



# Compartment Review Presentation

**Cadillac Forest Management Unit**

**Compartment 63095**

**Entry Year 2021**

**Acreage: 2,120**

**County Missaukee**

**Management Area: Houghton Lake Wetlands**

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**Revision Date:** 2019-06-10

**Stand Examiner:** Steve Eisele

**Legal Description:**

T22N-R5W, Sections 12,13,14 and NE portion of 15

**Identified Planning Goals:**

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

**Soil and topography:**

A lot of lowland types with Saugatuck sand. Wet and hummocky.

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

Solid sections of state land except 15. Scattered private parcels along the Muskegon river. Private lands are mostly undeveloped with some scattered seasonal homes.

**Unique Natural Features:**

Muskegon river with Dead horse flooding and Nelsville ditch.

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

Prehistoric Indian camp located in or near this compartment.

**Special Management Designations or Considerations:**

Wildlife research in the Porter Ranch area. Continue to manage the jack pine and with natural regeneration harvests.

**Watershed and Fisheries Considerations:**

Muskegon River.

**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. Deadhorse Flooding is within this compartment. Management of this site includes maintaining the dike and water control structure as well as periodic drawdowns to stimulate aquatic plant growth for habitat. There is also a very large area currently influenced by a beaver dam.

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

Sections 12-15, T22N-R5W, Missaukee County

Sand/gravel pits are located three miles to the southwest and northeast. There may be some sand potential within the compartment, but the majority of the area is wetlands and development is unlikely. The six-well Nelsville field is located less than two miles east of the compartment. Half of the wells are still producing oil from the Lucas Formation. There has been no drilling activity in the field in nearly 40 years, and there does not appear to be potential for the field to expand. There has been recent leasing activity in the area surrounding the compartment. These leases were originally acquired by Marathon in a 2014 auction as they pursued unconventional development of the Lucas Formation (Richfield zone). Marathon has since abandoned their plans. Marathon's remaining leases were recently acquired by CORE Energy. It is not known whether CORE intends to develop the leases in this area or let them expire next year. The state has minimal ownership of 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. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Road access detailed in compartment map.

**Survey Needs:**

None needed at this time

**Recreational Facilities and Opportunities:**

Snowmobile trail in north portion of compartment. Hunting and trapping through out the area.

**Fire Protection:**

Much of this compartment has poor access for suppression equipment. Fuels could be support large fire growth. Initial Attack is from the Houghton Lake FO. Due to the limited use of mechanized equipment to this area, any fire could be labor intense to suppress.

**Additional Compartment Information:**

The bridge on Kelly road is no longer passable. The forest road that crosses the dam at the south end of Dead horse flooding is a tube style with a flood gateway. It is blocked on the east side of flooding to prevent vehicle traffic.

**The following reports from the Inventory are attached:**

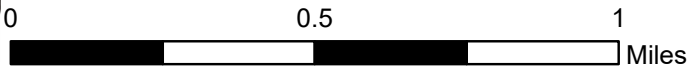
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

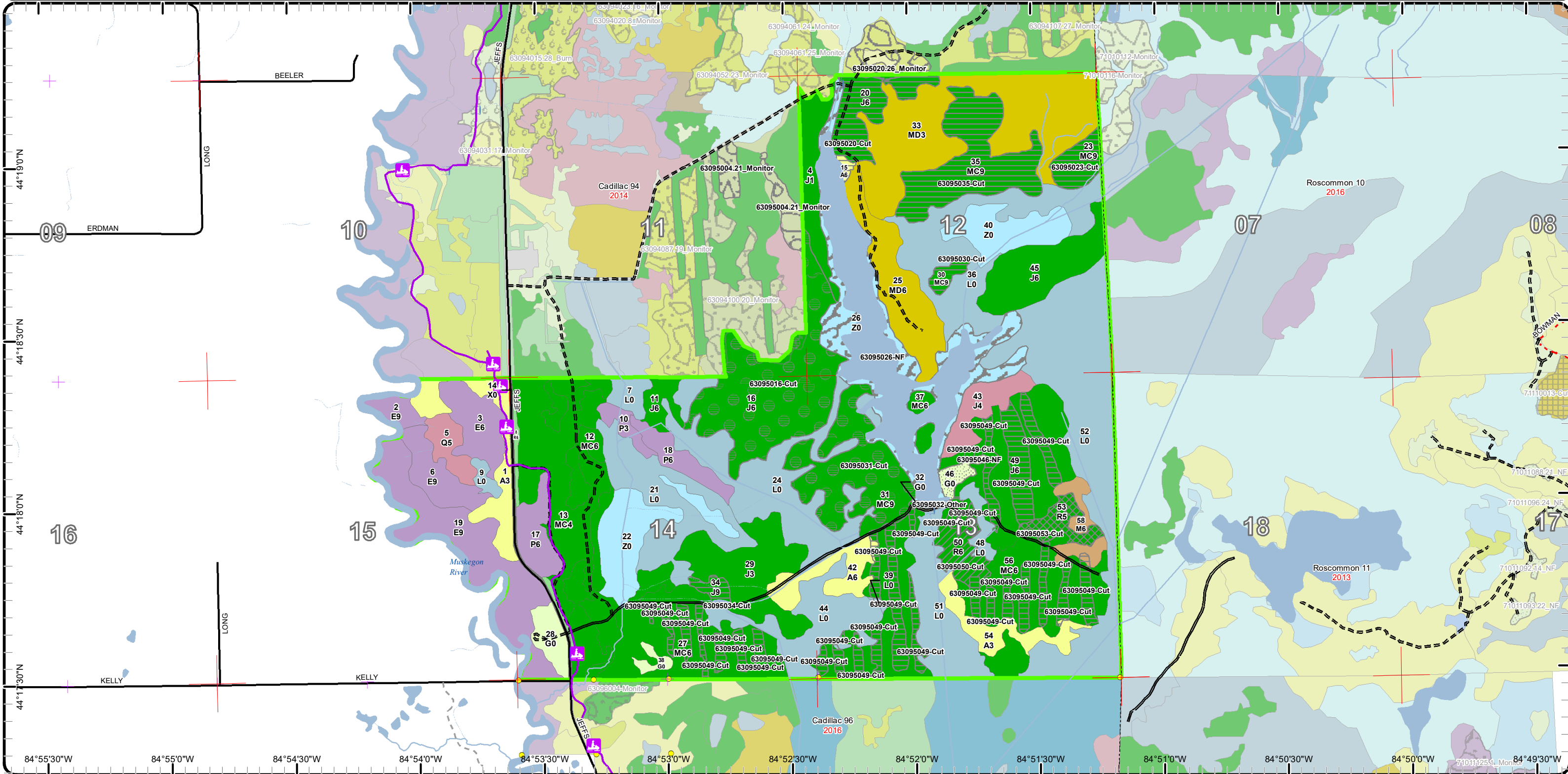
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 95  
 T22N-R05W Sec. 12-15  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt Area: Houghton Lake Wetlands  
 YOE: 2021  
 Acres: 2,120 GIS Calculated  
 Examiner: Steve Eisele  
 Map Revised: 11/18/2019  
 Map Phase: Post-Review



