



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63081

Entry Year 2026

Acreage: 2,048

County Missaukee

Management Area: High Sand Plains

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**Stand Examiner:** Andrew Krugh

## Legal Description:

T24N R5W, Sections 19,20,21,28

## Identified Planning Goals:

Vegetation management in the Houghton Lake Wetlands Management Area (MA) 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:

Mainly Lupton-Roscommon-Tawas association. Mostly level terrain poorly drained mucky soils. Sandy soils in the upland depressions on outwash plains, till plains and moraines.

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

Solid state ownership, with the exception of a 40 acre parcel, NWSE of sec 20, listed for acquisition. Hunting and trapping are the main recreational use, there are no trails. The Deadstream creek runs east/west through compartment. Land use around the compartment are Christmas tree plantations and seasonal hunting residences. The two 40 acre parcels in the NE1/4 of section 19 have limited access through private property. These parcels should be available for disposal if a trade for something of greater value is available.

## Unique Natural Features:

Potential for massasauga, along Deadstream. Potential for great blue heron rookery, eagle, osprey, blanding's turtle, wood turtle, eastern box turtle, spotted turtle and loon.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## Special Management Designations or Considerations:

Maintain integrity of deadstream watershed. Continue to create a variety of cover types and age classes.

## Watershed and Fisheries Considerations:

Fisheries Division's Muskegon River Watershed Assessment and Plan recommends protection/restoration of natural vegetation along all waterbodies in the watershed. A 300' buffer is recommended as the Deadstream is a designated trout stream, within the Muskegon River Watershed. (Richard O'Neal )

## Wildlife Habitat Considerations:

This compartment encompasses a large part of the Deadstream Swamp. This swamp complex and associated uplands are key black bear habitat and part of a large deer wintering complex. Greater emphasis should be placed on promoting larger stands of older age and mixed age classes to provide diversity in vertical and horizontal structure in this compartment. Generally, wildlife goals are to maintain lowland conifer and to promote oak and aspen adjacent to lowlands. Creation of brush piles near lowlands, protection of mast bearing shrubs and provision of coarse woody debris are also desired. Featured species of special interest are black bear, deer, snowshoe hare, woodcock, and golden-winged warbler. (E. Victory 7/18/14)

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and glacial outwash sand and 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 Formation is quarried for gypsum in other areas of the State. Gravel pits are located two miles to the southwest, but gravel potential appears to be limited. East Norwich Field is located to the north of this compartment. The field has produced over 15.9 million BO and 15.7 Bcf gas from the Devonian Richfield Formation. It is in secondary recovery operations currently. There is one State parcel currently leased and held by production in the Compartment.

**Vehicle Access:**

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

**Survey Needs:**

None needed at this time.

**Recreational Facilities and Opportunities:**

There are no developed recreational facilities within this compartment. There are numerous opportunities for hunting and trapping. (T.M.N. 3/14)

**Fire Protection:**

Access to this compartment is very limited for suppression equipment. Past fires have been very limited. BET5-14

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

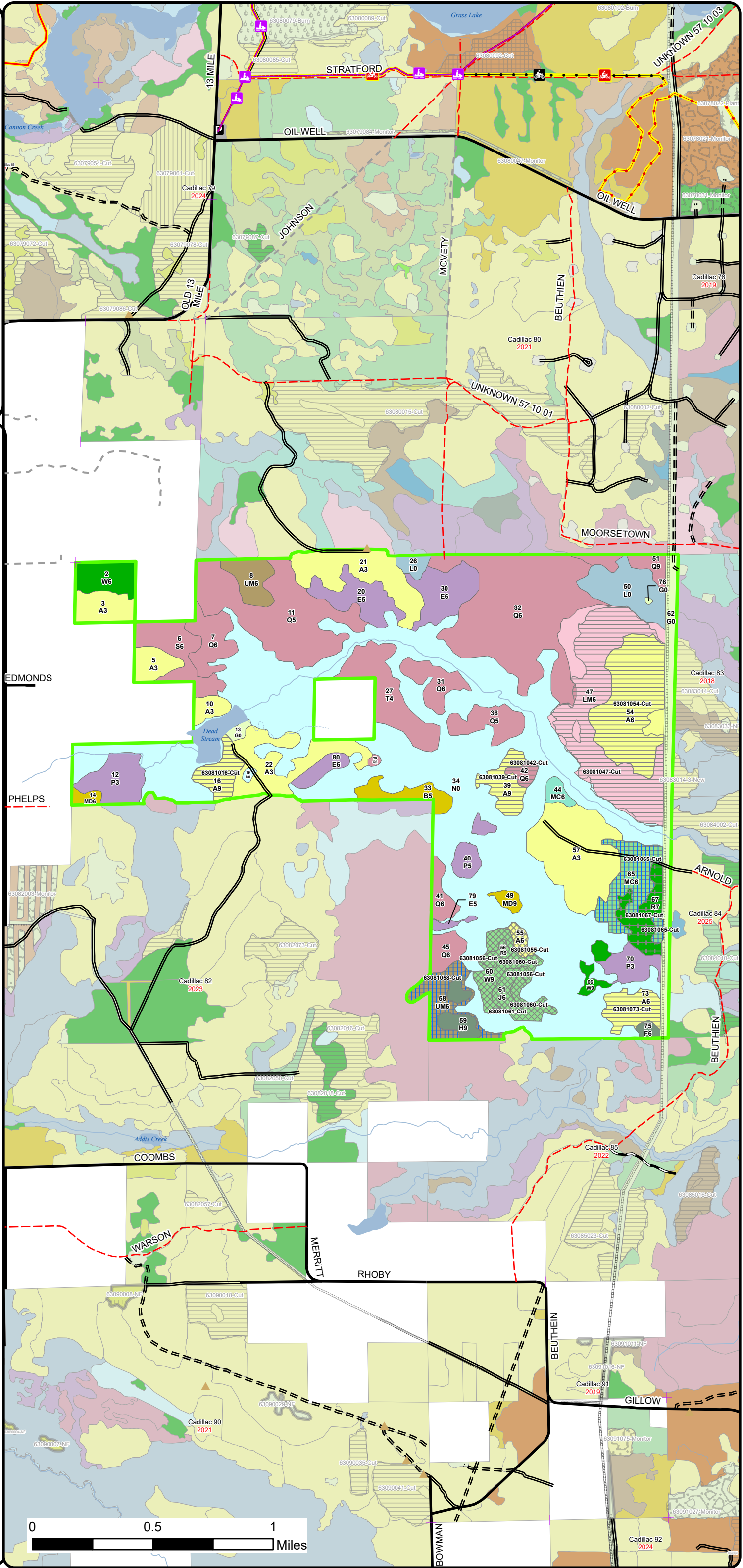
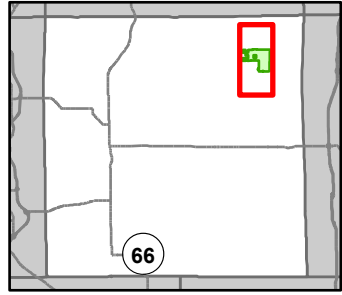
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

