



# Compartment Review Presentation

**Cadillac Forest Management Unit**

**Compartment 63080**

**Entry Year 2021**

**Acreage: 3,251**

**County Missaukee**

**Management Area: Upper Muskegon**

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**Revision Date:** 2019-06-11

**Stand Examiner:** Blair Tweedale

**Legal Description:**

T24N, R5W, SEC'S 4,5,9,16,17

**Identified Planning Goals:**

Vegetation management in the Upper Muskegon 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 period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

**Soil and topography:**

Mainly sands, rubicon and croswell in uplands with histisols in lowlands.

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

Oil and gas development. Sections are solid state ownership. Private land ownerships to east of compartment.

**Unique Natural Features:**

None Identified

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

Woodland Indian Mounds present

**Special Management Designations or Considerations:**

There is a RX burn unit within this compartment managed on a schedule set by the wildlife division.

**Watershed and Fisheries Considerations:**

**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. This compartment has two large opening complexes which are being managed in cooperation with the Fletcher area to the north.

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

The nearest active sand/gravel pit is located four miles to the northwest. Gravel potential appears to be limited within the compartment, but there may be some sand potential. A portion of the compartment is within the East Norwich Field and has oil wells on the surface, some plugged, some actively producing. This Richfield oil field is undergoing secondary recovery operations. Additional new wells in this formation are unlikely, but there may be potential for gas from the deeper St. Peter Sandstone. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

Access throughout.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

There is a Snowmobile and ORV trail head located in the compartment.

**Fire Protection:**

This compartment has numerous oil & gas wells. There are only small areas of pine type, with most of the fuels being grass, aspen & oak. Access for equipment would be fairly good, except on the south end of the compartment. Initial IA is from the Houghton Lake FO. IA response times could be a concern in this compartment.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

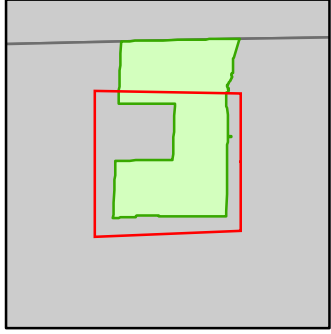
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

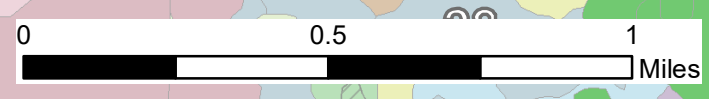
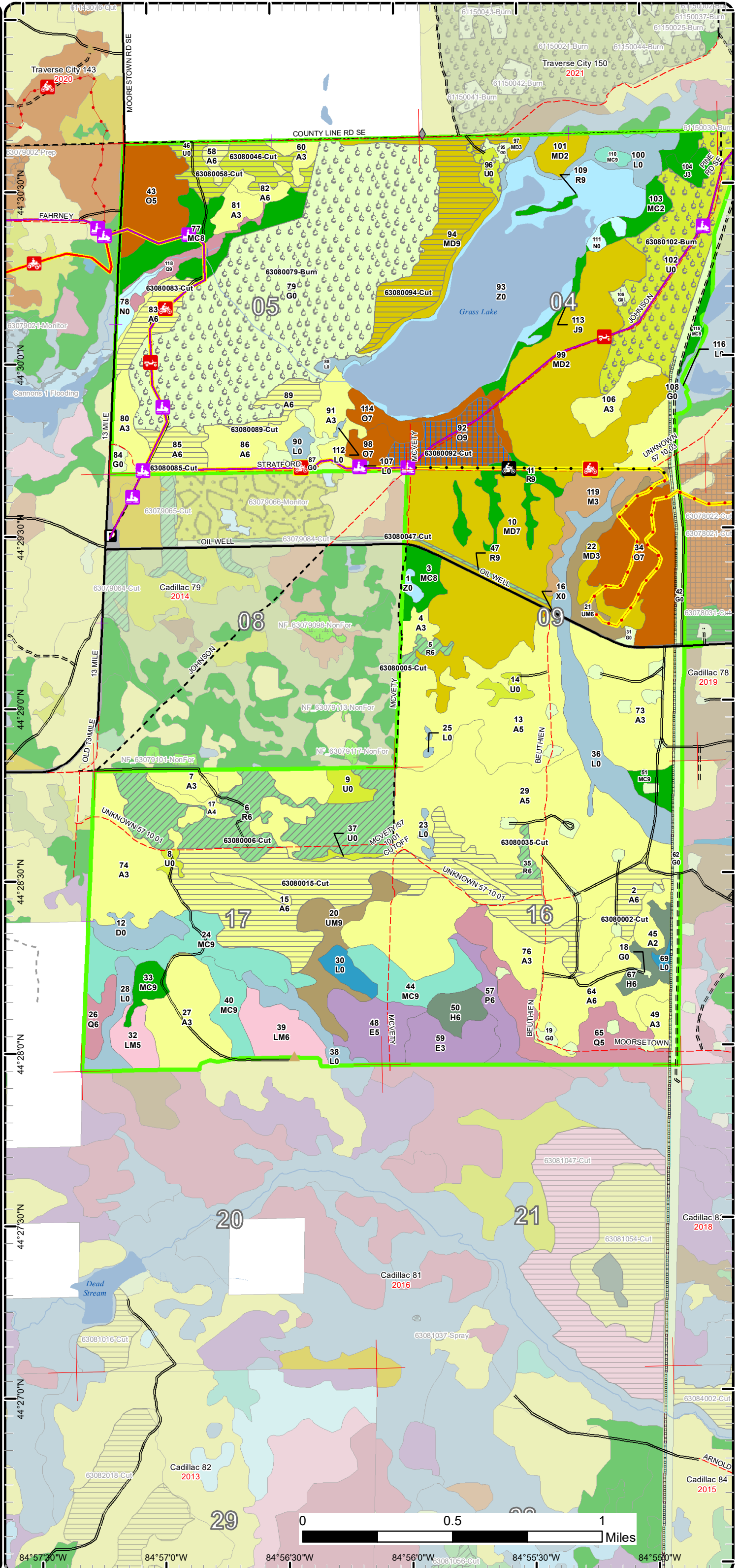
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 80  
 T24N-R05W Sec. 04,05,09,16,17  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt Area: Upper Muskegon  
 YOE: 2021  
 Acres: 3,251 GIS Calculated  
 Examiner: Blair Tweedale  
 Map Revised: 11/15/2019  
 Map Phase: Post-Review



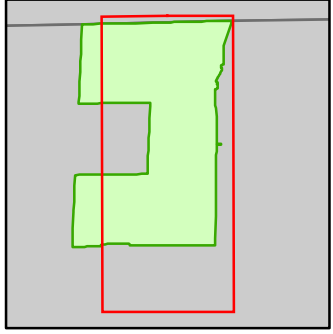
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- + Remonumented Section Corners
- Counties
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- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland



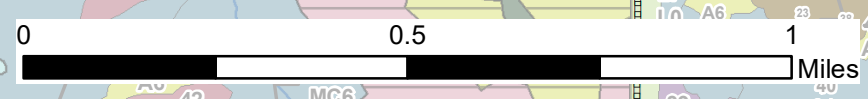
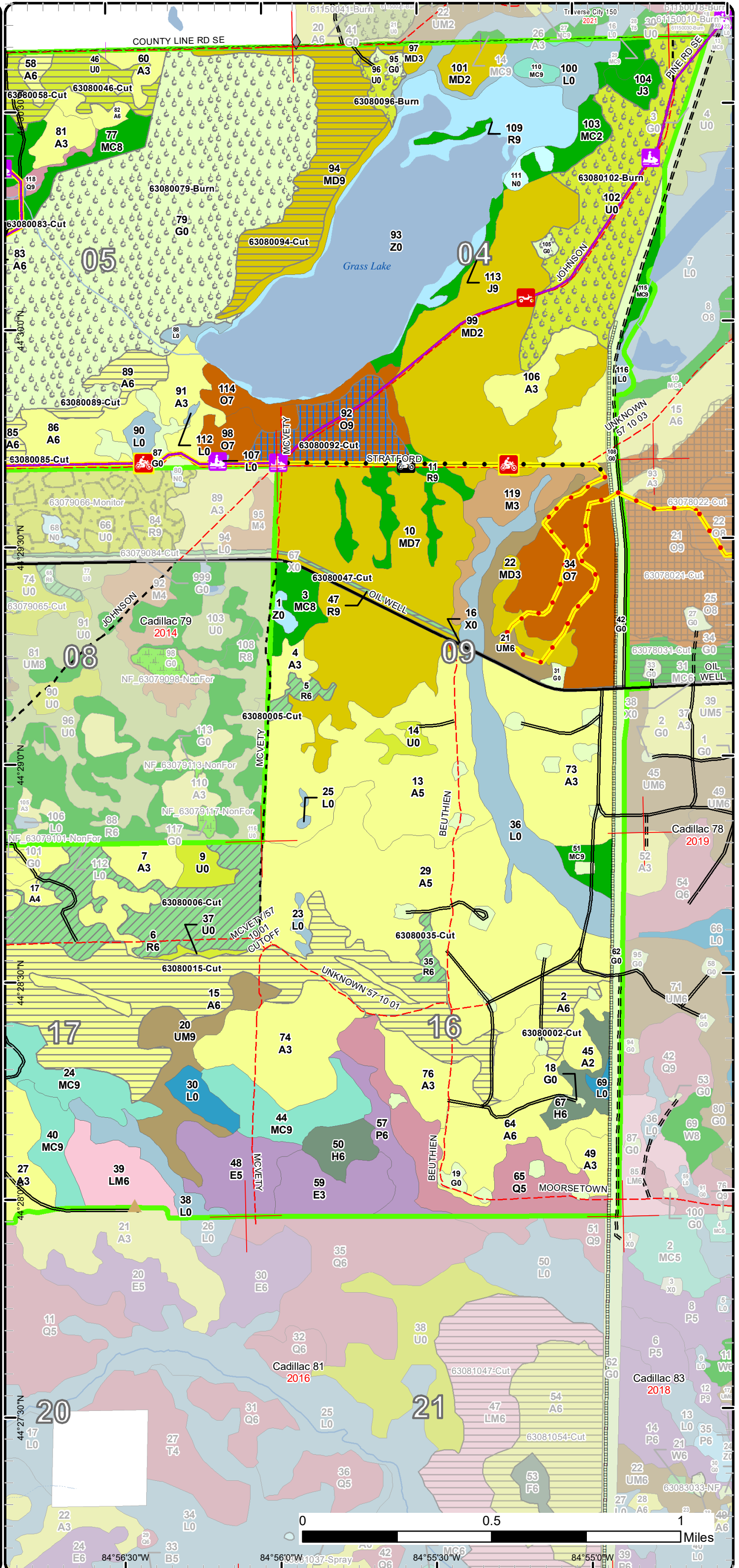
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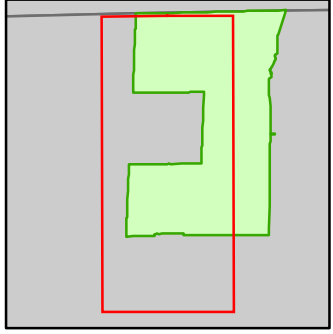
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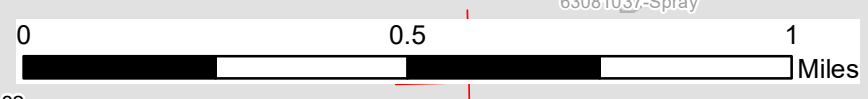
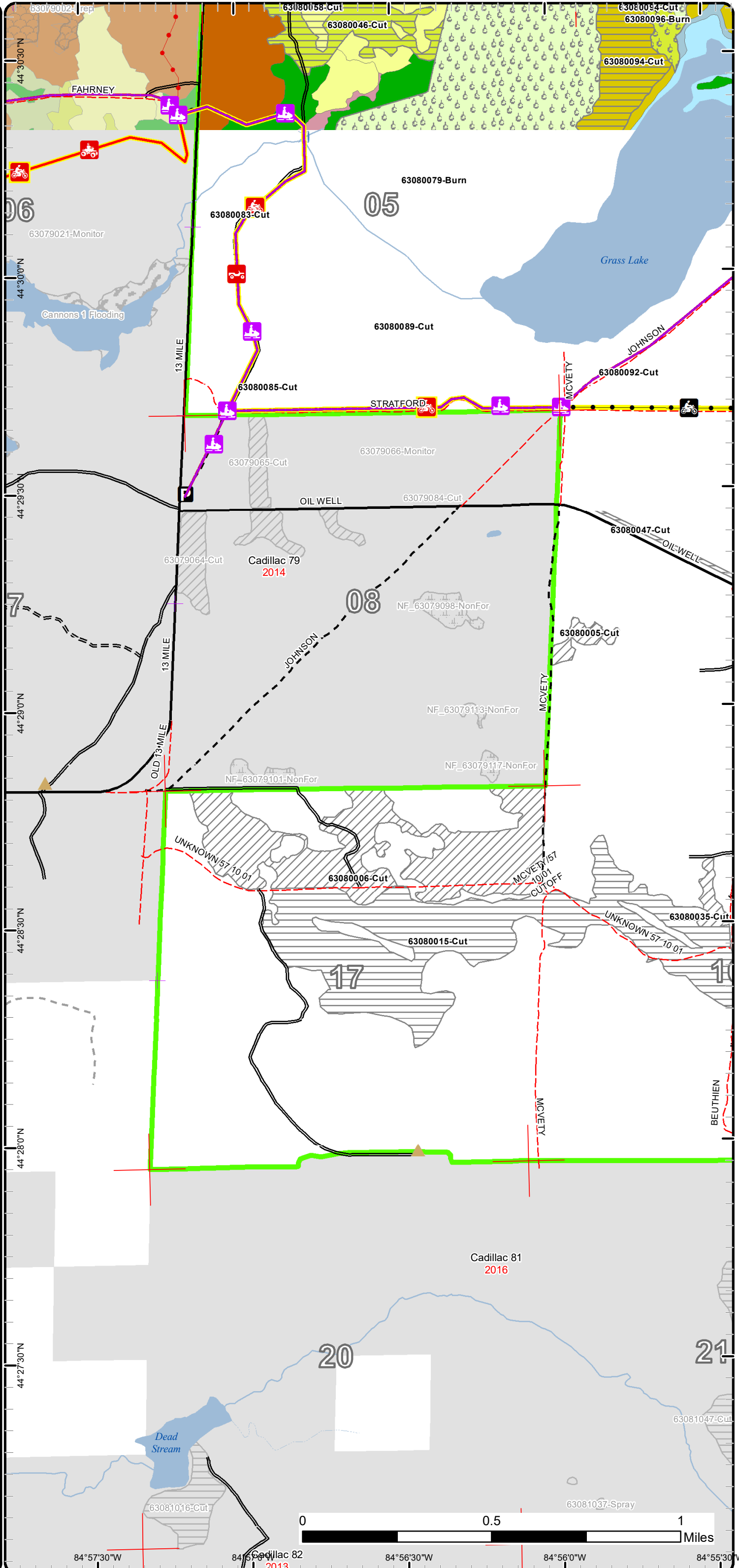
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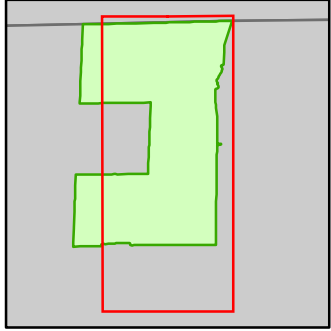
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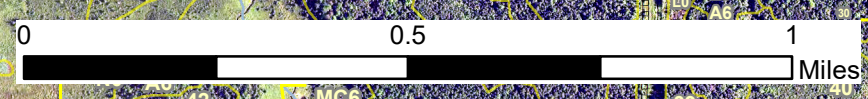
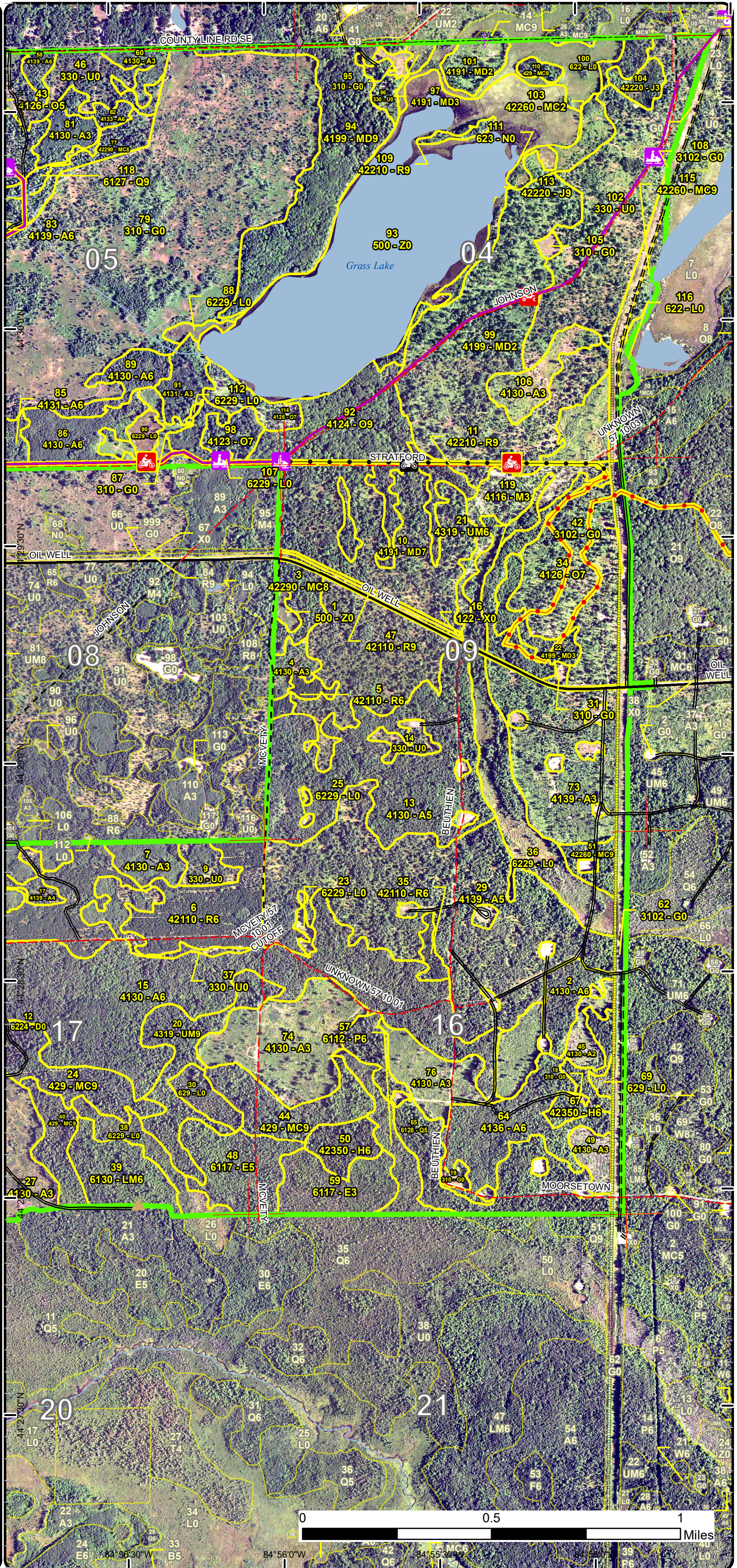
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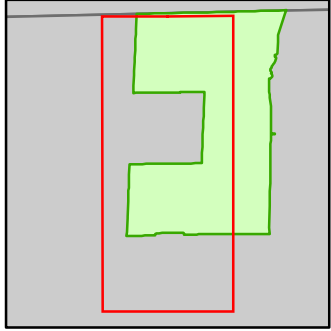