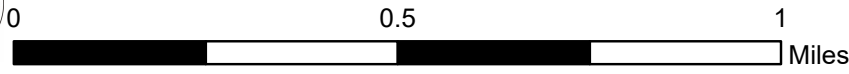
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Private - Dirt / Gravel Road
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
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- Lake/Pond
- Perennial River
- 🌊 Lakes and Rivers
- 🟩 Compartment Boundary
- 🏠 Other Treatment - See Comments
- 🌳 Selection (Group, Single Tree)
- 🌳 Clearcut (w/Reserves)
- 🌳 Patch/Strip Cut (Femelschlag)
- 🌳 Thinning (Crown, Low, Systematic)
- 🌳 Regeneration Survey
- 🌳 Mowing
- 🌳 Water Level Management
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- 🌳 413 - Aspen Types
- 🌳 419 - Mixed Upland Deciduous
- 🌳 421 - Planted Pines
- 🌳 422 - Natural Pines
- 🌳 611 - Lowland Deciduous Forest
- 🌳 612 - Lowland Coniferous Forest
- 🌳 122 - Roads/Parking Lot
- 🌳 310 - Herbaceous Openland
- 🌳 500 - Water
- 🌳 622 - Lowland Shrub



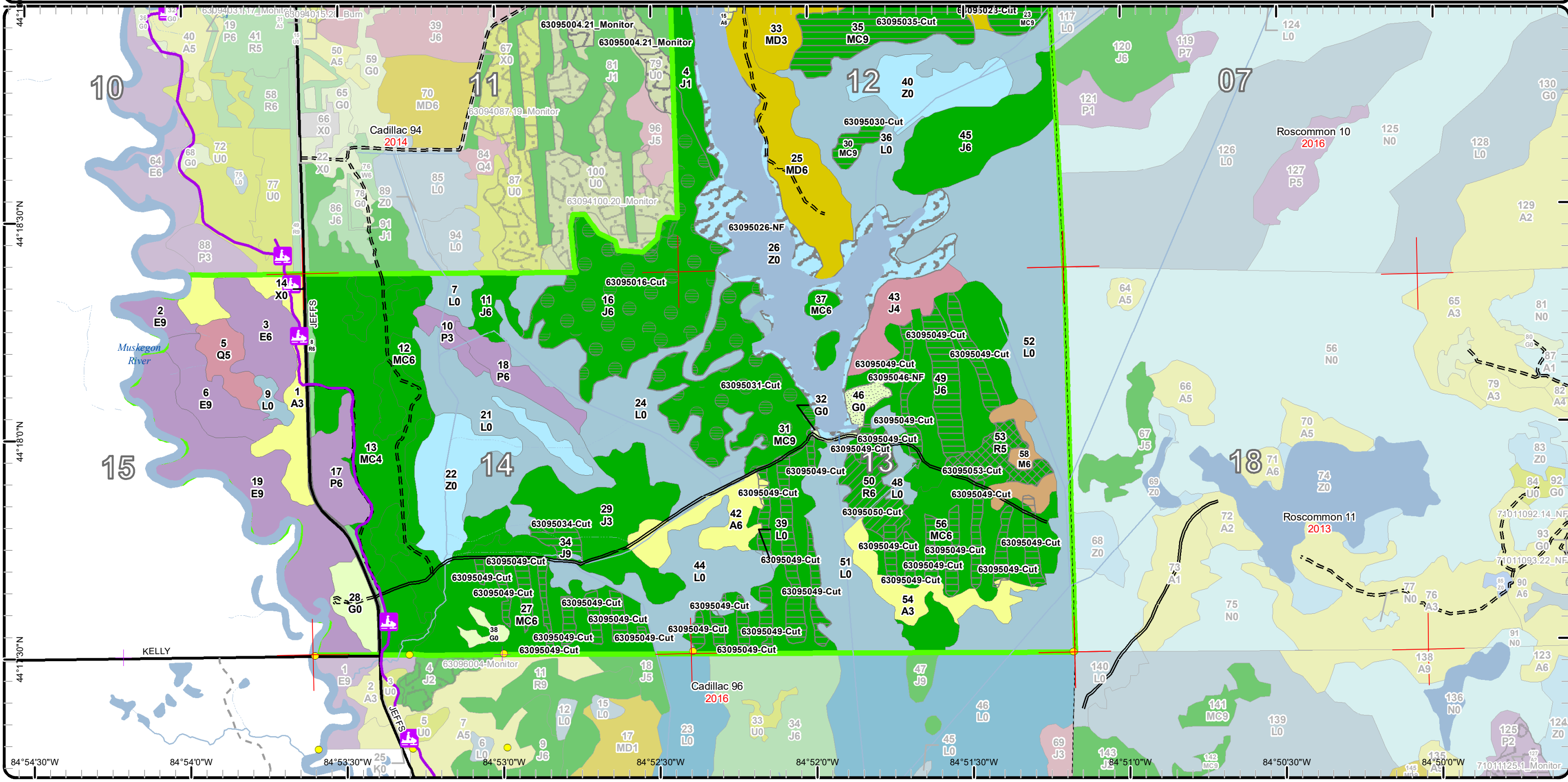


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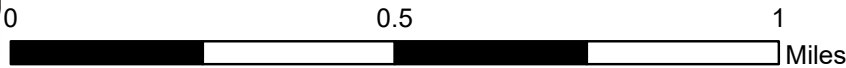
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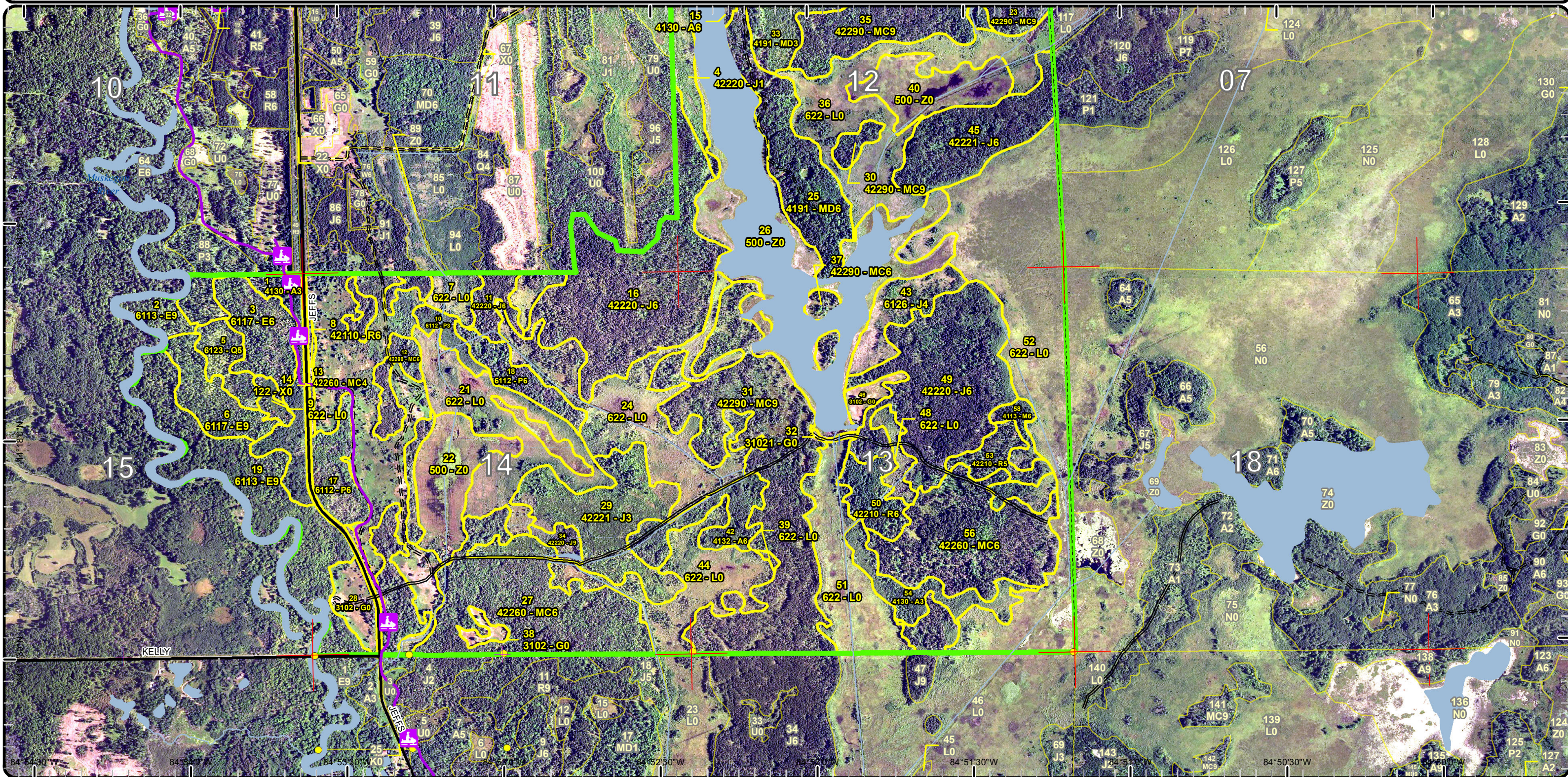


# Stand Boundary Map

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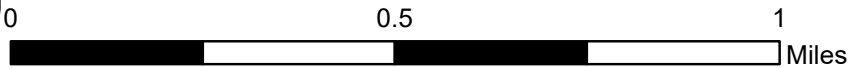
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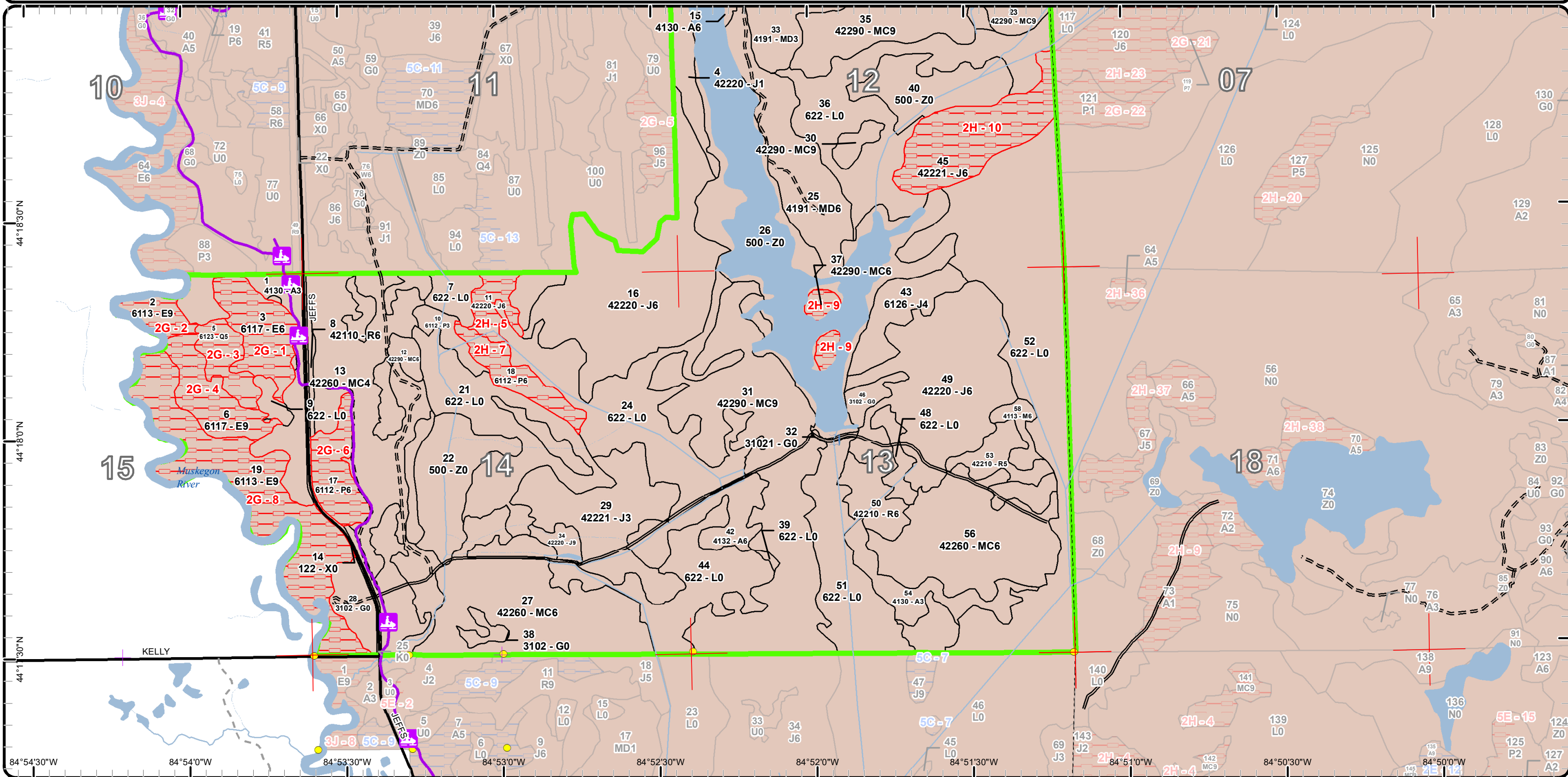