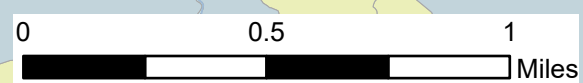
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 63081  
 T24N, R5W, Sec: 19-21, 28  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt Area: High Sand Plains  
 YOE: 2026  
 Acres: 2048 GIS Calculated  
 Examiner: Andrew Krugh  
 Map Revised: 7/18/2024  
 Map Phase: Web Post

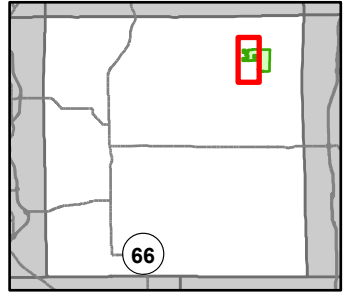


- Motorcycle Trails (SOS License)
- MCCCT Trails
- Snowmobile Trails
- ORV License
- ORV License & Trail Permit
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Remonumented Section Corners
- Berms
- Parking Lot
- Sign
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Pipeline
- Counties
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Clearcut (w/Reserves)
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 310 - Herbaceous Openland
- 622 - Lowland Shrub
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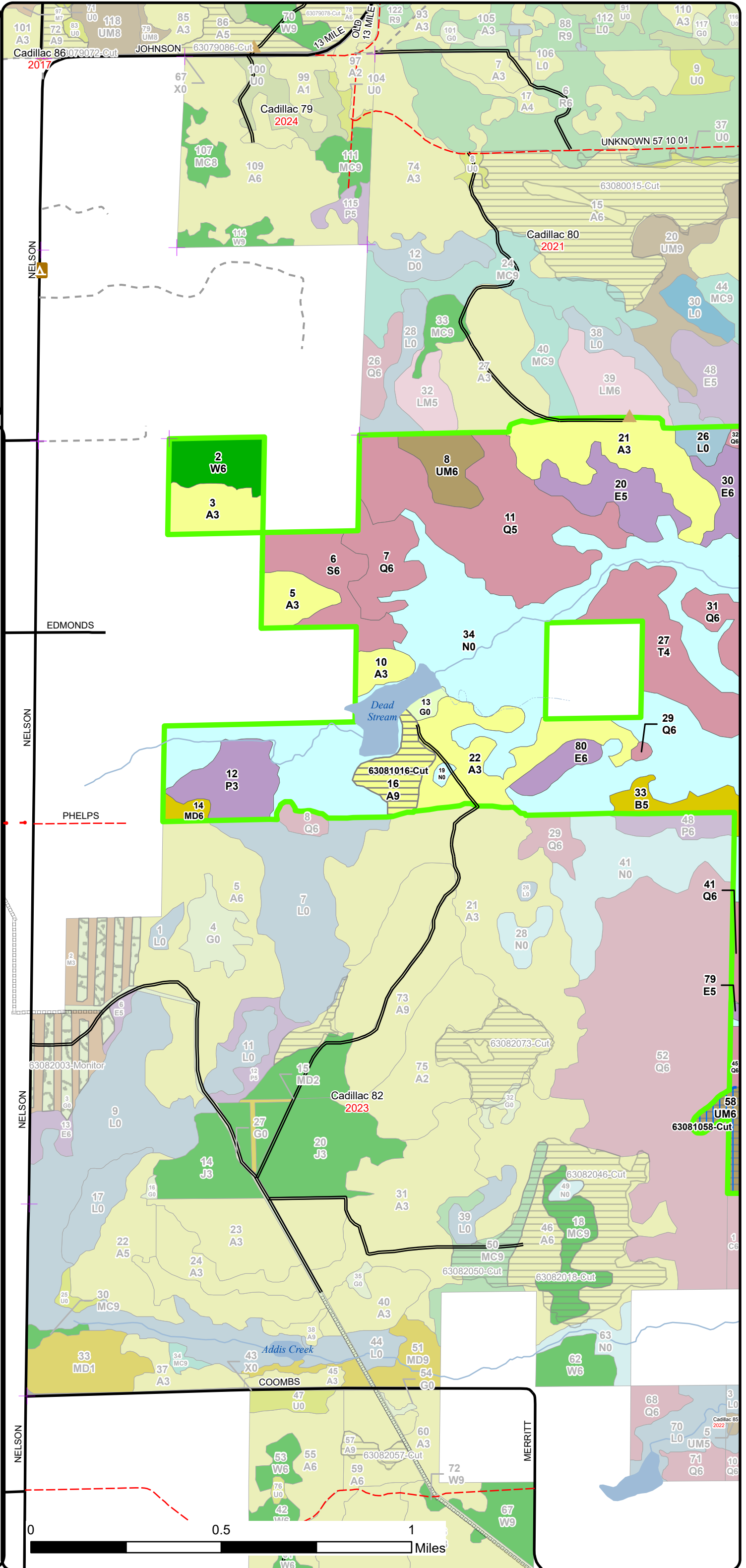


