



# Compartment Review Presentation

**Cadillac Forest Management Unit**

**Compartment 63090**

**Entry Year 2021**

**Acreage: 1,857**

**County Missaukee**

**Management Area: Houghton Lake Wetlands**

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**Revision Date:** 2019-06-07

**Stand Examiner:** Joe Ventimiglia

**Legal Description:**

T23N, R5W, Sections 5,6,7,8,16,17.

**Identified Planning Goals:**

Vegetation management in the Houghton Lake Wetlands management area will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the aspen age-class distribution. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within the next decade are the need to continue to balance aspen age-class distributions, an expected increase in recreation pressure and invasive species encroachment.

**Soil and topography:**

Lupton muck under the marsh areas. A variety of sands through the rest of compartment including, Otisco, Brevort, Graycalm and Moncalm. Mostly flat and marshy.

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

Private land in every section. Full time and seasonal residences. Compartment is surrounded by farms and hunting clubs.

**Unique Natural Features:**

Haymarsh Swamp and Haymarsh Creek.

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

None Listed.

**Special Management Designations or Considerations:**

No reasonable commercial access to a few islands in middle of Haymarsh swamp. Stand have been accessed in past by wildlife with habitat cuts.

**Watershed and Fisheries Considerations:**

Hay marsh Creek.

**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. A portion of this compartment is a part of the Deadstream Swamp complex.

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

Sections 5, 6, 7, 8, 16, & 17, T23N-R5W, Missaukee Co.

Surface sediments consist of ice-contact and glacial outwash sand & gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other parts of the State. A gravel pit is in Section 4 and there is potential on the uplands. Enterprise Field is located two miles to the east. This field has produced nearly 5 million BO from the Devonian Richfield Formation and is in secondary recovery operations. Most of the state minerals are currently leased for oil and gas development and sections 5 -8 have been nominated for nonmetallic potash exploration.

**Vehicle Access:**

Road access detailed on compartment map.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Heavy deer and upland bird hunting area, as well as hiking and wildlife viewing.

**Fire Protection:**

This compartment has areas that would not allow good access for fire equipment. Much of the fuels are aspen. IA is from Houghton Lake. Initial attack times could be a concern. If a fire would occur in one of the poor access areas, it possibly could be labor intensive to control.

**Additional Compartment Information:****The following reports from the Inventory are attached:**

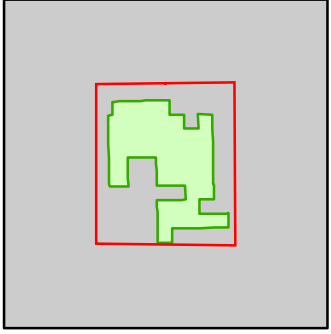
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

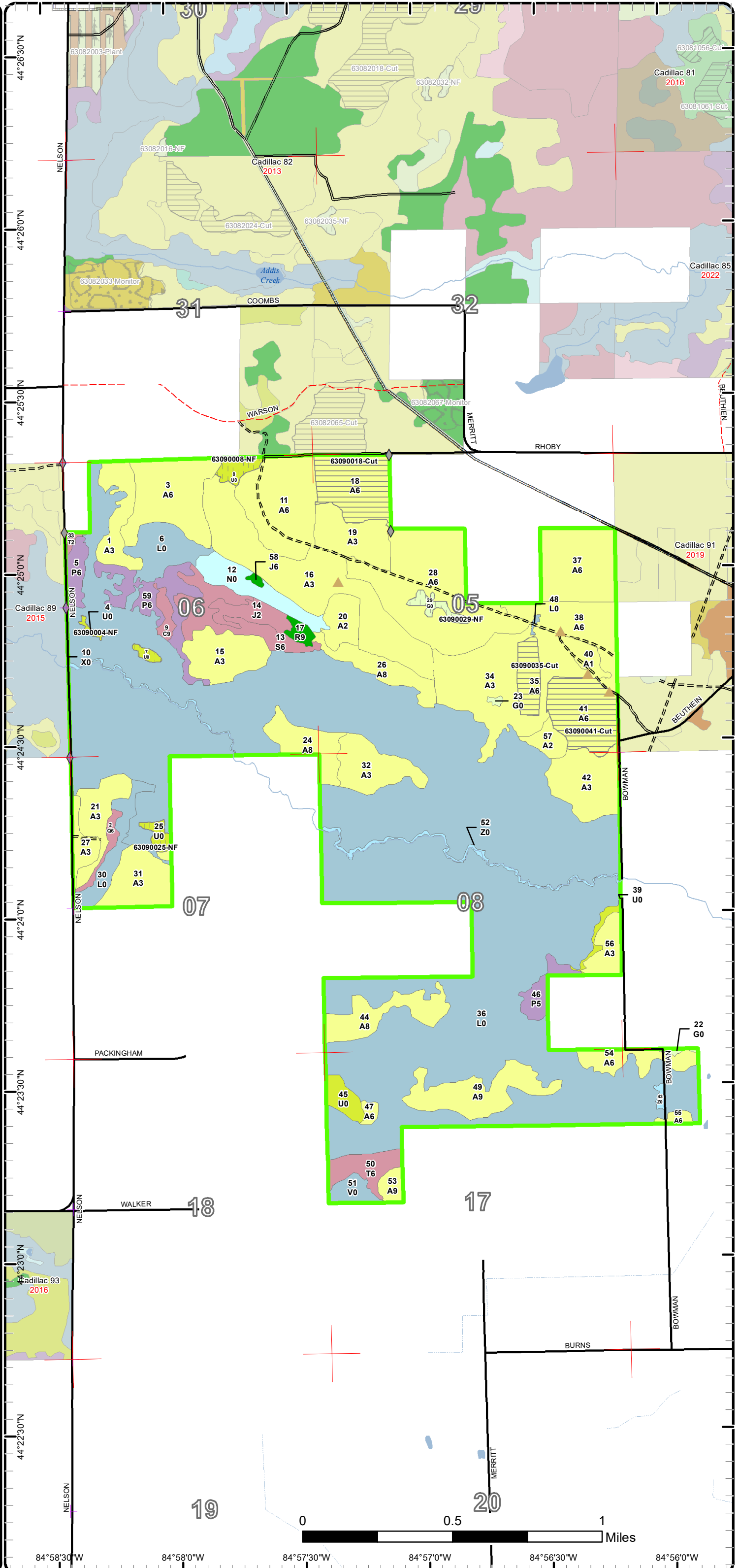
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 90  
 T23N-R05W Sec, 05-08,16,17  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt Area: Houghton Lake Wetlands  
 YOE: 2021  
 Acres: 1,857 GIS Calculated  
 Examiner: Joe Ventimiglia  
 Map Revised: 11/15/2019  
 Map Phase: Post-Review

