Aspen	<b>288</b>		21
30	3	<b>0</b>	27	Cedar		27	
57	57	<b>0</b>	0	Herbaceous Openland			
11	11	<b>0</b>	0	Jack Pine			
102	102	<b>0</b>	0	Low-Density Trees			
32	14	<b>0</b>	17	Lowland Aspen/Balsam Poplar			17
103	1	<b>0</b>	102	Lowland Conifers		69	33
65	0	<b>0</b>	65	Lowland Deciduous		65	
58	0	<b>0</b>	58	Lowland Mixed Forest		46	12
36	36	<b>0</b>	0	Lowland Shrub			
0	0	<b>0</b>	0	Marsh			
3	3	<b>0</b>	0	Mixed Upland Deciduous			
50	50	<b>0</b>	0	Northern Hardwood			
48	48	<b>0</b>	0	Planted Mixed Pines			
166	166	<b>0</b>	0	Red Pine			0
37	37	<b>0</b>	0	Upland Mixed Forest			
41	0	<b>41</b>	0	Upland Spruce/Fir	<b>41</b>		
12	12	<b>0</b>	0	Urban			
21	21	<b>0</b>	0	White Pine			
1,686	1,067	<b>329</b>	289	Total Forested Acres	<b>329</b>	206	83
	63%	<b>20%</b>	17%	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	3J: Water quality / BMPs (stream, river, or lake)	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment: 136  
Year of Entry: 2020

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream setbacks.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

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Year of Entry: 2020

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment: 136  
Year of Entry: 2020

13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> drainage in middle of small stand.							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Overall too wet, attempt made when stand 116 to push into this stand failed in 2011.							
18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment: 136  
Year of Entry: 2020

19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	55	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	76	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
 Joe Ventimiglia : Examiner

Compartment: 136  
 Year of Entry: 2020

24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	55	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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
<b>Comments</b>				