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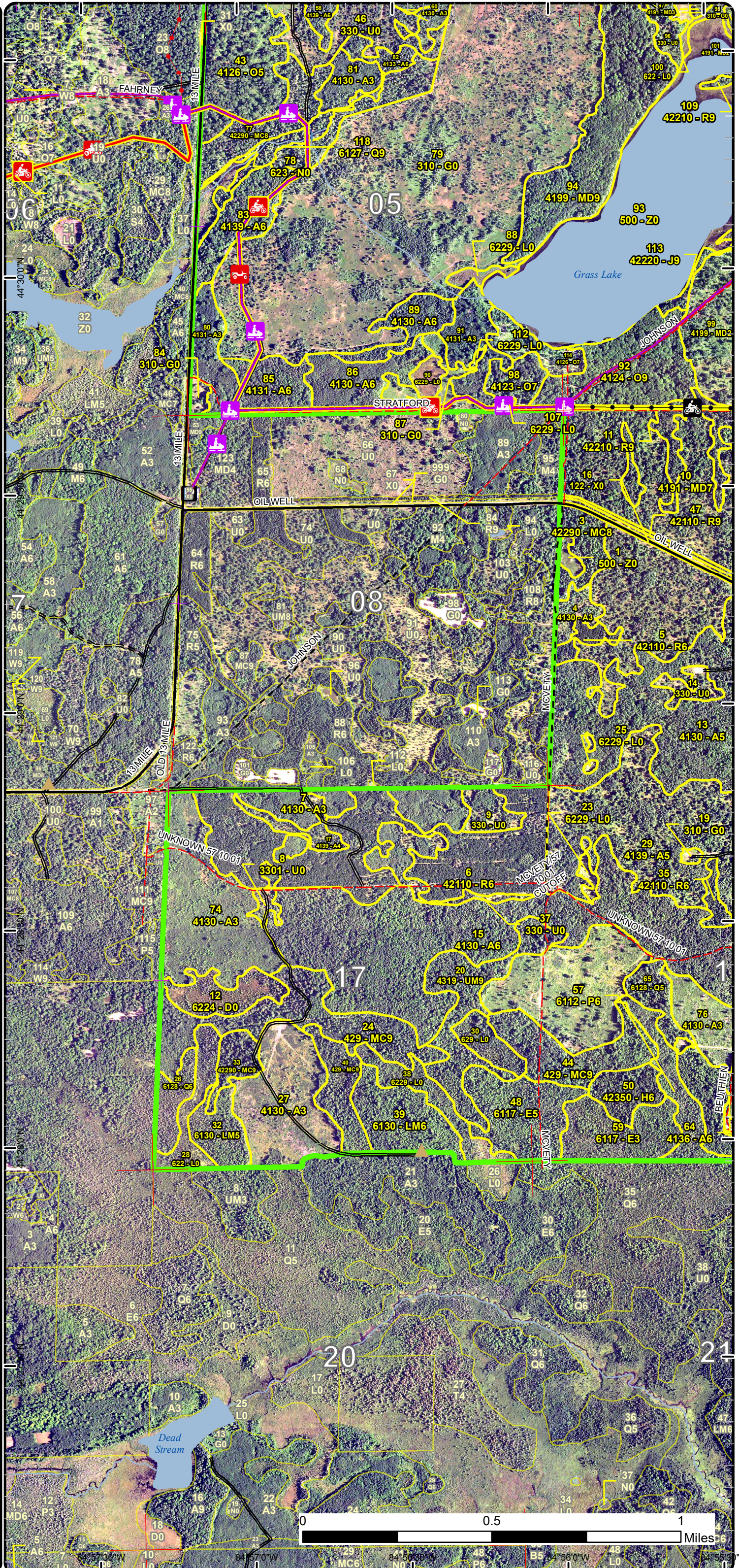