# Special Conservation Areas & Site Conditions Map

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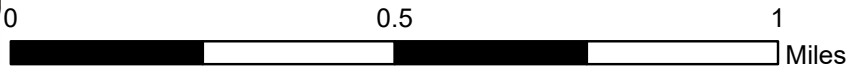


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- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Cold Water Lakes
- Wildlife Research Areas

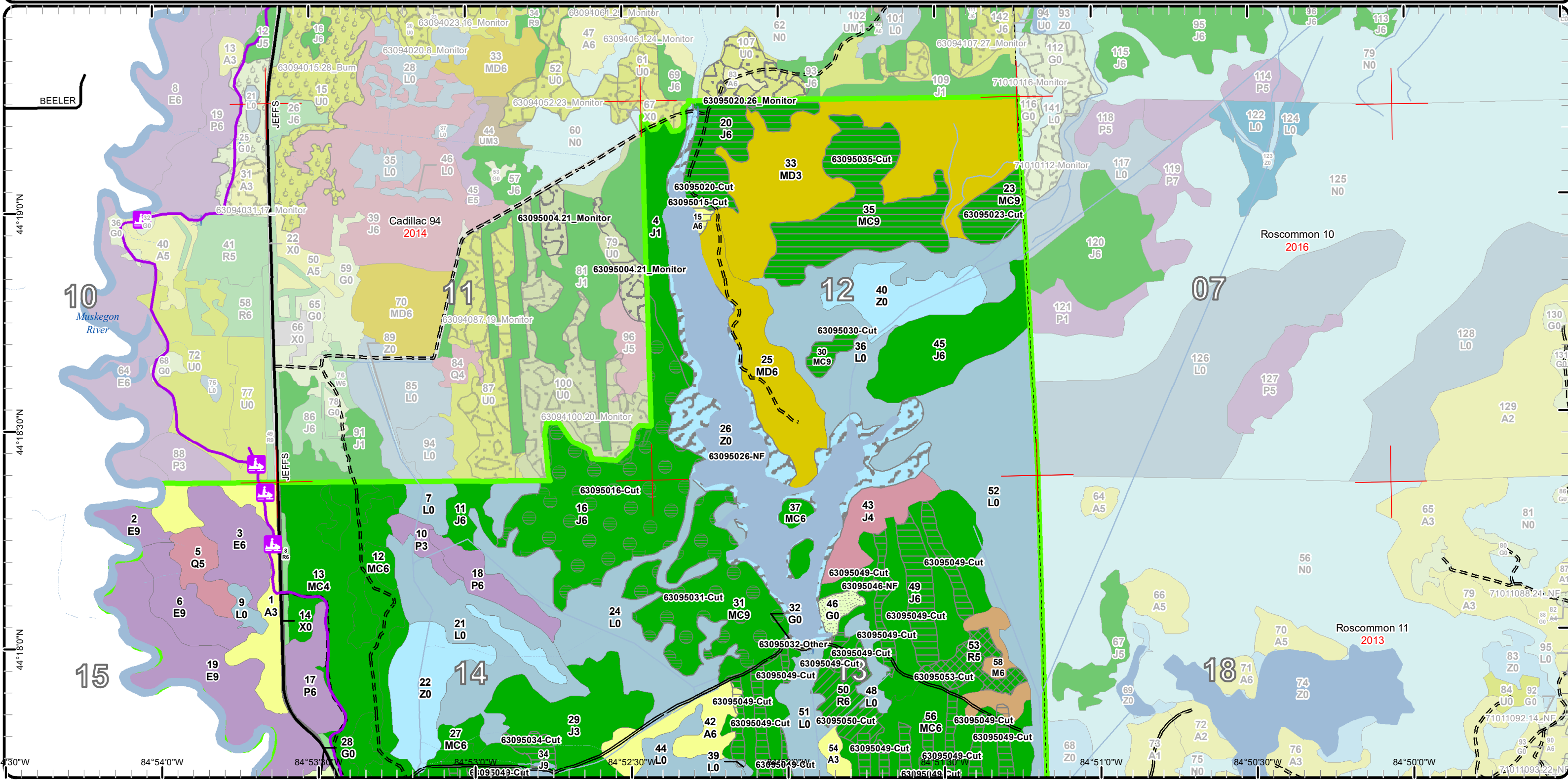


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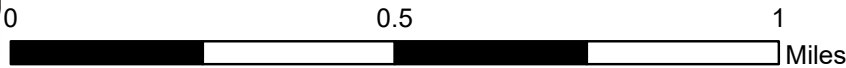
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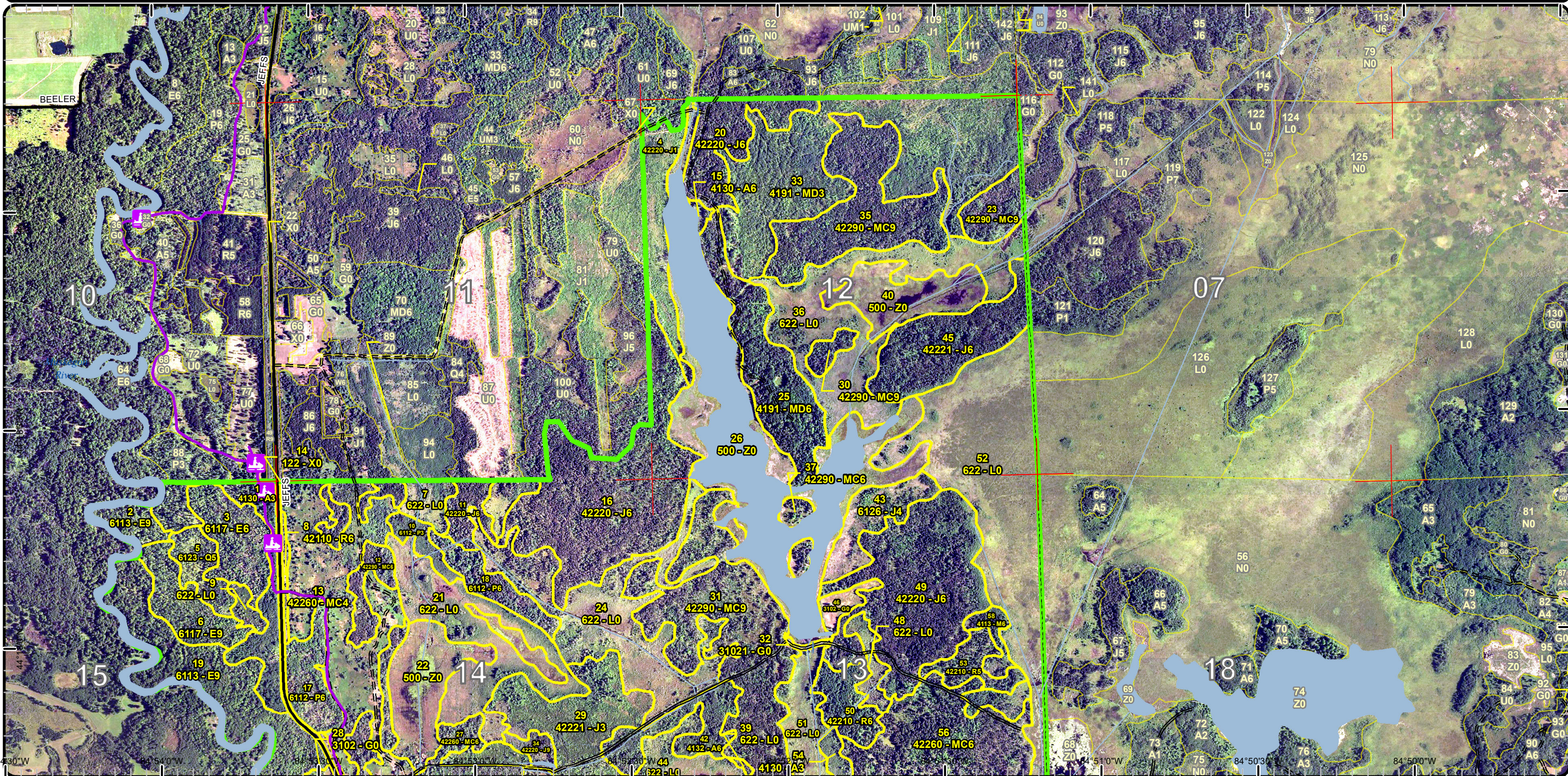


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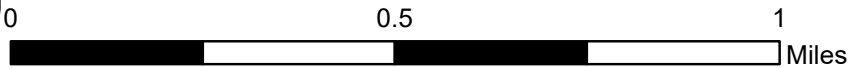