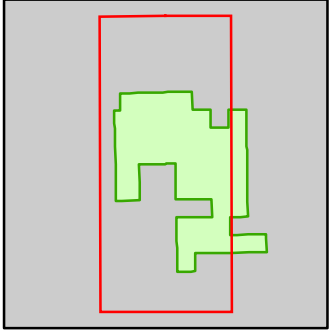


- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bems
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Opening Maintenance
- 413 - Aspen
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

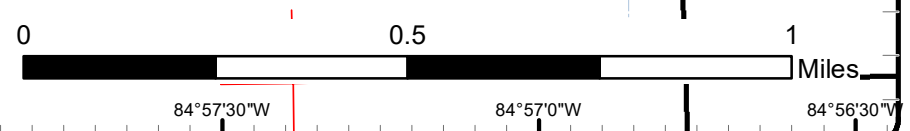
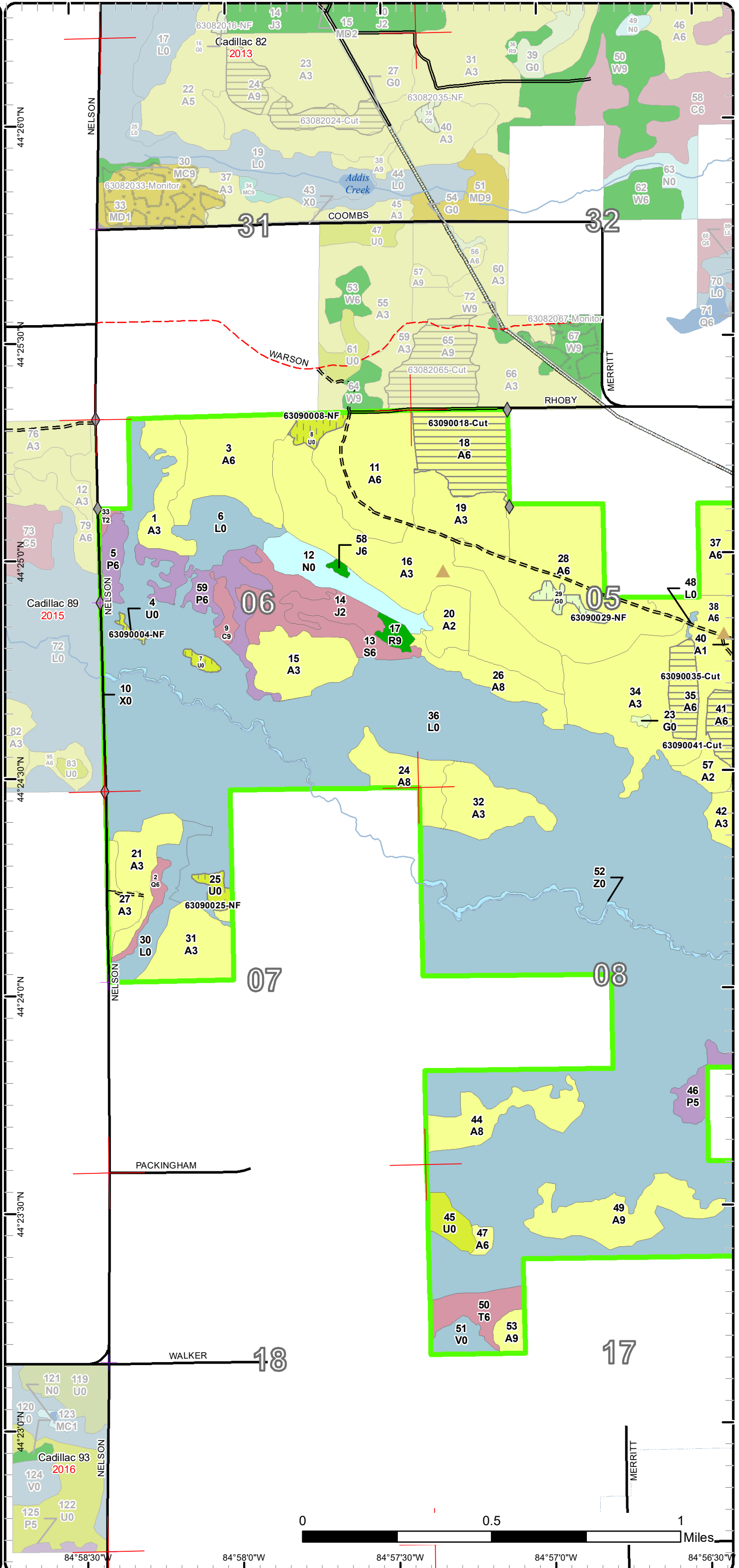


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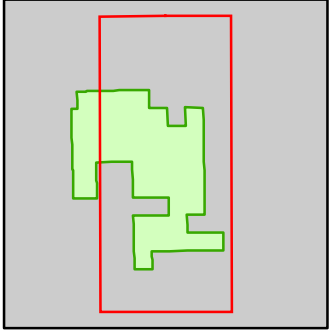