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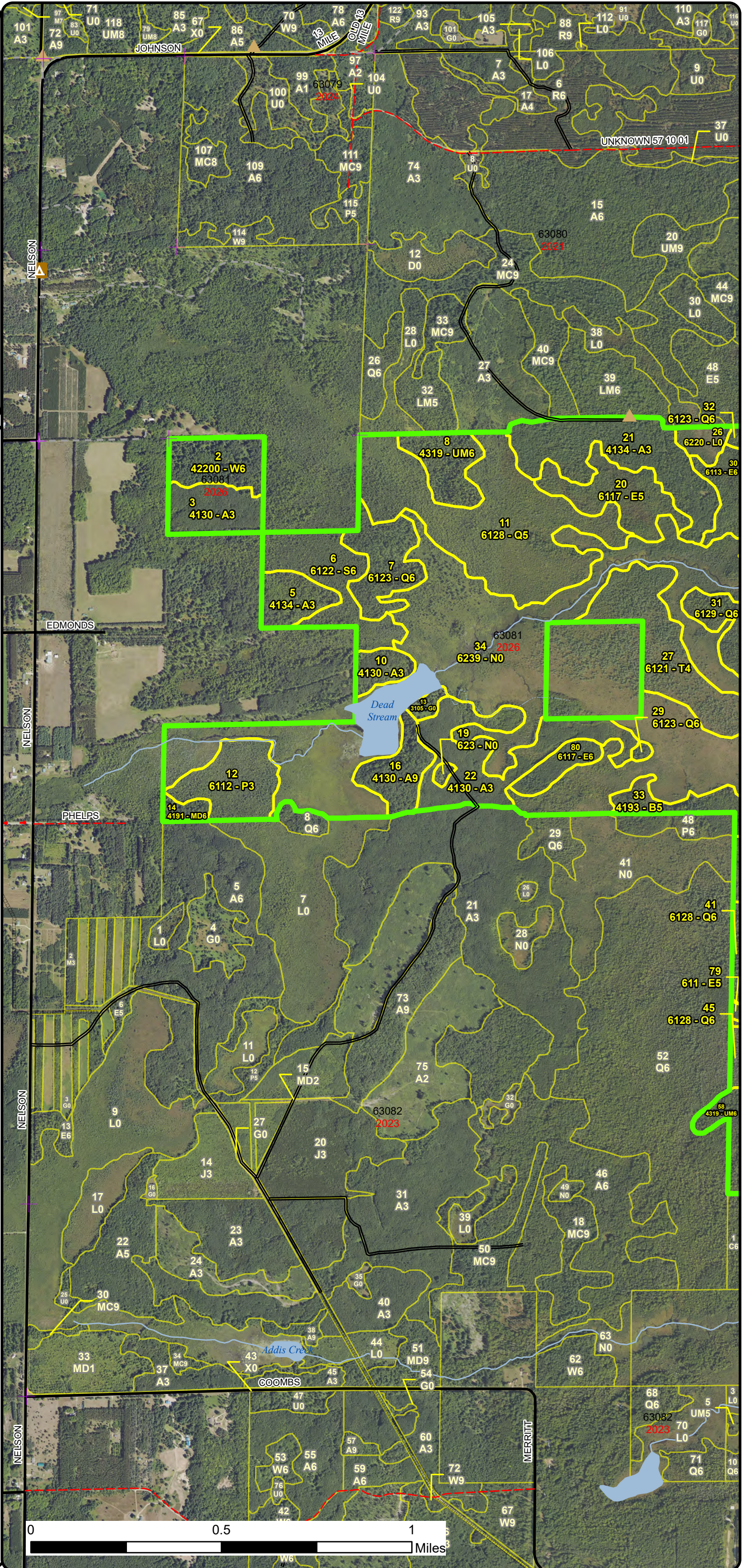
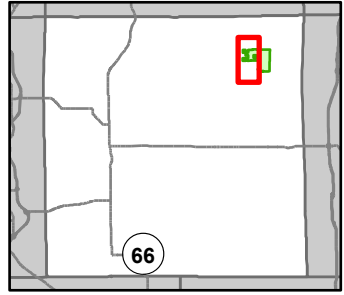


- + Remonumented Section Corners
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- ▲ Campground
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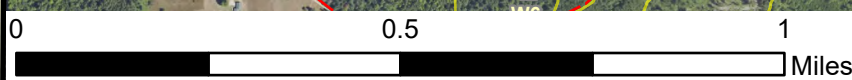


# Stand Boundary Map

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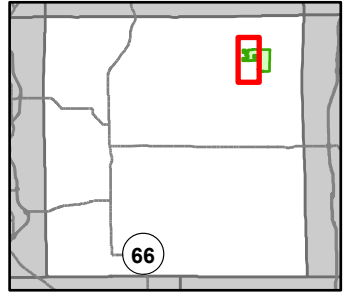


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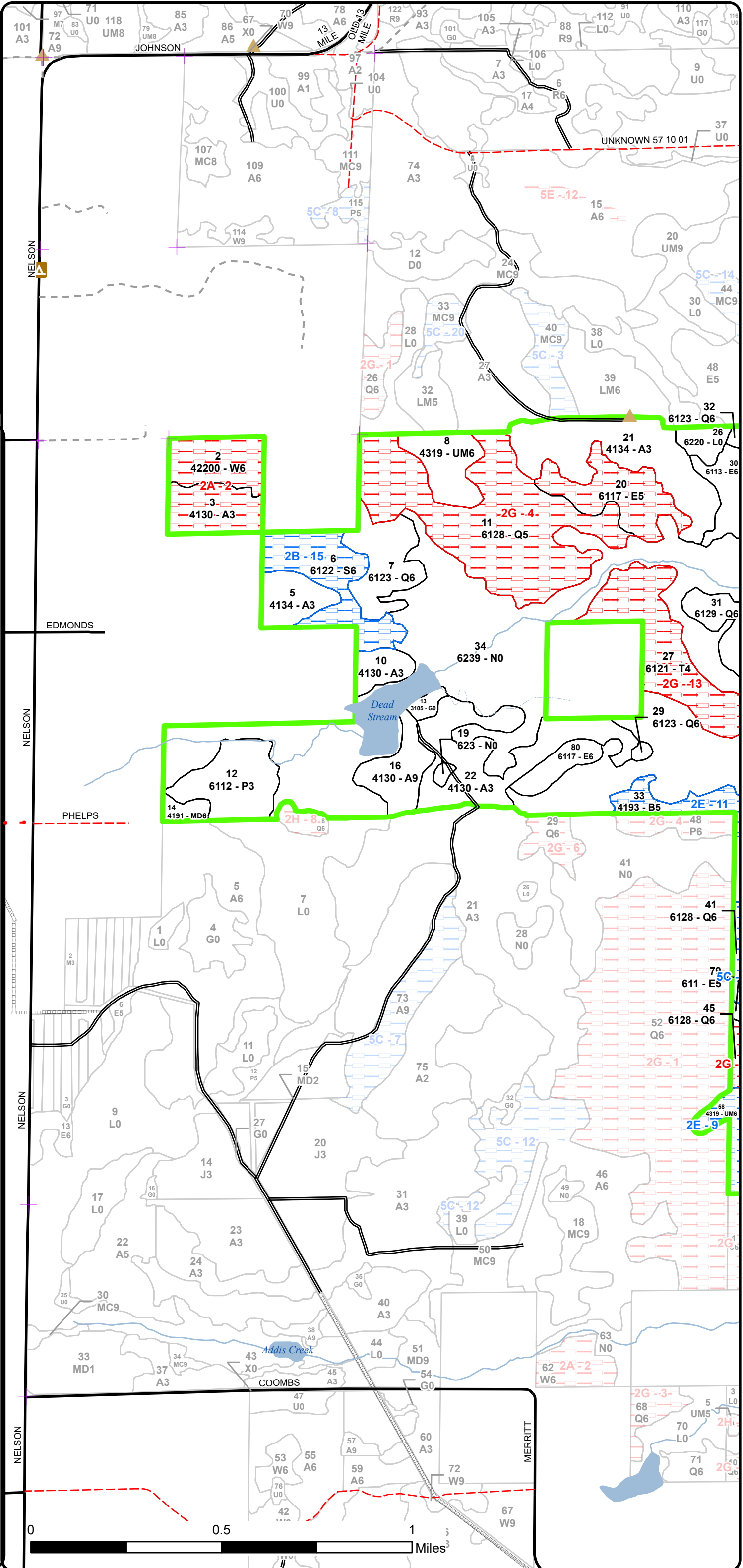