**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 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	Cadillac Mgt. Unit		Report 7 – Forested Stands			Compartment: 136 Year of Entry: 2020
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Well	3.0	91	111-140	Lowland cedar and balsam mostly, some aspen on edges.
2	4130 - Aspen	Sawtimber Well	24.5	52	51-80	Isolated decent block of mature aspen, mostly upland although some low pockets.
4	6130 - Fir, Aspen, Maple	Sawtimber Medium	12.1	66	51-80	Valley along silver creek, includes side slopes of creek and well as the creek bottom. Steep banks important vegetation to protect silver creek.
7	4136 - Aspen, Mixed Conifer	Poletimber Well	44.2	52	51-80	Aspen complex, with fir, white pine, red maple mixed throughout. A few cedar and hemlock mixed in stand as well. Stand is upland, although does have a few areas in the south that as seasonally wet.
9	4136 - Aspen, Mixed Conifer	Sapling Medium	3.4	17	Immature	Small what appears to be habitat cut, no records found in compartment folder. May check with wildlife. Upland with low pocket in north and edge.
10	42110 - Planted Red Pine	Sawtimber Well	2.6	57	111-140	Stand was thinned in two YOEs ago.
11	4133 - Aspen, Mixed Pine	Poletimber Well	55.4	50	51-80	Lower quality aspen with significant pine component. Overall upland stand although some low spots in the north end of stand. Variable stand but aspen component throughout. Legacy white pine in stand.
12	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	21.2	95	1-50	Lowland hardwood flooded in most spots, all ash has died... Cedar and fir component Record indicate some of stand may have been habitat cut in the past.
15	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	22.2	85	1-50	Mostly remnant of lowland seasonally flooded ash stand with all the ash currently dead from EAB, stand also has some cedar, fir, white pine and red maple in pockets. Portions where ash snags are prevalent are filling in with tag alder. Scrubby stand.
17	4136 - Aspen, Mixed Conifer	Poletimber Well	55.3	53	51-80	Another block of aspen of the similar age class, approaching log size overall. Southern and northern portions of stand have separate concentrations of log natural white pine. Some wet pockets overall upland and operable able by equipment. a few cedar scattered in stand. Overall upland some small wet spots in stand.
20	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	1.5	62	51-80	Lowland hardwood and cedar mix. Ash dead standing. Standing water.
21	4130 - Aspen	Sawtimber Well	1.7	53	51-80	Small drainage passes thru stand. With small creek best to leave small stand alone.
23	4139 - Aspen, Mixed Deciduous	Sapling Medium	5.3	17	Immature	Hummocky seasonally wet ground, small cut coming back to mostly aspen and red maple.
25	42310 - Planted Spruce	Poletimber Well	40.8	58	141-170	Planted in 1962 to white spruce. Still providing good cover. Some red maple and aspen mixed in mostly spruce.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4130 - Aspen	Sapling Well	14.1	17	Immature	Stand final harvest in 2000. Any oak was left.
31	6112 - Lowland Aspen	Poletimber Well	4.9	25	Immature	Small habitat cut looked to have been performed in the mid 90s.
32	4130 - Aspen	Sapling Well	3.9	22	Immature	Stand final harvested in 1996 as result of a timber trespass. Regenerated to aspen.
33	4133 - Aspen, Mixed Pine	Poletimber Well	75.5	52	51-80	Larger stand of primarily aspen, red maple and white pine. Mostly pole aspen, with log aspen clone on north end. Significant white pine component, some large log pine. Northern portions mostly aspen with larger concentrations of white pine in south and center.
36	4130 - Aspen	Sawtimber Well	8.3	47	81-110	Small three blocks of aspen.
38	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	44.1	124	81-110	Mixed lowland conifer swamp, stand get more wet to east, borders of stand have been habitat cut in past, but all conifer was left making them not very distinguishable from rest of swamp.
39	4130 - Aspen	Sapling Well	36.8	7	Immature	Final harvested summer of 2011, was a chipping job. Oak and cherry was left. Came back well to aspen.
40	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	2.5	81	111-140	Wet Pocket left out of Sale in 2011. Had significant ash component which is all read now.
41	6118 - Lowland Deciduous with Cedar	Poletimber Poor	25.8	65	1-50	Large lowland hardwood with some cedar. Lowland hardwood was mostly ash, most or all of which is dead or flooded out. Cedar on north end. Dead and down wood throughout.
42	4136 - Aspen, Mixed Conifer	Poletimber Well	7.5	35	1-50	Small stand of aspen, heavy balsam fir component.
43	4136 - Aspen, Mixed Conifer	Poletimber Well	33.5	53	51-80	Variable aspen, pine, fir stand. Mostly upland although some edges get a little wet seasonally . Stand is similar to stand 17 although it has a higher fir component. Rough lower quality aspen for most part which seems to be the way most of the aspen is in this compartment.
45	4319 - Mixed Upland Forest	Sawtimber Well	36.5	72	51-80	Upland mixed stand of white pine, red maple and aspen. Aspen concentrated in southern finger. Power line runs through stand in north.
46	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	11.3	95	51-80	Stand is more of a cedar lowland conifer stand to north, with more of a E type near the main road.