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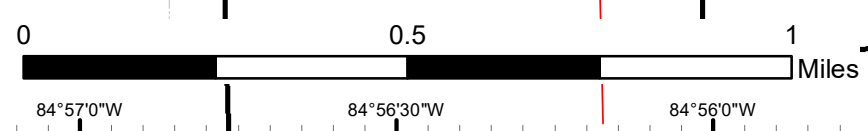
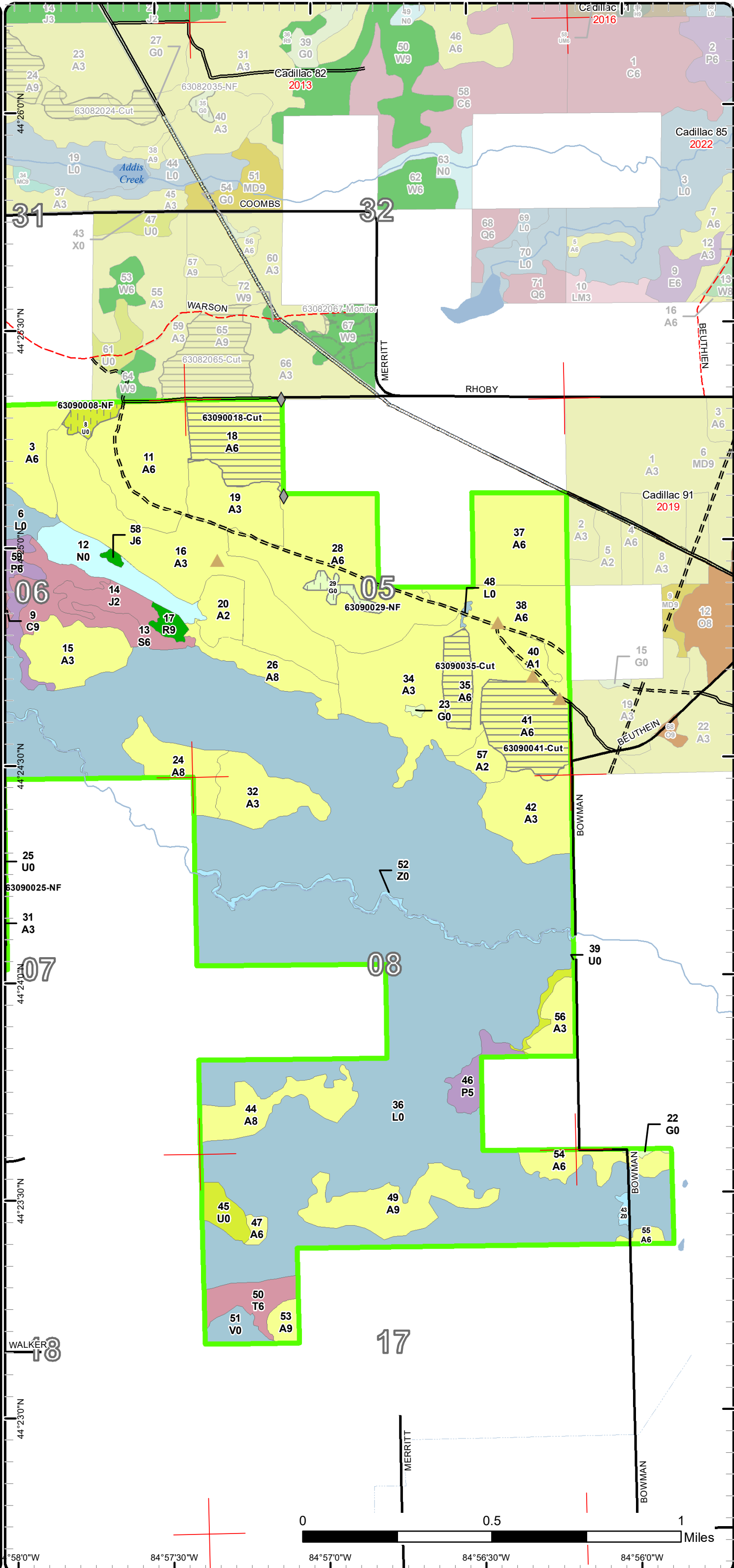


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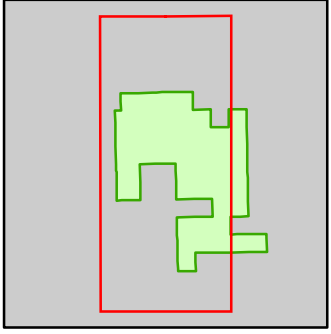
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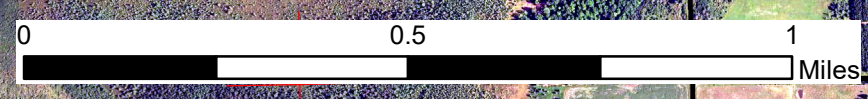
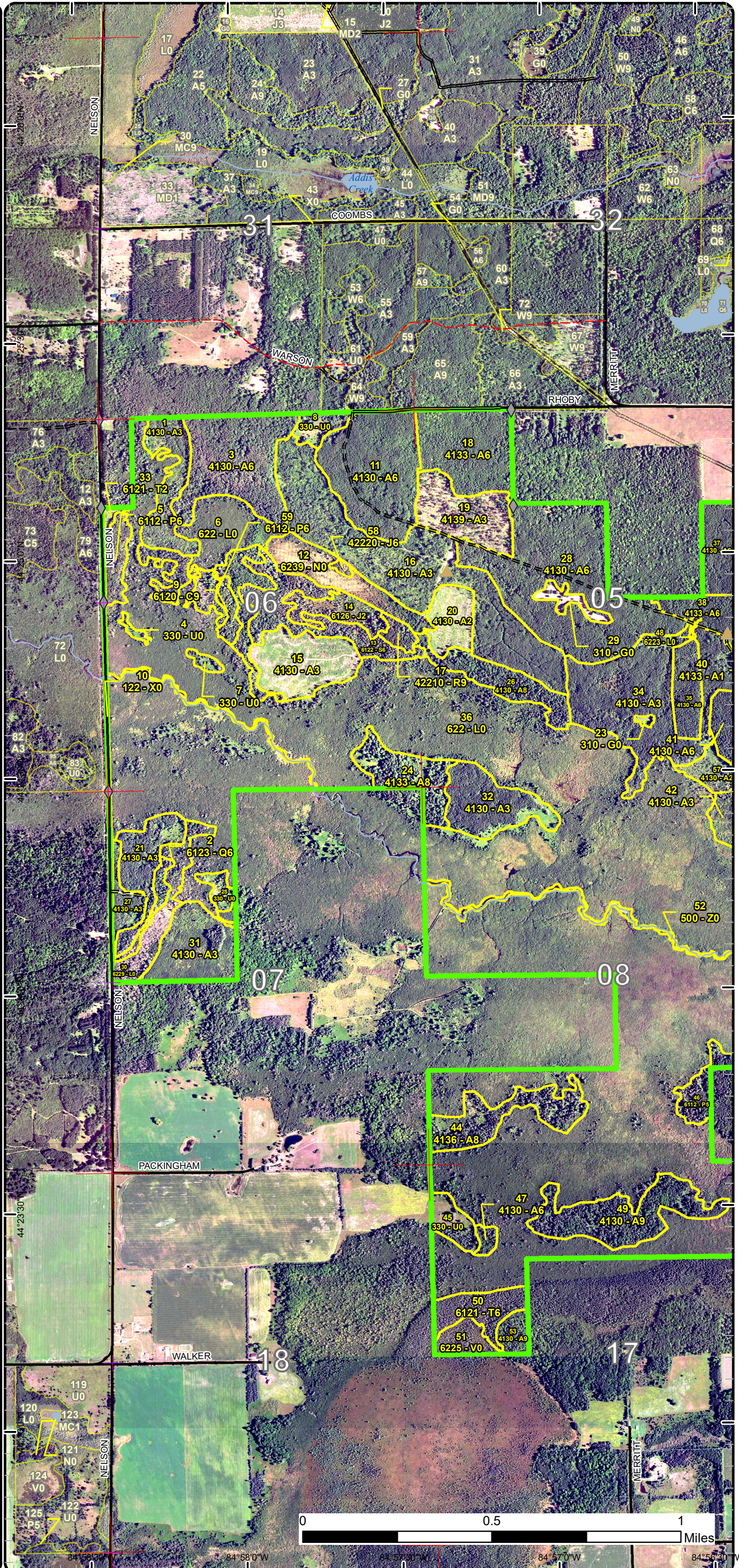
84°57'30"W
84°57'0"W
84°56'30"W
84°56'0"W