# Special Conservation Areas & Site Conditions Map

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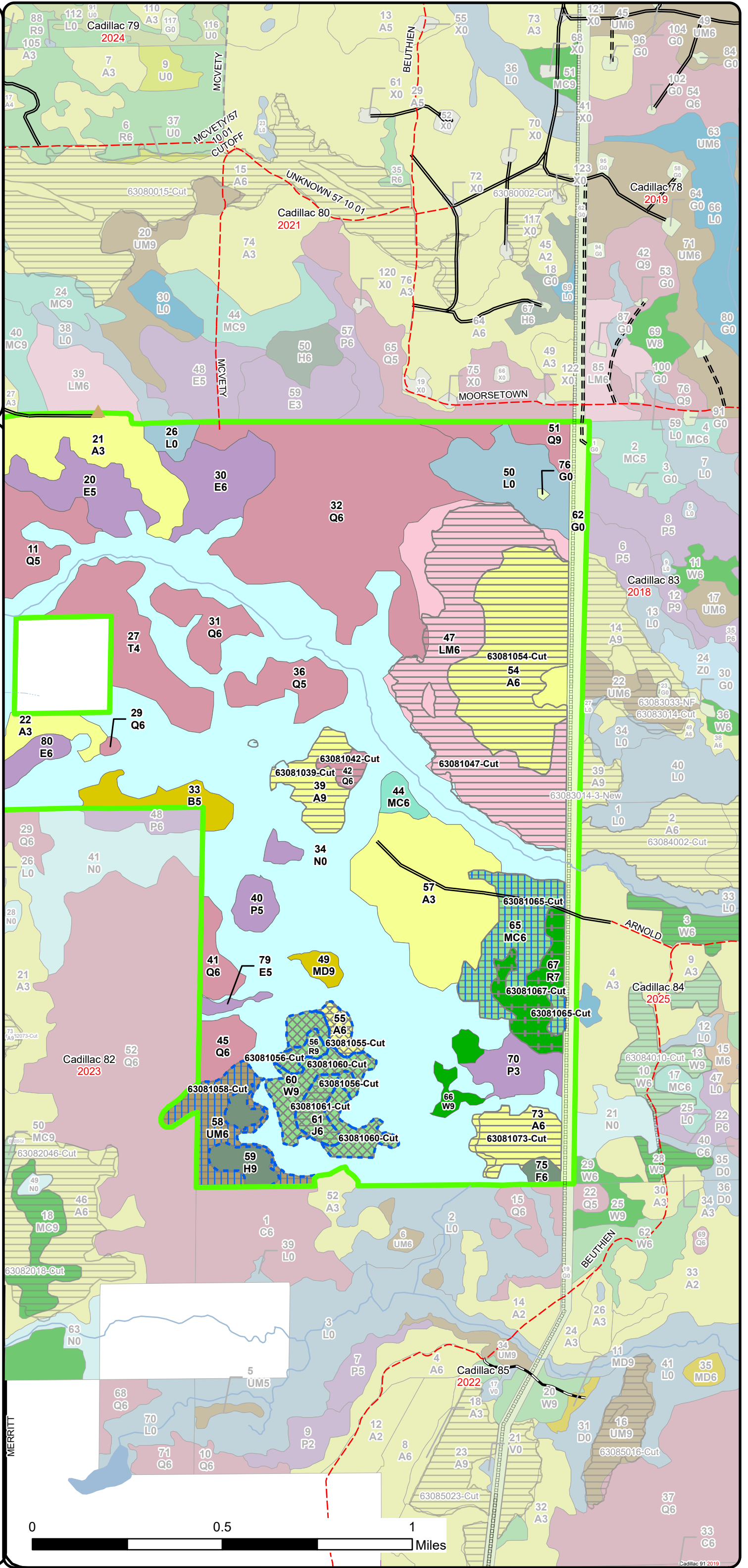
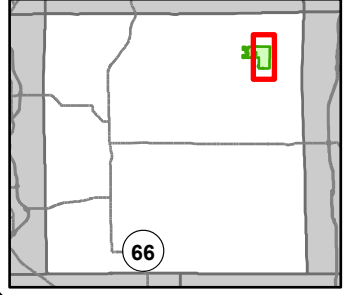


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- Compartment Boundary
- Cold Water Streams
- Cold Water Lakes