47	4130 - Aspen	Sapling Medium	7.7	11	Immature	Final harvested in summer of 2007. Some low areas in stand. Some cedar blowdown in stand to the east.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4130 - Aspen	Poletimber Well	62.1	52	51-80	Low quality for most part aspen, with some red pine, white pine mixed in. Upland overall although north end has some hummocky lower character. Split by seasonal drainage. Aspen quality variable, some spots ok, but many areas low quality.
49	42110 - Planted Red Pine	Sawtimber Well	41.3	65	111-140	Planted in 1956. Spayed in 1960 with DDT. Stand was third row thinned in 1992. Stand was second thinned in 2012. Good looking stand, with limited to no understory.
50	6120 - Lowland Cedar	Sawtimber Medium	17.0	124	81-110	Record indicate all lowland hardwood and aspen was cut in the mid 1980s, leaving all conifer. (Habitat cut likely) Areas that were cut are slowly filling in to balsam and lowland hardwood, cedar over story concentrated in pockets.
51	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	37.3	53	51-80	Large complex of lowland aspen, cedar, and hardwood. Hemlock grove in southeast corner. Overall wet, a few small isolated portions of stand may be operable with machinery. Portion of stand was attempted in be cut in 2011, but failed as it was too wet. West border of stand in the wettest. Some lowland ash pockets dead standing creating holes in canopy.
52	4130 - Aspen	Sawtimber Well	49.0	51	81-110	Decent block of aspen, upland throughout. A few white pine and red maple mixed in. Quality good with exception of east border.
53	6120 - Lowland Cedar	Sawtimber Well	8.9	107	111-140	Narrow low drainage, mostly cedar although center of stand is more of lowland aspen and maple. Appears seasonally to have flow.
54	42110 - Planted Red Pine	Sawtimber Well	42.4	62	111-140	Stand was planted in 1959. Stand 3rd row thinned in 1992. Stand was second thinned in 2011.
56	42110 - Planted Red Pine	Sawtimber Well	19.9	65	111-140	Planted in 1956. Stand was first third row thinned in 1992. Stand was second thinned in thinned 2011. Above ground power line runs though stand.
57	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	10.8	56	1-50	Mostly fallen apart jack pine with red maple scattered in. Jack pine holding together better in south end, mostly fallen out in north. Stand is converting to maple.
59	6112 - Lowland Aspen	Sawtimber Medium	18.3	67	1-50	Majority of stand is on steep slope and in the floodplain along Silver Creek. Upland on edges and lowland along creek floodplain.
60	4130 - Aspen	Sapling Well	33.7	7	Immature	Final Harvest summer of 2011. Any oak and Cherry left. Now aspen and maple regenerating. Was a chipping operation.
63	4130 - Aspen	Sapling Well	10.7	7	Immature	Stand was final harvested in 2011, no retention.
65	42200 - Natural White Pine	Sawtimber Medium	10.8	97	1-50	Natural white pine stand along 35 road. Stand was thinned Summer of 2011. All aspen, maple taken by spec.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	42140 - Planted Mixed Pine	Sapling Well	48.1	6	Immature	Stand was final harvested in 2011, and planted to red pine in 2013. Mix of jack pine, aspen, cherry and fir volunteers. Regeneration survey performed in 2014. Year three done in 2016. Stand will be heavy mix of jack, red and other deciduous.
68	4136 - Aspen, Mixed Conifer	Sawtimber Well	19.6	52	51-80	Aspen, fir, pine stand which is mostly upland although some hummocky low spots mostly near the south border.
69	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	4.6	105	51-80	Wet lowland conifer with some red maple as well. Stand is located on the west side of the pipeline and north of a drainage.
72	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	2.8	17	Immature	Stand was final harvested in 2000. Mixed regeneration came in well, wet on west edge. Some scattered white cedar was left.
73	4139 - Aspen, Mixed Deciduous	Sawtimber Well	19.3	56	51-80	Variable aspen dominated stand on the banks of the buttermilk creek. Upland along the banks and low character need the creek bottom. Aspen will gradually fall out the pine and red maple will take over stand.
74	4130 - Aspen	Sapling Well	21.2	17	Immature	Stand was final harvested in 2000, all oak was left and a retention island.
75	4113 - R.Maple, Conifer	Sawtimber Well	1.3	69	51-80	Retention island for surrounding cut. Small island surrounded by clear-cut. Few large white pine.
78	42110 - Planted Red Pine	Sawtimber Well	25.2	65	141-170	Planted in 1956. Stand for first third row thinned in 1992. Stand was second thinned in 2011.. Some illegal quad activity. Stand is only accessible through private to south for logging purposes. (Has been obtained last two times)
79	6120 - Lowland Cedar	Sawtimber Well	0.8	102	81-110	Small cedar and hemlock pocket.
85	42110 - Planted Red Pine	Sawtimber Well	18.7	62	141-170	Planted in 1959. Stand was first row thinned in 2001. Ready to be thinned again.
86	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	33.6	115	81-110	Buffer along buttermilk creek. Upland along edges but overall lowland valley buffering creek.
93	4130 - Aspen	Sawtimber Well	15.1	52	51-80	Rough looking aspen, variable quality but overall not a very impressive aspen stand.
94	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.1	112	51-80	Stagnate wet conifer and lowland hardwood complex. Ash has died .
95	4130 - Aspen	Poletimber Well	40.2	40	51-80	Block of mostly low quality quaking aspen, with small lowland pockets mixed in stand. Aspen better quality in a few spots over all low quality rough looking aspen. A few white pine, cedar and hemlock in stand.