# Stand Boundary Map

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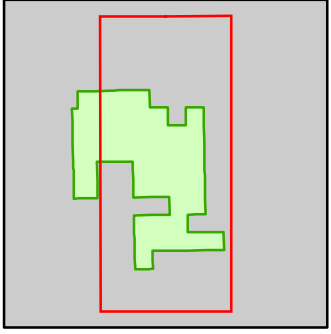
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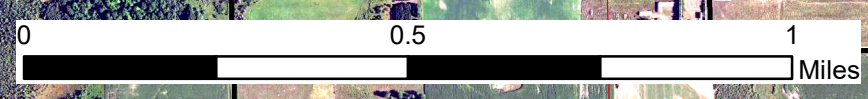
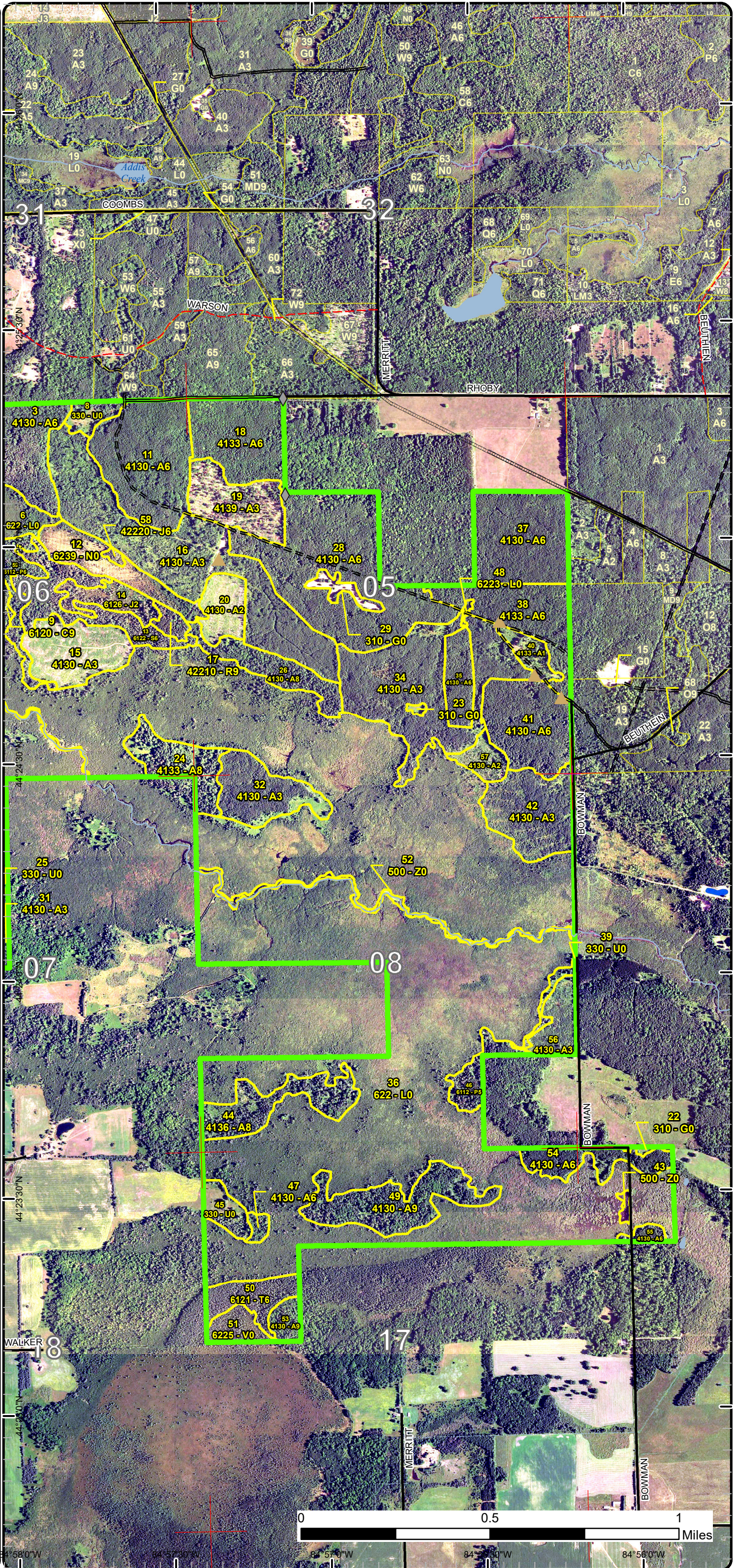
84°58'0" W      84°57'30" W      84°57'0" W      84°56'30" W