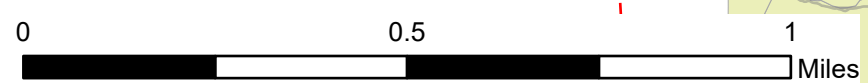


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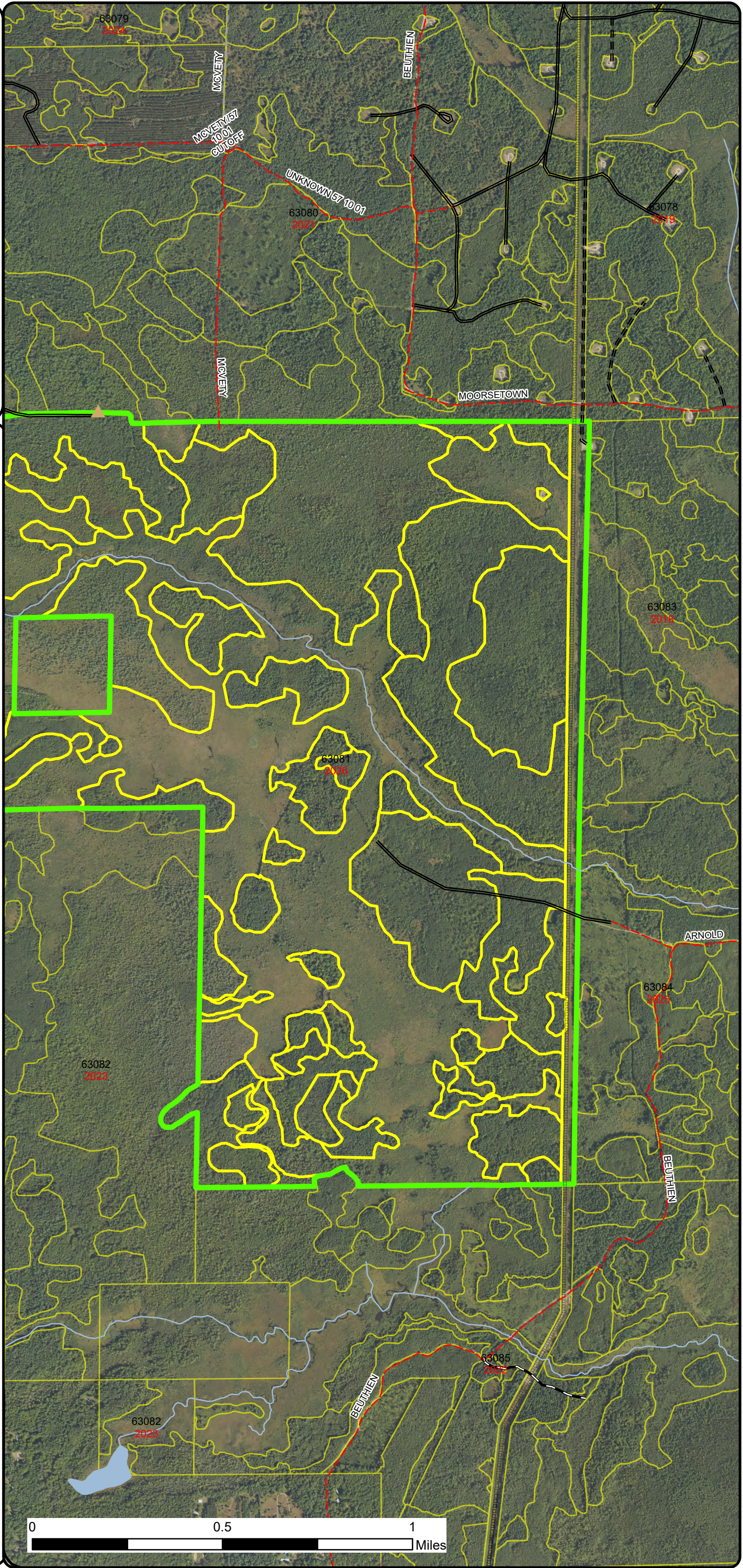
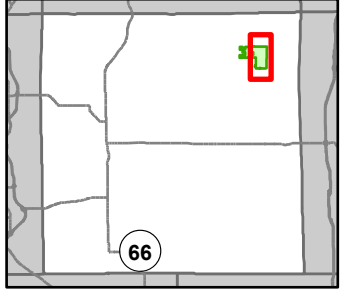


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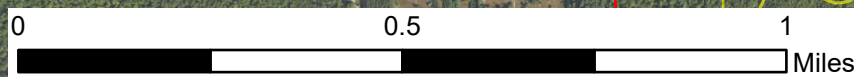


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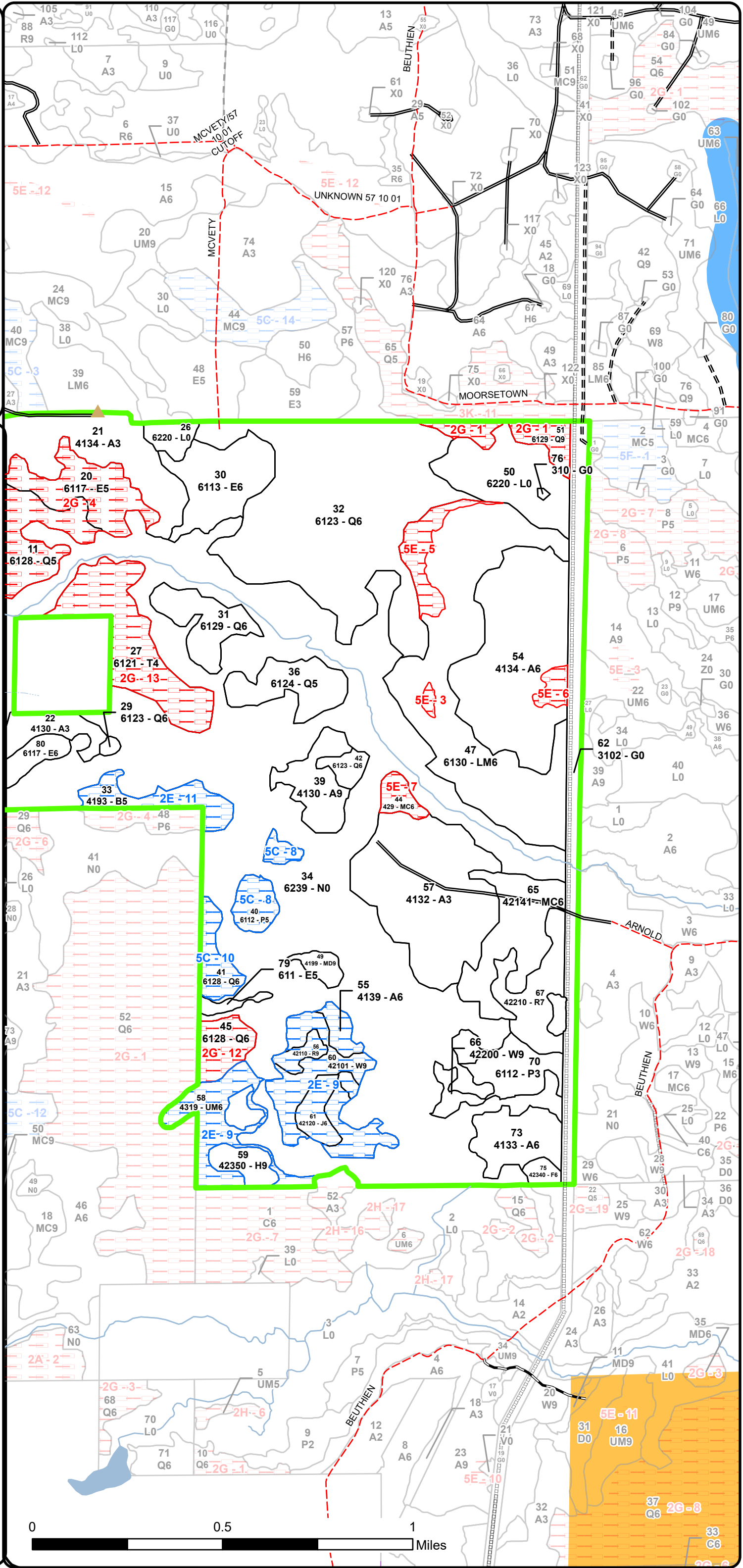
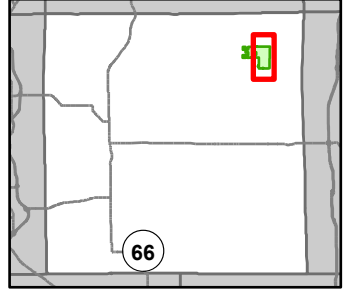
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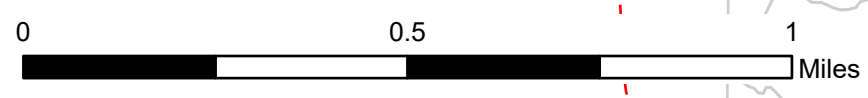