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Cadillac Mgt. Unit

## Report 7 – Forested Stands

Compartment: 136  
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
98	42200 - Natural White Pine	Sawtimber Medium	9.7	82	1-50	Natural pine stand, mostly white with some red. Cut in summer of 2011, all aspen and maple cut at that time as well. Left with pine over story of about 20 BA with flush of aspen and maple.
103	4130 - Aspen	Poletimber Well	2.3	45	51-80	Small two acre stand of aspen. Cut next time you enter stand 104, or just allow to convert to longer lived species.
104	42110 - Planted Red Pine	Sawtimber Well	16.4	59	111-140	Stand first thinned in 1992. Stand second thinned in 2011. Hardwood understory starting to take hold. Good quality pine.
107	4110 - Sugar Maple Association	Sawtimber Well	48.7	75	51-80	Mostly sugar maple medium quality log/pole timber. Stand last thinned spring of 2011. Rolling terrain.
109	4130 - Aspen	Sawtimber Well	37.5	50	1-50	Upland piece of aspen, with white pine along the western border of stand. Stand borders portion of Baxter bridge road. Aspen in rough shape in spots in others looks pretty nice.
110	6112 - Lowland Aspen	Sapling Medium	8.3	14	Immature	Stand was habitat cut in 2004, no cedar was cut.
113	42200 - Natural White Pine	Sawtimber Well	1.0	78	51-80	Small pocket of natural white pine.
116	4130 - Aspen	Sapling Well	127.2	7	Immature	Stand was final harvested in 2011, any oak, cedar and hemlock were left. Wildlife openings mixed in area. Same back well mostly upland a few wet pockets.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	330 - Low-Density Trees	1.3	No	Old fire break, filling in with red pine saplings.
5	6220 - Alder/willow	0.6	No	
6	6220 - Alder/willow	0.3	No	
8	6230 - Cattail	0.5	No	Pipeline. Wet.
13	310 - Herbaceous Openland	1.1	No	Looks to be old well site or barrow pit, seasonally wet maybe?
14	6229 - Mixed lowland shrub	0.8	No	
16	310 - Herbaceous Openland	0.9	No	Appears from imagery private to south cut this small sliver. Too late to pursue trespass, if it even is one.
18	310 - Herbaceous Openland	2.3	No	managed wildlife opening.
19	330 - Low-Density Trees	5.7	No	
22	31022 - Warm Season Grass	5.4	No	
24	310 - Herbaceous Openland	0.9	No	Fire break
26	6229 - Mixed lowland shrub	0.6	No	
28	330 - Low-Density Trees	16.6	No	
29	310 - Herbaceous Openland	8.9	No	managed wildlife opening.
30	122 - Road/Parking Lot	9.2	No	Road and shoulder
34	330 - Low-Density Trees	3.9	No	
35	122 - Road/Parking Lot	2.8	No	Road
37	330 - Low-Density Trees	2.9	No	Low density trees, opening filling in with balsam mostly.



Stand	Cover Type	Acres	Managed Site	General Comments:
55	122 - Road/Parking Lot	0.2	No	10 rd
58	330 - Low-Density Trees	1.7	No	
61	310 - Herbaceous Openland	3.2	No	Consumers power Line
62	310 - Herbaceous Openland	1.1	No	Power line.
64	330 - Low-Density Trees	31.3	No	Scattered scotch pine, cherry and maple. Small aspen clone as well. Someone using a road to access property, appears they lack a easement.
66	310 - Herbaceous Openland	7.4	No	
70	6229 - Mixed lowland shrub	6.9	No	Was mostly a lowland ash E type but with all the ash dead stand is coveting to more of a lowland shrub stand with dead ash snags at this time.
71	310 - Herbaceous Openland	8.4	No	Consumers line
76	6220 - Alder/willow	0.7	No	
80	6220 - Alder/willow	0.6	No	Low pocket to stay out of when stand 93 is cut.
81	330 - Low-Density Trees	1.7	No	
82	310 - Herbaceous Openland	16.4	No	
91	330 - Low-Density Trees	6.6	No	Upland openings slowly filling in.
96	629 - Mixed non-forested wetland	25.7	No	Mostly tag alder lowland ,although few pockets and fingers of lowland hardwood and some white pine. Too scattered and flooded to consider forested stand. Appears some kind of man-made drainage on north end of complex, to drain to creek to west.
100	330 - Low-Density Trees	0.7	No	
102	330 - Low-Density Trees	1.4	No	Landing site.
105	330 - Low-Density Trees	5.3	No	Old opening slowly filling in with pine and hardwood from adjacent stands. Appear east end was used at one point are a "Barrow pit" Over time stand will slowly become forested.



Stand	Cover Type	Acres	Managed Site	General Comments:
108	330 - Low-Density Trees	3.1	No	
111	3102 - Grass	1.3	No	
112	330 - Low-Density Trees	19.3	No	Openings slowly filling in, mostly with cherry, red and white pine.