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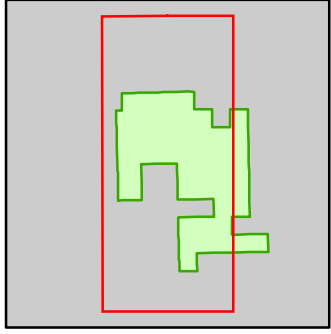
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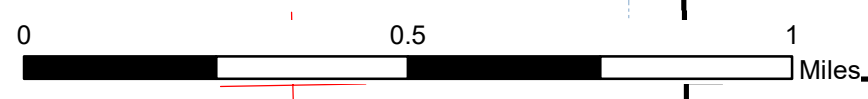
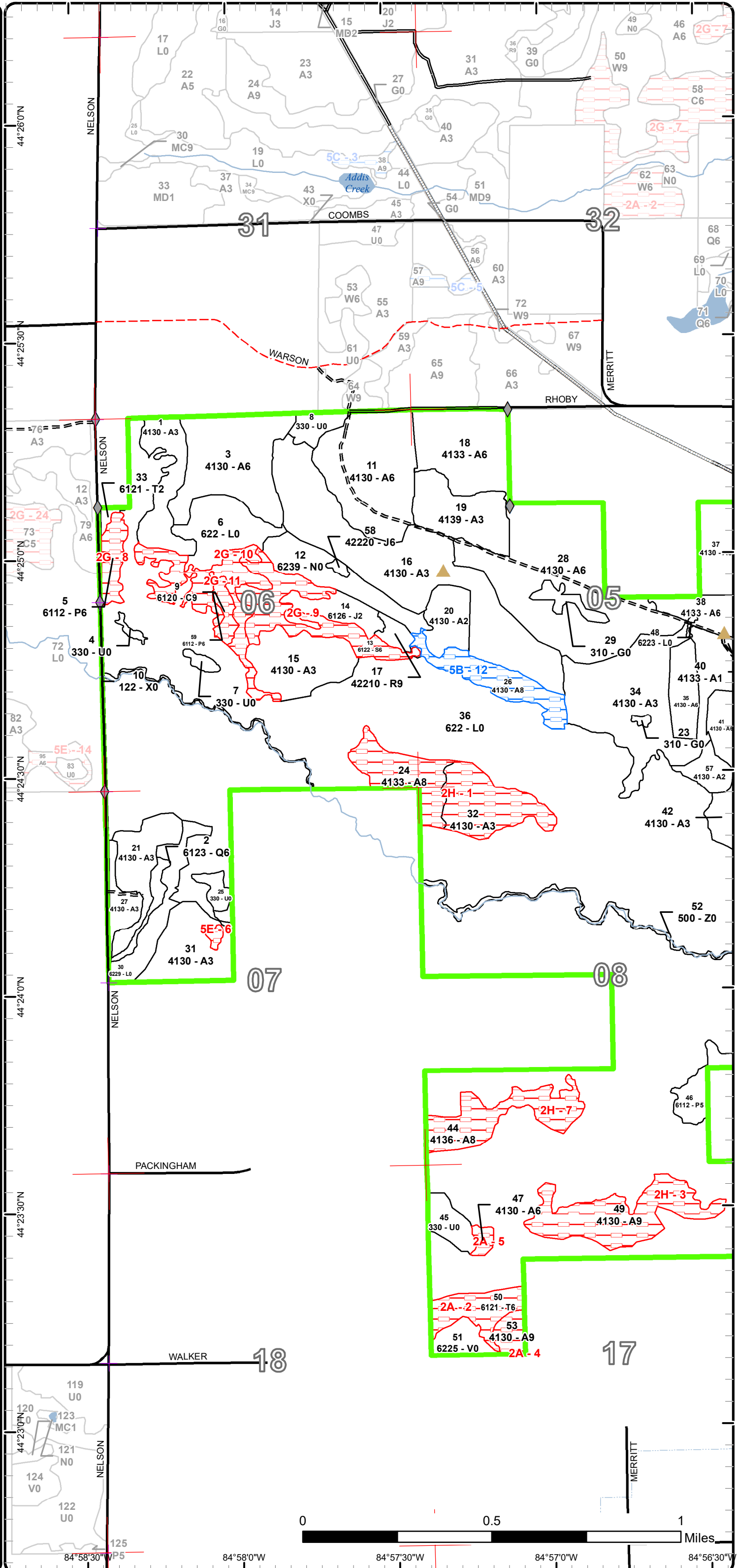
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  - Pipeline
  - Compartment Boundary
  - Available w/ Constraints
  - Unavailable
- 5B: Maintain for regeneration purposes  
 2A: Adjacent landowner denied access  
 2G: Too wet (sensitive soils, does not include access issues)  
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)  
 5E: Long-Term Retention
- Stand Boundaries
  - Cold Water Streams
  - Cold Water Lakes

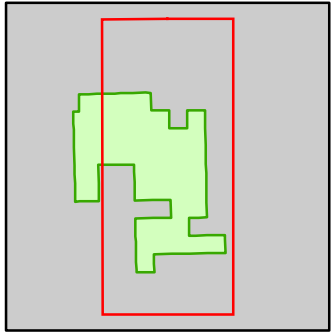


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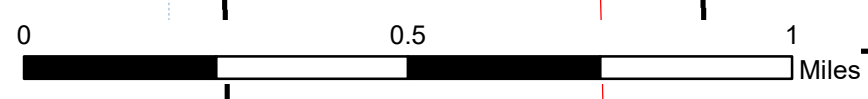
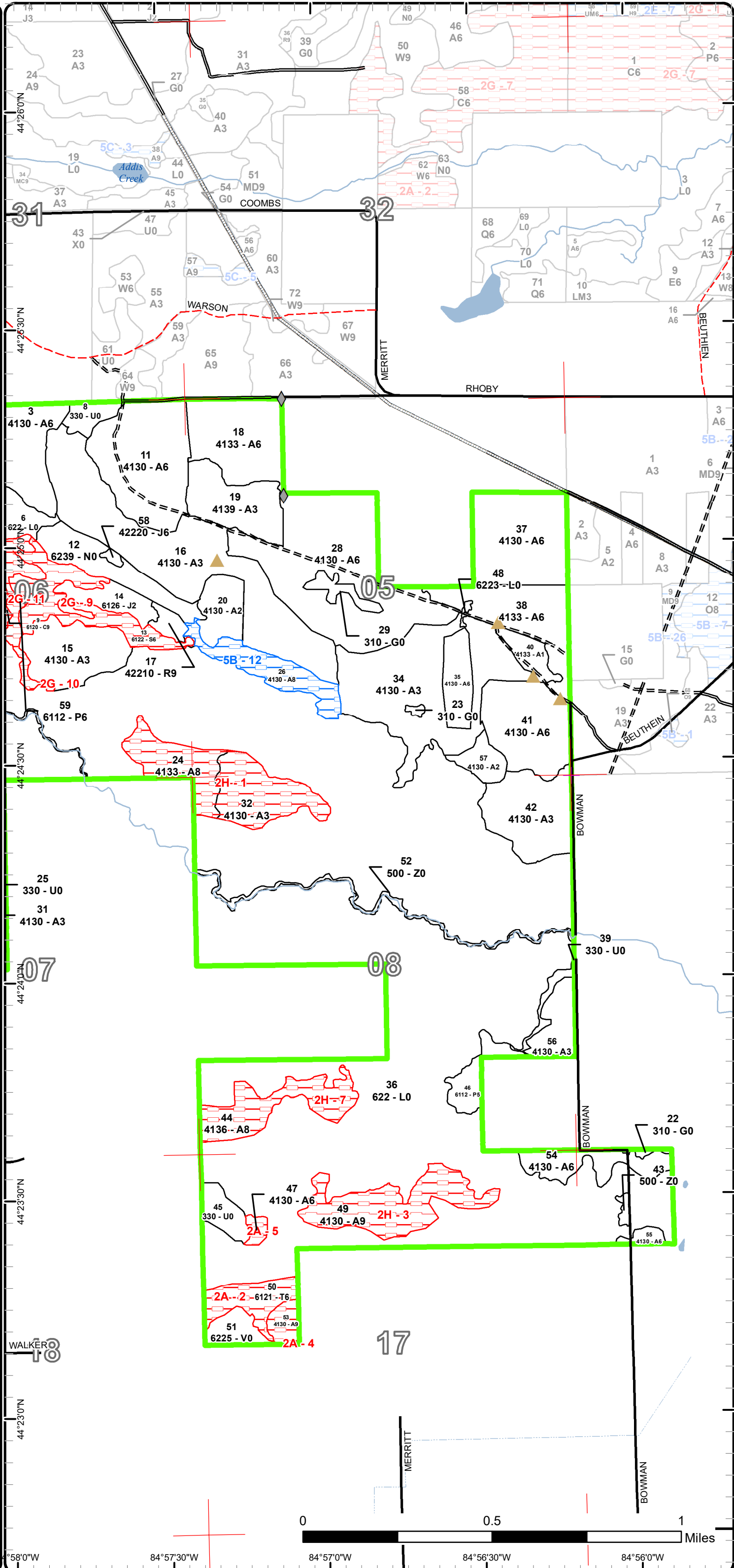