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2E: Road needed
- 5C: Delay treatment for age/size class diversity or exceptional site
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Available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





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+	Unseen-Aged	Total
Aspen	0	0	147	70	0	0	23	125	0	0	0	0	0	0	0	0	0	0	365
Hemlock	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Herbaceous Openland	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Jack Pine	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	0	17	0	0	27	0	13	0	0	0	0	0	0	0	0	0	0	57
Lowland Conifers	0	0	0	0	0	0	22	159	44	14	0	0	121	0	0	0	0	0	360
Lowland Deciduous	0	0	0	0	0	10	27	3	31	0	0	0	0	0	0	0	0	0	71
Lowland Mixed Forest	0	0	0	0	0	0	0	123	0	0	0	0	0	0	0	0	0	0	123
Lowland Shrub	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	32
Marsh	677	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	677
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Paper Birch	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Planted Mixed Pines	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	37
Red Pine	0	0	0	0	0	0	0	6	26	0	0	0	0	0	0	0	0	0	32
Tamarack	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	44
Upland Conifers	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	18	0	0	26	0	0	0	0	0	0	0	0	0	0	0	44
Upland Spruce/Fir	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	51	5	0	0	0	0	0	0	0	0	0	56
<b>Total</b>	<b>773</b>	<b>0</b>	<b>164</b>	<b>88</b>	<b>0</b>	<b>37</b>	<b>98</b>	<b>536</b>	<b>116</b>	<b>74</b>	<b>13</b>	<b>0</b>	<b>153</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2052</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Compartment 81

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 2,048

Commercial Harvest - 308  
 Harvests with Site Condition - 76  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	137	6	0	0	0	0	0	0	0	143
Jack Pine	0	9	0	0	0	0	0	0	0	9
Lowland Conifers	5	0	0	0	0	0	0	0	0	5
Lowland Mixed Forest	106	0	0	0	0	0	0	0	0	106
Planted Mixed Pines	0	0	0	37	0	0	0	0	0	37
Red Pine	0	6	0	0	0	23	0	0	0	29
Upland Mixed Forest	0	0	0	26	0	0	0	0	0	26
White Pine	0	30	0	0	0	0	0	0	0	30
<b>Total</b>	<b>248</b>	<b>51</b>	<b>0</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>385</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	385	0	0	0	0	0	0	0	0	385
Next Step	0	0	0	0	0	362	0	0	0	362
<b>Total</b>	<b>385</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>362</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>747</b>



Standard

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:**

<b>39</b>	<b>63081039-Cut</b>	19.0	4130 - Aspen	Sawtimber Well	67	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest all species 2 inches and greater. Leave 3-10 percent retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked aspen, maple, spruce, pine, and fir.

Regen:

Other One retention pocket on this "island". Locate a suitable location that uses part of stand 39 and 42.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>42</b>	<b>63081042-Cut</b>	5.2	6123 - Lowland Fir	Poletimber Well	64	111-140	Harvest	Clearcut	6130 - Fir, Aspen, Maple	Even-Aged	No
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Prescription Final harvest cut all species 2 inches and greater.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked aspen, spruce, maple, and fir.

Regen:

Other One retention pocket on this "island". Locate a suitable location that uses part of stand 39 and 42.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>55</b>	<b>63081055-Cut</b>	5.5	4139 - Aspen, Mixed Deciduous	Poletimber Well	59	51-80	Harvest	Group Selection	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Thin stand to 70 BA favoring quality and dominate trees. Create one 150ft gap per 2 acres.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable fully stocked aspen, maple, pine, spruce, and fir.

Regen:

Other Need Site condition forester input.

Comment:

Site Condition Road Needed

Proposed Start Date: 10/1 /2025

<b>56</b>	<b>63081056-Cut</b>	6.2	42110 - Planted Red Pine	Sawtimber Well	65	111-140	Harvest	Group Selection	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Thin stand to 70 BA favoring quality and dominate trees. Create one 150ft gap per 2 acres.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of pines, fir, hardwoods

Regen:

Other This will need about 2 miles of road improvement. Need site condition forester input.

Comment:

Site Condition Road Needed

Proposed Start Date: 10/1 /2025



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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
<b>58 63081058-Cut</b>	25.8	4319 - Mixed Upland Forest	Poletimber Well	57	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest cut all species down to two inch DBH, except leave all red pine, white pine, cedar, and hemlock. In addition leave 3 to 10 percent retention.</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> Moderate to fully stocked maple, pine, aspen, spruce and fur.</p> <p><u>Regen:</u></p> <p><u>Other</u> Try to save the excluded species as much as possible. The access road will need some of those species cut. Any trees cut for the access road should be used for corduroy on the road.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Road Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>60 63081060-Cut</b>	30.2	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	64	81-110	Harvest	Group Selection	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Thin stand to 70 BA favoring quality and dominate trees. Create one 150ft gap per 2 acres.</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> A mix of pines, fir and hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> This will need about 2 miles of road improvement. Need site condition forester input.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Road Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>61 63081061-Cut</b>	8.6	42120 - Planted Jack Pine	Poletimber Well	64	111-140	Harvest	Group Selection	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Thin stand to 70 BA favoring quality and dominate trees. Create one 150ft gap per 2 acres.</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> A mix of pines, fir, and hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> This will need about 2 miles of road improvement. Need site condition forester input.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Road Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2025</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
65 63081065-Cut	37.3	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	65	111- 140	Harvest	Seed Tree with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<u>Prescription</u> Cut all species 2 inches and greater leaving 3 to 10 percent retention. In addition leave 3-5 white pine or red pine per acre where present. <u>Specs:</u> Acreage may change depending on ground conditions when preped.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u>  <u>Acceptable Regen:</u> Moderate to fully stocked white pine, red pine, maple, aspen, spruce, and fir.  <u>Other Comment:</u>  <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025										
67 63081067-Cut	22.9	42210 - Natural Red Pine	Sawtimber Poor	77	1-50	Harvest	Overstory Removal	4133 - Aspen, Mixed Pine	Even-Aged	No
<u>Prescription</u> Cut all red pine over 8 inches. <u>Specs:</u>  <u>Next Step</u> <u>Treatments:</u>  <u>Acceptable Regen:</u> Moderate to fully stocked aspen, maple, pine, spruce, and fir.  <u>Other Comment:</u>  <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025										
73 63081073-Cut	20.8	4133 - Aspen, Mixed Pine	Poletimber Well	63	111- 140	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<u>Prescription</u> Final harvest, leave 1-3 white pine per acre where present. In addition leave 3-10 percent retention. <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u>  <u>Acceptable Regen:</u> Moderate to fully stocked aspen, maple, spruce, pine, fir.  <u>Other Comment:</u> treatment on ground may vary in size due to ground conditions when setting up.  <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025										

