



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63093

Entry Year 2026

Acreage: 2,897

County Missaukee

Management Area: High Sand Plains

**Stand Examiner:** Andrew Krugh

## Legal Description:

T23N R5W, Sections 24-29 31, 35, & 36

## Identified Planning Goals:

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

## Soil and topography:

Ribicon-Montcalm-Grayling sands. Lupton Tawas associtaions. Majority of the compartment is level and poorly drained.

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

Mixed blocks of State and private ownership. Private lands are a combination of seasonal hunting with some small agricultural use. Wet soils and limited roads have kept the area relativley undeveloped.

## Unique Natural Features:

Reedsburg dam and flooding area have created a wide array of diverse bird and aquatic species.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## Special Management Designations or Considerations:

Maintain integrity of the area by keeping vehicle access to a minimum. Keep roads bermed and closed on the west side of Reedsburg flooding.

## Watershed and Fisheries Considerations:

Protect and restore if necessary natural vegetation along all waterbodies in the watershed. Adhere to all buffers and Best Management Practices in wet areas.

## Wildlife Habitat Considerations:

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

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and fine textured glacial till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Mississippian Michigan Formation and Bayport Limestone. The Michigan Formation for quarried gypsum and the Bayport Limesone for other areas of the State. A gravel pit is located in section 11 and there may be potential. Enterprise Field is located to the north. The field has produced over 4.7 million Bo and 2.3 Bef gas from the Devonian Richfield Formation. It is in secondary recovery operations currently. The compartment is currently leased for oil and gas development.

## Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest

roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Reedsburg Dam Forest Campground and day use area are within this compartment. Recommend local Parks & Recreation Division staff, along with local Wildlife Division staff work with local Forest Resource Division staff to assess trees in these recreation based areas for potential removal. Removing undesirable trees during the winter or off-season via a small timber sale may have some merit. 2.5 miles of snowmobile trail (#6/7) tracks along the south and east sides of the compartment. Trail protection specifications should be included in any timber sales potentially impacting the the snowmobile trail. Dispersed hunting and fishing along the Muskegon River are common recreational activities. (T.M.N. 3/14)

**Fire Protection:**

The areas of conifer fuel types can cause suppression concerns. Access with suppression equipment maybe limited on the west side of Reedsburg Dam Pond. With roads and 2 tracks being closed, unattended dispersed campfires can go undetected.

**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**

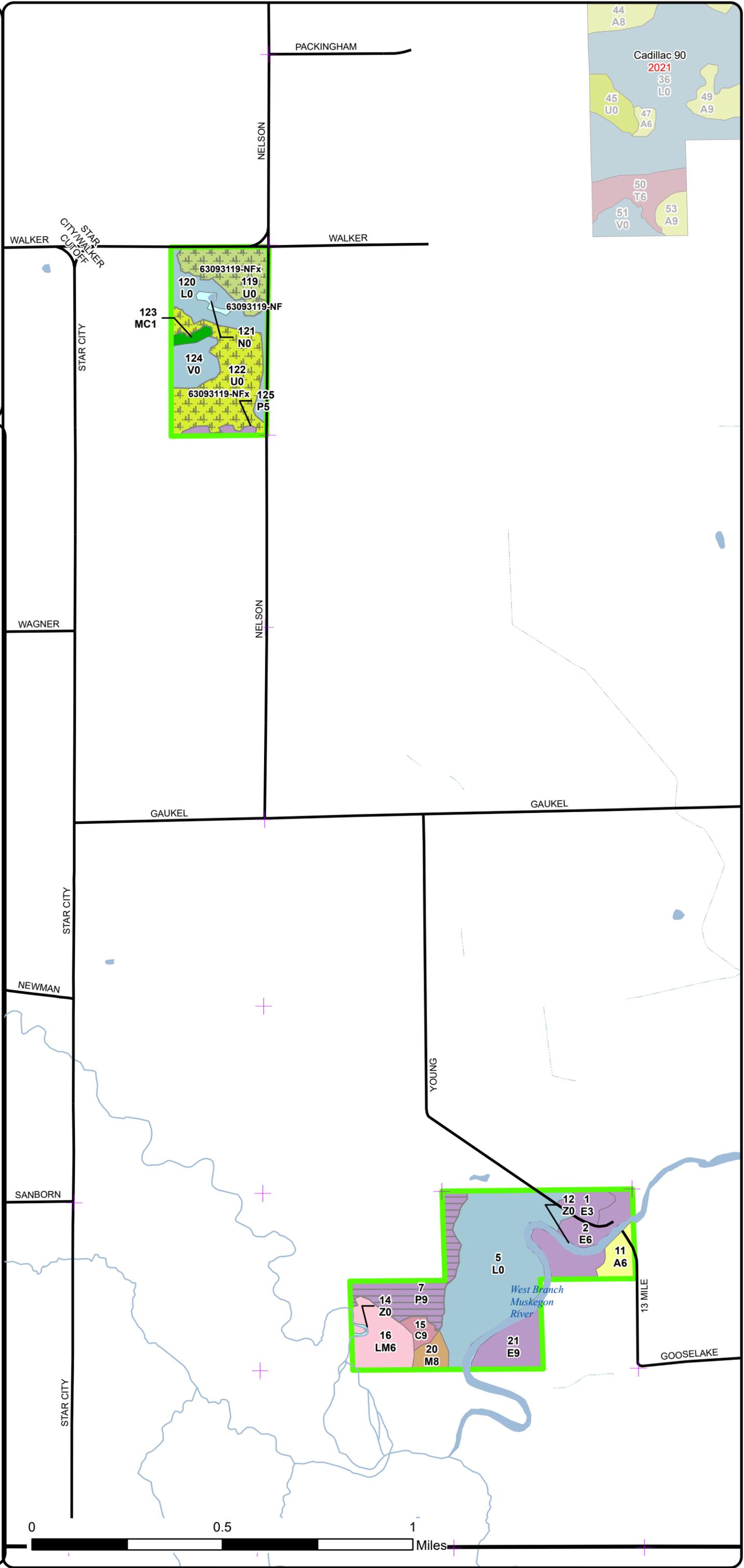
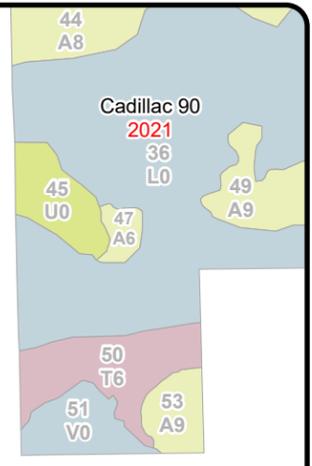
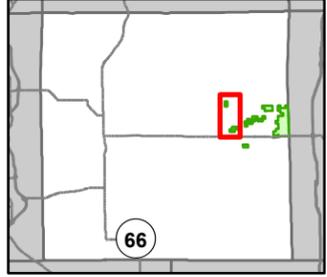
The following information is displayed, where pertinent, on the attached compartment maps:

- 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: 63093  
 T23N, R5W, Sec: 22-29, 31, 35, 36  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt Area: High Sand Plains  
 YOY: 2026  
 Acres: 2897.1 GIS Calculated  
 Examiner: Andrew Krugh  
 Map Revised: 7/18/2024  
 Map Phase: Web Post

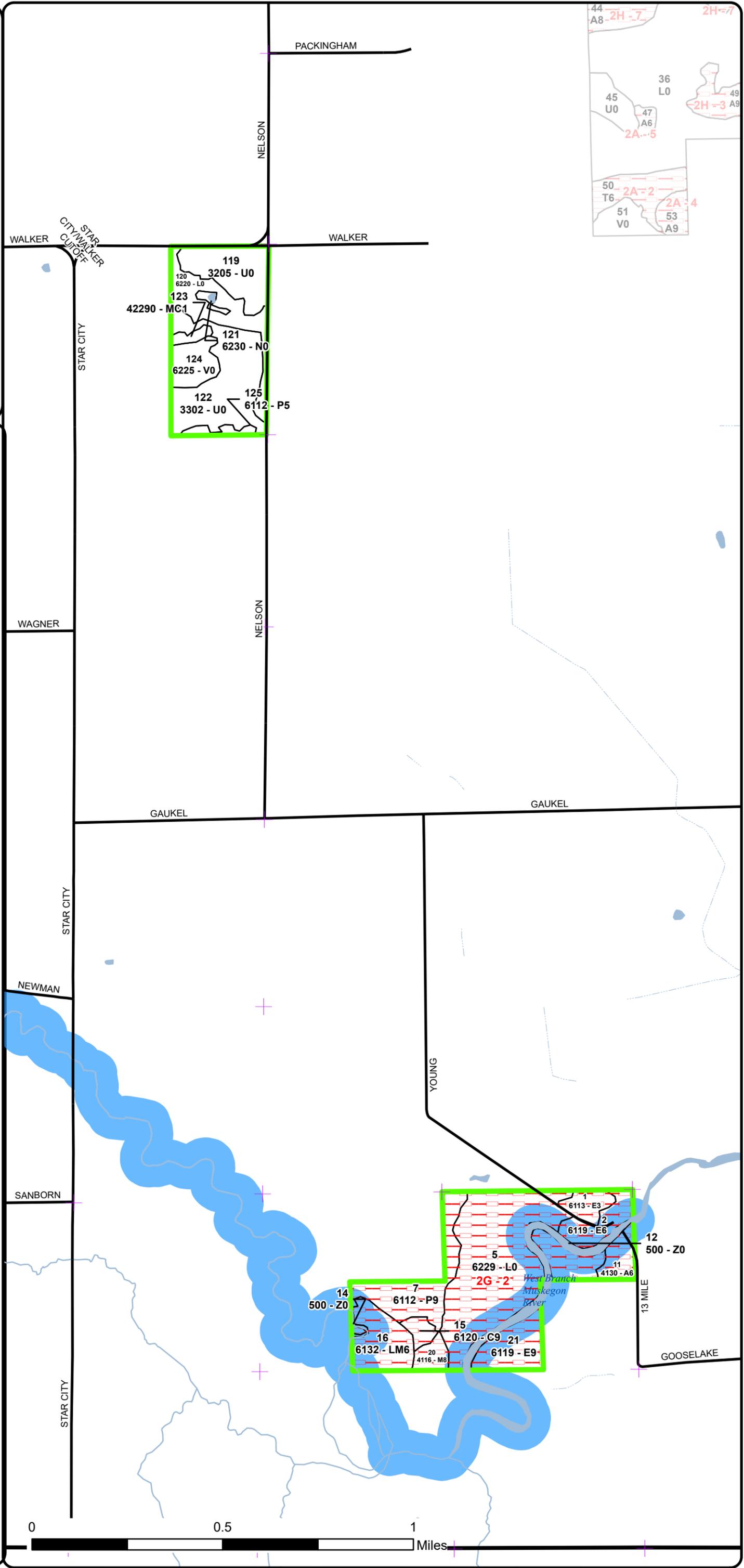
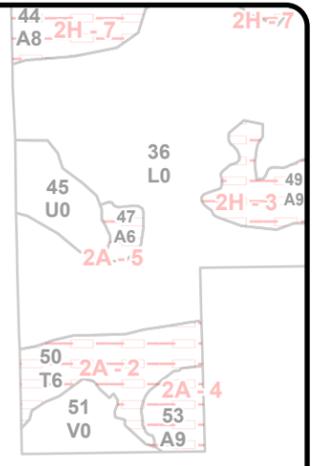


- + Remonumented Section Corners
- Federal / State Highway
- Federal / State / County - Paved Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Counties
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

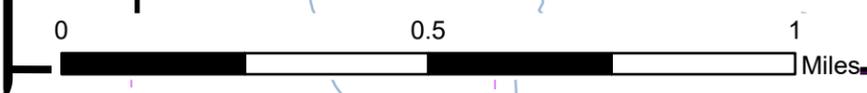


# Special Conservation Areas & Site Conditions Map

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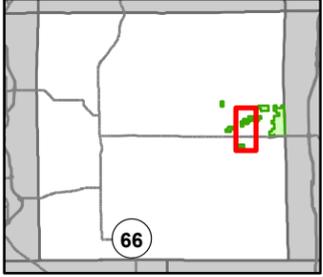


- ⊕ Remonumented Section Corners
- Federal / State Highway
- Federal / State / County - Paved Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Counties
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- Unavailable
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

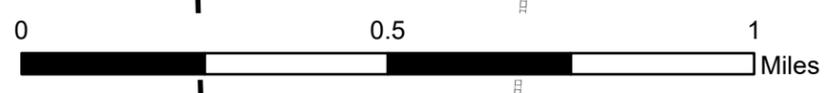
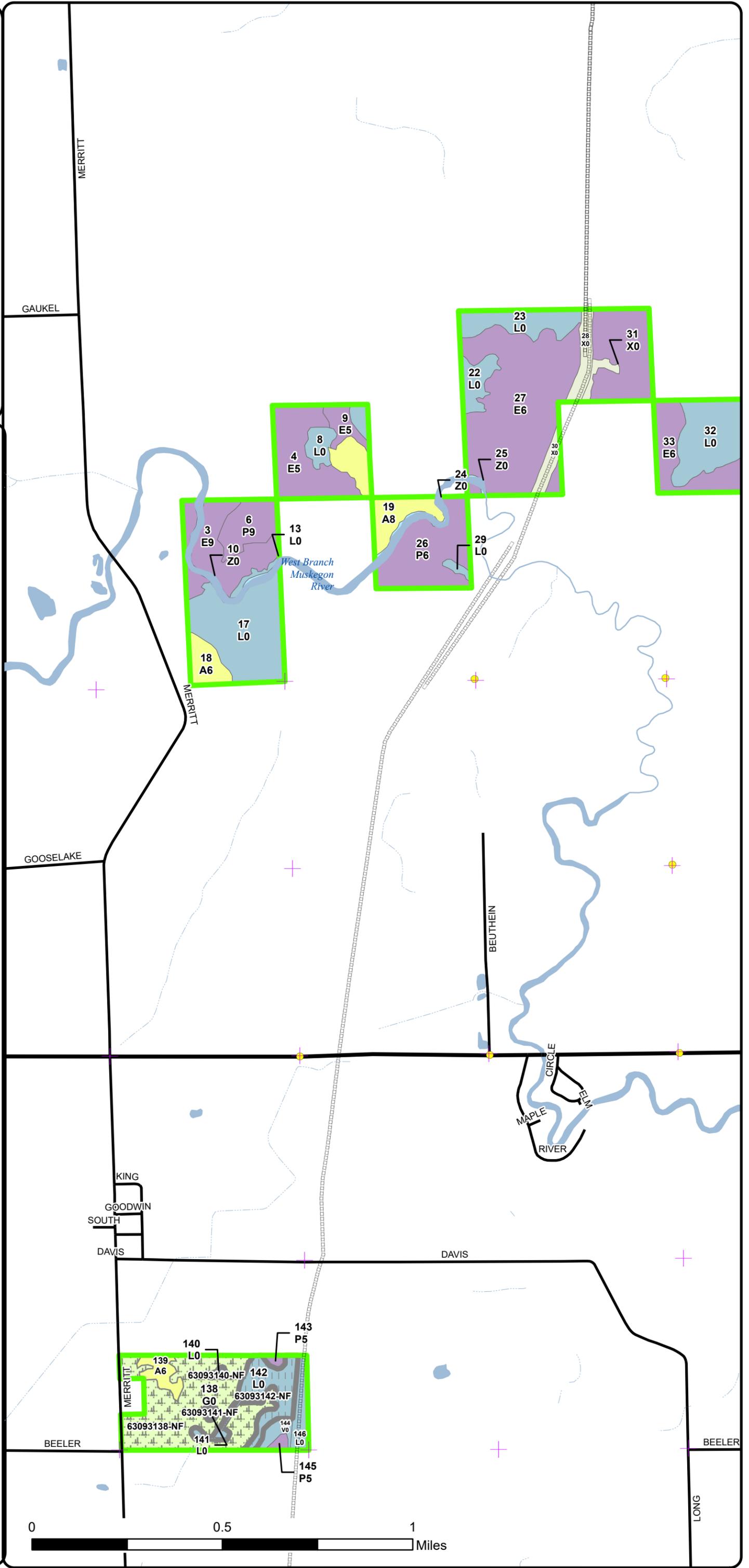


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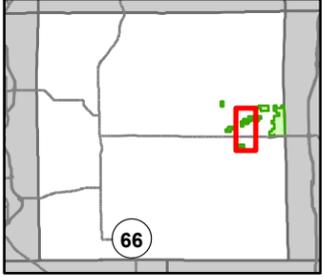
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- Survey Grade Corners
- Federal / State Highway
- Federal / State / County - Paved Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Pipeline
- Counties
- Compartment Boundary
- Other Treatment - See Comments
- Opening Maintenance
- 413 - Aspen Types
- 611 - Lowland Deciduous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated



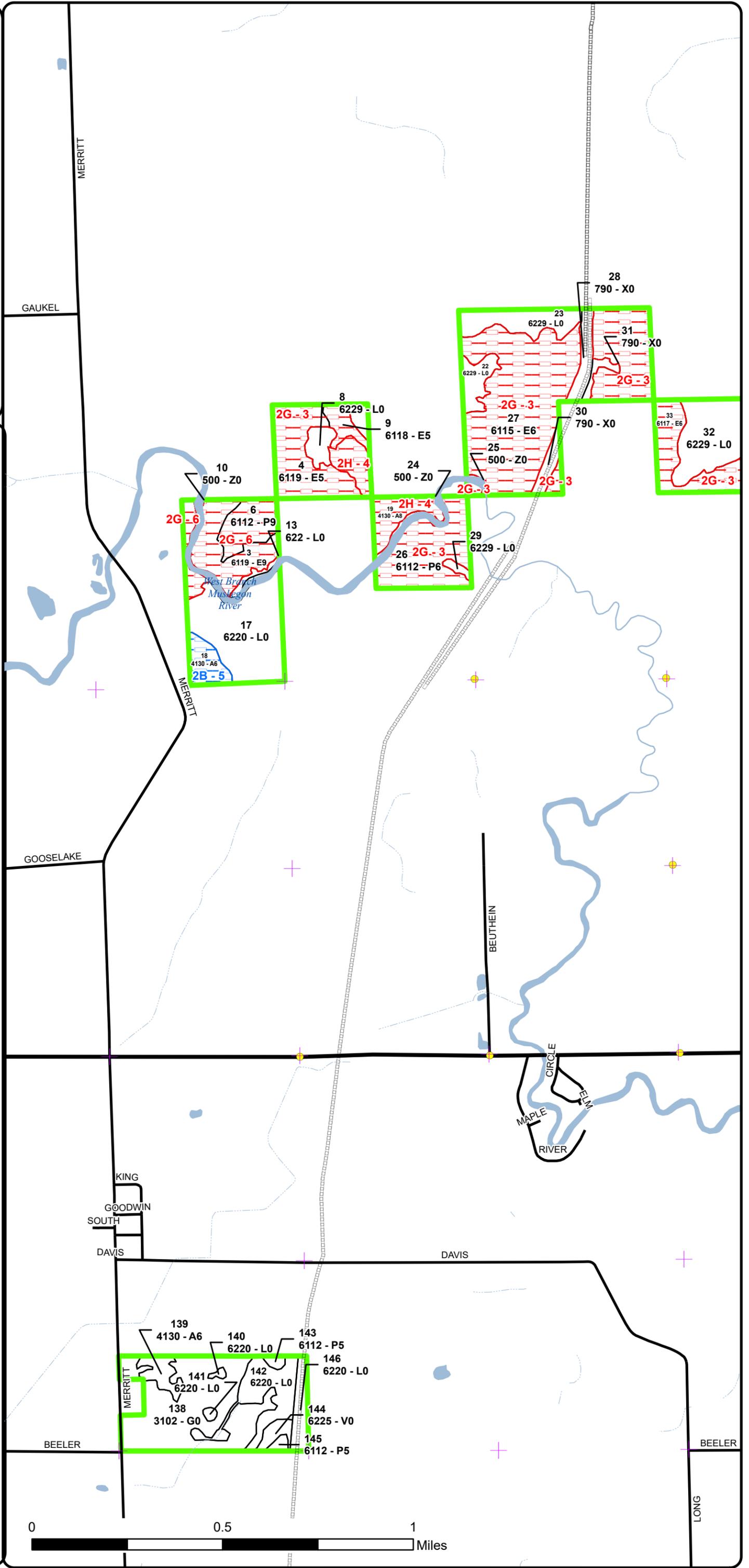


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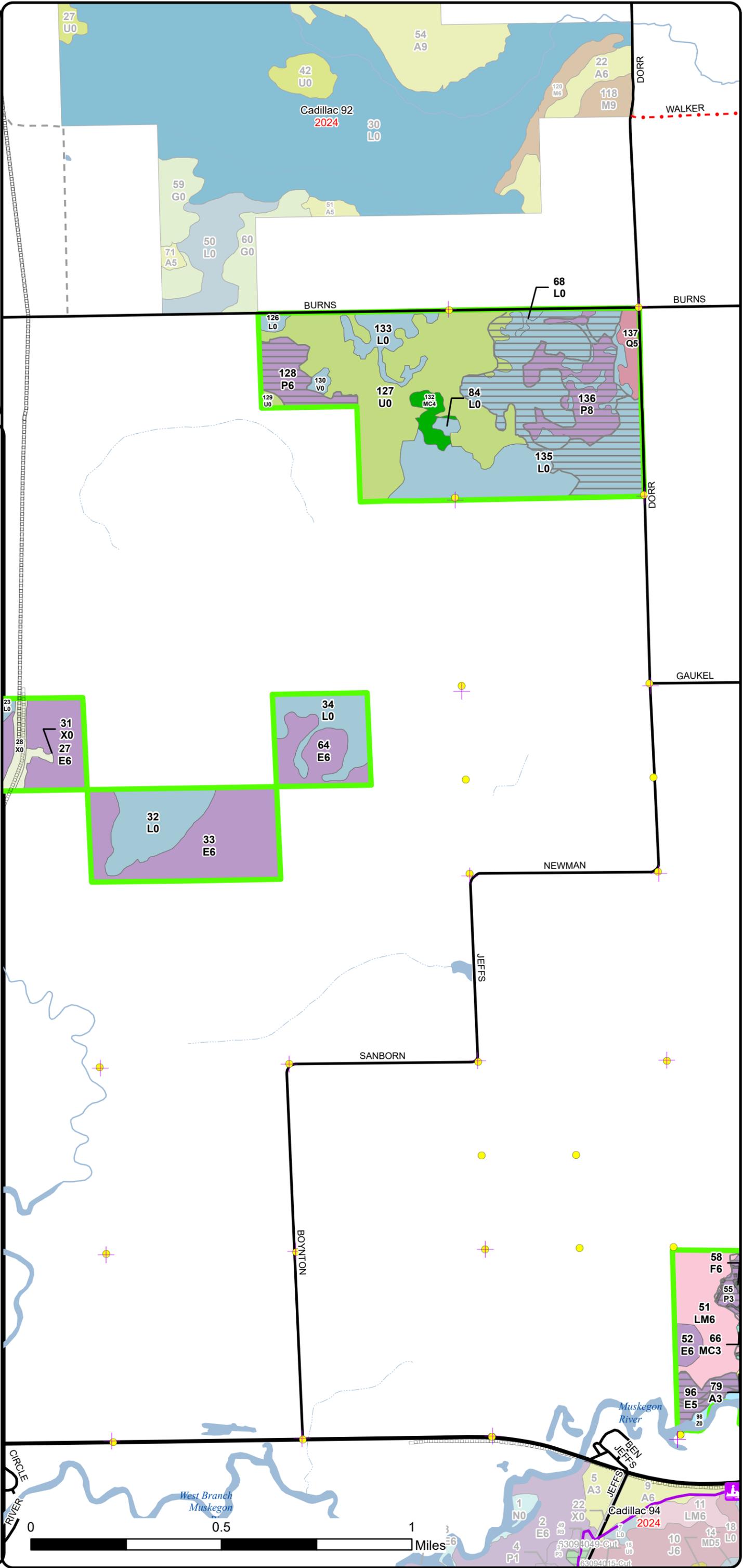


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- Survey Grade Corners
- Federal / State Highway
- Federal / State / County - Paved Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Pipeline
- Counties
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland)
- Stand Boundaries

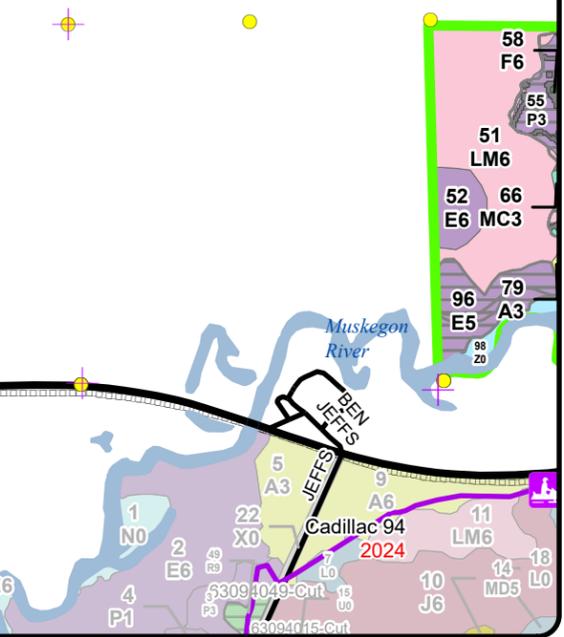
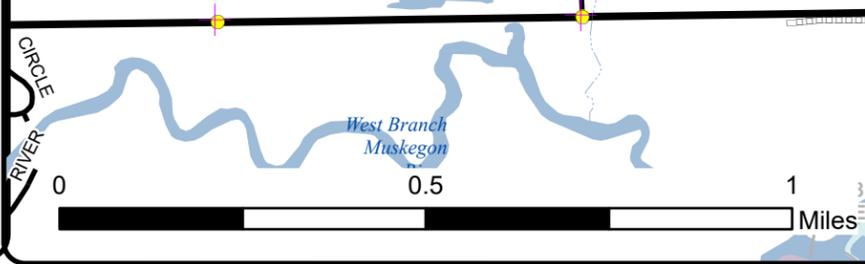


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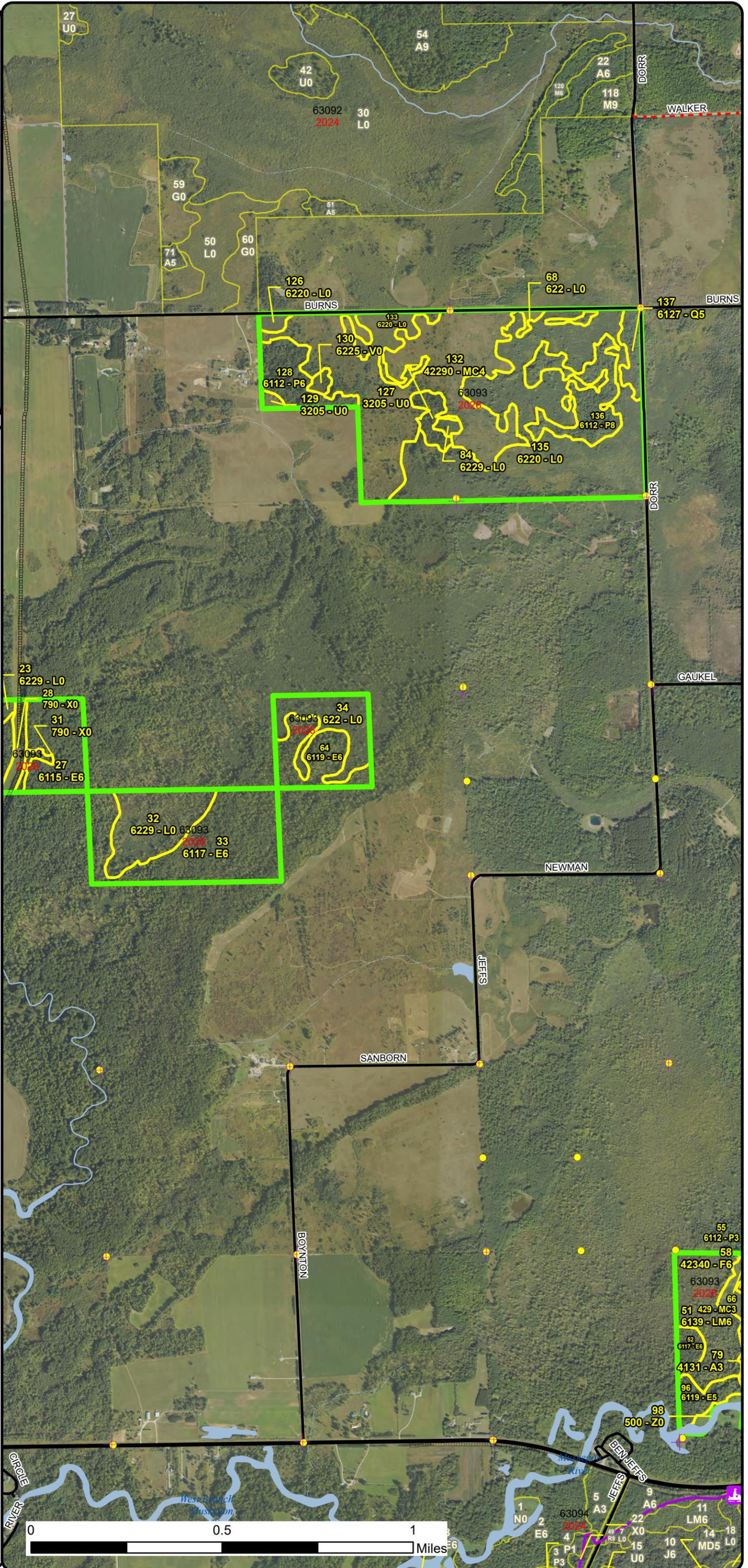


- Snowmobile Trails
- Designated Snowmobile Trails
- Remonumented Section Corners
- Survey Grade Corners
- Culvert
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
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- Clearcut (w/Reserves)
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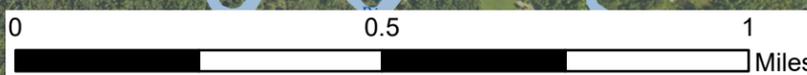


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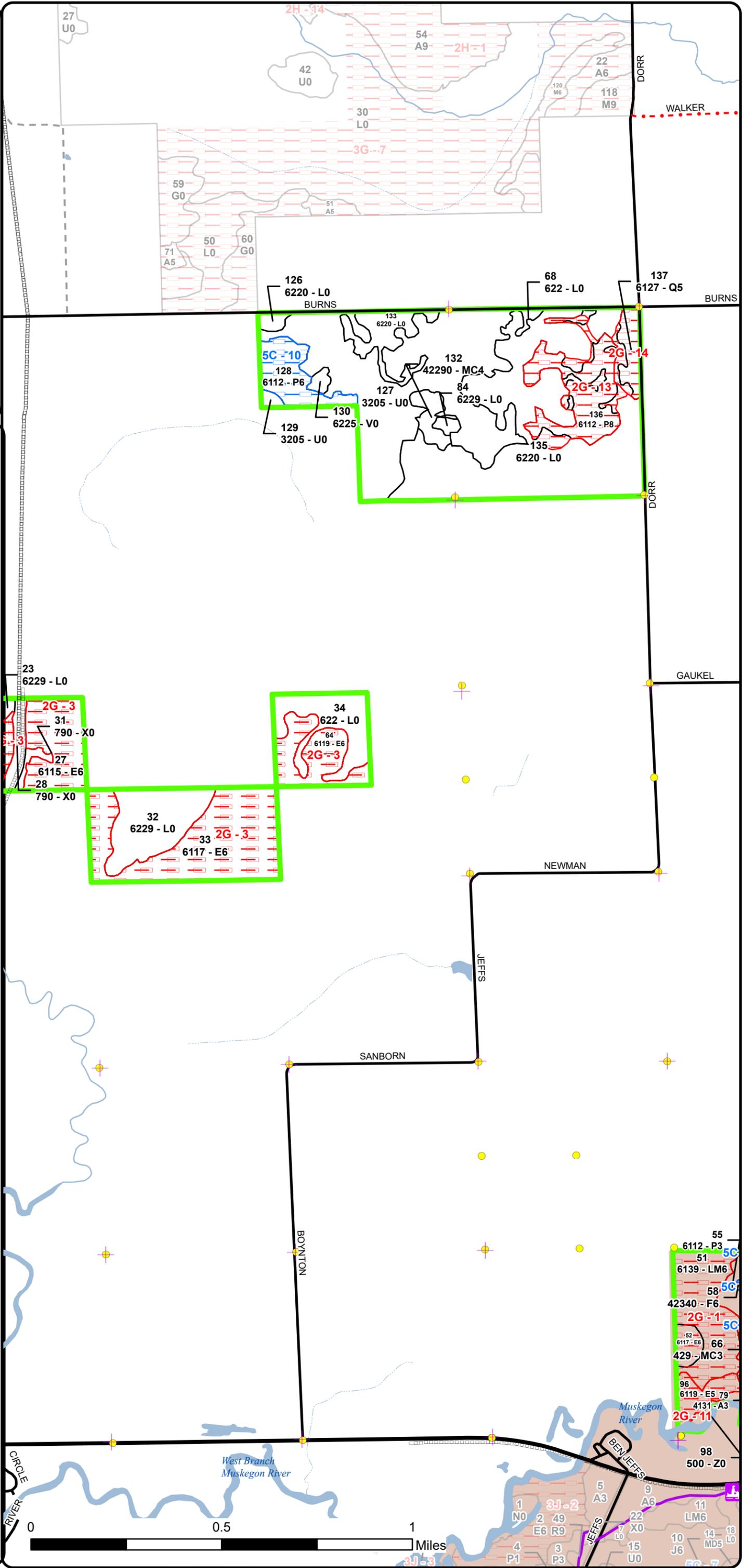


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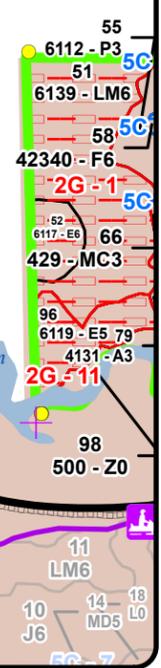


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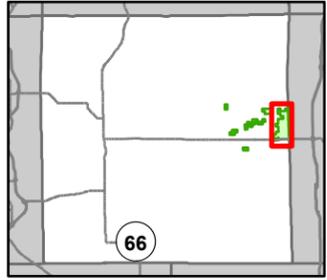


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- 5C: Delay treatment for age/size class diversity or exceptional site
- 2G: Too wet (sensitive soils, does not include access issues)
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- Stand Boundaries
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- Wildlife Research Areas

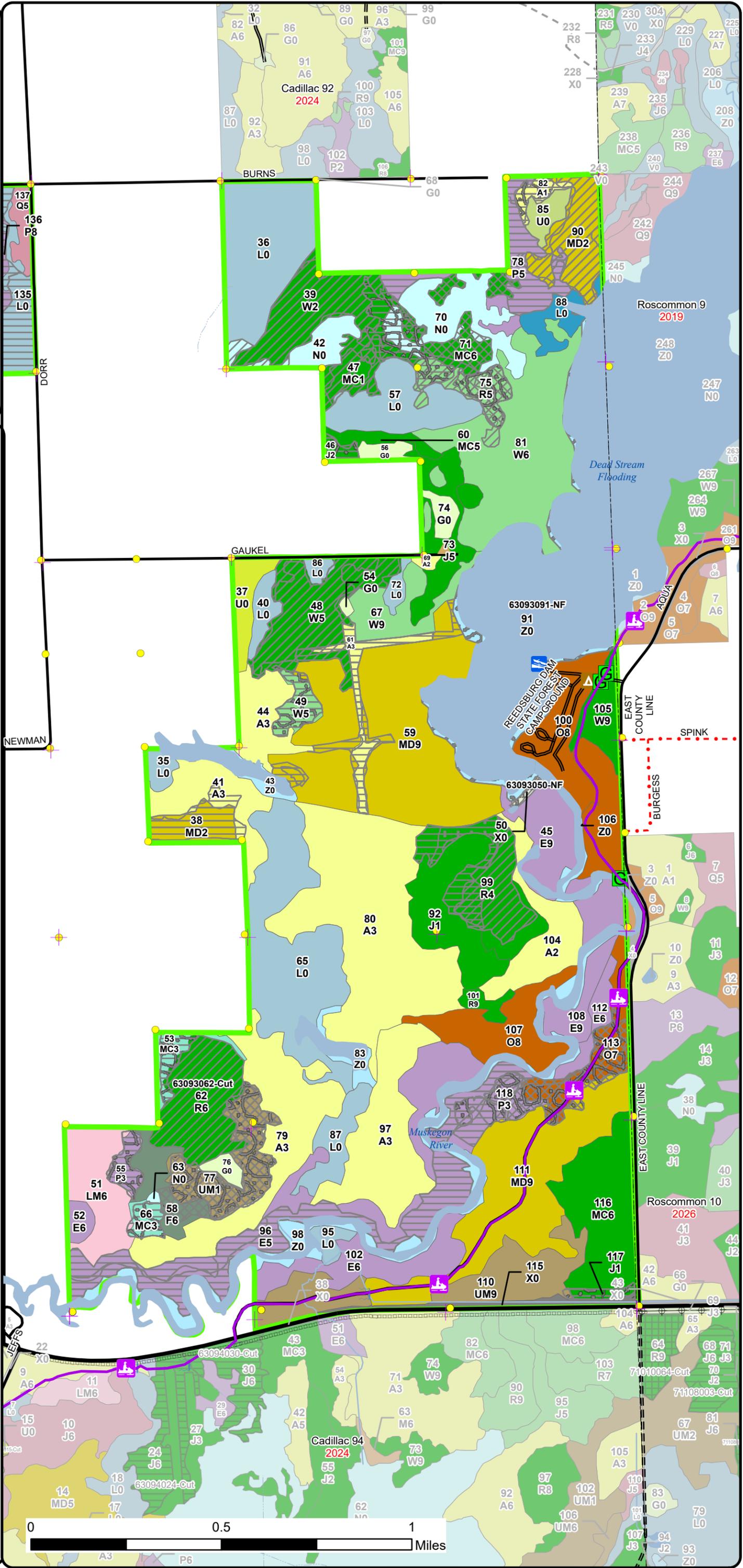


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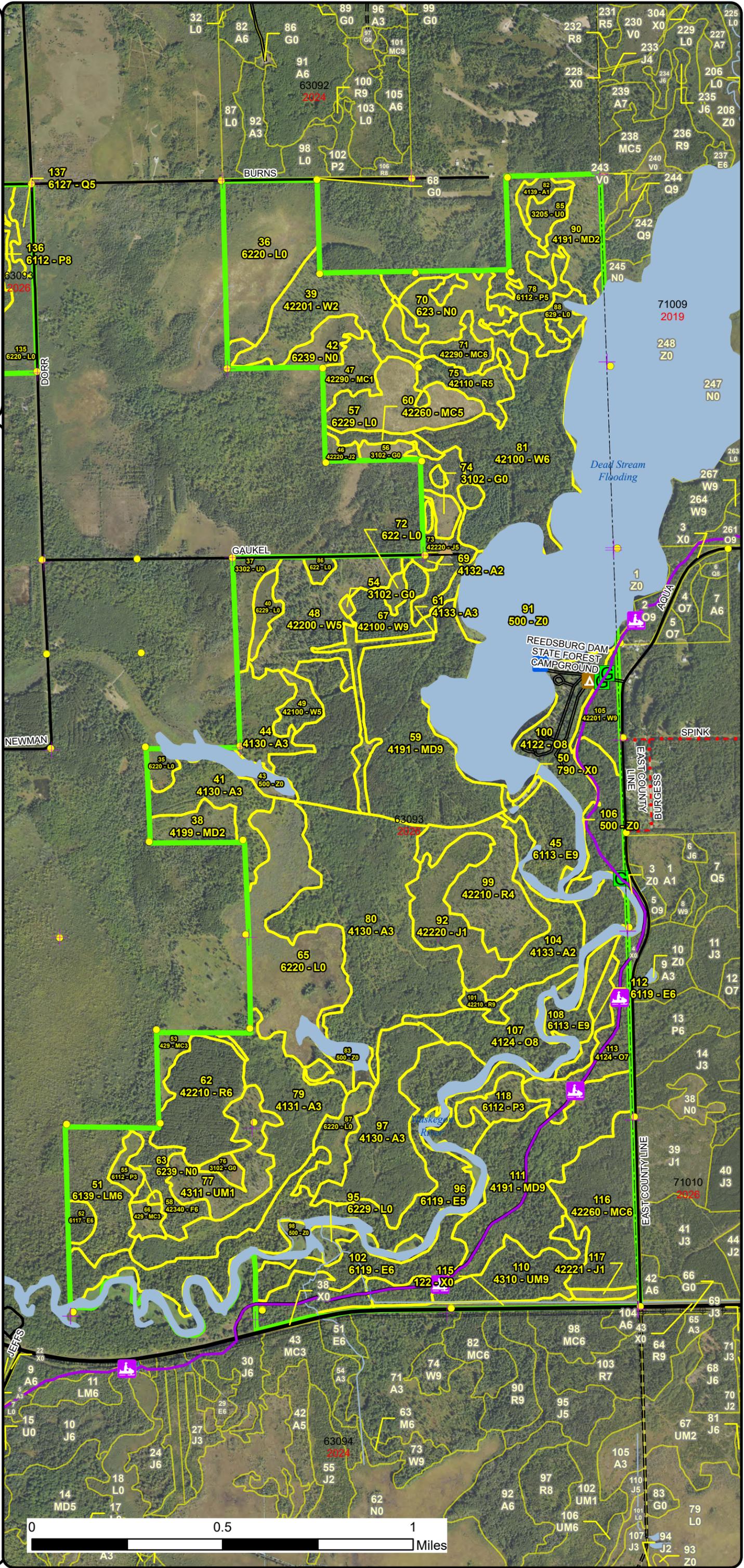
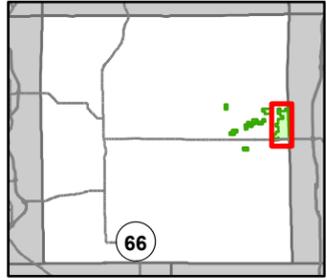


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- Water Level Management
- Clearcut (w/Reserves)
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- Selection (Group, Single Tree)
- Harvest, Overstory Removal
- Regeneration Survey
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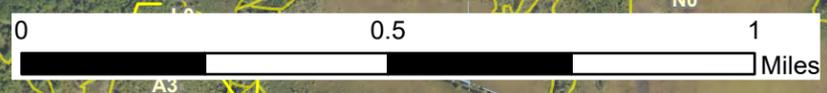


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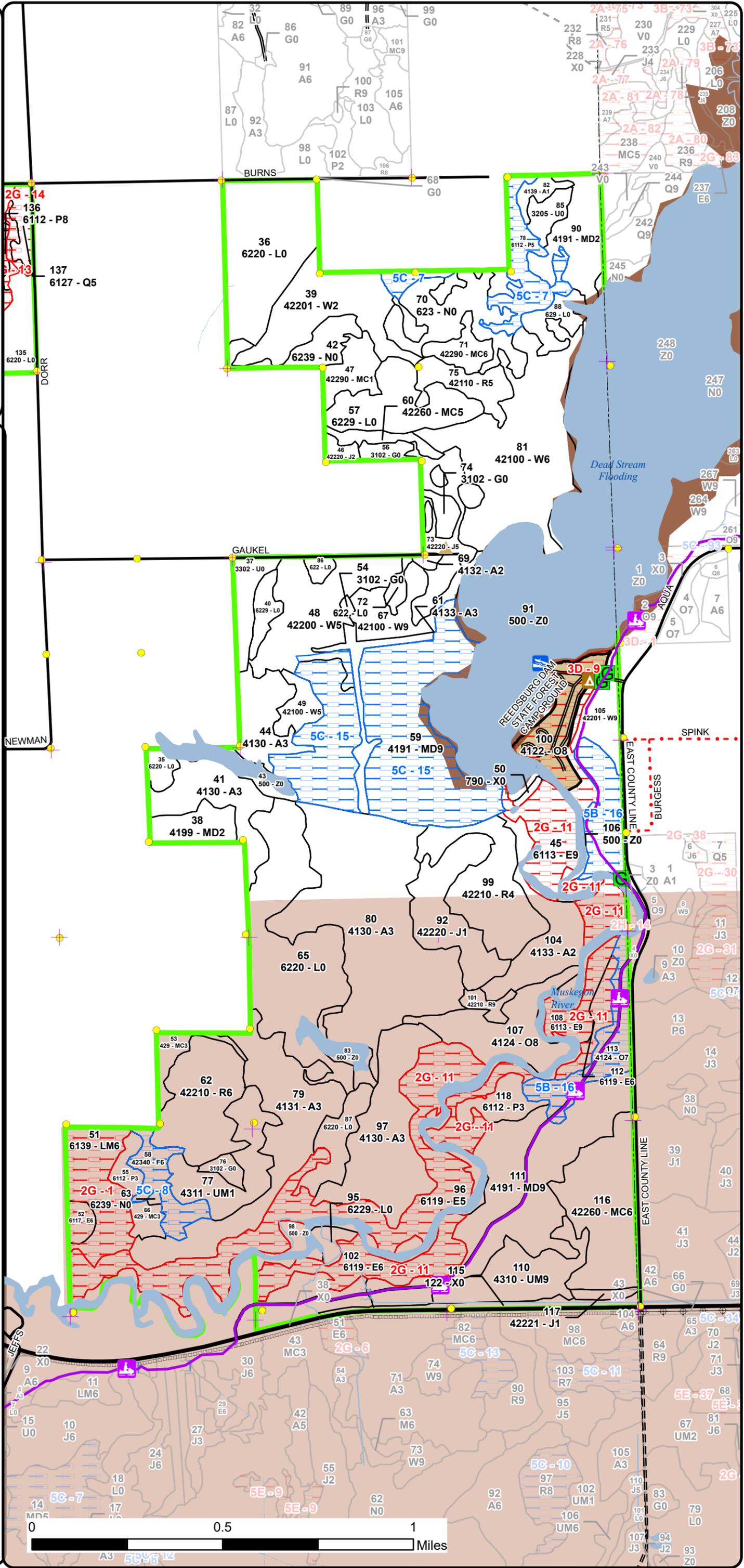
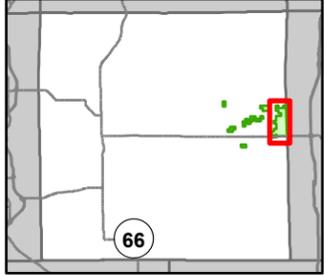


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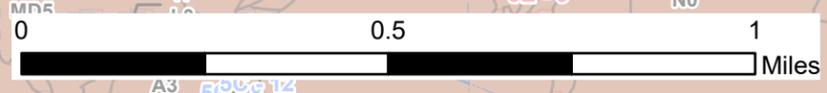


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- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Cold Water Lakes
- Wildlife Management Areas
- Wildlife Research Areas
- State Forest Campground



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

Cadillac Mgt. Unit

Compartment 93

Year of Entry 2026

Andrew Krugh : 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+	Unseen-Aged	Total
Aspen	0	16	129	55	110	0	7	0	0	15	0	0	0	0	0	0	0	5	335
Bare/Sparsely Vegetated	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Bog	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Cedar	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Herbaceous Openland	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Jack Pine	0	6	31	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Low-Density Trees	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Aspen/Balsam Poplar	0	16	0	0	0	0	53	0	46	11	0	0	0	0	0	0	0	15	141
Lowland Conifers	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Deciduous	0	0	6	0	0	0	0	166	65	39	5	0	0	0	0	0	0	137	417
Lowland Mixed Forest	0	0	0	0	0	0	0	29	15	0	0	0	0	0	0	0	0	0	43
Lowland Shrub	530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	530
Marsh	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Mixed Upland Deciduous	0	36	0	0	78	0	0	0	0	117	0	0	0	0	0	0	0	0	231
Natural Mixed Pines	0	12	0	53	2	0	0	0	16	0	0	0	0	0	0	0	0	6	89
Northern Hardwood	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Oak	0	0	0	0	0	0	0	0	30	0	43	0	29	0	0	0	0	0	102
Red Pine	0	0	0	0	0	0	14	37	42	0	0	0	0	0	0	0	0	0	93
Upland Conifers	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	70
Upland Shrub	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121
Upland Spruce/Fir	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	251	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	251
White Pine	0	38	0	0	83	0	0	61	8	0	0	0	0	0	0	0	0	14	203
<b>Total</b>	<b>1081</b>	<b>163</b>	<b>166</b>	<b>108</b>	<b>299</b>	<b>0</b>	<b>89</b>	<b>293</b>	<b>226</b>	<b>182</b>	<b>51</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>221</b>	<b>2900</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Compartment 93

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 2,897

Commercial Harvest - 35  
 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	Overshory Removal	Salvage	Other	Total Acres
Red Pine		0	0	0	0	35	0	0	0	0	35
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		35	0	0	0	0	0	0	0	277	313
	<b>Total</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>277</b>	<b>313</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
-----------------------	-------------------	-------	--------------------	-----------------	--------------	-------------	-------------------	---------------------	-------------------------	------------------	----------------

**Proposed Treatments:**

50	63093050-NF	1.1	790 - Other Bare/Sparsely Vegetated	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	790 - Other Bare/Sparsely Vegetated		No
----	-------------	-----	---	------------	---	-----------------	--------------	-----------------	---	--	----

Prescription Maintain rock layer on the north/upstream side of embankment as well as gravel top. At least annually mow the downstream side. Trees will  
Specs: be cut back from the toe of the dam.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

62	63093062-Cut	35.4	42210 - Natural Red Pine	Poletimber Well	62	171- 200	Harvest	Low Thinning	42210 - Natural Red Pine	Even-Aged	No
----	--------------	------	-----------------------------	--------------------	----	-------------	---------	--------------	-----------------------------	-----------	----

Prescription Thin stand to an average BA of 120. Winter harvest or dry summer cut only due to soil conditions to reach the stand.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

91	63093091-NF	167.4	500 - Water	Nonstocked		Unspec ified	NonForestMgt	Water Level Management	623 - Emergent Wetland		No
----	-------------	-------	-------------	------------	--	-----------------	--------------	---------------------------	---------------------------	--	----

Prescription This treatment will include stands in adjacent compartments in Roscommon County.  
Specs: Exact schedule to be determined by WLD.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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
-----------------------	-------------------	-------	--------------------	-----------------	--------------	-------------	-------------------	---------------------	-------------------------	------------------	----------------

119	63093119-NF	1.5	3205 - Mixed Upland Shrub	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
-----	-------------	-----	---------------------------	------------	--	--	--------------	-----------------	--------------------------------	--	----

Prescription Keep open through mechanical treatments. Block vehicle access maintaining a parking area.  
Specs: Till and/or plant native mix a possibility.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

122	63093119-NFx	47.7	3302 - Low Density Conifer Trees	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
-----	--------------	------	----------------------------------	------------	--	--	--------------	-----------------	--------------------------------	--	----

Prescription Keep open through mechanical treatments. Till and/or plant native mix.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

138	63093138-NF	43.9	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
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Prescription Periodically mow or burn to keep open. Cut trees and heavy brush. May till portions and plant native mix.  
Specs: Mow walking trail loop/loops.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
140 63093140-NF	0.5	6220 - Alder/willow	Nonstocked			NonForestMgt	Brush Cutting	6220 - Alder/willow		No
<p><u>Prescription</u> Cut larger stems. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										
141 63093141-NF	0.6	6220 - Alder/willow	Nonstocked			NonForestMgt	Brush Cutting	6220 - Alder/willow		No
<p><u>Prescription</u> Cut larger stems <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										
142 63093142-NF	14.5	6220 - Alder/willow	Nonstocked			NonForestMgt	Brush Cutting	6220 - Alder/willow		No
<p><u>Prescription</u> Cut larger stems. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										

**Total Treatment Acreage Proposed: 312.6**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Andrew Krugh : Examiner

Compartment: 93  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2B	5B	5C	2G	2H	3D
335	306	7	22	Aspen	7		0	6	15	
12	12	0	0	Bare/Sparsely Vegetated				0		
13	13	0	0	Bog						
3	0	0	3	Cedar				3		
57	57	0	0	Herbaceous Openland						
55	55	0	0	Jack Pine						
43	43	0	0	Low-Density Trees						
140	21	40	80	Lowland Aspen/Balsam Poplar			40	80		
7	0	0	7	Lowland Conifers				7		
394	0	0	394	Lowland Deciduous				394		
44	0	0	44	Lowland Mixed Forest				44		
530	464	0	66	Lowland Shrub				66		
43	43	0	0	Marsh						
231	114	117	0	Mixed Upland Deciduous			117			
88	88	0	0	Natural Mixed Pines						
4	0	0	4	Northern Hardwood				4		
102	30	43	29	Oak		43				29
92	92	0	0	Red Pine						
12	12	0	0	Upland Conifers						
70	70	0	0	Upland Mixed Forest						
121	121	0	0	Upland Shrub						
15	0	15	0	Upland Spruce/Fir			15			
10	10	0	0	Urban						
251	241	0	9	Water				9		0
202	199	3	0	White Pine			3			
2,874	1,992	224	657	Total Forested Acres	7	43	175	613	15	29
	69%	8%	23%	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)	33	Unspecified	Unspecified	Unspecified	Unspecified

Report 4 – Site Conditions

Cadillac Mgt. Unit  
Andrew Krugh : Examiner

Compartment: 93  
Year of Entry: 2026

<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	150	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	210	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Andrew Krugh : Examiner

Compartment: 93  
Year of Entry: 2026

7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> campground. Hazard tree removal only.							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	172	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	30	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Andrew Krugh : Examiner

Compartment: 93  
Year of Entry: 2026

14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	120	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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

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

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

Conservation Area	Type	Description
SCA	Cold Water 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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
1	6113 - Lowland Maple	Sapling Well	5.5	15	Immature	N/A	look up cut records																																												
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5	6229 - Mixed lowland shrub	Nonstocked	56.6			No																																													
6	6112 - Lowland Aspen	Sawtimber Well	10.7	80		N/A	No legal access																																												
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25	500 - Water	Nonstocked	0.7			No	W branch Muskegon river																																								
26	6112 - Lowland Aspen	Poletimber Well	26.0	70		N/A	no legal access																																								
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27	6115 - Lowland Ash	Poletimber Well	87.0	69		N/A	Assume this is like stands to the west that I got to.(S.E 2014)																																								
28	790 - Other Bare/Sparsely Vegetated	Nonstocked	5.4			No	pipeline																																								
29	6229 - Mixed lowland shrub	Nonstocked	1.1			No																																									
30	790 - Other Bare/Sparsely Vegetated	Nonstocked	3.6			No																																									
31	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.9			No																																									
32	6229 - Mixed lowland shrub	Nonstocked	25.9			No																																									
33	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	51.7	69		N/A	assume it is like stands to the west that I looked at (S.E 2014)																																								
34	622 - Lowland Shrub	Nonstocked	20.0	0	Unspecified	No	assume it is like stands to the west that I looked at (S.E 2014)																																								
35	6220 - Alder/willow	Nonstocked	6.0			No																																									
36	6220 - Alder/willow	Nonstocked	52.3			No	alder																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**37** 3302 - Low Density Conifer Trees Nonstocked 11.0 No

**38** 4199 - Other Mixed Upland Deciduous Sapling Medium 12.3 5 1-50 N/A Stand was cut in 2019. All pine under 12 inches in diameter was left .

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Sapling	1	5	Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Red Oak	30	Sapling	1		Red Pine	Medium	< 5 feet	Sapling
Red Pine	15	Sapling	2					
Quaking Aspen	15	Sapling	1					
Red Pine	5	Log	10	70				

**39** 42201 - Natural White Pine, Mixed Deciduous Sapling Medium 37.8 6 Immature N/A Stand was diameter limit cut in 2018, all red and white pine over 12 inches in dbh was cut along with any jack pine, aspen and maple.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	70	Sapling	1	6
Red Maple	20	Sapling	1	
Quaking Aspen	10	Sapling	1	

**40** 6229 - Mixed lowland shrub Nonstocked 6.5 Unspecified No Stand swapped from Forested to Non-Forested.

**41** 4130 - Aspen Sapling Well 26.1 17 Immature N/A treated last year of entry came back well look up cut records

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log/XLog/Pole	10		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	60	Sapling	2	17	Red Maple	Low	5 - 10 feet	Sapling
Red Maple	30	Sapling	2		Bigtooth Aspen	Low	5 - 10 feet	Sapling
					Red Oak	Low	< 5 feet	Sapling

**42** 6239 - Mixed Emergent Wetland Nonstocked 12.6 Unspecified No

**43** 500 - Water Nonstocked 8.0 No

**44** 4130 - Aspen Sapling Well 19.3 18 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	3		Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	60	Sapling	3	18	Red Maple	Medium	< 5 feet	Sapling
Red Oak	10	Pole/Log	8		Bigtooth Aspen	Medium	< 5 feet	Sapling
					Red Oak	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>45</b>	6113 - Lowland Maple	Sawtimber Well	23.7	110	111-140	N/A	river flood plain																																								
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<b>46</b>	42220 - Natural Jack Pine	Sapling Medium	3.0	6	Immature	N/A	Stand was final harvested in 2018. Any cedar , hemlock and oak was left. Red and white pine over 12 inches in diameter was left.																																								
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<b>47</b>	42290 - Natural Mixed Pine	Sapling Poor	11.7	6	1-50	N/A	Stand was final harvested in 2018. Any cedar , hemlock and oak was left. Red and white pine over 12 inches in diameter was left.																																								
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<b>48</b>	42200 - Natural White Pine	Poletimber Medium	41.7	60	81-110	N/A	Take two leave two pattern in plantation, as well all jack pine was cut.																																								
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<b>49</b>	42100 - Planted White Pine	Poletimber Medium	7.7	70	51-80	N/A	All red and white over 10 inches in diameter along with all aspen maple cut in 2018 winter.																																								
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54	3102 - Grass	Nonstocked	0.9		Unspecified	No	merge into 67 not water																																														
55	6112 - Lowland Aspen	Sapling Well	5.3	3	Immature	N/A	Stand was final harvested in 2021.																																														
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56	3102 - Grass	Nonstocked	3.9		Unspecified	No																																															
57	6229 - Mixed lowland shrub	Nonstocked	29.7		Unspecified	No	filling in with jack pine seedlings																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	42340 - Upland Spruce/Fir	Poletimber Well	14.7	55	81-110	N/A	hummocky ground
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		10	Pole/Sapling	6		Balsam Fir	Medium
Red Pine		10	Log/Pole	10		Blueberry/Bilberry/Cranberry	Medium
Quaking Aspen		20	Pole/Log	8			Variable
Balsam Fir		50	Pole/Log	8	55		Tall Shrub
Red Maple		10	Pole/Log	8			
59	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	117.0	80	51-80	N/A	treated last year of entry (S.E. 2014) Look at treating 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>	
White Oak		15	Log/Pole	10		Red Maple	High
Red Pine		20	Log/Pole	10		Blueberry/Bilberry/Cranberry	Low
Black Cherry		10	Pole	6		Serviceberry (Juneberry)	Medium
White Pine		15	Log/Pole	10		Bigtooth Aspen	Low
Red Oak		40	Log/Pole	12	80		5 - 10 feet
60	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	8.0	25	81-110	N/A	Stand swapped from Non-Forested to Forested. cut in 99
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Oak		10	Pole	5		White Oak	Low
Red Maple		30	Pole/Sapling	5		Red Maple	Medium
White Pine		10	Pole/Sapling	5		Leatherleaf	Medium
Jack Pine		50	Pole/Sapling	5	25	Blueberry/Bilberry/Cranberry	Medium
61	4133 - Aspen, Mixed Pine	Sapling Well	10.8	5	Immature	N/A	Stand was final harvested in 2019 all oak was left.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		60	Sapling	1	5		
Red Oak		10	Pole/Log	9			
White Pine		10	Pole/Sapling	6			
Jack Pine		10	Sapling	1			
White Oak		10	Pole/Sapling	6			
62	42210 - Natural Red Pine	Poletimber Well	36.8	62	171-200	N/A	rows created last time came out well needs more diameter growth. (2014 SE)
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		100	Pole/Log	8	62	Blueberry/Bilberry/Cranberry	Medium
						Red Maple	Low
63	6239 - Mixed Emergent Wetland	Nonstocked	0.6		Unspecified	No	some pole size aspen
64	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	18.7	69		N/A	assume it is like stands to the west that I looked at (S.E 2014)



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
65	6220 - Alder/willow	Nonstocked	72.3			No	break out the water area		
66	429 - Mixed Upland Conifers	Sapling Well	4.8	3	Immature	N/A	Final harvested in 2021.		
<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>
Jack Pine		10	Sapling	1		Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir		50	Sapling	1	3	Blueberry/Bilberry/Cranberry	Medium	Variable	Tall Shrub
Bigtooth Aspen		30	Sapling	1		Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple		10	Sapling	1		Leatherleaf	High	Variable	Tall Shrub
67	42100 - Planted White Pine	Sawtimber Well	18.5	61	81-110	N/A	New stand added. rows created last time look up plant records		
<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 Pine		5	Log/Pole	10		Red Maple	Medium	< 5 feet	Sapling
White Pine		95	Log/Pole	10	61	Leatherleaf	Medium	Variable	Tall Shrub
						Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
						Quaking Aspen	High	5 - 10 feet	Sapling
						White Oak	Low	5 - 10 feet	Sapling
68	622 - Lowland Shrub	Nonstocked	1.4		Unspecified	No			
69	4132 - Aspen, Jack Pine	Sapling Medium	1.6	15	Immature	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>
Jack Pine		30	Sapling/Pole	4		Blueberry/Bilberry/Cranberry	Medium	Variable	Tall Shrub
White Oak		10	Sapling/Pole	4		Leatherleaf	Medium	Variable	Tall Shrub
Quaking Aspen		40	Sapling/Pole	4	15	Red Maple	Medium	< 5 feet	Sapling
Red Maple		20	Sapling/Pole	4		Jack Pine	Low	< 5 feet	Sapling
						White Oak	Low	< 5 feet	Sapling
70	623 - Emergent Wetland	Nonstocked	28.6		Unspecified	No	New stand added. some open areas with water		
71	42290 - Natural Mixed Pine	Poletimber Well	15.8	73	81-110	N/A	pine islands private 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>
Black Spruce		20	Pole/Sapling	5		Alder	Low	< 5 feet	Tall Shrub
Jack Pine		30	Pole/Sapling	5		Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Red Pine		40	Pole/Log	6	73	Red Maple	Low	< 5 feet	Sapling
White Pine		10	Pole/Log	8		Leatherleaf	Low	< 5 feet	Tall Shrub
						Black Spruce	Low	5 - 10 feet	Sapling
72	622 - Lowland Shrub	Nonstocked	3.2	0	Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
73	42220 - Natural Jack Pine	Poletimber Medium	19.0	35	81-110	N/A	New stand added.																																																					
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74	3102 - Grass	Nonstocked	4.5		Unspecified	No	leather leaf no shrubs a few jack pine filling in																																																					
75	42110 - Planted Red Pine	Poletimber Medium	13.6	59	81-110	N/A	New stand added. first thinned last year of entry																																																					
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76	3102 - Grass	Nonstocked	3.6		Unspecified	No	New stand added.																																																					
77	4311 - Pine, Aspen Mix	Sapling Poor	26.5	5	1-50	N/A	Stand was cut in 2019, all pine over 12 inches in diameter was cut , leaving scattered pine under 12 inches in diameter.																																																					
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78	6112 - Lowland Aspen	Poletimber Medium	24.8	57	81-110	N/A	a lot of low wet areas may be able to cut some edge low quality low basal area(S.E 2014) Stand was habitat cut in 65.																																																					
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79	4131 - Aspen, Oak	Sapling Well	56.4	18	Immature	N/A	cutl last year of entry look up cut records good regen red pine in sub canopy is planted (S.E 2014) Stand was cut in 2006 Reedsburg Crossing 63-008-05.																																																					
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<b>80</b>	4130 - Aspen	Sapling Well	109.5	35	111-140	N/A	Stand has overstory oak that is scattered throughout. Stand is on very small dbh size for age.																																										
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<b>81</b>	42100 - Planted White Pine	Poletimber Well	82.6	31	81-110	N/A	rows created last time came out well look up planting records some low areas within stand not cut																																										
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<b>82</b>	4139 - Aspen, Mixed Deciduous	Sapling Poor	4.5	7	Immature	N/A																																											
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<b>83</b>	500 - Water	Nonstocked	7.0			No	New stand added.																																										
<b>84</b>	6229 - Mixed lowland shrub	Nonstocked	1.5		Unspecified	No																																											
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<b>85</b>	3205 - Mixed Upland Shrub	Nonstocked	6.5		Unspecified	No	scattered aspen																																										
<b>86</b>	622 - Lowland Shrub	Nonstocked	2.8	0	Unspecified	No																																											
<b>87</b>	6220 - Alder/willow	Nonstocked	13.5			No	merge into 69																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>88</b>	629 - Mixed non-forested wetland	Nonstocked	10.6		Unspecified	No	Stand swapped from Non-Forested to Forested. very mixed stand with low wet areas Stand swapped from Forested to Non-Forested.
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<b>90</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	24.0	6	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Sapling	1	6	White Pine	Low	5 - 10 feet	Sapling
White Spruce	10	Pole/Sapling	6		Red Pine	Low	5 - 10 feet	Sapling
Red Maple	20	Sapling	1		Red Maple	Low	< 5 feet	Sapling
Northern Pin Oak	10	Pole	8		Blueberry/Bilberry/Cranberry	Medium	Variable	Tall Shrub
White Pine	20	Pole/Sapling	5					
Red Pine	10	Pole	8	66				

<b>91</b>	500 - Water	Nonstocked	167.4		Unspecified	No	
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<b>92</b>	42220 - Natural Jack Pine	Sapling Poor	30.6	15	Immature	N/A	Stand swapped from Forested to Non-Forested. (SE 2014)
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	70	Sapling	1	15	Jack Pine	Low	< 5 feet	Sapling
Red Pine	10	Log/Pole	8		Black Spruce	Low	< 5 feet	Sapling
Red Maple	10	Sapling	1		Leatherleaf	Medium	Variable	Tall Shrub
Quaking Aspen	10	Sapling	1		Red Maple	Low	< 5 feet	Sapling
					Blueberry/Bilberry/Cranberry	Medium	Variable	Tall Shrub

<b>95</b>	6229 - Mixed lowland shrub	Nonstocked	4.3		Unspecified	No	flood plain alder and cattails
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<b>96</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	90.4	80	Unspecified	N/A	Stand swapped from Non-Forested to Forested. Too wet flood plain.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	30	Log/Pole	12	80	Pussy Willow	Medium	< 5 feet	Tall Shrub
Red Maple	30	Pole	5		Alder	Full	10 - 20 feet	Tall Shrub
White Oak	20	Log/Pole	10		Red Maple	Medium	10 - 20 feet	Sapling
Black Ash	20	Pole/Sapling	5		Black Ash	Medium	10 - 20 feet	Sapling

<b>97</b>	4130 - Aspen	Sapling Well	48.1	25	171-200	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling	2		Bigtooth Aspen	Low	< 5 feet	Sapling
Red Oak	10	Log/Pole	10		Jack Pine	Low	< 5 feet	Sapling
Quaking Aspen	10	Sapling	2		Red Maple	Low	< 5 feet	Sapling
Bigtooth Aspen	60	Sapling	3	25	Red Pine	Low	< 5 feet	Sapling
					Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**98** 500 - Water Nonstocked 45.3 No Muskegon River

**99** 42210 - Natural Red Pine Poletimber Poor 37.5 75 1-50 N/A Stand was cut in 2019 all pine 12 inches and over was cut by spec.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	10	75	Red Maple	Low	5 - 10 feet	Sapling
					Leatherleaf	Low	Variable	Tall Shrub
					Red Pine	Medium	Variable	Sapling
					Blueberry/Bilberry/Cranberry	Medium	Variable	Tall Shrub

**100** 4122 - Oak, Pine Sawtimber Medium 28.9 110 1-50 N/A reedsburg campground no treatment has had hazard trees removed

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Log/Pole/XLog	18		White Pine	Low	< 5 feet	Sapling
Red Oak	50	Log/Pole/XLog	18	110	Red Maple	Low	5 - 10 feet	Sapling
White Pine	20	Log/Pole/XLog	18		White Oak	Low	< 5 feet	Sapling
Red Pine	10	Log/Pole/XLog	16					

**101** 42210 - Natural Red Pine Sawtimber Well 4.2 70 81-110 N/A small acreage being used as corridor/cover leave

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log/Pole	11		Red Oak	Low	10 - 20 feet	Sapling
White Oak	5	Pole	8		White Oak	Low	10 - 20 feet	Sapling
Red Oak	5	Pole/Log	9		Red Maple	Low	10 - 20 feet	Sapling
Red Pine	70	Log/Pole	12	70	Red Pine	Low	10 - 20 feet	Sapling

**102** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 26.5 70 51-80 N/A flood plain

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole	10		Pussy Willow	Medium	< 5 feet	Tall Shrub
Swamp Cottonwood	10	Log/Pole	10		Musclewood/Hornbeam	Low	5 - 10 feet	Sapling
Red Maple	20	Log/Pole	8		Alder	High	10 - 20 feet	Tall Shrub
Quaking Aspen	10	Pole	5		Black Cherry	Low	5 - 10 feet	Sapling
Black Ash	50	Pole	5	70				

**104** 4133 - Aspen, Mixed Pine Sapling Medium 25.6 18 Immature N/A Stand was harvested in 2006 with Reedsburg Jack Aspen 63-015-06

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	45	Sapling	2	18
Red Maple	20	Sapling	1	
Black/Red (Hybrid) Oak	15	Sapling	1	
Red Pine	20	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**105** 42201 - Natural White Pine, Mixed Deciduous Sawtimber Well 13.5 90 111-140 N/A small acreage between campground and subdivision leave

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	60	Log/Pole/XLog	18	90	Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	20	Log/Pole	10		White Pine	Low	10 - 20 feet	Pole
Red Oak	20	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub

**106** 500 - Water Nonstocked 6.1 Unspecified Managed Opening reedsburg spillay

**107** 4124 - Red with White Oak Sawtimber Medium 29.8 75 51-80 N/A New stand added. cut last year of entry left oak (SE 2014)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	60	Log/Pole/Sap	10	75	Red Maple	Medium	5 - 10 feet	Sapling
White Oak	40	Log/Pole/Sap	12		Jack Pine	Low	< 5 feet	Sapling
					White Oak	Low	< 5 feet	Sapling
					Bigtooth Aspen	Low	5 - 10 feet	Sapling

**108** 6113 - Lowland Maple Sawtimber Well 23.1 110 111-140 N/A river flood plain

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	30	Pole/Sapling	5		Black Ash	Low	10 - 20 feet	Sapling
Balsam Poplar	10	Log/Pole	17		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	60	Log/Pole/XLog	16	110	Musclewood/Hornbeam	Low	5 - 10 feet	Sapling

**110** 4310 - Pine, Oak Mix Sawtimber Well 43.7 85 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Pole	6		Red Maple	Medium	10 - 20 feet	Sapling
White Oak	10	Pole/Log	8		White Pine	High	10 - 20 feet	Sapling
Red Oak	30	Log/Pole	12		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole/Log	8					
Red Pine	5	Log/Pole	10					
White Pine	40	Log/Pole/XLog	10	85				

**111** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 78.0 30 81-110 N/A has been treated look up cut records (S.E 2014) Stand was cut in 98.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Sapling/Pole	4	30	Bigtooth Aspen	Low	< 5 feet	Sapling
White Pine	25	Log/Pole	10		Red Maple	Low	< 5 feet	Sapling
Red Oak	20	Log/Pole	12		White Oak	Low	< 5 feet	Sapling
Red Pine	15	Log/Pole	12		White Pine	Low	< 5 feet	Sapling
Red Maple	25	Sapling/Pole	4	30				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**112** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 8.2 60 81-110 N/A low wet small diameters

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole	6	60	Alder	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	10	Pole	6		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	10	Pole	5					
Paper Birch	20	Pole/Sapling	5					
Black Ash	20	Pole/Sapling	6					

**113** 4124 - Red with White Oak Sawtimber Poor 42.9 99 1-50 N/A Treated with sale 63-030-16-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	60	Log/Pole	13	99	White Oak	Low	< 5 feet	Sapling
White Oak	40	Log/Pole	13		Red Maple	Medium	< 5 feet	Sapling
					Bigtooth Aspen	Low	< 5 feet	Sapling

**115** 122 - Road/Parking Lot Nonstocked 9.9 Unspecified No

**116** 42260 - Natural Pine, Mixed Deciduous Poletimber Well 44.7 28 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	15	Pole	6		White Pine	Medium	< 5 feet	Sapling
Quaking Aspen	30	Sapling/Pole	4		Blueberry/Bilberry/Cranberry	Medium	Variable	Tall Shrub
White Pine	20	Pole/Sapling	6		Leatherleaf	High	< 5 feet	Tall Shrub
Jack Pine	35	Pole/Sapling	5	28				

**117** 42221 - Natural Jack Pine, Mixed Deciduous Sapling Poor 2.8 7 Immature N/A Treated with sale 63-030-16-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling	1		Witch Hazel	Low	< 5 feet	Tall Shrub
Jack Pine	60	Sapling	1	7	White Oak	Low	< 5 feet	Sapling
Bigtooth Aspen	20	Sapling	1		Red Maple	Low	< 5 feet	Sapling

**118** 6112 - Lowland Aspen Sapling Well 10.5 7 Immature N/A Treated with sale 63-030-16-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	20	Pole	8		Bigtooth Aspen	Medium	< 5 feet	Sapling
Red Maple	30	Sapling	1		Red Maple	Medium	< 5 feet	Sapling
Bigtooth Aspen	50	Sapling	1	7				

**119** 3205 - Mixed Upland Shrub Nonstocked 17.6 No Mostly grass with scattered Scotch Pine and White Pine seeding in. A couple Apple trees on East side. Stand was corn in 1952



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
120	6220 - Alder/willow	Nonstocked	16.9		Unspecified	No	Tag Alder and Cattails throughout. Manmade ditch running through middle.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Full		Tall Shrub	
								Cattail spp.	Low		Non-Wood	
			Dogwood (spp.)	Low		Tall Shrub						
121	6230 - Cattail	Nonstocked	1.2		Unspecified	No	Water with cattails					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Full		Tall Shrub	
			Cattail spp.	Medium		Non-Wood						
122	3302 - Low Density Conifer Trees	Nonstocked	31.5			No	Mostly Grassland with Pin Cherry and Scotch Pine seeding in naturally. Some planted Spruce throughout. Stand was planted to oat in 1952.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Scotch Pine	Low		Sapling	
								Mixed Sedges/Grasses	Full		Non-Wood	
								White Spruce	Low		Sapling	
								Pin Cherry	Low		Tall Shrub	
Common Blackberry	Low		Tall Shrub									
123	42290 - Natural Mixed Pine	Sapling Poor	2.0	32	Immature	N/A	Pockets of Scotch Pine with planted Spruce					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Spruce	10	Pole/Sapling	7	
								Scotch Pine	90	Pole/Sapling	7	32
								Sub-Canopy Species	Density	Avg. Height	Size	
Autumn Olive	Low	5 - 10 feet	Tall Shrub									
Pin Cherry	Low	Variable	Tall Shrub									
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub									
124	6225 - Bog	Nonstocked	8.7		Unspecified	No	Leatherleaf and Bog Laurel.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Leatherleaf	Full		Tall Shrub	
			Swamp Laurel	Full		Tall Shrub						
125	6112 - Lowland Aspen	Poletimber Medium	2.5	52	1-50	N/A	Lowland Aspen stand. Aspen is declining. Thick understory of Red Maple.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	100	Pole/Log	9	52
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	High	Variable	Sapling	
Witch Hazel	Low	5 - 10 feet	Tall Shrub									
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
126	6220 - Alder/willow	Nonstocked	2.2		Unspecified	No																																																					
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128	6112 - Lowland Aspen	Poletimber Well	15.2	62	1-50	N/A	Tamarack around edges. Aspen declining.																																																				
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129	3205 - Mixed Upland Shrub	Nonstocked	1.4			No	Mostly upland grasses with patches of Tag Alder. Some White Pine and Scotch Pine seeding in naturally. Also some scattered planted Spruce.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**132**      42290 - Natural Mixed Pine      Poletimber Poor      5.8      35      1-50      N/A      Naturally seeding Pines with Aspen pocket to South. Even mix of Scotch, White, and Jack Pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	28	Pole/Sapling	5	35	Jack Pine	Medium	Variable	Sapling
Quaking Aspen	24	Pole/Sapling	6		Quaking Aspen	Medium	Variable	Sapling
White Pine	24	Pole/Log/Sap	10		Scotch Pine	Medium	Variable	Sapling
Scotch Pine	24	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
					Willow spp.	Low	< 5 feet	Tall Shrub
					Pin Cherry	Medium	Variable	Sapling

**133**      6220 - Alder/willow      Nonstocked      12.4      No

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Low		Non-Wood
Willow spp.	Full		Tall Shrub
Tag Alder	Medium		Tall Shrub

**135**      6220 - Alder/willow      Nonstocked      111.0      No      Mostly Tag Alder with scattered Aspen in overstory. Very little Aspen in stand.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full		Tall Shrub
Quaking Aspen	Trace		Pole

**136**      6112 - Lowland Aspen      Sawtimber Medium      23.5      57      81-110      N/A      Too wet for commercial harvest. Patches of Aspen clones throughout wet stand. Also bog pockets mixed within stand. Heavy Tag Alder understory. Aspen will hold one more rotation.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	30	Log/Pole	10		Red Oak	Trace	10 - 20 feet	Sapling
Quaking Aspen	70	Log/Pole	10	56	Willow spp.	Medium	< 5 feet	Tall Shrub
					Tag Alder	High	10 - 20 feet	Tall Shrub
					Red Maple	Low	Variable	Sapling

**137**      6127 - Lowland Pine      Poletimber Medium      7.0      32      81-110      N/A      Mostly lowland with upland areas. West half of stand is sapling pine, East half mostly Tag Alder. Scotch Pine filling in the drier areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Sapling	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Sapling	2		Willow spp.	Medium	< 5 feet	Tall Shrub
Scotch Pine	75	Pole/Sapling	5	32	Cherry (spp.)	Low	Variable	Sapling
White Pine	15	Sapling/Pole	6					

**138**      3102 - Grass      Nonstocked      43.9      No      Willow pockets throughout. Hawthorn, Cherry, Autumn Olive, and Pine scattered. Appears to be a trespass on West side of stand. However, with no corners, it's difficult to say for sure.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low		Sapling
Pin Cherry	Low		Sapling
Willow spp.	Low		Tall Shrub
Autumn Olive	Low		Tall Shrub
Hawthorn (spp.)	Medium		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
139	4130 - Aspen	Poletimber Well	4.7	50	81-110	N/A	Varying ages of Aspen. 10-40 years old. Quaking Aspen is declining, while Big Tooth is healthy. Very patchy with upland openings. Aspen saplings filling in openings. Low volumes for commercial harvest.																																															
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143	6112 - Lowland Aspen	Poletimber Medium	1.0	50	51-80	N/A	Small, poor quality Aspen clone.																																															
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