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  - Pipeline
  - Compartment Boundary
  - Available w/ Constraints
  - Unavailable
- 5B: Maintain for regeneration purposes  
 2A: Adjacent landowner denied access  
 2G: Too wet (sensitive soils, does not include access issues)  
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
  - Cold Water Streams
  - Cold Water Lakes



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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	104	143	105	222	105	17	25	50	0	5	0	0	0	0	0	0	0	774
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Cedar	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	4
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Jack Pine	0	0	11	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Aspen/Balsam Poplar	0	0	0	0	9	32	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Conifers	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Shrub	905	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	905
Lowland Spruce/Fir	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Red Pine	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Tamarack	0	0	1	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	14
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
<b>Total</b>	<b>976</b>	<b>104</b>	<b>155</b>	<b>105</b>	<b>232</b>	<b>166</b>	<b>17</b>	<b>38</b>	<b>54</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1854</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 90

Total Compartment Acres: 1,857

Commercial Harvest - 76  
 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		76	0	0	0	0	0	0	0	0	76
	<b>Total</b>	<b>76</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		76	0	0	0	0	0	0	18	0	93
Next Step		0	0	0	0	0	76	0	0	0	76
	<b>Total</b>	<b>76</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>169</b>



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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**Approved Treatments:**

4	63090004-NF	1.2	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Keep open. Cut brush and trees as needed. May plant shrubs, mast producing trees as well as grasses and forbs.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
7	63090007-NF	2.0	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Keep open. Cut brush and trees as needed. May plant shrubs, mast producing trees as well as grasses and forbs.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
8	63090008-NF	5.9	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Keep open. Cut brush and trees as needed. May plant shrubs, mast producing trees as well as grasses and forbs.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</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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18	63090018-Cut	32.2	4133 - Aspen, Mixed Pine	Poletimber Well	44	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Final Harvest leave retention island 3 to 5 percent of total acreage include most or all of pine island in middle of stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen primary some mixed pine and maple/ oak also accepted.

Regen:

Other Maintain most or all of mature pine island for structural and species diversity of mostly aspen area.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

25	63090025-NF	3.8	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
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Prescription Keep open. Cut brush and trees as needed. May plant shrubs, mast producing trees as well as grasses and forbs.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

29	63090029-NF	4.6	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

35	63090035-Cut	11.6	4130 - Aspen	Poletimber Well	41	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final Harvest. No retention as a result of small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen primary

Regen:

Other Winter or dry summer only include with stand 41 in sale.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
41 63090041-Cut	31.7	4130 - Aspen	Poletimber Well	45	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest leave Retention island 3 to 5 percent of total acreage. Include some pine within retention area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen primary with some pine and maple accepted as well.</p> <p><u>Regen:</u></p> <p><u>Other</u> Map retention area in MIFI.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment 93  
Acreage Proposed:

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment: 90  
Year of Entry: 2021

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

	Acres	Acres Avail	Acres Not Available	Dominant Site Condition	Dominant Site Conditions				
					5B	2A	2G	2H	5E
775	654	<b>17</b>	104	Aspen	<b>17</b>	8	0	96	1
7	7	<b>0</b>	0	Bog		0			
5	0	<b>0</b>	5	Cedar			5		
6	6	<b>0</b>	0	Herbaceous Openland					
12	12	<b>0</b>	0	Jack Pine			0		
24	24	<b>0</b>	0	Low-Density Trees					
41	9	<b>0</b>	32	Lowland Aspen/Balsam Poplar			32		
4	4	<b>0</b>	0	Lowland Conifers					
905	905	<b>0</b>	0	Lowland Shrub		0	0	0	
25	0	<b>0</b>	25	Lowland Spruce/Fir			25		
19	19	<b>0</b>	0	Marsh	<b>0</b>		0		
4	4	<b>0</b>	0	Red Pine	<b>0</b>		0		
15	1	<b>0</b>	13	Tamarack		13	0		
4	4	<b>0</b>	0	Urban					
11	11	<b>0</b>	0	Water					
1,857	1,661	<b>17</b>	179	Total Forested Acres	<b>17</b>	21	61	96	1
	89%	<b>1%</b>	10%	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	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> No reasonable commercial access. Too much LO type to cross to get to. Area on reached by habitat but in pass. Last was 1993.							
2	Unavailable	<b>2A: Adjacent landowner denied access</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

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3	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> upland island in middle of swamp, no commercial access.							
4	<b>Unavailable</b>	<b>2A: Adjacent landowner denied access</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2A: Adjacent landowner denied access</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too much access for 2 acres of timber.							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LTR for stand 31 that was cut in 2013.							
7	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Upland island of timber in middle of large LO. No commercial access.							
8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Attempted to be cut in 2006, appears it became too wet to operate.							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment: 90  
Year of Entry: 2021

9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Portion of stand was attempted to be cut in 2002 unsuccessfully. With perfect frozen condition might be possible with tracked machines. For now throwing too wet site condition.							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too wet.							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allow stand to covert to more suited better quality red maple.							