84°54'30"W 84°54'0"W 84°53'30"W 84°53'0"W 84°52'30"W 84°52'0"W 84°51'30"W 84°51'0"W 84°50'30"W 84°50'0"W

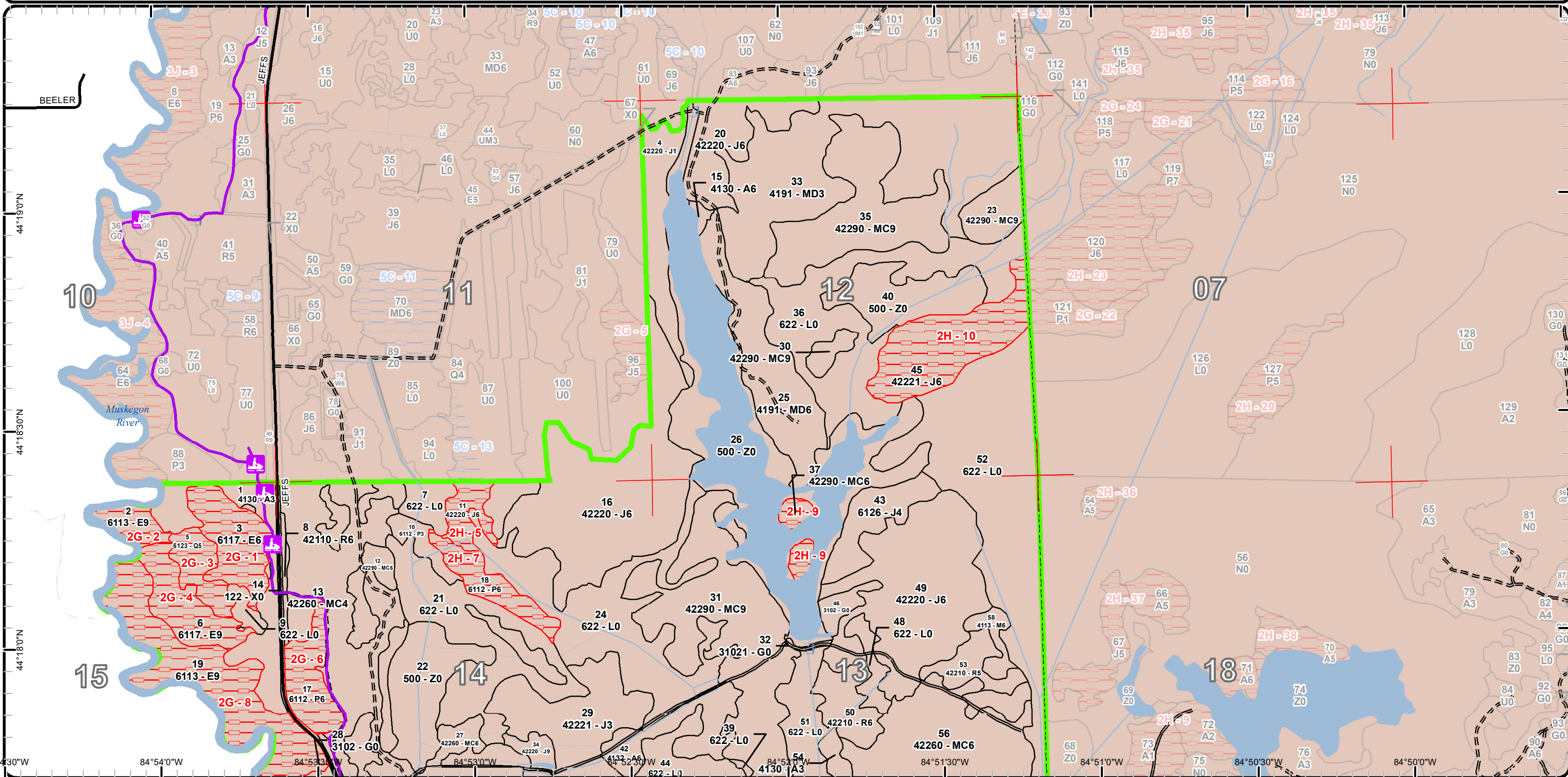


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	52	0	0	23	0	2	0	0	0	0	0	0	0	0	0	0	77
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	0	0	86	21	0	0	0	90	190	0	0	0	0	0	0	0	0	0	387
Lowland Aspen/Balsam Poplar	0	0	7	0	0	0	16	19	0	0	0	0	0	0	0	0	0	0	42
Lowland Conifers	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Deciduous	0	0	0	0	0	0	0	26	0	0	33	0	0	0	0	0	0	77	135
Lowland Shrub	477	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	477
Mixed Upland Deciduous	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	169
Natural Mixed Pines	0	0	0	0	0	118	80	235	0	82	0	0	0	0	0	0	0	0	515
Northern Hardwood	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Red Pine	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	35
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	226
<b>Total</b>	<b>734</b>	<b>0</b>	<b>265</b>	<b>35</b>	<b>0</b>	<b>141</b>	<b>110</b>	<b>407</b>	<b>190</b>	<b>82</b>	<b>33</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126</b>	<b>2122</b>





## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 95

Total Compartment Acres: 2,120

Commercial Harvest - 421  
 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	2	0	0	0	0	0	0	0	0	2
Jack Pine	140	0	102	0	0	0	0	0	0	242
Natural Mixed Pines	82	0	66	0	0	0	0	0	0	148
Red Pine	0	13	0	0	16	0	0	0	0	28
<b>Total</b>	<b>225</b>	<b>13</b>	<b>168</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>421</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	421	0	0	0	0	0	1	160	0	582
Next Step	0	0	0	0	0	421	0	0	0	421
<b>Total</b>	<b>421</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>421</b>	<b>1</b>	<b>160</b>	<b>0</b>	<b>1003</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:**

79	63095004.21_Monitor	17.9	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> jack pine and scattered mixed pine with deciduous <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/11/2017</p>											

15	63095015-Cut	2.4	4130 - Aspen	Poletimber Well	61	Unspecified	Harvest	Clearcut	4132 - Aspen, Jack Pine	Even-Aged	No
<p><u>Prescription</u> Some wet spots but get what you can. No retention to promote sprouting. Cut with adjacent stand <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen and jack pine <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

16	63095016-Cut	102.0	42220 - Natural Jack Pine	Poletimber Well	71	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Patch and or strip cut stand. Roughly 50 percent being taken this YOE with the rest being cut the following YOE. No retention within patch or strips. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> jack pine mixed conifer <u>Regen:</u></p> <p><u>Other</u> Idea of strip cuts as a result of concerns about flooding out stand. Trees left will also help seed in stand. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><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
107 63095020.26_Monitor	17.7	3302 - Low Density Conifer Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> jack pine with mixed deciduous <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/11/2017</p>										
20 63095020-Cut	28.7	42220 - Natural Jack Pine	Poletimber Well	65	111-140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut, leave a few islands, have logger scarify while cutting to encourage regen. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Mix of pine and deciduous <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
23 63095023-Cut	14.1	42290 - Natural Mixed Pine	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Clear cut all species leaving some islands and natural wet areas. Only cut red pines that are over 10 inch dbh. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> A mix of conifer species with red maple and aspen. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><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>26 63095026-NF</b>	153.4	500 - Water	Nonstocked		Unspecified	NonForestMgt	Water Level Management	6239 - Mixed Emergent Wetland		No