**Approved Treatments:**

16 63081016-Cut	17.2	4130 - Aspen	Sawtimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest stand. Leave a buffer along lowland complex to the west. <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, maple  <u>Other Comment:</u>  <u>Site Condition</u>										



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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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Proposed Start Date: 10/1 /2025

47	63081047-Cut	105.7	6130 - Fir, Aspen, Maple	Poletimber Well	61	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Final harvest to regenerate lowland conifer component of stand.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable balsam fir, spruce, cedar, white pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 5 /2 /2022

54	63081054-Cut	80.3	4134 - Aspen, Spruce/Fir	Poletimber Well	66	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest aspen and maple and thin conifer component of white pine and balsam fir.to residual ba of 10-20

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable aspen, balsam fir, white pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 5 /2 /2022

**Total Treatment Acreage Proposed: 384.7**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Andrew Krugh : Examiner

Compartment: 81  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2B	2E	5C	2A	2G	5E
364	334	5	24	Aspen		5		20		5
13	13	0	0	Hemlock						
53	53	0	0	Herbaceous Openland						0
9	0	9	0	Jack Pine		9				
56	43	13	0	Lowland Aspen/Balsam Poplar			13			
359	225	11	123	Lowland Conifers			11		123	
71	44	0	27	Lowland Deciduous					27	
123	109	0	14	Lowland Mixed Forest						14
43	43	0	0	Lowland Shrub						
32	0	32	0	Lowland Spruce/Fir	32					
677	677	0	0	Marsh					0	
9	9	0	0	Mixed Upland Deciduous						
16	0	16	0	Paper Birch		16				
37	37	0	0	Planted Mixed Pines						
32	26	6	0	Red Pine		6				
43	0	0	43	Tamarack					43	
6	0	0	6	Upland Conifers						6
44	18	26	0	Upland Mixed Forest		26				
4	4	0	0	Upland Spruce/Fir						
56	5	30	21	White Pine		30		21		
2,048	1,642	148	258	Total Forested Acres	32	92	24	40	194	25
	80%	7%	13%	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)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Andrew Krugh : Examiner

Compartment: 81  
Year of Entry: 2026

2	<b>Unavailable</b>	2A: Adjacent landowner denied access	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	124	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LTR for stand 47							
6	<b>Unavailable</b>	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Andrew Krugh : Examiner

Compartment: 81  
Year of Entry: 2026

9	<b>Available</b>	<b>2E: Road needed</b>	76	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>2E: Road needed</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	32	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
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Comments



### Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water 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																																													
2	42200 - Natural White Pine	Poletimber Well	20.5	64	111-140	N/A																																														
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Bigtooth Aspen	15	Pole	5																																																	
3	4130 - Aspen	Sapling Well	19.7	25		N/A	Stand was cut with sale #63-102-96-01. Regeneration was spotty in some places. Scattered small (<.5ac) open areas.																																													
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5	4134 - Aspen, Spruce/Fir	Sapling Well	14.2	18		N/A	Stand was cut last entry. Access was through private as stand borders private to the west and the other three sides are surrounded by lowland complex. (JM 2014)																																													
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Red Maple	15	Sapling	2																																																	
6	6122 - Black Spruce	Poletimber Well	31.8	115	81-110	N/A																																														
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Red Maple	25	Pole/Log	8																																																	
Paper Birch	5	Pole	6																																																	
7	6123 - Lowland Fir	Poletimber Well	24.3	77		N/A	Stand is a lowland conifer with a small island of upland maple along the eastern edge.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>25</td> <td>Pole</td> <td>6</td> <td></td> <td>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>75</td> <td>Pole</td> <td>7</td> <td>77</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	25	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling	Balsam Fir	75	Pole	7	77																						
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8	4319 - Mixed Upland Forest	Poletimber Well	18.2	25	111-140	N/A	Sale was closed out in 2000 Dead Stream North 63-055-96.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
10	4130 - Aspen	Sapling Well	8.8	17		N/A	Stand was cut with sale #63-064-06-02. Regenerating well to aspen with a scattered maple component. (J.M. 2014)																																					
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Red Maple	10	Sapling	1																																									
Quaking Aspen	90	Sapling	1	17																																								
11	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	96.6	114		N/A	Some of the cedar is starting to die out due to high water table. Stand borders Dead Stream Creek to the south. All ash is dead/dying within stand. (J.M 2014)																																					
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12	6112 - Lowland Aspen	Sapling Well	26.8	45		N/A	pockets of cattails. very wet and borders Deadstream creek to the north,																																					
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13	3105 - Mixed Upland Herbaceous	Nonstocked	3.4			No																																						
14	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.5	78	51-80	N/A	mix of maple and spruce. no seed source for beech in understory. could be called retention for stand to the south in compartment 82 that was previously cut.(J.M. 2014)																																					
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16	4130 - Aspen	Sawtimber Well	17.2	54	81-110	N/A	aspen and maple with scattered spruce. bordering lowland complex to the north. few scattered paper birch throughout and a white pine along the northern edge. Stand is on the smaller size for area. There are not many mature stands in the immediate area, leave stand for diversity.																																					
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19	623 - Emergent Wetland	Nonstocked	1.5			No																																						