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

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### 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4130 - Aspen	Sapling Well	18.8	13	Unspecified	N/A	Stand final harvested in 2006.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		60	Sapling	1	13	Balsam Fir	Low	< 5 feet	Sapling
Bigtooth Aspen		40	Sapling	1	13	Tag Alder	Low	< 5 feet	Tall Shrub
2	6123 - Lowland Fir	Poletimber Well	4.2	46	51-80	N/A	Sliver of mostly fir, maple and cedar that has been missed from recent aspen cuts. Maintain as buffer, seasonally wet as is.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Northern White Cedar		10	Log/Pole	10		Tag Alder	High	5 - 10 feet	Tall Shrub
Quaking Aspen		20	Pole/Log/XLog	9					
Balsam Fir		55	Pole/Log	8	46				
Red Maple		10	Log/Pole	13					
3	4130 - Aspen	Poletimber Well	41.0	35	51-80	N/A	Stand was final harvested in 1983. Hummocky ground that seasonally wet.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole	6		Red Maple	Medium	Variable	Sapling
Quaking Aspen		75	Pole	7	35	White Pine	Low	< 5 feet	Sapling
Paper Birch		8	Pole	5					
4	330 - Low-Density Trees	Nonstocked	1.2		Unspecified	No	Small upland island with some trees on edge, mostly open.		
5	6112 - Lowland Aspen	Poletimber Well	7.9	43	1-50	N/A	Lowland aspen, stand appears from records to have been attempted to be cut but was too wet to operate. Area that was cut in 2006(stand 33) flooded out and is barely a forested stand today in 2018. Sliver near road looks operable but majority of stand too wet, standing water in fall.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		70	Pole/Log	8	43	Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir		20	Pole	7		Balsam Fir	Low	< 5 feet	Sapling
						Tag Alder	Medium	5 - 10 feet	Tall Shrub
6	622 - Lowland Shrub	Nonstocked	20.2		Unspecified	No			
7	330 - Low-Density Trees	Nonstocked	2.0		Unspecified	No	Island of upland in huge alder swamp complex.		
8	330 - Low-Density Trees	Nonstocked	5.9		Unspecified	No	Old opening filling in with white pine in east end. Can see the couple parent white pine that seeded the old opening in in east.		
9	6120 - Lowland Cedar	Sawtimber Well	4.5	118	111-140	N/A	Nice little finger of mature cedar, limited to no understory. Good thermal cover for deer and other wildlife.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Northern White Cedar		93	Log/Pole	12	118	Balsam Fir	Trace	5 - 10 feet	Sapling
						Tag Alder	Trace	Variable	Tall Shrub
10	122 - Road/Parking Lot	Nonstocked	4.4		Unspecified	No	Nelson RD and shoulder of RD.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
11	4130 - Aspen	Poletimber Well	46.0	36	51-80	N/A	Stand was final harvested in 1983. Came back well to aspen with some pine, oak and maple.																																													
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12	6239 - Mixed Emergent Wetland	Nonstocked	19.3		Unspecified	No	Appears from imagery to have been managed for some reason... Blueberry's? Now just a lowland shrub with a few scattered conifer.																																													
13	6122 - Black Spruce	Poletimber Well	24.7	44	51-80	N/A	Old records looks like area was final harvested in mid 70's. Area has full leatherleaf bog understory. Mostly spruce but pockets of log red pine in north. Appears from records stand was attempted to be cut in 2002, but became too wet.																																													
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14	6126 - Lowland Jack Pine	Sapling Medium	11.1	17	81-110	N/A	Blueberry leatherleaf ground cover. Final harvested in 2002. Came back to semi open conifer/aspen stand a few mature red pine were left.																																													
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15	4130 - Aspen	Sapling Well	25.1	4	Immature	N/A	Aspen stand which was final harvested in Fall 2015, all oak was left. Hummocky ground. Two track was blocked to foot access only. Short wood operation.																																													
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16	4130 - Aspen	Sapling Well	79.8	14	Immature	N/A	Stand was cut in 2003/2004. All oak was left. Stand has its wet pockets. Oak concentrated up by road not much oak was in stand.																																													
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17	42210 - Natural Red Pine	Sawtimber Well	3.7	75	111-140	N/A	Stand was last thinned in 2002. No planting records appears natural. Variability in size class and spacing leads me to believe it may be natural.																																													
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18	4133 - Aspen, Mixed Pine	Poletimber Well	32.3	44	51-80	N/A	Appears that was final harvested in 1975, pine understory was worked around judging from records. Pine mostly in one large pocket in middle of stand but also scattered in slight rolling terrain.																																
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19	4139 - Aspen, Mixed Deciduous	Sapling Well	23.3	4	Immature	N/A	Stand was final harvested in 2015, all oak, beech and red pine were left. Should sprout back well to aspen. Unneeded two track was closed.																																
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20	4130 - Aspen	Sapling Medium	12.2	4	Immature	N/A	Moderate to heavy red maple and tag alder understory. Wet hummucky ground at times.																																
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21	4130 - Aspen	Sapling Well	17.8	25	Immature	N/A	Stand was final harvested in 1993. On verge of pole stand.																																
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22	310 - Herbaceous Openland	Nonstocked	0.9	0	Unspecified	No																																	
23	310 - Herbaceous Openland	Nonstocked	0.7	0	Unspecified	No	Old landing for final harvest in stand 34?																																
24	4133 - Aspen, Mixed Pine	Sawtimber Medium	18.6	76	1-50	N/A	No access. Island in middle of tag alder swamp. Mixed stand with evidence of beaver activity creating open spots. Stand covering to longer lived pines as aspen falls out.																																
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25	330 - Low-Density Trees	Nonstocked	3.8		Unspecified	No	Upland opening.																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	4130 - Aspen	Sawtimber Medium	17.3	56	Unspecified	N/A	Falling apart sparse rough looking aspen stand with red maple regeneration thick in understory. Allow stand to convert to red maple, this is already occurring. Site more suited to red maple.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Log/Pole	11		Red Maple	
Quaking Aspen		78	Log	12	56	Red Oak	
						Quaking Aspen	
						White Pine	
						Tag Alder	
						Density	
						Avg. Height	
						Size	
27	4130 - Aspen	Sapling Well	7.2	13	Immature	N/A	Stand was final harvested in 2006. Came back well to aspen.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		85	Sapling	2	13		
Balsam Fir		8	Sapling	2			
28	4130 - Aspen	Poletimber Well	78.2	35	51-80	N/A	Stand final harvested in 1983. Some wet areas located in the south portion of the stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Pole	6		Red Maple	
Quaking Aspen		72	Pole	7	35	White Pine	
White Pine		10	Pole/Log	8		Tag Alder	
						Density	
						Avg. Height	
						Size	
29	310 - Herbaceous Openland	Nonstocked	4.6		Unspecified	Managed Opening	Managed wildlife opening.
30	6229 - Mixed lowland shrub	Nonstocked	15.3	0	Unspecified	No	Low and wet. Former E type dominated by ash. With all the ash dead and flooded stand is more of lowland shrub with scattered aspen and few ash still alive.
31	4130 - Aspen	Sapling Well	25.0	6	Immature	N/A	Stand was final harvested in Winter 2013. Access was across State. Retention island was left in stand(represents what stand looked like before cut). Access was wood corduroyed.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Sapling	1	6		
Quaking Aspen		79	Sapling	1	6		
Balsam Fir		10	Sapling	1	6		