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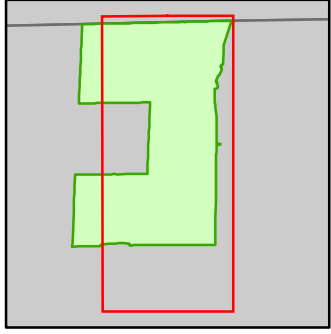
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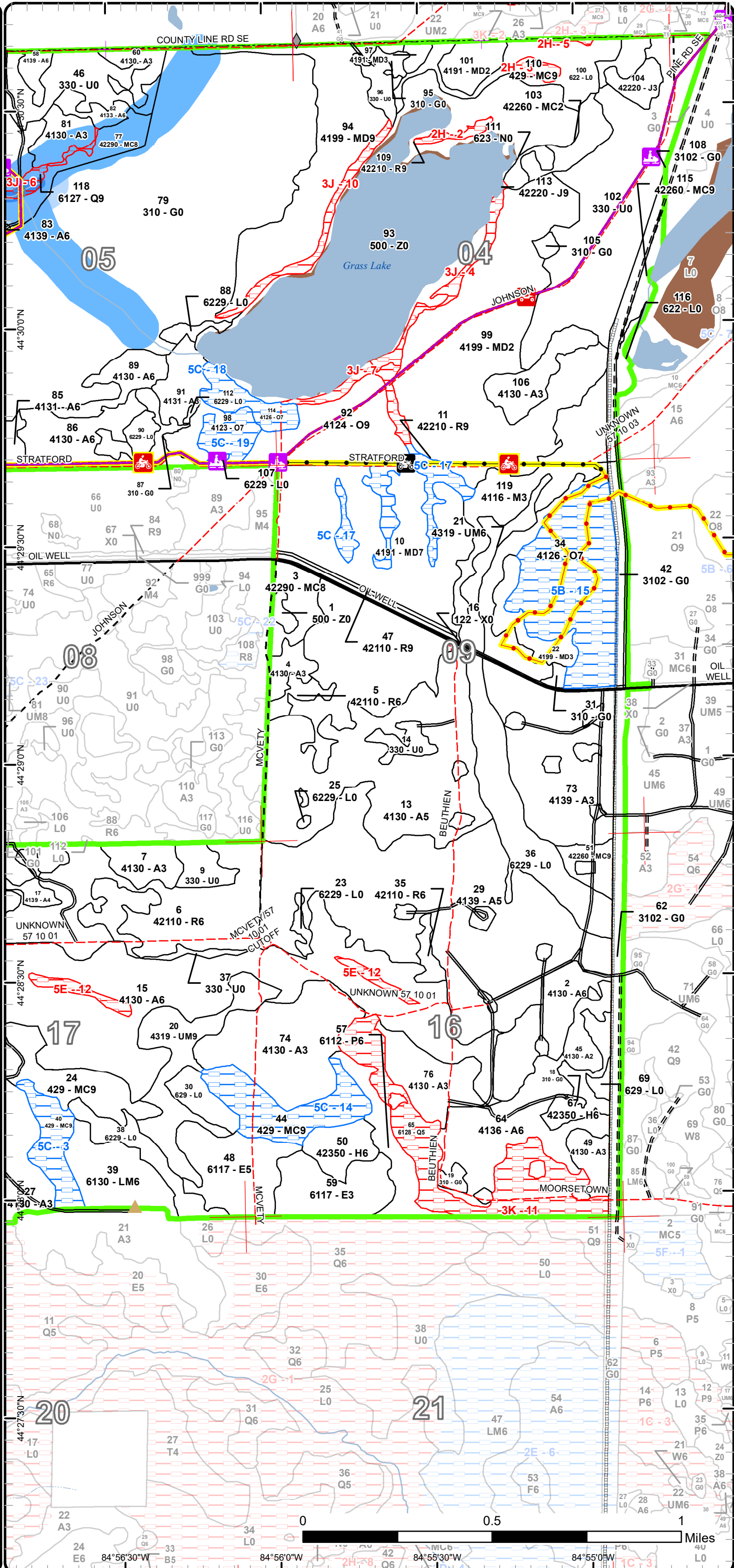
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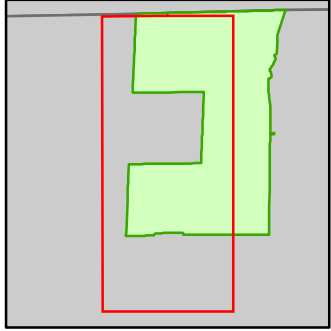
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas



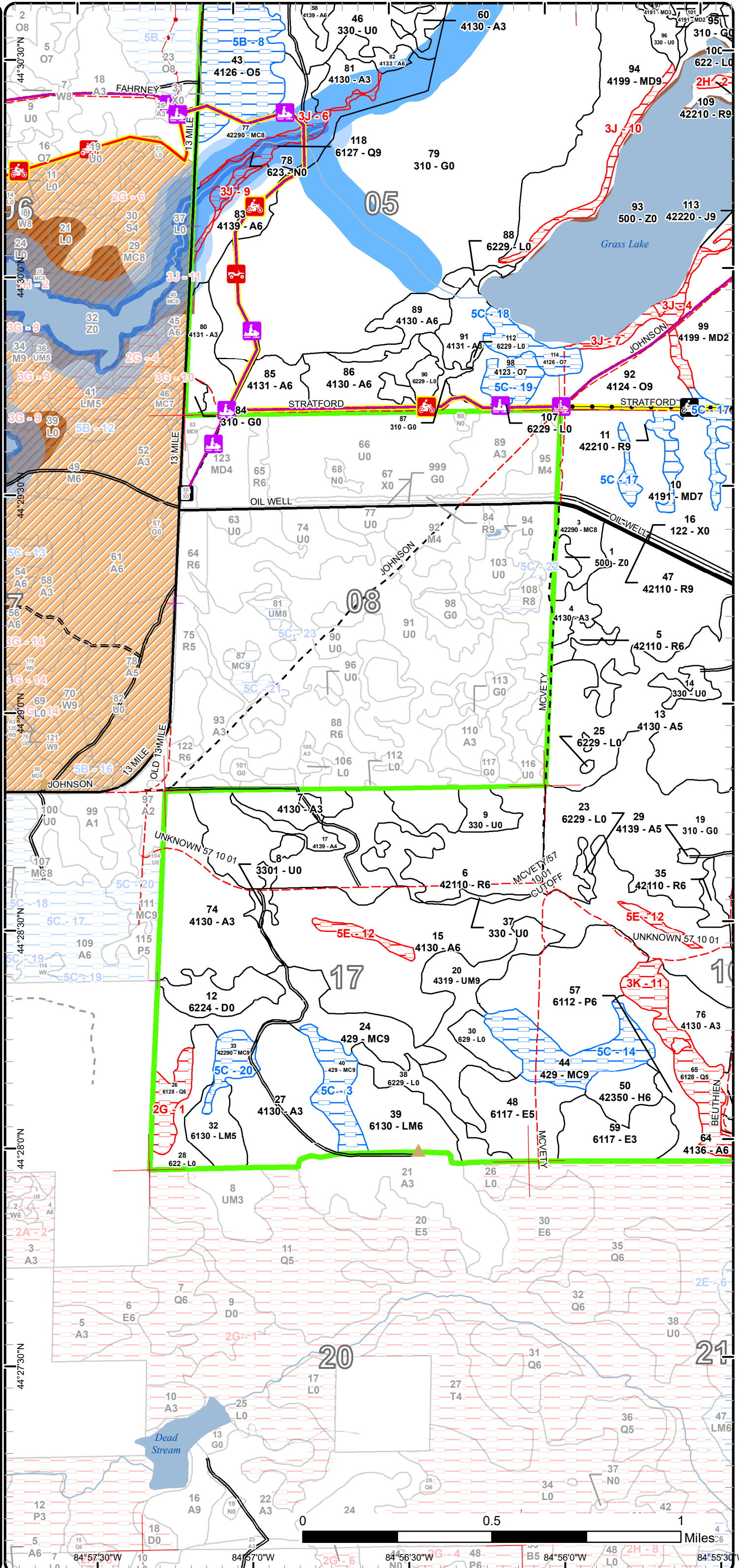


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- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
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- Stand Boundaries
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- Natural Rivers Zoning District
- Eastern Massasuga Managed Land
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas



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

Cadillac Mgt. Unit

Compartment 80

Year of Entry 2021

Blair Tweedale : 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	336	88	70	27	302	0	207	0	0	0	0	0	0	0	0	0	6	1036
Hemlock	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26
Herbaceous Openland	432	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	432
Jack Pine	0	0	0	7	0	0	0	0	9	0	0	0	0	0	0	0	0	0	16
Low-Density Trees	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160
Lowland Aspen/Balsam Poplar	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Conifers	0	0	0	0	0	0	0	0	11	65	0	0	0	0	0	0	0	0	76
Lowland Deciduous	0	0	0	0	27	33	0	0	0	0	0	0	0	0	0	0	0	0	60
Lowland Mixed Forest	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Shrub	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	150	0	13	0	156	0	0	0	74	0	0	0	0	0	0	0	0	393
Natural Mixed Pines	0	0	0	11	0	0	0	0	54	10	12	0	0	0	0	0	0	8	95
Northern Hardwood	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Oak	0	0	0	0	0	0	0	0	78	104	0	0	0	0	0	0	0	0	181
Red Pine	0	0	0	0	110	0	0	3	0	3	0	21	0	0	0	0	0	0	137
Treed Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Conifers	0	0	0	0	0	0	0	0	0	93	0	0	4	0	0	0	0	0	96
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	35	0	0	20	0	0	0	0	0	55
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	228
<b>Total</b>	<b>997</b>	<b>486</b>	<b>112</b>	<b>119</b>	<b>206</b>	<b>491</b>	<b>0</b>	<b>210</b>	<b>63</b>	<b>304</b>	<b>207</b>	<b>21</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>3252</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 80

Total Compartment Acres: 3,251

Commercial Harvest - 478  
 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	230	0	0	0	0	0	0	0	0	230
Low-Density Trees	31	0	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	65	0	0	0	0	0	0	0	0	65
Oak	0	0	0	39	0	0	0	0	0	39
Red Pine	3	0	0	0	0	110	0	0	0	114
<b>Total</b>	<b>329</b>	<b>0</b>	<b>0</b>	<b>39</b>	<b>0</b>	<b>110</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>478</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	478	0	0	0	452	0	0	0	0	930
Next Step	0	31	31	0	452	31	398	0	0	943
<b>Total</b>	<b>478</b>	<b>31</b>	<b>31</b>	<b>0</b>	<b>904</b>	<b>31</b>	<b>398</b>	<b>0</b>	<b>0</b>	<b>1872</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:**

2	63080002-Cut	14.6	4130 - Aspen	Poletimber Well	62	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Retain scattered white pine.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen, mixed deciduous and mixed conifer  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
5	63080005-Cut	5.5	42110 - Planted Red Pine	Poletimber Well	37	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> remove 1/3 of volume  <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>											
6	63080006-Cut	100.2	42110 - Planted Red Pine	Poletimber Well	38	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> third row thin.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u> Consider harvesting with red pine pockets North in compartment 79  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2019</p>											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
15	63080015-Cut	157.8	4130 - Aspen	Poletimber Well	62	Unspecified	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave a few white pine over 24 inches.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> deciduous and conifers  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
35	63080035-Cut	4.7	42110 - Planted Red Pine	Poletimber Well	37	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> remove 1/3 of volume (every third row)  <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>											
46	63080046-Cut	30.9	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest. No retention.  <u>Specs:</u>  <u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  <u>Treatments:</u>  <u>Acceptable</u> red pine  <u>Regen:</u>  <u>Other</u> Prep for planting of red pine.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
47	63080047-Cut	3.1	42110 - Planted Red Pine	Sawtimber Well	61	171-200	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> anything  <u>Regen:</u>  <u>Other</u> Out of year of entry harvest wind break to the east in Compartment 78 with this  <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
<b>58 63080058-Cut</b>	5.0	4139 - Aspen, Mixed Deciduous	Poletimber Well	62	Unspecified	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen, mixed deciduous and pine.  <u>Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>79 63080079-Burn</b>	338.7	310 - Herbaceous Openland	Nonstocked		Unspecified	Burn	Opening	310 - Herbaceous Openland		No
<p><u>Prescription</u> Burn every few years to set back woody growth and stimulate grasses and forbs.  <u>Specs:</u> May also use mechanical treatments for the same goals.  <u>Next Step</u> Burn, Opening  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>83 63080083-Cut</b>	19.9	4139 - Aspen, Mixed Deciduous	Poletimber Well	62	111-140	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave some super canopy red and white pine. Buffer transition area on NW edge of stand as it gets wet.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Mixed deciduous  <u>Regen:</u>  <u>Other</u> Protect snowmobile trail.  <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
<b>85 63080085-Cut</b>	18.6	4131 - Aspen, Oak	Poletimber Well	35	Unspec ified	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave white oak and super canopy white pine.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Mixed deciduous and pine.  <u>Regen:</u>  <u>Other</u> protect snowmobile trail.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>89 63080089-Cut</b>	13.9	4130 - Aspen	Poletimber Well	42	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest leave retention island 3 to 4 percent of total acreage. Map retention in site condition layer.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>92 63080092-Cut</b>	38.6	4124 - Red with White Oak	Sawtimber Well	96	111-140	Harvest	Seed Tree	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave white oak and large white pine.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> mixed deciduous with conifer  <u>Regen:</u>  <u>Other</u> protect snowmobile trail.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										