<p><u>Prescription</u> Manipulate water levels for habitat.  <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>										
<b>30 63095030-Cut</b>	5.4	42290 - Natural Mixed Pine	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut leave pine less than 10 inch dbh also leave a few islands  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Mix of pine and deciduous  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>31 63095031-Cut</b>	66.2	42290 - Natural Mixed Pine	Sawtimber Well	65	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	42141 - Planted Mixed Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Patch and or strip cut stand. Roughly 50 percent being taken this YOE with the rest being cut the following YOE. No retention within patch or strips.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Mix of pine and deciduous  <u>Regen:</u>  <u>Other</u> Patch or strip cut as a result of concerns about flooding out stand.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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32	63095032-Other	1.0	31021 - Cool Season Grass	Nonstocked	0	Unspecified	Other	Other	310 - Herbaceous Openland	No
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Prescription Deadhorse Flooding Dike. This is maintained in a shrub and tree free state for safe operation. Mechanical and Chemical vegetation treatments as well as mowing.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

34	63095034-Cut	5.4	42220 - Natural Jack Pine	Sawtimber Well	64	51-80	Harvest	Clearcut with Retention	42220 - Natural Jack Pine	Even-Aged	No
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Prescription Clear cut what you can, some wet spots will naturally be left out

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mix of pine  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

35	63095035-Cut	62.6	42290 - Natural Mixed Pine	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
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Prescription Clear cut all species leaving some islands and natural wet areas. Only cut red pines that are over 10 inch dbh.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mix of pine and deciduous  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	<b>46 63095046-NF</b>	6.2	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription</u> Keep open. Mow. Cut brush and trees as needed. May plant shrubs, mast producing trees as well as grasses and forbs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></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>											
	<b>49 63095049-Cut</b>	106.1	42220 - Natural Jack Pine	Poletimber Well	70	81-110	Harvest	Clearcut	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut strips, no retention as only portion of stand being cut. (See comments below)</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 Regen:</u> Mix of pine and deciduous</p> <p><u>Other Comment:</u> Sale already under contract 63-085-11-01. 2011 set up sale that producer turned in, sale was then rebid back out in 2016 and brought by precision forestry. As of 2019 sale has still not been cut.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 6 /25/2019</p>											
	<b>50 63095050-Cut</b>	15.5	42210 - Natural Red Pine	Poletimber Well	60	81-110	Harvest	Low Thinning	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin out red pine remove defect and suppressed to around 60-70 ba Take all white pine over 10 inch dbh</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 Regen:</u> Red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
	<b>53 63095053-Cut</b>	12.8	42210 - Natural Red Pine	Poletimber Medium	60	81-110	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Cut all red pine over 10 inch dbh. High water table is taking its toll</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 Regen:</u> Mixed pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 617.4