32	4130 - Aspen	Sapling Well	23.2	26	Immature	N/A	Habitat cut in 1993. Island in middle of lowland LO complex. Commercial management not viable option.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Sapling	3		Red Maple	
Bigtooth Aspen		75	Sapling	3	26	White Pine	
Balsam Fir		10	Sapling	2			
						Density	
						Avg. Height	
						Size	
33	6121 - Tamarack	Sapling Medium	1.3	13	Immature	N/A	Stand was cut in 2006. appears from records stand became too wet to cut and producer pulled out. Stand is close to be considered a non forested stand but tam and aspen regen enough to call forested.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		40	Sapling	2	13	Alder	
Tamarack		50	Sapling	2	13		
Balsam Fir		10	Sapling	2			
						Density	
						Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>34</b>	4130 - Aspen	Sapling Well	63.5	24	Immature	N/A	Final harvested in 1994. Left a few scattered oak. Seasonally wet in spots.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling/Pole	4		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Quaking Aspen		80	Sapling/Pole	4	24	White Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		8	Log/XLog	14		Witch Hazel	Low	5 - 10 feet	Tall Shrub
<b>35</b>	4130 - Aspen	Poletimber Well	11.6	41	51-80	N/A	Rectangular shaped seasonally wet aspen stand. Hard to say but stand likely dry's out nicely in summer.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole	7		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		90	Pole/Log	8	41	Red Maple	Medium	Variable	Sapling
<b>36</b>	622 - Lowland Shrub	Nonstocked	868.6		Unspecified	No	Huge complex of alder, willow and various other lowlands shrub species. Haymarsh creek runs through stand. A few pockets/small islands of upland too small to map.		
<b>37</b>	4130 - Aspen	Poletimber Well	39.2	36	1-50	N/A	Stand was final harvested in 1983. Came back well to aspen.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		8	Pole	5		Beech	Low	< 5 feet	Sapling
Quaking Aspen		88	Pole	6	36	White Pine	Medium	5 - 10 feet	Sapling
						Red Maple	High	Variable	Sapling
<b>38</b>	4133 - Aspen, Mixed Pine	Poletimber Well	29.2	43	51-80	N/A	Mixed aspen, pine, oak and beech stand. Low seep in stand the flows north and south near stand 48. Creates historic mud hole in road, could be fixed with culvert. Pine concentrated in pockets as well and scattered in stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole	7		Beech	Low	Variable	Sapling
Bigtooth Aspen		40	Pole	8	43	White Pine	Medium	5 - 10 feet	Sapling
White Pine		25	Log/Pole	11		Red Maple	Medium	5 - 10 feet	Sapling
Red Pine		8	Log/Pole	11					
Red Oak		10	Pole/Log	9					
<b>39</b>	330 - Low-Density Trees	Nonstocked	3.1	0	Unspecified	No	Edge left from cut.		
<b>40</b>	4133 - Aspen, Mixed Pine	Sapling Poor	7.0	13	Unspecified	N/A	Harvested with the Haymarsh aspen sale in 2006. Came back patchy with white pine, aspen and maple. Very open in spots.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		15	Sapling	1					
Red Oak		10	Log/Pole	12					
Bigtooth Aspen		50	Sapling	2	13				
White Pine		25	Sapling	2					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>41</b>	4130 - Aspen	Poletimber Well	31.7	45	51-80	N/A	Stand final harvested in 1974. Decent looking aspen a few pine mixed in northeast end. Seasonally wet in south.																																										
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<b>42</b>	4130 - Aspen	Sapling Well	29.9	13	Immature	N/A	Stand was final harvested in 2006, short wood operation cut in dry summer. Stand floods out seasonally on west side.																																										
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<b>43</b>	500 - Water	Nonstocked	1.3		Unspecified	No	Huge complex of alder, willow and various other lowlands shrub species. Haymarsh creek runs through stand. A few pockets/small islands of upland too small to map.																																										
<b>44</b>	4136 - Aspen, Mixed Conifer	Sawtimber Medium	22.5	66	51-80	N/A	No access. Island in middle of tag alder, no reasonable access on foot or with equipment.																																										
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<b>45</b>	330 - Low-Density Trees	Nonstocked	7.7		Unspecified	No	No access, unless walking through miles of thick tag alder swamp.																																										
<b>46</b>	6112 - Lowland Aspen	Poletimber Medium	9.3	33	Immature	N/A	Stand appears to have been cut in 1986. Along with 54 and 55. Low pockets throughout stand.																																										
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<b>47</b>	4130 - Aspen	Poletimber Well	2.3	60	51-80	N/A	No access. Isolated by wetlands and private land.																																										
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Tag Alder	Low	5 - 10 feet	Tall Shrub																																														
<b>48</b>	6223 - Inundated Shrub Swamp	Nonstocked	0.6	0	Unspecified	No	Low seep that creates historic mud hole in road, spot for culvert.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>49</b>	4130 - Aspen	Sawtimber Well	31.3	70	Unspecified	N/A	Portions of stand are low and wet. No access. Stand is an island in middle of tag alder swamp.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Log	12		Red Maple	Medium	Variable	Sapling
Quaking Aspen		75	Log/Pole	10	70	Tag Alder	Medium	5 - 10 feet	Tall Shrub
<b>50</b>	6121 - Tamarack	Poletimber Well	13.3	60	51-80	N/A	Tamarack stand with heavy spruce understory. Wet hummocky ground. No access.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		100	Pole/Log	9	60	Black Spruce	High	5 - 10 feet	Sapling
<b>51</b>	6225 - Bog	Nonstocked	7.4		Unspecified	No	Wet treed bog no access.		
<b>52</b>	500 - Water	Nonstocked	10.1		Unspecified	No	Haymarsh creek. Traveled by canoes, too small for most boats.		
<b>53</b>	4130 - Aspen	Sawtimber Well	5.2	90	51-80	N/A	Mix of saw log aspen, red pine and red maple. No access. Portions of stand are wet hummocky ground.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		25	Log	12		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen		65	Log/Pole	12	90	Tag Alder	Low	Variable	Tall Shrub
Red Pine		10	Log/Pole	12					
<b>54</b>	4130 - Aspen	Poletimber Well	14.9	33	Immature	N/A	Stand was final harvested in 1986. A few edge trees appear to have been left along north line.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		84	Pole	6	33	Red Maple	Medium	5 - 10 feet	Sapling
						Tag Alder	Low	5 - 10 feet	Tall Shrub
						Balsam Fir	Low	< 5 feet	Sapling
<b>55</b>	4130 - Aspen	Poletimber Well	2.7	33	Immature	N/A	Stand final harvested in 1986. West side of road was left.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Bigtooth Aspen		83	Pole/Sapling	5	33				
<b>56</b>	4130 - Aspen	Sapling Well	11.6	6	Immature	N/A	Stand was final harvested in Winter 2013. Access across county road easement. Short wood operation, hummocky ground.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		10	Sapling	1	6				
Quaking Aspen		86	Sapling	1	6				
<b>57</b>	4130 - Aspen	Sapling Medium	7.0	5	Immature	N/A	Stand was final harvested in fall 2015. Low hummocky ground. tag alder understory. Short wood operation.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		20	Sapling	1		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		70	Sapling	1	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>58</b>	42220 - Natural Jack Pine	Poletimber Well	1.0	39	81-110	N/A	Small island of jack pine and spruce almost too small to map.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Pole	6	
Jack Pine	78	Pole	6	39

<b>59</b>	6112 - Lowland Aspen	Poletimber Well	24.0	46	1-50	N/A	Mostly lowland stand, small upland portion in east edge. West portion of stand under water at times.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	55	Pole/Log	9	46
Black Ash	10	Pole	6	
Red Maple	15	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	5 - 10 feet	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub
Red Maple	Medium	Variable	Sapling
Balsam Fir	Low	< 5 feet	Sapling
White Pine	Low	Variable	Sapling