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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<b>94</b>	<b>63080094-Cut</b>	65.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	86	81-110	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Final Harvest. Leave white oak and scattered large white pine and red pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed deciduous with conifer

Regen:

Other WLD: Can we look at incorporating the northern portion of this stand in the burn unit to the west and north?

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>96</b>	<b>63080096-Burn</b>	9.2	330 - Low-Density Trees	Nonstocked	0	Unspecified	Burn	Opening	310 - Herbaceous Openland		No
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Prescription Include in harvest and burn with northern portion of stand 94 and stand 79 if stand 94 gets this treatment. If not, drop treatment.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>102</b>	<b>63080102-Burn</b>	102.0	330 - Low-Density Trees	Nonstocked	0	Unspecified	Burn	Opening	310 - Herbaceous Openland		No
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Prescription Burn to set back woody growth and stimulate grasses and forbs.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable

Regen:

Other

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
105 63080105-Burn	1.9	310 - Herbaceous Openland	Nonstocked		Unspecified	Burn	Opening	310 - Herbaceous Openland		No
<p><u>Prescription</u> Burn with stand 102</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

**Total Treatment Acreage Proposed: 929.6**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Blair Tweedale : Examiner

Compartment: 80  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
1035	1025	0	10

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions						
					5B	5C	2G	2H	3J	3K	5E
1035	1025	0	10	Aspen					2		8
26	26	0	0	Hemlock							
432	432	0	0	Herbaceous Openland			0				
16	7	0	9	Jack Pine					9		
160	160	0	0	Low-Density Trees							
18	18	0	0	Lowland Aspen/Balsam Poplar							
76	0	0	76	Lowland Conifers			11		11	54	
60	60	0	0	Lowland Deciduous							
42	42	0	0	Lowland Mixed Forest							
143	143	0	0	Lowland Shrub							
11	11	0	0	Marsh							
393	384	0	9	Mixed Upland Deciduous					9		
95	86	10	0	Natural Mixed Pines		10					
24	24	0	0	Northern Hardwood							
181	39	135	8	Oak	111	23			8		
137	113	21	3	Red Pine		21		3			
17	17	0	0	Treed Bog							
97	46	46	4	Upland Conifers		46		4			
54	54	0	0	Upland Mixed Forest							
6	6	0	0	Urban							
228	228	0	0	Water							
3,251	2,921	211	118	Total Forested Acres	111	100	11	7	38	54	8
	90%	6%	4%	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)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Blair Tweedale : Examiner

Compartment: 80  
Year of Entry: 2021

2	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Blair Tweedale: Examiner

Compartment: 80  
Year of Entry: 2021

8	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	54	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Blair Tweedale: Examiner

Compartment: 80  
Year of Entry: 2021

15	Available	5B: Maintain for regeneration purposes	67	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	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	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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
1	500 - Water	Nonstocked	2.8		Unspecified	No																																										
2	4130 - Aspen	Poletimber Well	14.6	62	Unspecified	N/A																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>75</td> <td>Sapling/Pole</td> <td>4</td> <td>62</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	75	Sapling/Pole	4	62	White Pine	10	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	White Pine	Low	Variable	Sapling																		
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Sub-Canopy Species	Density	Avg. Height	Size																																													
Red Maple	Low	Variable	Sapling																																													
White Pine	Low	Variable	Sapling																																													
3	42290 - Natural Mixed Pine	Sawtimber Medium	13.2	70	1-50	N/A																																										
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7	4130 - Aspen	Sapling Well	40.4	17	Immature	N/A	Aspen regeneration pockets located within a pine planted area. Harvested in early 2000s.																																									
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8	3301 - Low Density Deciduous Trees	Nonstocked	3.0		Unspecified	No	New stand added.																																									
9	330 - Low-Density Trees	Nonstocked	8.8		Unspecified	No																																										





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**10** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Poor 156.1 45 1-50 N/A Low density cherry. Scattered sawlog sized pine and oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	6		Red Maple	Low	5 - 10 feet	Sapling
White Oak	20	Log	13		White Pine	Low	Variable	Sapling
White Pine	10	Log/Pole	10		Pin Cherry	Low	Variable	Sapling
Red Pine	10	Pole	10					
Jack Pine	10	Pole	6					
Pin Cherry	30	Pole	6	45				

**11** 42210 - Natural Red Pine Sawtimber Well 20.8 106 81-110 N/A Mix of red and white pine with moderate red maple understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log	14		Red Maple	Medium	5 - 10 feet	Sapling
Red Pine	80	Log	14	106	White Pine	Medium	Variable	Sapling
					Black Cherry	Low	5 - 10 feet	Sapling
					Red Oak	Low	5 - 10 feet	Sapling

**12** 6224 - Treed Bog Nonstocked 16.7 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low		Pole

**13** 4130 - Aspen Poletimber Medium 109.6 41 Unspecified N/A

Stand is a mix of quacking aspen, red maple and black oak with pole/sapling understory. Quacking aspen overstory is poor form and quality. Extremely poor stocking and quality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	60	Pole/Sapling	5	41	White Oak	Low	10 - 20 feet	Sapling
White Pine	10	XLog/Log	12		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black Cherry	15	Pole	5		White Pine	Low	< 5 feet	Sapling
					Black Cherry	Medium	5 - 10 feet	Sapling

**14** 330 - Low-Density Trees Nonstocked 6.3 Unspecified No

**15** 4130 - Aspen Poletimber Well 165.5 62 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	70	Pole	8	62	White Pine	Low	Variable	Sapling
White Pine	10	Log/Pole	14					

**16** 122 - Road/Parking Lot Nonstocked 5.9 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**17** 4139 - Aspen, Mixed Deciduous Poletimber Poor 8.0 38 Unspecified N/A Open area within red pine stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	45	Sapling	4	38
Red Pine	10	Pole	8	38
Black Cherry	45	Sapling	4	

**18** 310 - Herbaceous Openland Nonstocked 0.5 0 Unspecified No Active well site.

**19** 310 - Herbaceous Openland Nonstocked 22.3 Unspecified No oi lpad

**20** 4319 - Mixed Upland Forest Sawtimber Well 34.6 86 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	5	
White Oak	10	Log	12	
Balsam Fir	15	Pole	7	
White Pine	30	Log/XLog	15	86
Quaking Aspen	20	Pole	7	
Hemlock	10	Pole/Log	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling

**21** 4319 - Mixed Upland Forest Poletimber Well 19.7 112 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	6	
White Oak	10	Sapling/Pole	6	
Quaking Aspen	15	Pole	6	
White Pine	45	Log/XLog/Pole	16	112

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
White Pine	Low	10 - 20 feet	Sapling
Red Oak	Medium	Variable	Sapling

**22** 4199 - Other Mixed Upland Deciduous Sapling Well 12.9 27 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	50	Sapling	3	27
White Oak	20	Sapling	4	
White Pine	10	Sapling	3	
Pin Cherry	20	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling

**23** 6229 - Mixed lowland shrub Nonstocked 2.7 0 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
24	429 - Mixed Upland Conifers	Sawtimber Well	46.3	86	81-110	N/A	Stand was harvested early 2000s. White pine, hemlock was protected. Dominate overstory species varies throughout stand. Overall, stand has large trees, with areas dominated by pole/sap trees.																																						
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25	6229 - Mixed lowland shrub	Nonstocked	1.1	0	Unspecified	No																																							
26	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.1	84	51-80	N/A	lowland conifer.																																						
27	4130 - Aspen	Sapling Well	48.3	4	Immature	N/A	stand was cut during fall/winter 2014																																						
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28	622 - Lowland Shrub	Nonstocked	14.8		Unspecified	No																																							
29	4139 - Aspen, Mixed Deciduous	Poletimber Medium	177.9	43	51-80	N/A	poor quality stand.																																						
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30	629 - Mixed non-forested wetland	Nonstocked	9.7		Unspecified	No																																							
31	310 - Herbaceous Openland	Nonstocked	1.6		Unspecified	No	Well Site																																						
32	6130 - Fir, Aspen, Maple	Poletimber Medium	14.8	35	Unspecified	N/A	Stand is lowland with upland. hummocky. Diameters on eastern edge of stand are a little bigger.																																						
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<b>33</b>	42290 - Natural Mixed Pine	Sawtimber Well	9.6	86	111-140	N/A	portions harvested last entry																																											
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<b>34</b>	4126 - White, Black, N. Pin Oak	Sawtimber Poor	66.6	89	1-50	N/A	orv trail passes through stand. lots of white oak and white pine regen. White pine is a mix of sapling and pole sized.																																											
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<b>35</b>	42110 - Planted Red Pine	Poletimber Well	4.7	37	141-170	N/A	Nice diameters. SHORT trees.																																											
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<b>38</b>	6229 - Mixed lowland shrub	Nonstocked	15.8		Unspecified	No																																												
<b>39</b>	6130 - Fir, Aspen, Maple	Poletimber Well	26.9	37	51-80	N/A	lowland and upland mix																																											
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42	3102 - Grass	Nonstocked	11.6		Unspecified	No	Pipeline																																													
43	4126 - White, Black, N. Pin Oak	Poletimber Medium	44.7	92	51-80	N/A	South of the snowmobile trail is majority white and red pine. Oak dominated overstory North of snowmobile trail.																																													
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44	429 - Mixed Upland Conifers	Sawtimber Well	29.4	86	111-140	N/A	portions harvested early 2000s. Large white pine, red pine and hemlock left in the stand. Most Red pine is located in the eastern portion of the stand.																																													
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45	4130 - Aspen	Sapling Medium	9.7	4	Immature	N/A	Stand final harvested in 2014. Eastern portions of this multipart stand has been heavily browsed.																																													
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46	330 - Low-Density Trees	Nonstocked	30.9		Unspecified	No	check for burn record.																																													
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47	42110 - Planted Red Pine	Sawtimber Well	3.1	61	171-200	N/A	Old red pine wind break																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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48	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	32.8	48	Unspecified	N/A	mostly lowland. Low area in NE portion of stand almost dominated by alder.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole	8	48	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	15	Pole	5		Alder	Low	5 - 10 feet	Tall Shrub
White Pine	15	Log	16					
Quaking Aspen	15	Pole/Sapling	6					

49	4130 - Aspen	Sapling Well	9.0	4	Immature	N/A	Final harvested in 2014, came back well.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	81	Sapling	1	4
Red Maple	15	Sapling	1	

50	42350 - Upland Hemlock	Poletimber Well	13.0	96	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	90	Log/Pole	12	96	Red Maple	Trace	5 - 10 feet	Sapling

51	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	8.3	75	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	7		Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen	10	Pole/Sapling	6		White Pine	Low	10 - 20 feet	Sapling
White Pine	55	XLog/Log	20	75				

57	6112 - Lowland Aspen	Poletimber Well	18.0	27	81-110	N/A	Mostly wet, with tag alder. Central portion of stand was harvested previously.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	40	Pole	5	27				
Balsam Fir	20	Pole/Sapling	5					
White Pine	10	Pole/Sapling	6					

58	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.0	62	Unspecified	N/A	poor quality mixed stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	7	
White Oak	15	Log/Pole	11	
Bigtooth Aspen	40	Pole	7	62
White Pine	15	Log	12	
Black Cherry	10	Sapling/Pole	4	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>59</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	27.3	31	Immature	N/A	low with upland. stand has had harvests in the past. Old skid trail from the north has evidence of past rutting.																																													
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<b>60</b>	4130 - Aspen	Sapling Well	8.3	5	Immature	N/A	Aspen with some pines and oak saplings. scattered cherry. Stand final harvested in 2014.																																													
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<b>62</b>	3102 - Grass	Nonstocked	26.9		Unspecified	No	Pipeline, wet in many pockets.																																													
<b>64</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	44.3	27	Immature	N/A	It appears the stand has been harvested in the mid 1990s. Super Canopy white pine and Hemlock pockets were not harvested.																																													
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<b>65</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	54.0	91	81-110	N/A	thinned in 2002, leaving all hemlock and large white pine. Red maple, aspen, balsam fir poor quality. Variable overstory dominance throughout stand.																																													
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<b>67</b>	42350 - Upland Hemlock	Poletimber Well	13.4	95	81-110	N/A	North is solid hemlock, south is mixed a little more with some scattered white and red pine.																																													
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<b>69</b>	629 - Mixed non-forested wetland	Nonstocked	2.3	0	Unspecified	No	Close to being forested but still mostly alder.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
73	4139 - Aspen, Mixed Deciduous	Sapling Well	68.4	6	Immature	N/A	Stand was final harvested in 2013. All white pine under 8 and oak-cedar and hemlock remained.																																	
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74	4130 - Aspen	Sapling Well	128.4	4	Immature	N/A	Harvested in 2014.																																	
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76	4130 - Aspen	Sapling Well	23.6	4	Immature	N/A	Eastern portions of this multipart stand has been heavily browsed.																																	
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77	42290 - Natural Mixed Pine	Sawtimber Medium	40.6	78	51-80	N/A	Stand was thinned in fall of 2014. Sale #63-025-11-01																																	
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78	623 - Emergent Wetland	Nonstocked	6.7		Unspecified	No	Many dead snags located throughout stand.																																	
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79	310 - Herbaceous Openland	Nonstocked	338.7		Unspecified	Managed Opening	Mix of poor quality aspen, red maple and cherry. Some scattered pines. Part of Grass lake burn unit. Last burned in 2014, with low intensity prescribed burn. part of wildlife's sharp trail burn units.																																	
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80	4131 - Aspen, Oak	Sapling Well	16.8	17	1-50	N/A	Stand final harvested in 2002, some large white pine along 13 Rd on west edge of stand.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>81</b>	4130 - Aspen	Sapling Well	10.5	17	1-50	N/A	Stand final harvested in 2002.																																													
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<b>82</b>	4133 - Aspen, Mixed Pine	Poletimber Well	6.0	53	81-110	N/A	good wildlife potential. White pine, aspen, cherry and areas of thick pine regen.																																													
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<b>83</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	22.1	62	111-140	N/A	Mixed stand																																													
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<b>84</b>	310 - Herbaceous Openland	Nonstocked	3.0		Unspecified	Managed Opening	Ghost Town of Stratford.																																													
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<b>86</b>	4130 - Aspen	Poletimber Well	25.7	26	Immature	N/A	Stand final harvested in 1993.																																													
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<b>87</b>	310 - Herbaceous Openland	Nonstocked	10.3	0	Unspecified	4211 - Planted Red Pine	Stand was planted in 2016 according to TMS records. site has been trenched and ready to plant. Trenched in 2015 and planted in 2016 to red pine. East half PRT. Regeneration survey in 2017 and release sprayed in 2017. 10/22/2018- Regen survey-Red pine has a 85% survival of planted stock. Competition has been impacted from the release spray. Some of the taller cherry (10 ft+) are still alive, but have very small crowns. Red pine put on great growth this growing season,																																													
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88	6229 - Mixed lowland shrub	Nonstocked	3.5		Unspecified	Managed Opening																																											
89	4130 - Aspen	Poletimber Well	13.9	42	Unspecified	N/A	Rough quaking aspen stand, not quality aspen.																																										
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90	6229 - Mixed lowland shrub	Nonstocked	4.9		Unspecified	No	Edges of stand has jack pine.																																										
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91	4131 - Aspen, Oak	Sapling Well	20.2	17	Immature	N/A	Stand final harvested in 2002. All oak was left, not enough to go back after until aspen matures.																																										
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92	4124 - Red with White Oak	Sawtimber Well	46.5	96	111-140	N/A	mixed stand																																										
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93	500 - Water	Nonstocked	224.9		Unspecified	No	Water body is Grass Lake. Shallow lake that dries up in drought periods.																																										
94	4199 - Other Mixed Upland Deciduous	Sawtimber Well	73.9	86	81-110	N/A	Stand borders Grass Lake to the east. Mixed oak, maple aspen ridge, drops off slightly to lake not very steep at all. Stand quality falls apart to north a little, more open grown.																																										
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95	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	No																																											
96	330 - Low-Density Trees	Nonstocked	6.6	0	Unspecified	No																																											



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<b>97</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	2.8	6	Immature	N/A	Stand appears to have been last entry possibly out of the Kalkaska office around 2013.																																																																								
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<b>98</b>	4123 - Red Oak	Sawtimber Poor	11.1	87	1-50	N/A	Stand was cut in 2013 all oak was left.																																																																								
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<b>99</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	135.5	5	1-50	N/A	Sale was cut in 2014, Scattered oak left in overstory not enough to consider canopy or worth going back after. Pine under 6 inches in diameter was left as well.																																																																								
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<b>100</b>	622 - Lowland Shrub	Nonstocked	25.6		Unspecified	No																																																																									
<b>101</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	11.4	5	Immature	N/A	Stand was cut last entry, no TCR found was cut around 2014. All oak was left regenerating well to mixed stand.																																																																								
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<b>102</b>	330 - Low-Density Trees	Nonstocked	102.0	0	Unspecified	No	Last burned in 2014, with low intensity prescribed burn. Part of wildlife's sharp trail burn units.																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>103</b>	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	11.3	23	Immature	N/A	Jack pine and red pine that was final harvested in 1995.																																													
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<b>104</b>	42220 - Natural Jack Pine	Sapling Well	7.3	23	Immature	N/A	Stand final harvested in 1995. Small wet lowland shrub area within stand.																																													
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<b>105</b>	310 - Herbaceous Openland	Nonstocked	1.9		Unspecified	No	abandoned test well site																																													
<b>106</b>	4130 - Aspen	Sapling Well	32.9	6	Immature	N/A	Stand was cut in fall 2012. Natural regen to a mix of aspen, pine and oak with scattered maples.																																													
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<b>107</b>	6229 - Mixed lowland shrub	Nonstocked	0.2	0	Unspecified	No																																														
<b>108</b>	3102 - Grass	Nonstocked	12.9		Unspecified	No	Pipeline, wet in spots.																																													
<b>109</b>	42210 - Natural Red Pine	Sawtimber Well	2.7	88	51-80	N/A	Island of natural red, white and some jack pine.																																													
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<b>110</b>	429 - Mixed Upland Conifers	Sawtimber Well	4.3	112	51-80	N/A	Island not worth harvesting for work involved for small acreage.																																													
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Jack Pine	10	Pole	6																																																	
<b>111</b>	623 - Emergent Wetland	Nonstocked	4.1		Unspecified	No																																														
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Medium</td> <td></td> <td>Sapling</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Medium		Sapling																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**112** 6229 - Mixed lowland shrub Nonstocked 0.6 0 Unspecified No

**113** 42220 - Natural Jack Pine Sawtimber Well 8.7 75 1-50 N/A Strip left along grass lake from recent harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log/Pole/Sap	14	91	Red Oak	Low	10 - 20 feet	Sapling
White Pine	10	Log	13		Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Red Pine	10	Log/Pole	12		Red Maple	Low	5 - 10 feet	Sapling
Jack Pine	65	Log/Pole	10	75				

**114** 4126 - White, Black, N. Pin Oak Sawtimber Poor 12.3 96 1-50 N/A Oak wilt salvage cut in 2016, all red oak was cut by spec.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Log	9	
White Oak	70	Log	10	96
White Pine	10	Log/XLog	14	

**115** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 12.1 95 51-80 N/A Small unique for area stand of fire scared red and white pine, some aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log/Pole/XLog	12		White Pine	High	Variable	Sapling
White Oak	10	Log	15		Red Maple	Medium	Variable	Sapling
Quaking Aspen	20	Log/Pole	10					
Red Pine	50	Log/XLog	15	95				

**116** 622 - Lowland Shrub Nonstocked 4.2 0 Unspecified No

**118** 6127 - Lowland Pine Sawtimber Well 10.7 98 51-80 N/A Buffer area creek, protected for BMP concerns.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	50	Log	13	98	Red Maple	Low	10 - 20 feet	Sapling
Red Pine	20	Log/Pole	11	98	White Pine	Low	5 - 10 feet	Sapling
Northern White Cedar	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
Red Maple	17	Log	10					

**119** 4116 - Mixed N. Hardwood - Aspen Sapling Well 24.2 16 Immature N/A In 2014, all pine over 10 inches in diameter was cut along with any aspen, maple and jack pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Sapling/Pole	3	16	Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	20	Sapling	2		White Pine	Medium	Variable	Sapling
White Pine	10	Sapling	1		Black Cherry	Low	5 - 10 feet	Sapling
					Red Oak	Low	5 - 10 feet	Sapling