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Steve Eisele : Examiner

Compartment: 95  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions			
				5C	2G	2H	3J
77	77	0	0	Aspen	0		0
23	23	0	0	Herbaceous Openland			
387	332	0	54	Jack Pine	0	54	
42	7	0	35	Lowland Aspen/Balsam Poplar		19	16
14	0	0	14	Lowland Conifers		14	
135	1	0	134	Lowland Deciduous		134	0
477	477	0	0	Lowland Shrub		0	0
169	169	0	0	Mixed Upland Deciduous			
515	508	0	7	Natural Mixed Pines		0	7
14	14	0	0	Northern Hardwood			
35	35	0	0	Red Pine		0	
8	8	0	0	Urban			
225	225	0	0	Water			
2,120	1,875	0	244	Total Forested Acres	0	167	77
	88%	0%	12%	Relative Percent			

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand is a mix of balsam fir and aspen/red maple. No evidence of impact due to SBW and is easy to monitor due to close proximity to county road.</p>							
2	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Steve Eisele : Examiner

Compartment: 95  
Year of Entry: 2021

3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Steve Eisele : Examiner

Compartment: 95  
Year of Entry: 2021

8	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	77	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4130 - Aspen	Sapling Well	30.2	17	1-50	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling/Pole	3		Red Oak	Low	5 - 10 feet	Sapling
White Oak		10	Pole/Log	8		Balsam Fir	Low	< 5 feet	Sapling
Black Cherry		10	Sapling/Pole	3		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Bigtooth Aspen		30	Sapling/Pole	3	17	White Pine	Low	< 5 feet	Sapling
Quaking Aspen		30	Sapling/Pole	3	17				
Balsam Fir		10	Sapling/Pole	3					
2	6113 - Lowland Maple	Sawtimber Well	9.8	91	81-110	N/A	ox bow runs through middle of stand. along Muskegon river		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		60	Log	10	91	Red Maple	Low	< 5 feet	Sapling
White Ash		40	Log/Pole	10		White Ash	Low	5 - 10 feet	Sapling
3	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	25.9	61	51-80	N/A	upland balsam fir with maple clumps and aspen. seasonaly wet areas		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		30	Sapling/Pole	4		Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen		20	Pole/Sapling	5		Tag Alder	Low	10 - 20 feet	Tall Shrub
Balsam Fir		30	Pole	5	61	White Ash	Low	5 - 10 feet	Sapling
						Balsam Fir	Low	5 - 10 feet	Sapling
4	42220 - Natural Jack Pine	Sapling Poor	26.3	10	51-80	N/A	Cut with stand 81 in neighboring comp		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		15	Sapling	2		Red Maple	Medium	5 - 10 feet	Sapling
Jack Pine		85	Sapling	2	10	Jack Pine	Medium	< 5 feet	Sapling
5	6123 - Lowland Fir	Poletimber Medium	13.5	51	1-50	N/A	many dead snags, cat-tails,		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Log	8		Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir		60	Pole/Sapling	6	51	Black Ash	Low	5 - 10 feet	Sapling
Black Ash		10	Pole/Sapling	6		Alder	Low	5 - 10 feet	Tall Shrub
Rock Elm		20	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
6	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	22.6	91	51-80	N/A	Ox bow area very wet, no access		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Log	8	46	Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen		10	Pole	6		Black Ash	Low	5 - 10 feet	Sapling
Balsam Fir		40	Pole/Sapling	5		Musclewood/Hornbeam	Low	10 - 20 feet	Sapling
Swamp White Oak		40	Log	10	91	Alder	Low	5 - 10 feet	Tall Shrub
						Balsam Fir	Medium	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
7	622 - Lowland Shrub	Nonstocked	9.0		Unspecified	No	This is a true L type with alder. Nellsville Drain runs through the middle. South end is a long beaver dam with dams also in the Nellsville drain.																																									
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8	42110 - Planted Red Pine	Poletimber Well	5.4	66	81-110	N/A	Planted red pine strips/windbreak along jeffs road																																									
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10	6112 - Lowland Aspen	Sapling Well	7.3	16	Unspecified	N/A	stand was a habitat cut																																									
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11	42220 - Natural Jack Pine	Poletimber Well	10.5	62	51-80	N/A	No access to stand. Beaver dams all along the Nellsville drain																																									
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12	42290 - Natural Mixed Pine	Poletimber Well	26.2	45	Unspecified	N/A	Islands of mixed conifer. Leave until next time.																																									
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13	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	91.6	46	1-50	N/A	low density trees with hummocky ground and leather leaf																																									
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14	122 - Road/Parking Lot	Nonstocked	7.6		Unspecified	No	Jeffs Rd.																																																		
15	4130 - Aspen	Poletimber Well	2.4	61	Unspecified	N/A																																																			
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16	42220 - Natural Jack Pine	Poletimber Well	102.0	71	111-140	N/A	Wet areas hummocky ground																																																		
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17	6112 - Lowland Aspen	Poletimber Well	19.2	61	51-80	N/A	A real mix of species but very wet																																																		
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18	6112 - Lowland Aspen	Poletimber Well	15.8	54	1-50	N/A	ridge in middle of lowland marsh area. no access wet all around																																																		
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19	6113 - Lowland Maple	Sawtimber Well	76.5	91	81-110	N/A	Flood plain along the river																																																		
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20	42220 - Natural Jack Pine	Poletimber Well	29.8	65	111-140	N/A	stand is a natural jack pine with scattered cherry, red maple and oaks																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	622 - Lowland Shrub	Nonstocked	56.0		Unspecified	No	Large complex of wet hummocky ground with alder and low areas
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Cattail spp.		Medium		Non-Wood	
		Alder		Medium		Tall Shrub	
22	500 - Water	Nonstocked	41.5		Unspecified	No	Beaver activity
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Cattail spp.		Low		Non-Wood	
		Alder		Medium	5 - 10 feet	Tall Shrub	
		White Pine		Low	5 - 10 feet	Sapling	
23	42290 - Natural Mixed Pine	Sawtimber Well	14.1	80	81-110	N/A	Clear cut, leave red pine under 10 inch dbh leave some islands for retention
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Pole	6		Red Maple	
Jack Pine		50	Pole/Log	8	80	Jack Pine	
Bigtooth Aspen		10	Pole	7		Northern Pin Oak	
Red Pine		30	Pole/Log	8			
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Red Maple		High	5 - 10 feet	Sapling	
		Jack Pine		Low	< 5 feet	Sapling	
		Northern Pin Oak		Low	< 5 feet	Sapling	
24	622 - Lowland Shrub	Nonstocked	85.6		Unspecified	No	Tag alder swamp with scattered pine and aspen pockets Large complex like stand 21
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Tag Alder		High	Unspecified	Tall Shrub	
		Jack Pine		Low	5 - 10 feet	Sapling	
		Northern Pin Oak		Low	5 - 10 feet	Pole	
25	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	48.7	68	81-110	N/A	Mix of species and lower quality treat next year of entry
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Pole/Sapling	6		Red Maple	
Red Oak		20	Log	11	90	White Oak	
Red Pine		10	Log	10		White Pine	
Jack Pine		20	Pole	7			
White Pine		40	Pole/Log	9	68		
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Red Maple		Low	10 - 20 feet	Sapling	
		White Oak		Low	5 - 10 feet	Sapling	
		White Pine		Low	10 - 20 feet	Sapling	
26	500 - Water	Nonstocked	153.4		Unspecified	No	Dead Horse Creek Now more of a marsh Dam at south end with drain pipe
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Tag Alder		Low		Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**27** 42260 - Natural Pine, Mixed Deciduous Poletimber Well 97.3 60 81-110 N/A A good mix of species some wet spots

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	7		Red Maple	Medium	5 - 10 feet	Sapling
White Pine	40	Log	10	60	White Pine	Medium	5 - 10 feet	Sapling
Red Pine	20	Pole/Log	9		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Jack Pine	10	Pole	7	58				
Black Cherry	10	Pole	7					
Bigtooth Aspen	10	Pole	7					

**28** 3102 - Grass Nonstocked 12.5 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Trace		Pole
Black Cherry	Low	< 5 feet	Sapling

**29** 42221 - Natural Jack Pine, Mixed Deciduous Sapling Well 59.8 17 Immature N/A Cut in 02 came back thick

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling/Pole	4		Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
White Pine	10	Sapling/Pole	4		Jack Pine	High	< 5 feet	Sapling
Jack Pine	60	Sapling/Pole	4	17	White Pine	Medium	< 5 feet	Sapling
Black Cherry	10	Sapling/Pole	4		Black Cherry	Medium	< 5 feet	Sapling
					Witch Hazel	Medium	5 - 10 feet	Tall Shrub

**30** 42290 - Natural Mixed Pine Sawtimber Well 5.4 80 81-110 N/A Clear cut, leave red pine under 10 inch dbh leave some islands for retention

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Red Maple	High	5 - 10 feet	Sapling
Jack Pine	50	Pole/Log	8	80	Jack Pine	Low	< 5 feet	Sapling
Bigtooth Aspen	10	Pole	7		Northern Pin Oak	Low	< 5 feet	Sapling
Red Pine	30	Pole/Log	8					

**31** 42290 - Natural Mixed Pine Sawtimber Well 130.8 65 81-110 N/A Scheduled last time to cut, never got harvested Cut stand to the south at same time in comp 96 stand 34 same specs

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	30	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
Jack Pine	40	Log/Pole	9	65	Jack Pine	Low	5 - 10 feet	Sapling
White Pine	10	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling
Red Maple	10	Pole	7					
Bigtooth Aspen	10	Pole	7					

**32** 31021 - Cool Season Grass Nonstocked 1.0 0 Unspecified Managed Opening Deadhorse Dike



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
33	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	119.9	17	Immature	N/A	stand was clear-cut last entry. regenerating well.																																									
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34	42220 - Natural Jack Pine	Sawtimber Well	5.4	64	51-80	N/A	wet with drainage through middle																																									
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35	42290 - Natural Mixed Pine	Sawtimber Well	62.6	80	81-110	N/A	Clear cut, leave red pine under 10 inch dbh leave some islands for rentention																																									
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36	622 - Lowland Shrub	Nonstocked	74.2		Unspecified	No	Marshy																																									
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37	42290 - Natural Mixed Pine	Poletimber Well	7.2	60	Unspecified	N/A	stand is an island in the dead Horse flooding.																																									
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38	3102 - Grass	Nonstocked	3.7		Unspecified	Managed Opening	managed rye field																																									
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39	622 - Lowland Shrub	Nonstocked	0.8		Unspecified	No																																										
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40	500 - Water	Nonstocked	30.6		Unspecified	No																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
42	4132 - Aspen, Jack Pine	Poletimber Well	22.8	44	Unspecified	N/A	Aspen mixed with jack pine growing along edge of forest road on higher ground.																																			
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43	6126 - Lowland Jack Pine	Poletimber Poor	21.0	20	1-50	N/A																																				
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44	622 - Lowland Shrub	Nonstocked	46.5		Unspecified	No																																				
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45	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	43.9	68	51-80	N/A	Island/ridge in flooding. Surrounded by wet and Nellsville drain No access too wet MIFI wont allow me to put a site condition on it?																																			
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46	3102 - Grass	Nonstocked	6.2		Unspecified	Managed Opening	Maintained opening by wildlife																																			
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48	622 - Lowland Shrub	Nonstocked	7.9		Unspecified	No	stand has been cut by wildlife now a true L type																																			
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49	42220 - Natural Jack Pine	Poletimber Well	88.1	70	81-110	N/A	Was scheduled to be cut last time, still has painted strips in some spots																																			
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50	42210 - Natural Red Pine	Poletimber Well	16.3	60	81-110	N/A	Natural red pine stand thin out defect down to around 60-70 ba																																										
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51	622 - Lowland Shrub	Nonstocked	45.3		Unspecified	No	Dead Horse creek runs through middle of stand.																																										
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52	622 - Lowland Shrub	Nonstocked	147.4		Unspecified	No	Large swamp/wetland complex that extends well into Roscommon County.																																										
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53	42210 - Natural Red Pine	Poletimber Medium	12.8	60	81-110	N/A	Has been cut in the past but pine is dying due to high water table																																										
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54	4130 - Aspen	Sapling Well	21.4	19	1-50	N/A																																											
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56	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	80.1	58	51-80	N/A	Mix of jack, red and white pine with some low wet areas. Look at cutting next time																																										
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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>	4113 - R.Maple, Conifer	Poletimber Well	13.6	21	81-110	N/A	Wet mix
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Pole	8	62	Jack Pine	Low	< 5 feet	Sapling
Red Maple	70	Pole/Sapling	5	21	Tag Alder	Low	10 - 20 feet	Tall Shrub
Red Oak	10	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling
Jack Pine	10	Pole/Sapling	6		White Pine	Low	5 - 10 feet	Sapling