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20	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	27.4	52	51-80	N/A	This portion of the stand was too wet to be harvested with the timber sale to the north. (J.M 2014)																																	
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21	4134 - Aspen, Spruce/Fir	Sapling Well	49.8	25		N/A	recent cut. pockets of larger balsam fir with young aspen and maple. scattered oaks in the understory. (J.M. 2014) Sale was closed out in 2000 Dead Stream North 63-055-96.																																	
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22	4130 - Aspen	Sapling Well	46.6	17		N/A	aspen stand was cut last entry (J.M 2014)																																	
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26	6220 - Alder/willow	Nonstocked	6.6			No	beaver flooding																																	
27	6121 - Tamarack	Poletimber Poor	43.5	88		N/A	Stand is mostly tamarack and tag alder. Close to being a non forested stand based on canopy closure. (J. M 2014)																																	
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29	6123 - Lowland Fir	Poletimber Well	1.3	55	1-50	N/A	Small stand of balsam with a small amount of aspen and maple surrounded by a large wetland complex.(J.M. 2014)																																	
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30	6113 - Lowland Maple	Poletimber Well	31.0	74	51-80	N/A	Red maple and balsam with an understory of tag alder, alder is heavy in some areas. Beaver dam along north-western edge of stand. (J.M 2014)																																	
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31	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	19.5	70		N/A	Stand appears to be an upland pocket along the edge of the Dead Stream creek. A mix of Jack pine, balsam, black spruce, and white pines. (J.M. 2014)																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
32	6123 - Lowland Fir	Poletimber Well	153.7	64	81-110	N/A	Stand borders Dead Stream Creek to the south. Pockets of balsam fir along small rises with tag alder in between small rises. (JM 2014)																																														
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33	4193 - Birch, Aspen	Poletimber Medium	16.0	88		N/A	Aspen was cut during previous habitat cut. Now birch with scattered balsam. (J.M. 2014)																																														
34	6239 - Mixed Emergent Wetland	Nonstocked	675.5			No	Multipule old beaver dams and floodings of minimal drainage. Large areas of tag alder and cattails. There may be phragmites in this stand. If found, will need to do a variance to treat with herbicides.																																														
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36	6124 - Lowland Spruce-Fir	Poletimber Medium	21.1	58	1-50	N/A	Wet stand is a mix of balsam fir and paper birch with black spruce and a few scattered cedars. Borders Dead Stream Creek along nothern edge of the stand. (J.M. 2014)																																														
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41	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.2	119		N/A	Stand is a small portion of the larger stand to the west in compartment 82. (J.M. 2014)																																														
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42	6123 - Lowland Fir	Poletimber Well	5.2	64	111-140	N/A	stand is mostly a mix of balsam fir and white pine with aspen and red maple as codomonites and understory. scattered paper birch																																										
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44	429 - Mixed Upland Conifers	Poletimber Well	5.9	67	81-110	N/A	Stand can serve as retention for the larger harvest to the south that occurred during the previous entry. Stand borders Deadstream Creek to the north.																																										
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45	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	12.5	119	51-80	N/A	Age based off of cedar in the adjacent compartment. This stand is a small portion of a larger stand to the west. (J.M. 2014)																																										
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47	6130 - Fir, Aspen, Maple	Poletimber Well	122.8	61	51-80	N/A	Stand is a transition area from the upland aspen stand to the east and the lowland complexes to the west and south. (J.M. 2014) Stand is currently under contract Deadstream Crossing Mix 63-002-22																																										
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49	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.0	77	51-80	N/A	small island of maple with scattered aspen throughout. balsam fir understory is older than few scattered oaks and beech. no seed source for oak and beech in the stand.																																										
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50	6220 - Alder/willow	Nonstocked	36.2			No	Stand contains an oil well pad. This well is located the furthest south of any well west of the pipeline in this field. Well pad is the only high ground within this stand.																																						
51	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	13.7	88	51-80	N/A	Small portion of larger stand to the north in compartment 80. Low quality lowland conifer that is seasonally wet.																																						
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54	4134 - Aspen, Spruce/Fir	Poletimber Well	84.8	66	51-80	N/A	Stand is currently under contract Deadstream Crossing Mix 63-002-22																																						
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55	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.5	59	51-80	N/A	New stand added. aspen and maple stand with scattered balsam fir understory.																																						
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56	42110 - Planted Red Pine	Sawtimber Well	6.2	65	111-140	N/A	New stand added. appears to have been planted red pine with scattered aspen through stand.																																						
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57	4132 - Aspen, Jack Pine	Sapling Well	77.7	17	Immature	N/A	Stand was cut with sale #63-030-06-01. Similar to stand 55 but with a higher amount of jack pine regeneration.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>58</b>	4319 - Mixed Upland Forest	Poletimber Well	25.8	57	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	9	
Bigtooth Aspen	35	Pole/Sap/Log	8	57
Balsam Fir	15	Pole/Sapling	7	
Northern White Cedar	30	Pole/Log	9	
Red Maple	15	Pole	9	

<b>59</b>	42350 - Upland Hemlock	Sawtimber Well	13.1	94	81-110	N/A	Stand of hemlock. growing well and healthy. scattered aspen throughout stand. Provides good winter cover for the deer.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole	6	
Hemlock	75	Log/Pole	11	94
Northern White Cedar	5	Pole/Log	9	
Paper Birch	5	Pole/Sapling	5	
Red Maple	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling

<b>60</b>	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	30.2	64	81-110	N/A	stand is mostly white pine poles.was planted. scattered aspen and paper birch through stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	9	
Quaking Aspen	10	Pole/Log	9	
White Pine	60	Log/Pole	10	64
Red Maple	10	Log/Pole	12	
Hemlock	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling

<b>61</b>	42120 - Planted Jack Pine	Poletimber Well	8.6	64	111-140	N/A	Planted Jack Pine with a scattering of aspen and red maple throughout
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	6	
Bigtooth Aspen	10	Pole	6	
Jack Pine	85	Pole	7	64

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	>20 feet	Sapling

<b>62</b>	3102 - Grass	Nonstocked	49.6			No	Pipeline ROW
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<b>65</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	37.3	65	111-140	N/A	planted white pine with aspen and maple. growing well consider treatment next entry
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log/Pole	10	
White Pine	55	Log/Pole	10	65
Bigtooth Aspen	30	Pole/Log	9	
Red Maple	10	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	>20 feet	Sapling
Quaking Aspen	High	>20 feet	Sapling
White Pine	Medium	>20 feet	Sapling
Red Maple	High	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
<b>66</b>	42200 - Natural White Pine	Sawtimber Well	5.0	79	81-110	N/A	Stand is a high point of land with white pine surrounded by lowland.																																							
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<b>67</b>	42210 - Natural Red Pine	Sawtimber Poor	26.3	77	1-50	N/A	Stand was cut with sale #63-030-06-01 overstory red pine with aspen and red maple understory.																																							
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<b>70</b>	6112 - Lowland Aspen	Sapling Well	16.6	17	Immature	N/A																																								
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<b>73</b>	4133 - Aspen, Mixed Pine	Poletimber Well	20.8	63	111-140	N/A																																								
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<b>75</b>	42340 - Upland Spruce/Fir	Poletimber Well	3.6	69	111-140	N/A	Stand of black spruce/balsam fir that is part of a larger stand to the south in compartment 85.																																							
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<b>76</b>	310 - Herbaceous Openland	Nonstocked	0.4				Stand contains an oil well pad. This well is located the furthest south of any well west of the pipeline in this field. Well pad is the only high ground within this stand.																																							
<b>79</b>	611 - Lowland Deciduous Forest	Poletimber Medium	3.0	65	81-110	N/A																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**80** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 9.8 42 81-110 N/A

Stand is a mix of various sized aspen clones, wet areas of tag alder and scattered balsam fir and black spruce. A few cedars are present along the northern edge of the stand. Stand is not ready to be harvested yet.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Pole	6	42
Balsam Fir	23	Pole/Sapling	5	
Black Spruce	15	Pole	7	
Northern White Cedar	2	Pole	7	
Red Maple	25	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	Medium	Variable	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub