



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54092

Entry Year 2023

Acreage: 1,658

County Alpena

Management Area: Alpena Lake Plain

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**Revision Date:** 2021-05-20

**Stand Examiner:** Dale Parris

**Legal Description:**

T30N R08E Sections 20, 21, 28, and 29

**Identified Planning Goals:**

All harvests have been prescribed following the direction indicated in the Alpena Lake Plains Management Area (ALPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The most prevalent covertypes in the ALPMA for the 2023 Year of Entry (YOE) are the lowland deciduous, lowland aspen, upland aspen, and lowland coniferous covertypes. As such, for the purpose of balancing the age class acre distributions of these covertypes across the Management Area (MA), forest management during the 2023 YOE in the ALPMA will focus on these covertypes. Wildlife, recreation, aesthetics, adjacent stands and the larger landscape were considered in all management decisions.

**Soil and topography:**

The area west of Devils Lake is dominated by flat lowland coniferous swamp. A maze of, mostly narrow, upland ridges weave through this lowland area. The area east of Devils Lake is softly rolling beach dune ridges between the lake and Piper Road. East of Piper Road, Compartment 92 transitions into narrow, tightly spaced dune ridges and swale valleys. This is the Squaw Bay Wooded Dune and Swale Complex ERA.

Within Compartment 92, west of Devils Lake, the ridges/high ground soils are the Proper-Deford-Rousseau Complex (moderately well drained, very poorly drained, well drained respectively) and the Crowell-Proper fine sand (somewhat excessively well drained to moderately well drained). On the west side of Devils Lake, besides the maze of high ground ridges and pockets, more than 70 percent of the soils are muck type organic lowland soils with very poor drainage. The most prevalent of these are the very poorly drained Deford, Tawas, and Lupton mucks.

The east shoreline of Devils Lake for the first 100-400 feet is the moderately well drained Croswell sand. Extending from the edge of the Croswell sand to the west side of Piper Road is the excessively well drained Grayling sand. Within Compartment 92, Piper Road sits on a narrow strip of the somewhat poorly drained Au Gres sand. The dune swale complex soils east of Piper road are composed of the Tawas-Au Gres Complex. The very poorly drained Tawas muck is in the narrow swales and Au Gres sand composes the ridges.

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

Compartment 92 is surrounded by more state land to the north, west and east. The east side of the compartment is bordered by larger parcel recreational properties. Compartment 92 surrounds the central region of Devils Lake and is just a couple miles south of the City of Alpena.

**Unique Natural Features:**

The Squaw Bay Wooded Dune and Swale Complex ERA makes up just shy of 200 acres on the eastern edge of Compartment 92. The complex is composed of alternating narrow ridges and swales that run parallel to the edge of Lake Huron and are a direct result of Lake Huron's historically receding shoreline. The area directly east of Devils Lake is characterized by gently rolling upland beach dune ridges. The west side of Devils Lake is mainly large altering pockets of lowland deciduous, lowland mixed, and lowland cedar forest. The ridges within these lowland forests are a looser less defined result of Lake Huron's eastward moving shoreline, as is Devils Lake.

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

The State Historic Preservation Office (SHPO) did have areas of concern within Compartment 92. For further information, contact the SHPO.

**Special Management Designations or Considerations:**

The Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website had record of 5 species historically being in and near Compartment 92 that require consideration when implementing forest management strategies. These species are the Red-shouldered hawk (*Buteo lineatus*; state threatened species), Bald eagle (*Haliaeetus leucocephalus*; state special concerns species), Blanding turtle (*Emydoidea blandingii*, state special

concerns species), and Douglas's Hawthorn (*Crataegus douglasii*, state special concerns species).

The Natural Heritage Database (NHD) has record of the Squaw Bay Wooded Dune and Swale Complex Ecological Reference Area (ERA) spanning 196 acres of the eastern most region of Compartment 92.

The NHD had no record of Special Conservation Area (SCA) or High Conservation Value Area occurrences in Compartment 85.

### **Watershed and Fisheries Considerations:**

### **Wildlife Habitat Considerations:**

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

The nearest active sand/gravel pit is just under two miles to the west. The compartment consists mostly of lowlands that appear to be dominated by wetlands. Sand & gravel potential in the compartment seems limited. There is no known potential for hydrocarbon production from proven formations, and there are no active State mineral leases in the compartment. While there is active leasing and Antrim Shale gas production just two miles west, the Antrim Shale is likely too thin or absent beneath the compartment. There is no known metallic mineral potential in this part of the state.

### **Vehicle Access:**

On its west side, Compartment 92 is accessible from Devils Lake Trail that can be access via Werth and Spruce Roads. The east side of Compartment 92 can be accessed via Piper Road and forest roads.

### **Survey Needs:**

For the purpose of conducting timber sales and maintaining legal private/state land boundary posting locations, there may be a need for property line surveys within Compartment 92. Further investigation will be needed to determine the extent to which these surveys are required.

### **Recreational Facilities and Opportunities:**

Rabbit/Hare, grouse, whitetail deer, duck, geese, squirrel, and bear hunting opportunities are available within Compartment 92 in season with a valid license. Fishing and wildlife viewing opportunities are also present. All regulations set forth by the Michigan Department of Natural Resources are to be adhered to by hunters and anglers.

On the west side of Devils Lake, snowmobiling opportunities exist on the Devils Lake Trail which is part of a greater trail system. On the east side of Devils Lake, a small isolated ORV trail system is present.

### **Fire Protection:**

In the case of a wildland fire, response to Compartment 92 will be covered by the Alpena DNR office as well as the Alpena Fire Department.

### **Additional Compartment Information:**

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

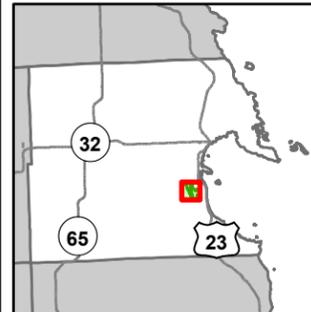
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

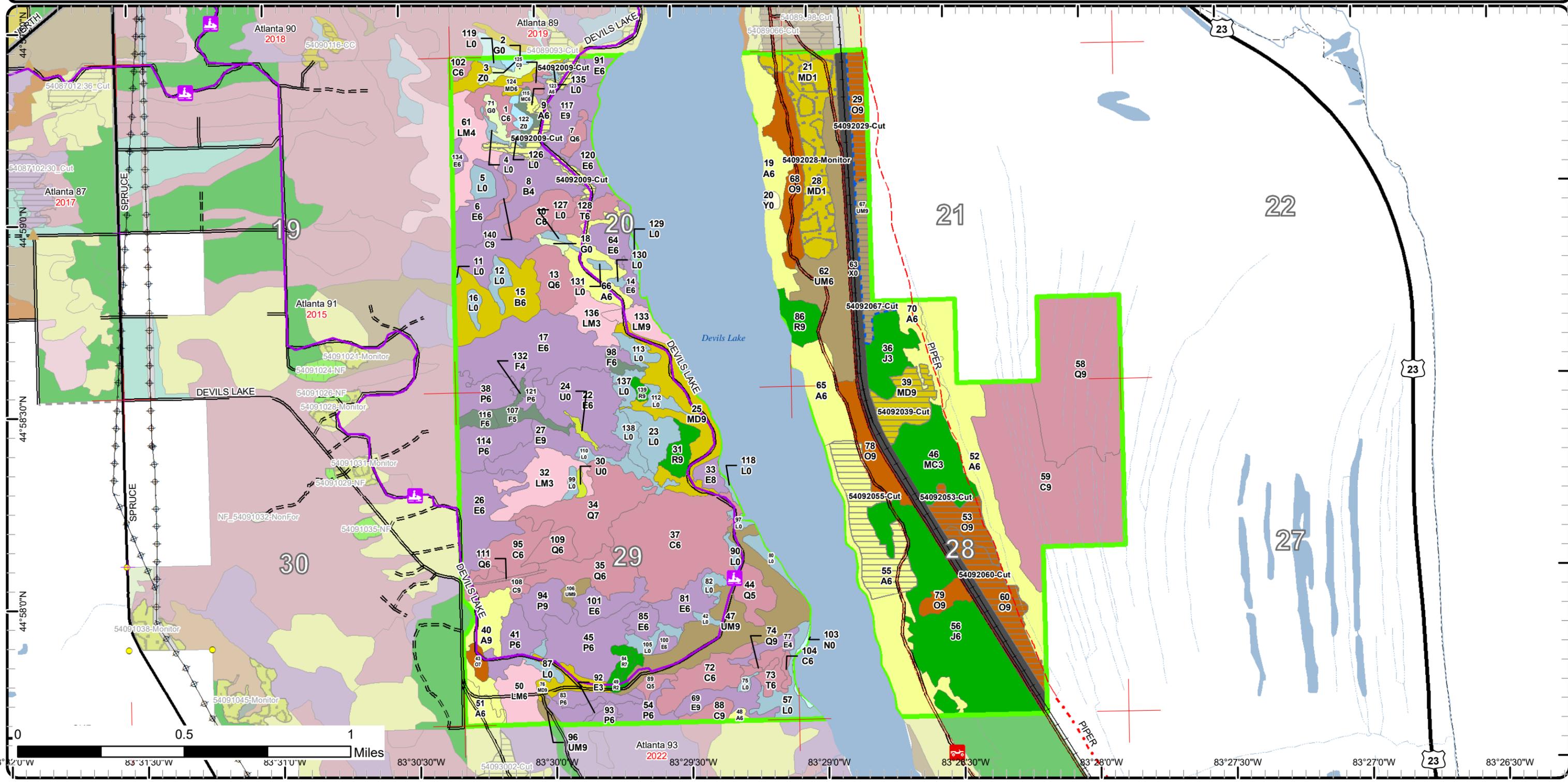
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 92  
 T30N, R08E, Sec. 20, 21, 28, 29  
 County: Alpena  
 Unit: Atlanta  
 Mgmt Area: Alpena Lake Plain  
 YOE: 2023  
 Acres: 1657.6 GIS Calculated  
 Examiner: Dale Parris  
 Map Revised: 10/7/2021  
 Map Phase: Post-Review

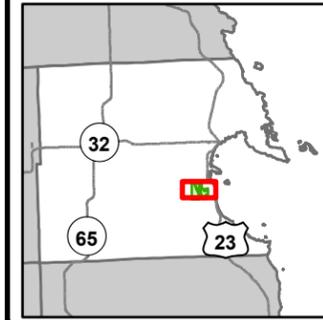


- |                                     |                                    |                             |
|-------------------------------------|------------------------------------|-----------------------------|
| — Miris Corners                     | — Lakes and Rivers                 | — 310 - Herbaceous Openland |
| --- Counties                        | — Compartment Boundary             | — 330 - Low Density Trees   |
| — DNR - Secondary Forest Road       | — Treatments with Site Conditions  | — 500 - Water               |
| — DNR - Forest Access Route         | — Clearcut (w/Reserves)            | — 622 - Lowland Shrub       |
| - - - County - Gravel Road          | — Regeneration Survey              | — 623 - Emergent Wetland    |
| - - - County - Dirt Road (Seasonal) | — 412 - Oak Types                  | — 710 - Sand/Soil           |
| — Active Railroads                  | — 413 - Aspen                      |                             |
| — ORV Routes                        | — 419 - Mixed Upland Deciduous     |                             |
| — Snowmobile Trails                 | — 422 - Natural Pines              |                             |
| — Designated ORV Route              | — 423 - Other Upland Conifers      |                             |
| — Designated Snowmobile Trails      | — 430 - Upland Mixed Forest        |                             |
| — Berms                             | — 611 - Lowland Deciduous Forest   |                             |
| — Intermittent Stream               | — 612 - Lowland Coniferous Forest  |                             |
| — Lake/Pond                         | — 613 - Lowland Mixed Forest       |                             |
|                                     | — 123 - Other High Intensity Urban |                             |

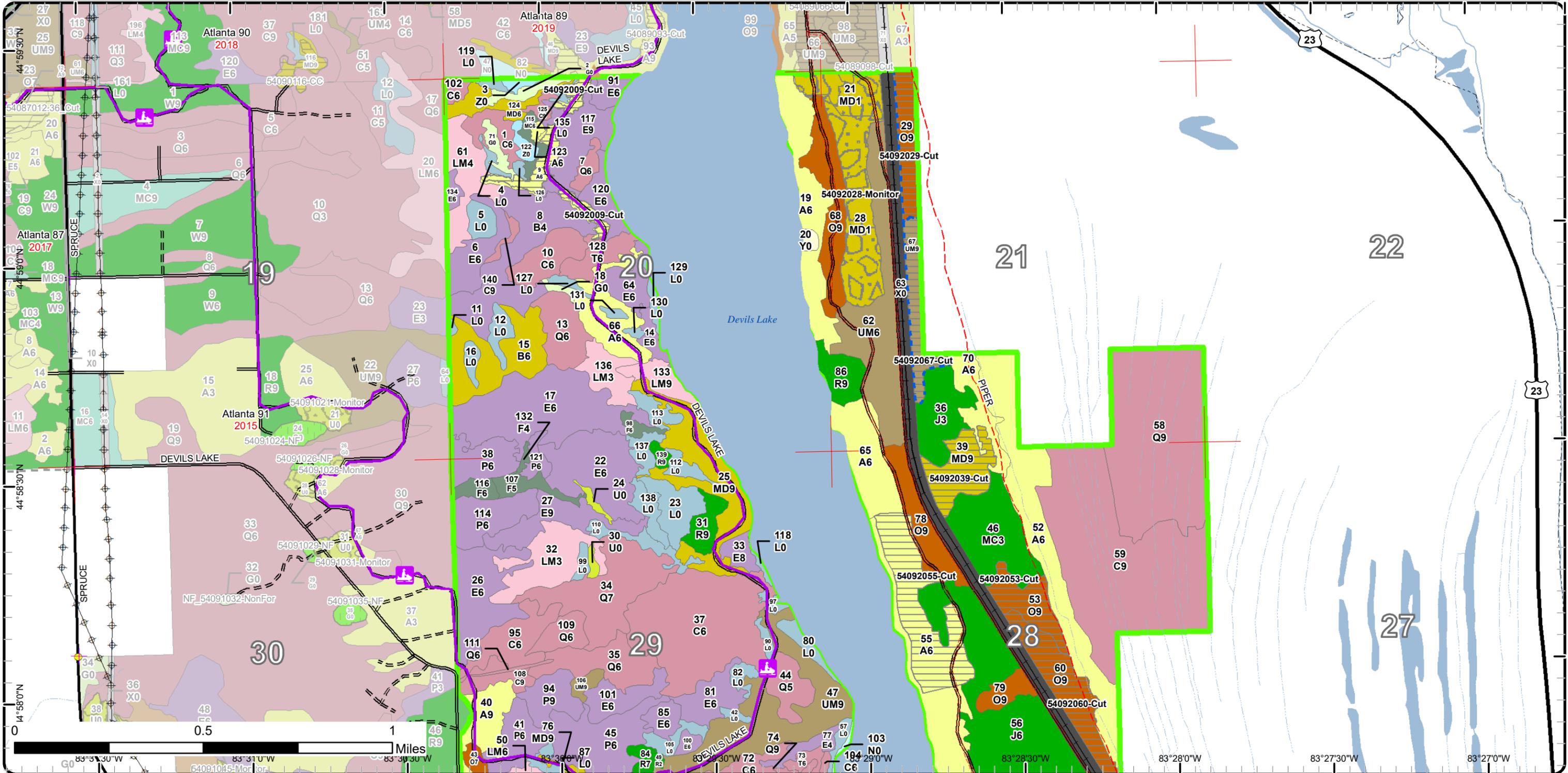


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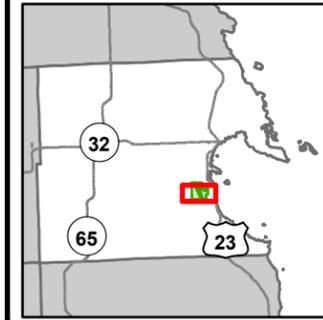


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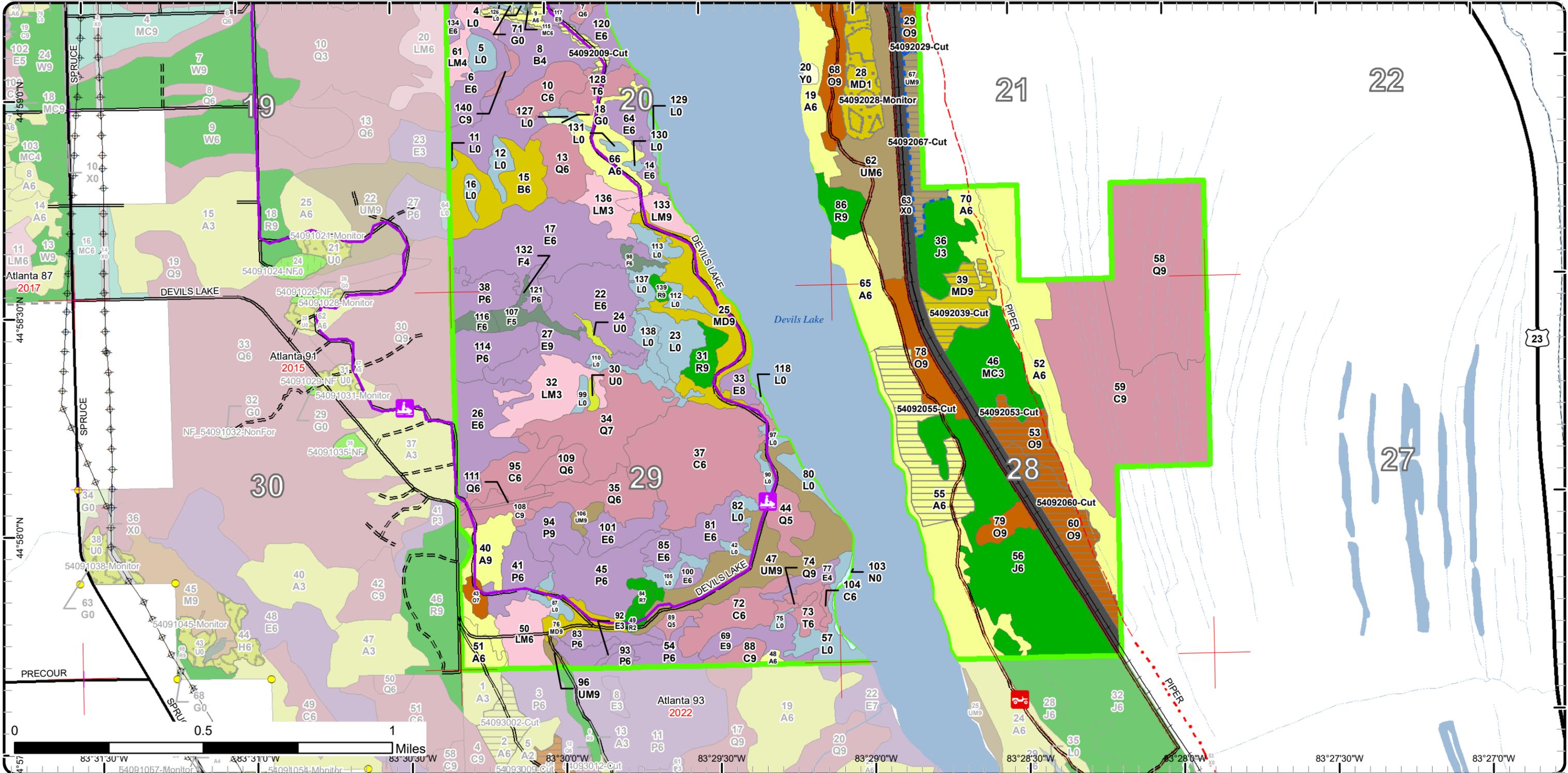


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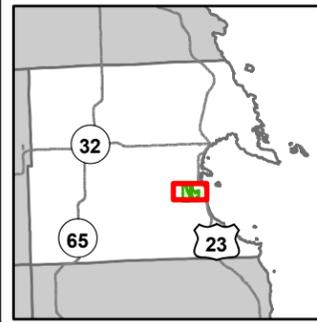


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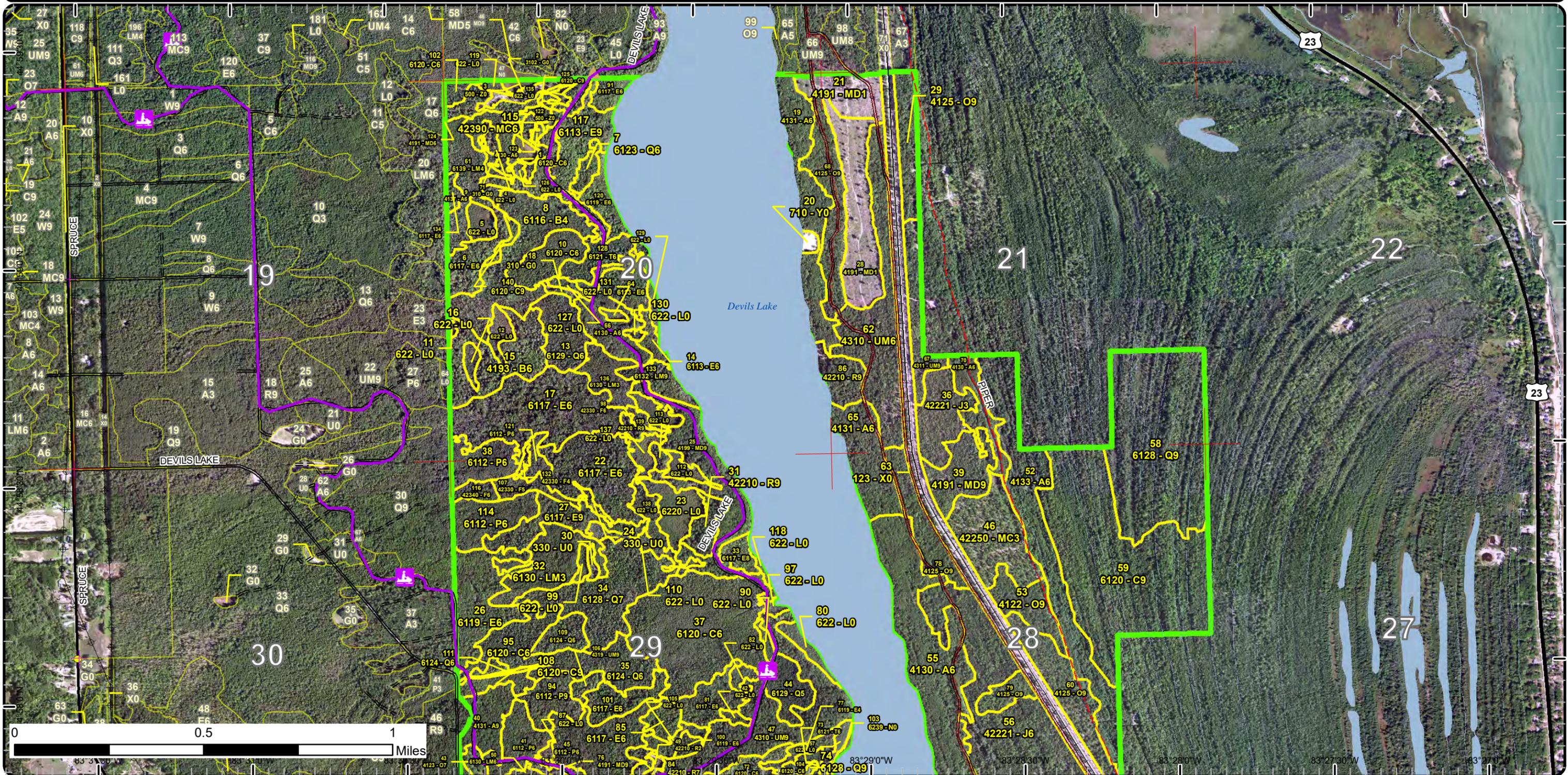


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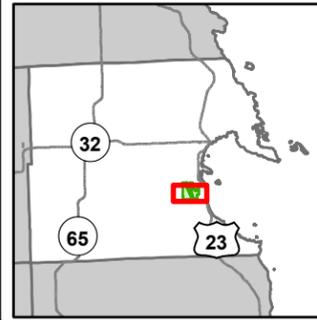


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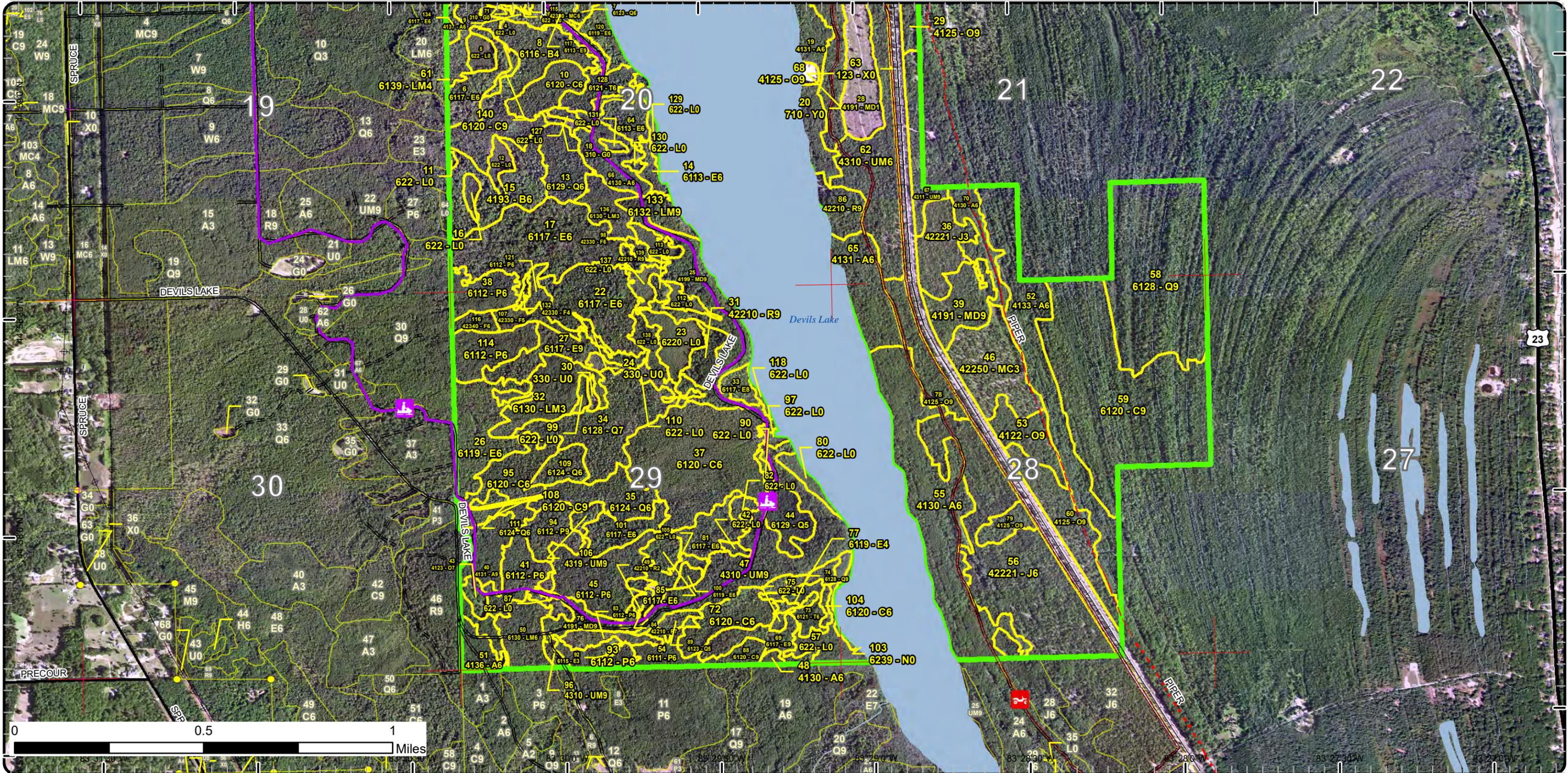
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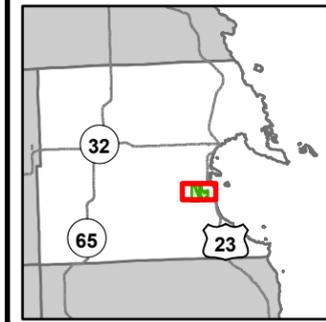
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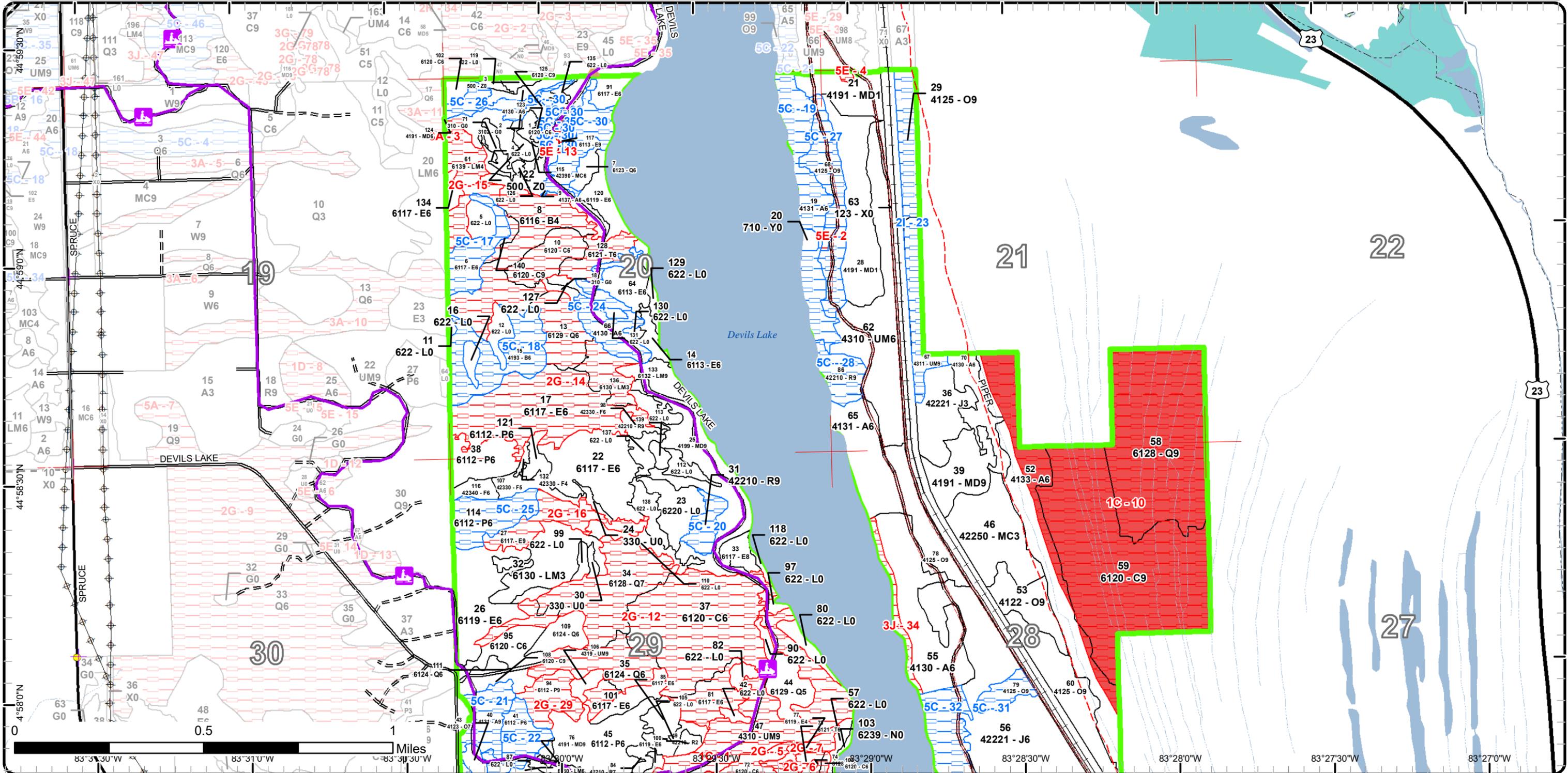


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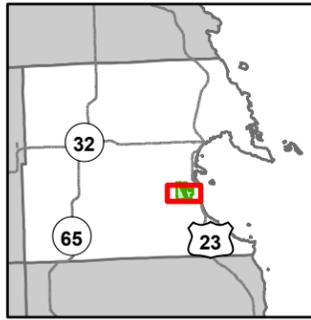


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Ecological Reference Areas
- Coastal Environmental Areas
- Great Lakes Islands
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices

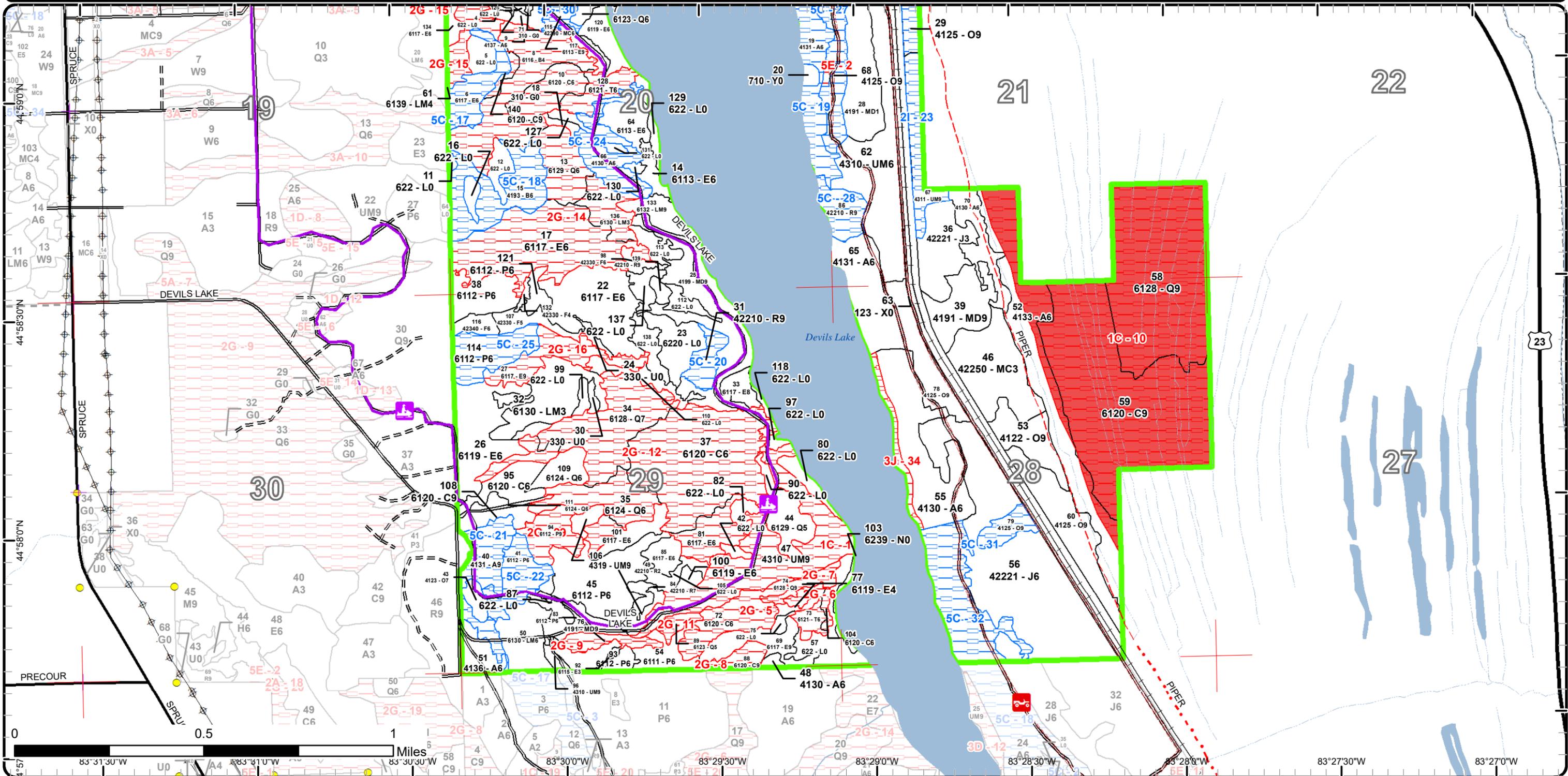


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- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas



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

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment 92    Year of Entry 2023



## 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	0	18	50	23	126	16	0	0	0	0	0	0	0	0	0	0	233
Cedar	0	0	0	0	0	0	0	0	14	3	0	0	28	118	0	0	57	0	219
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	0	0	17	0	76	0	0	0	0	0	0	0	0	0	0	0	0	93
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	48	11	37	0	0	0	0	0	0	0	0	0	0	0	96
Lowland Conifers	0	0	0	0	0	14	3	0	23	0	13	0	33	77	0	0	0	0	161
Lowland Deciduous	0	1	0	0	0	17	67	8	41	45	4	0	0	0	0	0	0	26	208
Lowland Mixed Forest	0	0	0	0	20	10	0	13	16	0	0	0	0	7	0	0	0	0	66
Lowland Shrub	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	41	0	0	0	31	0	0	8	0	0	16	0	0	0	0	0	8	104
Natural Mixed Pines	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Oak	0	0	0	0	0	0	0	0	0	0	13	64	0	0	0	0	0	14	91
Paper Birch	0	0	0	0	0	0	0	0	32	0	23	0	0	0	0	0	0	0	55
Red Pine	0	0	3	0	0	0	0	0	0	13	0	8	0	0	0	0	0	0	23
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Tamarack	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14
Upland Conifers	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	39	0	0	12	46	0	0	0	0	0	0	0	3	100
Upland Spruce/Fir	0	0	0	0	0	10	0	2	0	0	0	0	0	0	0	0	0	0	12
Urban	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>153</b>	<b>42</b>	<b>30</b>	<b>35</b>	<b>118</b>	<b>231</b>	<b>247</b>	<b>42</b>	<b>146</b>	<b>107</b>	<b>53</b>	<b>88</b>	<b>61</b>	<b>202</b>	<b>0</b>	<b>0</b>	<b>57</b>	<b>51</b>	<b>1657</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 92

Year of Entry: 2023

Acres of Harvest

Total Compartment Acres: 1,658

Commercial Harvest - 93  
 Harvests with Site Condition - 25  
 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	43	0	0	0	0	0	0	0	0	43
Mixed Upland Deciduous	16	0	0	0	0	0	0	0	0	16
Oak	46	0	0	0	0	0	0	0	0	46
Upland Mixed Forest	12	0	0	0	0	0	0	0	0	12
<b>Total</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>118</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	118	0	0	0	0	0	41	0	0	159
Next Step	0	0	0	0	0	0	118	0	0	118
<b>Total</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>159</b>	<b>0</b>	<b>0</b>	<b>277</b>



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>29</b>	<b>54092029-Cut</b>	12.7	4125 - Black, N. Pin Oak	Sawtimber Well	97	111-140	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention. Protect pine regeneration to promote future stand diversity.</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> Acceptable regeneration is any medium to well stocked mix of oak, pine, and/or aspen.</p> <p><u>Other Comment:</u> The placement of the east property line is unknown and would require a survey. It could be that there are major trespass issues or that there is not a wide enough stripe here to bother with.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

<b>39</b>	<b>54092039-Cut</b>	16.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	102	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Require full tree skidding to promote pine regeneration.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked stand of oak, pine, and aspen.</p> <p><u>Other Comment:</u> Consider requiring a winter harvest to enhance oak regeneration from stump sprouts.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

<b>53</b>	<b>54092053-Cut</b>	12.2	4122 - Oak, Pine	Sawtimber Well	102	51-80	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Protect the sparse white pine and red pine regeneration to promote future stand diversity.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked stand of oak and pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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>55 54092055-Cut</b>	32.3	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <p>Protect the red pine regeneration.</p> <p>Protect remnant/legacy red pine.</p> <p>Include stand representative pockets along Devils Lake in the retention.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration would be any medium to well stocked mix of aspen, pine, and/or oak.</p> <p><u>Other Comment:</u> Follow BMP's along Devils Lake.</p> <p>The fisheries biologist has approved the harvest boundaries as mapped and approved through the Compartment Review Process.</p> <p>Maintain the diverse edge along Devils Lake as mapped out in the treatment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>60 54092060-Cut</b>	21.5	4125 - Black, N. Pin Oak	Sawtimber Well	103	1-50	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <p>Protect the red pine and white pine regeneration to promote future stand diversity.</p> <p>Use the 2 in spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked stand of oak and pine.</p> <p><u>Other Comment:</u> The small diameter stunted jack pine are an obstacle to harvesting this stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>67 54092067-Cut</b>	12.4	4311 - Pine, Aspen Mix	Sawtimber Well	70	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, pine, and/or oak.</p> <p><u>Other Comment:</u> It could be that there are major trespass issues or that there is not a wide enough stripe here to bother with.</p> <p>The placement of the east property line is unknown and would require a survey.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Approved Treatments:**

<b>9 54092009-Cut</b>	11.0	4137 - Aspen, Birch	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention. Retain 3-10% of the stand in pockets and single trees.</p> <p><u>Specs:</u></p> <p>To promote future stand diversity and for aesthetic purposes along the snowmobile trail, do not cut any pine, cedar, or oak. Protect oak and</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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pine regen.

Place retention around the stream that is already marked out of the center of the stand.

Require a shortwood operation to protect the sensitive sandy soils around Devils Lake and to protect the snowmobile trail.

Include specs to protect the snowmobile trail and its users.

Include specs for protecting culverts on forest roads.

Include the spec that requires grouse logs and brush piles for hare.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked mix of aspen, paper birch, red maple, pine, balsam fir, and oak.

Other Comment:

Consult with archeology and the fisheries division. Take into considerate the slopes down to Devils Lake when putting in harvest boundaries.

This treatment was approved out of YOE with Compartment 89.

Site Condition

Proposed Start Date: 10/1 /2012

<b>21</b>	<b>54092021-Monitor</b>	12.7	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Even-Aged	No
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Prescription Perform a regeneration check at the next inventory.

Specs:

Next Step

Treatments:

Acceptable Regen: Acceptable regen can be mix of pine, oak and aspen.

Other Comment:

Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2020

<b>28</b>	<b>54092028-Monitor</b>	27.8	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4131 - Aspen, Oak	Even-Aged	No
-----------	-------------------------	------	--	--------------	---	----------	------------	------------------------------	-------------------	-----------	----

Prescription Perform a regeneration check at the next inventory.

Specs:

Next Step

Treatments:

Acceptable Regen: Acceptable regen can be of oak, aspen, and pine.

Other Comment:

Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2020

**Total Treatment Acreage Proposed: 158.6**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 92  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
114	87	91	28

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions							
					2I	5C	1C	2G	3A	3J	5E	
233	114	87	91	28	Aspen	91	22				6	0
219	27	0	0	193	Cedar			96	96			
8	8	0	0	0	Herbaceous Openland							
93	93	0	0	0	Jack Pine							
2	2	0	0	0	Low-Density Trees							
96	54	26	26	15	Lowland Aspen/Balsam Poplar	26			15			
162	24	0	0	139	Lowland Conifers			76	62			
209	105	27	27	77	Lowland Deciduous	27			76			1
65	40	0	0	25	Lowland Mixed Forest				25	0		
86	86	0	0	0	Lowland Shrub							
2	2	0	0	0	Marsh							
103	95	8	8	1	Mixed Upland Deciduous	8						1
27	27	0	0	0	Natural Mixed Pines							
91	51	39	39	1	Oak	13	26					1
55	0	23	23	32	Paper Birch		23		32			
23	7	16	16	0	Red Pine		16					
2	2	0	0	0	Sand, Soil							
14	0	0	0	14	Tamarack				14			
3	3	0	0	0	Upland Conifers							
101	44	12	12	44	Upland Mixed Forest	12		44				
12	12	0	0	0	Upland Spruce/Fir							
48	48	0	0	0	Urban							
4	4	0	0	0	Water							
1,658	847	243	243	568	Total Forested Acres	25	218	239	321	0	6	3
	51%	15%	15%	34%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		1C: Other dept or div proc/practices	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 92  
Year of Entry: 2023

2	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention from Timber Sale No. 54-024-13-01.							
3	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Devils Lake Block Plan							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention from Timber Sale No. 54-024-13-01.							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 92  
Year of Entry: 2023

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	194	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Squaw Bay Wooded Dune and Swale Complex ERA							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	122	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long tern retention for Timber Sale No.:54-022-19; Sale Name: Devils Ridge Mix							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 92  
Year of Entry: 2023

14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	119	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 92  
Year of Entry: 2023

19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Available	2I: Survey needed	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Investigation on the ground has determined that a survey of property corners will be needed for conducting a harvest.							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 92  
Year of Entry: 2023

25	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 92  
Year of Entry: 2023

30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	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.

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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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
1	6120 - Lowland Cedar	Poletimber Well	6.4	125	1-50	N/A	This stand has areas in the central region that could be harvested.																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>70</td> <td>Pole/Log</td> <td>8</td> <td>125</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	10	Pole	6		Balsam Fir	5	Pole/Sapling	6		Black Spruce	15	Pole/Log	8		Northern White Cedar	70	Pole/Log	8	125	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	Tag Alder	Medium	5 - 10 feet	Tall Shrub									
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Sub-Canopy Species	Density	Avg. Height	Size																																														
Balsam Fir	Low	Variable	Sapling																																														
Tag Alder	Medium	5 - 10 feet	Tall Shrub																																														
2	3102 - Grass	Nonstocked	3.9			No																																											
3	500 - Water	Nonstocked	1.6			No	This is water with a mixture of swamp grasses. Lowland shrub lines the edges.																																										
4	622 - Lowland Shrub	Nonstocked	1.4		Immature	No	This is a lowland shrub stand that is slowly being grown over by cedar, black spruce, and tamarack.																																										
5	622 - Lowland Shrub	Nonstocked	4.1			No																																											
6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.2	80	81-110	N/A	The paper birch are dying out of the stand. The red maple are mostly of poor quality. There are some wet pockets blocking off the west edge of the stand at the compartment line, but there is a path around the wet pockets to the north and south as you had east into the stand.																																										
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Canopy Species	% Cover	Size Class	DBH	Age																																													
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Red Pine	Low	Variable	Sapling																																														
White Pine	Low	Variable	Sapling																																														
7	6123 - Lowland Fir	Poletimber Well	3.4	48	1-50	N/A	This stand has wet pockets that likely have a reasonably strong base. The stand would need to be harvested in dry summer.																																										
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8	6116 - Lowland Birch	Poletimber Poor	31.7	70	1-50	N/A	For all intensive management purposes, this is lowland shrub. There are scattered trees throughout. The stand is full of standing and flowing water.																																										
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9	4137 - Aspen, Birch	Poletimber Well	13.1	52	51-80	N/A																																																			
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10	6120 - Lowland Cedar	Poletimber Well	11.2	125	171-200	N/A	There is standing water throughout. The cedar is growing on clumps of ground. This stand is too wet to harvest.																																																		
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11	622 - Lowland Shrub	Nonstocked	0.5			No																																																			
12	622 - Lowland Shrub	Nonstocked	4.0			No																																																			
13	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.2	95	51-80	N/A	Aerial imagery reveals a large cedar dominated stripe through the center of the stand and tamarack dominated areas along the outside edges. This stand is too wet to harvest. There is standing and flowing water throughout.																																																		
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14	6113 - Lowland Maple	Poletimber Well	3.8	70	51-80	N/A	The stand has very much soil. This stand is too at the harvest.																																																		
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15	4193 - Birch, Aspen	Poletimber Well	23.3	90	81-110	N/A	Access to the stand is made difficult by the lowland shrub pocket that runs along It's western edge. Access to the western third of the stand is from the west at the northwest corner; north of the lowland shrub pocket in the adjacent compartment, through a very mucky lowland deciduous area. Access to the central region of the stand is from the west along the northern edge, north of the lowland shrub pocket. Access to the eastern part of the stand is from the west through a 50-foot wide north-south running drainage located at the southern edge of the stand. There is trace oak in the stand. There are two upland herbaceous pockets with low density trees on the east sides of the large lowland shrub pockets. There is a 3 acre lowland deciduous pocket dominated by red maple and paper birch along the eastern edge of the stand.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	622 - Lowland Shrub	Nonstocked	2.2			No	
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17	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	43.5	55	1-50	N/A	This stand is too wet too harvest. Mucky soils are present throughout.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	11		Tag Alder	Full	5 - 10 feet	Tall Shrub
Paper Birch	30	Pole/Log	8	55	Balsam Fir	Low	Variable	Sapling
Balsam Poplar	20	Log/Pole	11		Glossy Buckthorn	Low	5 - 10 feet	Tall Shrub
Balsam Fir	15	Pole/Sapling	6					
Black Spruce	10	Pole	6					
Tamarack	5	Log/Pole	10					

18	310 - Herbaceous Openland	Nonstocked	1.3		Immature	No	
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19	4131 - Aspen, Oak	Poletimber Well	30.3	55	81-110	N/A	The harvest of this stand was completed in December of 1965 as Timber Sale Permit 84-65. All aspen, paper birch, and red maple were harvested. No harvesting was allowed within a paint line established 75-100 feet from Devils Lake. The age of the aspen matches the cut record. The structure of the canopy indicates that all oak and pine were retained during the 1965 harvest. The aspen had plenty of room to grow and are healthy. The white pine in the under story is heaviest to the north and the red pine is found in a more open understory to the south.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	60	Pole	9	55	White Pine	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	25	Log	13	105	Red Pine	Low	Variable	Sapling
Red Pine	15	Log	13					

20	710 - Sand, Soil	Nonstocked	1.9			No	This area is all sand. Attempts made to block off the east end of the stand with rocks to keep off-road traffic out have failed. The water's edge at Devils Lake is blocked off by a line of large limestone rocks.
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21	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	13.3	7	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	55	Sapling	1	7	Sedges	Full	Unspecified	Non-Wood
Bigtooth Aspen	15	Sapling	1					
White Pine	25	Sapling	2					
Red Pine	5	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**22** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 26.4 56 51-80 N/A The diameter of the aspen, balsam fir, and red maple very throughout the stand. The upland ridge in the middle of the stand has the largest diameter trees and was not cut last entry.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	30	Pole	6	49
Paper Birch	5	Log/Pole	10	
Red Maple	30	Pole/Log	8	
Balsam Poplar	3	Log/Pole	11	
Quaking Aspen	30	Log/Pole	10	56
Black Spruce	2	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Glossy Buckthorn	Low	5 - 10 feet	Tall Shrub

**23** 6220 - Alder/willow Nonstocked 10.4 No

**24** 330 - Low-Density Trees Nonstocked 1.3 No This opening, unique to the area, is slowly growing in with aspen, balsam fir, spruce, and oak.

**25** 4199 - Other Mixed Upland Deciduous Sawtimber Well 31.0 48 81-110 N/A The aspen are healthy and have enough canopy room to grow. The oak and aspen are highly variable in diameter.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	11	
Black/Red (Hybrid) Oak	35	Log	16	94
Paper Birch	10	Pole/Log	9	
Bigtooth Aspen	36	Pole/Log	8	48
White Pine	3	Log	12	
Red Pine	3	Log	13	
Balsam Fir	2	Pole	6	
Quaking Aspen	1	Pole/Log	8	48

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	>20 feet	Sapling
White Pine	Medium	< 5 feet	Sapling
Black Cherry	Low	< 5 feet	Sapling

**26** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 23.7 55 81-110 N/A This stand has some dry ridges but is mostly wet.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	38	Pole/Log	9	55
Paper Birch	7	Pole	7	
Quaking Aspen	38	Pole/Log	8	55
White Pine	1	XLog/Log	20	
Balsam Fir	14	Pole/Sapling	6	
Red Pine	1	Log	12	
Black Spruce	1	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Full	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**27** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 14.3 80 1-50 N/A A majority of the stand was holding water in March of 2021. The soil is very mucky. This stand is too wet to harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Log	13	80
Paper Birch	15	Pole/Log	8	
Balsam Poplar	10	Log	12	
Balsam Fir	25	Pole	6	
Black Spruce		Sapling/Pole		
Quaking Aspen	1	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	High	Variable	Sapling
Glossy Buckthorn	Low	5 - 10 feet	Tall Shrub
Black Ash	Low	Variable	Sapling

**28** 4191 - Mixed Upland Deciduous with Conifer Sapling Poor 27.9 7 Immature N/A There are scattered residual oak throughout the stand retained during the last harvest. This stand was part of Timber Sale No. 54-024-13-01. The harvest was completed on 8/4/2015.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Sapling	1	
Red Pine	5	Sapling	4	
White Pine	30	Sapling	1	
Black/Red (Hybrid) Oak	50	Sapling	1	7
Bigtooth Aspen	10	Sapling	1	7

Sub-Canopy Species	Density	Avg. Height	Size
Sedges	Full	Unspecified	Non-Wood

**29** 4125 - Black, N. Pin Oak Sawtimber Well 12.7 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Log	12	
Black/Red (Hybrid) Oak	70	Log/Pole	12	97
White Pine	10	Pole	6	
Red Pine	15	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
Sweet Fern	High	< 5 feet	Tall Shrub

**30** 330 - Low-Density Trees Nonstocked 1.2 No This is a upland ridge opening, unique to the area, that is slowly filling in with balsam fir, oak, spruce, and aspen.

**31** 42210 - Natural Red Pine Sawtimber Well 6.4 100 81-110 N/A The red pine mostly runs out at the north end of the stand and is replaced by white pine and oak.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	75	Log	13	100
Black/Red (Hybrid) Oak	10	Log	14	
White Pine	10	Log/XLog	16	
Red Maple	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**32** 6130 - Fir, Aspen, Maple Sapling Well 19.5 36 1-50 N/A Pockets of lowland shrub are present throughout the northern half. The southern half of the stand is dominated by balsam fir.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	5	Sapling/Pole	4		Balsam Fir	Full	Variable	Sapling
Quaking Aspen	40	Pole/Sapling	5	36				
Balsam Fir	40	Sapling/Pole	4					
Black Spruce	2	Sapling/Pole	4					
Black/Red (Hybrid) Oak	1	Pole/Sapling	5					
Balsam Poplar	2	Pole/Sapling	6					

**33** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 4.2 94 1-50 N/A This stand is too wet to harvest. There is lots of windthrow in this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log	13	94	Balsam Fir	Low	Variable	Sapling
Paper Birch	20	Log/Pole	10		Glossy Buckthorn	Low	5 - 10 feet	Tall Shrub
Balsam Fir	35	Pole	7					
Northern White Cedar	5	Log	12					

**34** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Poor 31.5 113 1-50 N/A This stand is too wet to harvest. A 9" DBH black spruce aged at 103 + 10 = 113 in March 2021. This is a very old age for black spruce in Alpena County. This is a more open canopy stand with scattered windthrow and a maze of sapling balsam fir mixed in with tag alder.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	11		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	25	Pole/Log	9	113				
Northern White Cedar	15	Pole	8					
Tamarack	19	Log/Pole	10					
Paper Birch	5	Pole	7					

**35** 6124 - Lowland Spruce-Fir Poletimber Well 16.3 70 51-80 N/A In March 2021 a 6" DBH black spruce aged at 60 + 10 = 70 years. Most of the stand is too wet to harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	7		Balsam Fir	High	Variable	Sapling
Quaking Aspen	8	Pole	7					
Black Spruce	36	Pole	6	70				
White Spruce	2	Pole	6					
Balsam Fir	32	Pole	7					
Paper Birch	5	Pole	6					
Northern White Cedar	1	Log/Pole	10					
Balsam Poplar	1	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**36** 42221 - Natural Jack Pine, Mixed Deciduous Sapling Well 16.9 27 1-50 N/A

The harvest of this stand was completed in June of 1994 as part of Timber Sale Name: Devil's Crane Sale; Timber Sale No.: 54-049-93-01. The stand is well-stocked full of healthy regeneration.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Sapling	3	27
Black/Red (Hybrid) Oak	20	Pole/Sapling	5	27
Jack Pine	65	Sapling/Pole	4	27

**37** 6120 - Lowland Cedar Poletimber Well 56.9 190 51-80 N/A

The stand is dominant the pole sized cedar in the central half of the stand. The outer regions of the stand are more diverse with some small log-sized cedar. This stand is too wet too harvest. When aged in March 2021, a 7" DBH Cedar aged in older than 170 and the best estimate based on a center core that could not be counted is an age of around 190 years old. This is uncommonly old, even for cedar. Flowing water was seen in the northwest portion of this stand but not in a stream like fashion.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Sapling	5		Balsam Fir	High	< 5 feet	Sapling
Black Spruce	15	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	64	Pole	6	190				
Balsam Poplar	1	Pole	5					
Balsam Fir	15	Pole/Sapling	5					

**38** 6112 - Lowland Aspen Poletimber Well 11.4 45 51-80 N/A

The central 2 acres of the stand looks different in the imagery due to it being dominated by balsam fir. The aspen are somewhat bigger in diameter to the west.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Pole	7	45	Balsam Fir	Full	Variable	Sapling
Paper Birch	5	Pole	6		Glossy Buckthorn	Low	5 - 10 feet	Tall Shrub
Balsam Fir	30	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	10	Pole	8		Willow spp.	Low	5 - 10 feet	Sapling

**39** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 16.0 102 81-110 N/A

The oak are smaller and diameter towards the east end of the stand. There is a half to one acre pole size jackpine pocket at the east edge of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Log/Pole	11		Jack Pine	Trace	< 5 feet	Sapling
Black/Red (Hybrid) Oak	55	Log/Pole	11	102	Balsam Fir	Trace	Variable	Sapling
Jack Pine	35	Pole/Log	9					

**40** 4131 - Aspen, Oak Sawtimber Well 16.0 60 81-110 N/A

This is really a two aged stand. The second age would be on the oak. On timber permits 66-62 (N Q-Q) and 56-62 (S Q-Q) that were closed in August and April of 1964 respectively, all aspen, paper birch, and red maple (approx. 7 and 13 cords per acre respectively) with a merchantable stick were harvested from 65 acres of the 2 quarter-quarters that this stand covers.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	6		Balsam Fir	Medium	< 5 feet	Sapling
Red Oak	30	Log	15					
Bigtooth Aspen	40	Pole	7	60				
Red Pine	5	XLog/Log	19					
Paper Birch	5	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>41</b>	6112 - Lowland Aspen	Poletimber Well	12.2	57	51-80	N/A	Core aging a quaking aspen confirms the harvest date of 1964. Very mucky soils present. This stand can only be harvested in the driest of summer conditions. On timber permits 66-62 (N Q-Q) and 56-62 (S Q-Q) that were closed in August and April of 1964 respectively, all aspen, paper birch, and red maple (approx. 7 and 13 cords per acre respectively) with a merchantable stick were harvested from 65 acres of the 2 quarter-quarters that this stand covers.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		20	Log/Pole	10		Red Maple		Medium	5 - 10 feet	Sapling
Paper Birch		10	Pole/Log	8		Balsam Fir		Full	Variable	Sapling
Quaking Aspen		40	Pole/Log	9	57					
Balsam Fir		20	Pole	7						
Green Ash		5	Pole	7						
Balsam Poplar		5	Pole/Log	9						
<b>42</b>	622 - Lowland Shrub	Nonstocked	1.2		Immature	No				
<b>43</b>	4123 - Red Oak	Sawtimber Poor	3.1	105	1-50	N/A	Much of the stand is an old wildlife opening that is growing over with red pine seedlings. On timber permit 56-62 that was closed in April of 1964 all aspen, paper birch, and red maple (approx. 13 cords per acre) with a merchantable stick were harvested from 35 acres of this quarter-quarter.			
<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		5	Pole/Sapling	6		Balsam Fir		Low	Variable	Sapling
Red Oak		85	Log/XLog	16	105	Red Pine		Low	Variable	Sapling
Red Pine		10	Log	12						
<b>44</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	9.4	45	1-50	N/A	Black spruce is concentrated in the southeast, jack pine is concentrated in the northeast, tamarack is concentrated to the west, and red maple to the south. The east forest floor is moss and leather leaf covered to the east. The west half has an under story of lowland shrub. A 6" DBH jack pine aged at 40 + 5 = 45 in March of 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>
White Pine		3	Log	13		Black Spruce		Low	Variable	Sapling
Jack Pine		25	Pole	6	45	Tamarack		Low	Variable	Sapling
Black Spruce		22	Pole	6		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Tamarack		22	Pole	8		Michigan Holly		Low	5 - 10 feet	Tall Shrub
Red Pine		3	Log	12						
Northern White Cedar		10	Pole/Sapling	5						
Paper Birch		2	Sapling	3						
Red Maple		13	Pole	6						
<b>45</b>	6112 - Lowland Aspen	Poletimber Well	24.7	34	1-50	N/A	Scattered log sized cedar and spruce retained during the last harvest are present at an insignificant BA. This stand is harvestable but has some very wet areas and pockets. The age of this stand matches the cut record that follows. In April of 1988 a timber sale including the harvest of 78 acres was completed in the vicinity of this stand. This was Timber Sale Name: Stray Cat Block; Timber Sale No.: 54-078-83-01. All trees with a merchantable stick were harvested with the exception of red pine.  Standing and flowing water through stand. Saturated muck soils.			
<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		9	Pole/Sapling	7		Balsam Fir		High	Variable	Sapling
Quaking Aspen		60	Pole/Sapling	6	34	Black Ash		Medium	Variable	Sapling
Balsam Poplar		5	Pole	6	34					
Balsam Fir		15	Pole/Sapling	6						
Black Ash		5	Pole	6						
Paper Birch		5	Sapling/Pole	4						
Black/Red (Hybrid) Oak		1	Pole	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>46</b>	42250 - Pine, Oak	Sapling Well	26.7	15	1-50	N/A	The harvest of this stand was completed in June of 2006 as part of Timber Sale Name: PIOB MOR; Timber Sale No.: 54-24-03-01. The prescription called for soil scarification through full tree skidding and the protection of red pine, white pine, cedar, and oak regeneration/also protection of dogwood thorn apple, and juneberry. The soil scarification worked to regenerate jack pine at varying densities throughout the stand. Very little, if any, white pine, red pine, cedar, and oak regeneration was present that would have been protected during the last harvest. Manage the stand into the future for jackpine.																																																		
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<b>47</b>	4310 - Pine, Oak Mix	Sawtimber Well	44.3	84	81-110	N/A	Some small pockets of red pine are of the legacy type. The far northwestern edge of this stand has less red pine and is more dominate to oak.																																																		
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<b>48</b>	4130 - Aspen	Poletimber Well	1.2	37		N/A	This stand is a continuation of the stand to the south that could not be merged.																																																		
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<b>49</b>	42210 - Natural Red Pine	Sapling Medium	3.1	10	Immature	N/A	This stand was harvested in December of 2007; Timber Sale Name: Devils Twisted Pine; Timber Sale Number: 54-004-08-02. This was a tornado salvage of of red pine. During the 2023 YOE Inventory the red pine had on average world count of 10. The salvage sale of the tornado windthrown red pine likely scarified the soil and created a soil bed for the red pine that are now growing there. Successful regeneration of natural red pine is rare.																																																		
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<b>50</b>	6130 - Fir, Aspen, Maple	Poletimber Well	12.9	61	51-80	N/A	This stand has low wet ground throughout. An 8" DBH quaking aspen aged at 61 years in March of 2021. The trees very in diameter throughout based and the amount of soil moisture. Diameters amongst aspen and balsam fir are highly variable.																																																		
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<b>51</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	6.6	28	51-80	N/A	This stand was harvested in September of 1993 as part of Timber Sale Name: Sawdust Seed Tree; Timber Sale Number: 54-048-92-01. All trees were harvested with the exception of 9.4 BA of red pine, jack pine, and oak. Less than 10 BA of log sized red pine, jack pine, and oak remain in the overstory.																																																		
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<b>52</b>	4133 - Aspen, Mixed Pine	Poletimber Well	48.7	37	81-110	N/A	The harvest of this stand was completed in 1984 as part of Timber Sale Name: Shoreline Strip; Timber Sale No.: 54-064-83-01. All trees with a merchantable stick were harvested with the exception of red pine. Trace northern white cedar, white spruce, and black spruce and hemlock are present in the canopy. The central region of the stand it is more dominant to aspen, red maple, and oak. The north and south ends of the stand have the most canopy species diversity. This stand is part of the Squaw Bay Dune Swale Complex ERA. This stand has more dune ridges than swale.																																																		
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<b>53</b>	4122 - Oak, Pine	Sawtimber Well	12.2	102	51-80	N/A	The jackpine are dying out of the stand due to natural mortality. The oak are of lower end timber quality.																																																		
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<b>54</b>	6111 - Lowland Balsam Poplar	Poletimber Well	7.7	33	Immature	N/A	From the stumps present from the previous harvest this stand was previously dominant to cedar. This stand has wet mucky soil throughout. The slightly lower elevation in this stand lends to it having more balsam poplar than quaking aspen. In April of 1988 a timber sale including the harvest of 78 acres was completed in the vicinity of this stand. This was Timber Sale Name: Stray Cat Block; Timber Sale No.: 54-078-83-01. All trees with a merchantable stick were harvested with the exception of red pine.																																																		
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<b>55</b>	4130 - Aspen	Poletimber Well	67.4	52	81-110	N/A	The oak are a mixture of remnant log sized trees and pull-sized oak that regenerated from the last harvest. The 50 to 100 feet along the shoreline of Devils Lake is more dominant to log sized oak having seen less management in the past.																																																																		
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<b>56</b>	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	75.9	47	1-50	N/A	In October of 1994 in the central region of this stand, five 1 to 1.5 acre squares were cut out of this stand as part of a five spot harvest as part of Timber Sale Name: Piper Five Spot Sale; Sale No.: 54-068-93-01. Only trees with a merchantable stick were harvested from these squares. Since then the rest of the area surrounding the five spot harvest squares has been harvested. This is a very small diameter jackpine for an age of 47, but the core rings were clear. Aging a 6" DBH inch quaking aspen gave the same age.																																																																		
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<b>57</b>	622 - Lowland Shrub	Nonstocked	10.4			No																																																																			
<b>58</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	76.5	125	81-110	N/A	This stand is part of the Squaw Bay Dune Swale Complex Ecological Reference Area (ERA). The stand alternates between high and low ground north-south running dune ridges and swale depressions created over centuries by the receding lake Huron shoreline. A majority of the ridges are relatively low ground and most experience seasonal flooding. This stand is more dominated by swale depressions than the Dune Ridge Stand to the South. The ridges that exist are dominated by Northern White Cedar. The highest ground ridges is where mature red pine and white pine within the canopy are located. This stand does not have the invasive glossy buckthorn problem that dune-swale stands to the north have.																																																																		
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<b>59</b>	6120 - Lowland Cedar	Sawtimber Well	96.4	125	141-170	N/A	This stand is part of the Squaw Bay Dune Swale Complex Ecological Reference Area (ERA). The stand alternates between high and low ground north-south running dune ridges and swale depressions created over centuries by the receding lake Huron shoreline. There are trace amounts of hemlock, black spruce, and white spruce in the canopy. A majority of the ridges are relatively low ground but not all experience seasonal flooding. These ridges are dominated by Northern White Cedar. The highest ground ridges is where mature red pine and white pine within the canopy are located. This stand does not have the invasive glossy buckthorn problem that dune-swale stands to the north have.																																																																		
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<b>60</b>	4125 - Black, N. Pin Oak	Sawtimber Well	21.5	103	1-50	N/A	Recent shelterwood. Good advanced jack pine regen. The harvest of this stand was completed in June of 1994 as part of Timber Sale Name: Devil's Crane Sale; Timber Sale No.: 54-049-93-01. All red pine, white pine, and oak were protected during the harvest. The jack pine have stunted growth beneath the oak canopy.																																																
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<b>61</b>	6139 - Mixed Lowland Forest	Poletimber Poor	15.5	75	1-50	N/A	This stand is too wet to the harvest. This is also unproductive forest land where timber is concerned.																																																
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<b>62</b>	4310 - Pine, Oak Mix	Poletimber Well	39.4	47	81-110	N/A	The stand is less dense to the south. Scattered remnant log size red pine and oak are present throughout the stand.																																																
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<b>63</b>	123 - Other High Intensity Urban	Nonstocked	47.5			No	This is railroad tracks and a gas pipeline easement.																																																
<b>64</b>	6113 - Lowland Maple	Poletimber Well	8.7	70	51-80	N/A	This stand is too wet to harvest.																																																
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<b>65</b>	4131 - Aspen, Oak	Poletimber Well	21.7	42	81-110	N/A	28 acres of this stand at the north end was harvested and is now a new stand. The 2013 inventory data determined this stand to be 4310-Pine, Oak Mix. The overstory and understory data was not retained for this uncut portion of the stand.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
66	4130 - Aspen	Poletimber Well	15.8	52	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		5	Pole/Log	8		Balsam Fir	
Black/Red (Hybrid) Oak		15	Log	14		Low	
Paper Birch		5	Pole	6		Variable	
Bigtooth Aspen		70	Pole	7	52	Sapling	
Balsam Fir		5	Pole	6			
67	4311 - Pine, Aspen Mix	Sawtimber Well	12.4	70	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black/Red (Hybrid) Oak		20	Log/Pole	12			
Jack Pine		35	Log/Pole	10			
Red Pine		10	Log/Pole	12			
Bigtooth Aspen		35	Log	11	70		
68	4125 - Black, N. Pin Oak	Sawtimber Well	21.1	105	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black/Red (Hybrid) Oak		90	Log/Pole	12	105	White Pine	
White Pine		5	Pole/Log	8		High	
Red Pine		5	Log/XLog	17		10 - 20 feet	
						Sapling	
						Red Pine	
						Low	
						Variable	
						Sapling	
69	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	10.0	76	51-80	N/A	The east end of the stand is more dominant to balsam fir and the west end of the stand is more dominant to red maple. The oak is in the northeast point of the stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		45	Log/Pole	11	76	Balsam Fir	
Balsam Fir		34	Pole	7		High	
Black/Red (Hybrid) Oak		1	Log/Pole	10		Variable	
Paper Birch		10	Pole/Log	8		Sapling	
Quaking Aspen		10	Pole/Log	8			
70	4130 - Aspen	Poletimber Well	11.1	27	51-80	N/A	The harvest of this stand was completed in 1984 as part of Timber Sale Name: Shoreline Strip; Timber Sale No.: 54-064-83-01. All trees with a merchantable stick were harvested with the exception of red pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		80	Pole/Sapling	5	27	White Pine	
Black/Red (Hybrid) Oak		10	Pole	6		Trace	
Jack Pine		5	Pole	6	27	Variable	
Red Maple		5	Pole/Sapling	5		Sapling	
						Red Pine	
						Trace	
						Variable	
						Sapling	
						Balsam Fir	
						Low	
						Variable	
						Sapling	
						Jack Pine	
						Trace	
						Variable	
						Sapling	
71	310 - Herbaceous Openland	Nonstocked	3.0		Immature	No	This is an upland herbaceous opening with red maple, balsam fir, red pine, white pine, cedar, and paper birch slowly filling in from the sides. A three foot wide stream runs from west to east along the southern edge of the stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>72</b>	6120 - Lowland Cedar	Poletimber Well	15.4	114	111-140	N/A	This stand is too wet to harvest. The stand becomes more wet and the cedar becomes smaller in diameter as you move from west to east in the stand. There is a long narrow lowland coniferous, mixed deciduous 1.8 acre pocket running along the north edge of the stand dominated by pole size balsam fir and log size red maple.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		5	Pole	7		Balsam Fir		
Balsam Fir		15	Pole/Sapling	5		High		
Northern White Cedar		80	Pole/Log	9	114	Avg. Height		
						Size		
						10 - 20 feet		
						Sapling		
<b>73</b>	6121 - Tamarack	Poletimber Well	5.8	54	1-50	N/A	A 6 inch DBH tamarack aged at 49 plus 5 equals 54 years of age. This stand is too wet to harvest.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Tamarack		83	Pole	6	54	Tag Alder		
Northern White Cedar		10	Pole/Sapling	5		High		
Paper Birch		5	Pole/Sapling	5		Avg. Height		
Black Spruce		1	Pole/Sapling	5		5 - 10 feet		
Red Maple		1	Pole/Sapling	5		Tall Shrub		
						Glossy Buckthorn		
						Low		
						5 - 10 feet		
						Tall Shrub		
<b>74</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	1.4	114	81-110	N/A	This is a nice little ridge that adds diversity to the area. The cedar are more to the west and the oak are more to the east.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		30	Log	11		Balsam Fir		
Paper Birch		5	Pole	8		Medium		
Balsam Fir		25	Pole/Log	9	59	Avg. Height		
Northern White Cedar		30	Log	11	114	< 5 feet		
Black/Red (Hybrid) Oak		5	Log/Pole	12		Sapling		
Tamarack		5	Pole	8		Tag Alder		
						Medium		
						< 5 feet		
						Tall Shrub		
<b>75</b>	622 - Lowland Shrub	Nonstocked	1.1			No		
<b>76</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	7.5	58	81-110	N/A	This is a mixed bag small-ridge stand. The stand adds some nice species and larger tree diversity to an area that has seen a lot of management.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		15	Log	12		Balsam Fir		
Bigtooth Aspen		22	Log	12	58	Low		
Paper Birch		20	Pole	8		Avg. Height		
Balsam Fir		10	Pole/Log	8	35	Variable		
Black/Red (Hybrid) Oak		20	Log/XLog	17		Sapling		
Red Pine		10	Log/XLog	15				
White Pine		3	XLog/Log	19				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
77	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	4.2	70	51-80	N/A	For all intensive management purposes this is lowland shrub with scattered pull to log-sized red maple and pole sized paper birch.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		45	Pole/Log	8	70	Tag Alder	
Balsam Fir		10	Pole	6		Michigan Holly	
Paper Birch		45	Pole	7	70	Density	
						Avg. Height	
						Size	
78	4125 - Black, N. Pin Oak	Sawtimber Well	14.4	105	51-80	N/A	This stand has seen various disturbances/management creating an uneven aged stand between the aspen, jack pine, and oak.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black/Red (Hybrid) Oak		88	Log/Pole	12	105	Red Pine	
Bigtooth Aspen		5	Log/Pole	10		White Pine	
Red Pine		2	Log	12		Balsam Fir	
Jack Pine		5	Pole/Sapling	6		Density	
						Avg. Height	
						Size	
79	4125 - Black, N. Pin Oak	Sawtimber Well	5.8	105	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black/Red (Hybrid) Oak		80	Log	12	105	Balsam Fir	
Bigtooth Aspen		10	Log	12		White Pine	
Jack Pine		10	Pole/Sapling	5		Density	
						Avg. Height	
						Size	
80	622 - Lowland Shrub	Nonstocked	4.2			No	
81	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	10.5	44	1-50	N/A	While similar to stands to the west, this stand is too at the harvest.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		20	Pole	8		Tag Alder	
Quaking Aspen		5	Pole/Sapling	7		Balsam Fir	
Balsam Poplar		20	Pole	7		Density	
Balsam Fir		25	Pole/Sapling	6	44	Avg. Height	
Paper Birch		20	Pole	7		Size	
Black Spruce		10	Pole	7			
82	622 - Lowland Shrub	Nonstocked	2.5		Immature	No	
83	6112 - Lowland Aspen	Poletimber Well	5.2	35	1-50	N/A	This stand is too wet to harvest. The stand age matches the following harvest record. In April of 1988 a timber sale including the harvest of 78 acres was completed in the vicinity of this stand. This was Timber Sale Name: Stray Cat Block; Timber Sale No.: 54-078-83-01. All trees with a merchantable stick were harvested with the exception of red pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		40	Pole	7	35	Tag Alder	
Balsam Poplar		5	Sapling	3	35	Balsam Fir	
Balsam Fir		10	Pole/Sapling	5		Black Ash	
Paper Birch		45	Pole	6	35	Density	
						Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>84</b>	42210 - Natural Red Pine	Sawtimber Poor	2.5	86	51-80	N/A	This small red pine stand makes for a nice diversity pocket to the area. The southern portion of this red pine stand was struck by a tornado, and after a salvage harvest is now a separate stand.																																										
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<b>85</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	4.7	49	51-80	N/A	Although it has its mud pockets, this stand should be harvestable in dry summer.																																										
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<b>86</b>	42210 - Natural Red Pine	Sawtimber Well	9.5	83	81-110	N/A	A 11.5" DBH red pine aged at 77 + 6 = 83.																																										
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<b>87</b>	622 - Lowland Shrub	Nonstocked	3.4		Immature	No	Stand under water.																																										
<b>88</b>	6120 - Lowland Cedar	Sawtimber Well	4.5	114	111-140	N/A	The cedar is found in pockets. This stand is too wet to harvest.																																										
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<b>89</b>	6123 - Lowland Fir	Poletimber Medium	2.7	59	1-50	N/A	This stand is too wet too harvest. A 7" DBH balsam fir aged at 49 + 10 = 59 years of age. There is lots of windthrow.																																										
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<b>90</b>	622 - Lowland Shrub	Nonstocked	1.5		Immature	No	This is dense lowland shrub with some stunned cedar mixed in.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
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92	6115 - Lowland Ash	Sapling Well	0.8	5	Immature	N/A	This is a drainage area through what is already low ground. It is dominated by young ash trees that will likely be hit by emerald ash borer when they reach a couple inches in diameter.																																															
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93	6112 - Lowland Aspen	Poletimber Well	7.1	39		N/A	This stand has wet mucky soil throughout. The slightly higher elevation in this stand lends to it having more quaking aspen than balsam poplar.																																															
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94	6112 - Lowland Aspen	Sawtimber Well	10.2	57	51-80	N/A	This stand is more wet than the wet stand 41 to the SW in most areas and this stand is especially wet to the SE. This stand may have been harvest able when the winters were colder. This stand is too wet to harvest now.																																															
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95	6120 - Lowland Cedar	Poletimber Well	14.3	70	141-170	N/A	In the east end of this stand there are some higher ground more vigorously growing cedar. The age for this stand was taken in the higher ground area. Northeastern portions of this stand may be too wet to harvest.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
96	4310 - Pine, Oak Mix	Sawtimber Well	1.8	80	81-110	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		5	Pole	6		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Quaking Aspen		20	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Red Pine		50	Log	13	80	Red Pine	Low	Variable	Sapling
Bigtooth Aspen		5	Log	12					
Jack Pine		5	Pole/Log	8					
Black/Red (Hybrid) Oak		15	Pole	6					
97	622 - Lowland Shrub	Nonstocked	1.7			No			
98	42330 - Upland Fir	Poletimber Well	2.3	62	51-80	N/A	The stand is open in the center.		
<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		6	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Paper Birch		10	Pole/Log	9					
Balsam Fir		70	Pole/Log	8	62				
Bigtooth Aspen		2	Log	12					
Black/Red (Hybrid) Oak		5	Pole/Log	8					
Quaking Aspen		7	Log/Pole	10					
99	622 - Lowland Shrub	Nonstocked	1.7		Immature	No			
100	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	2.0	49	1-50	N/A	This stand is borderline too wet to harvest but can be harvested during dry summer.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
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Paper Birch		40	Pole/Log	9		Balsam Fir	Full	Variable	Sapling
Balsam Fir		10	Pole/Sapling	6					
101	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	9.4	70	1-50	N/A	This stand is highly wet at the west end. The ground becomes higher as you move east.		
<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>
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Quaking Aspen		25	Log/Pole	12	70	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir		20	Pole/Sapling	5					
Black Spruce		5	Pole	6					
Northern White Cedar		5	Log/Pole	10					
Paper Birch		15	Pole	7					
Balsam Poplar		5	Pole	7					
White Spruce		5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>102</b>	6120 - Lowland Cedar	Poletimber Well	2.5	89	111-140	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		5	Pole	6		Balsam Fir	
Black Spruce		5	Pole/Log	9		Tag Alder	
Northern White Cedar		75	Pole	6	89	Medium	
Tamarack		15	Pole	7		5 - 10 feet	
						Tall Shrub	

<b>103</b>	6239 - Mixed Emergent Wetland	Nonstocked	2.1		Immature	No	This is marsh.
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<b>104</b>	6120 - Lowland Cedar	Poletimber Well	1.4	114	1-50	N/A	This is a narrow strip of lowland but slightly higher ground trees pinched between lowland shrub and lower ground tamarack. This stand is too wet and isolated to be harvested.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Tamarack		45	Log/Pole	10		Tag Alder	
Northern White Cedar		55	Log/Pole	11	114	Glossy Buckthorn	
						High	
						5 - 10 feet	
						Tall Shrub	

<b>105</b>	622 - Lowland Shrub	Nonstocked	4.0		Immature	No	For all intensive management purposes, this is lower and shrub. There are scattered pole sized spruce, red maple, and paper birch mixed in.
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<b>106</b>	4319 - Mixed Upland Forest	Sawtimber Well	2.6	70	81-110	N/A	Due to the small size of the stand and the high level of diversity, an estimate was done on the age.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		13	Log	15		Balsam Fir	
Bigtooth Aspen		15	Log	15		Medium	
Black Spruce		10	Pole	8		Variable	
Red Maple		15	Log/Pole	11		Sapling	
White Spruce		10	Log/Pole	11			
Paper Birch		10	Pole	8			
Balsam Fir		20	Pole	8	70		
White Pine		2	XLog	22			
Quaking Aspen		5	Log	14			

<b>107</b>	42330 - Upland Fir	Poletimber Medium	5.1	45	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>	
Balsam Fir		94	Pole/Sapling	6	45	Balsam Fir	
Red Maple		5	Log	12		Low	
Black/Red (Hybrid) Oak		1	Pole	8		Variable	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
<b>108</b>	6120 - Lowland Cedar	Sawtimber Well	6.6	114	141-170	N/A	The cedar concentration is towards 85 percent in the SE corner where the cedar average 12" DBH.																																																
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<b>109</b>	6124 - Lowland Spruce-Fir	Poletimber Well	6.7	73	51-80	N/A	This stand is not too wet to harvest as the similar stand to the east is. This has a more dense canopy and some slightly higher ground. A stream winding through the stand makes access to the full stand difficult. There are some extremely large quaking aspen in this stand that give the impression that this stand has not seen a harvest in a very long time.																																																
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<b>110</b>	622 - Lowland Shrub	Nonstocked	5.5		Immature	No	This is a drainage that looks to be flowing from west to east.																																																
<b>111</b>	6124 - Lowland Spruce-Fir	Poletimber Well	1.1	47	1-50	N/A	The age of the trees are variable: 3" balsam poplar 22 years; 3" and 4" DBH balsam fir 43 to 51 years; paper birch 24 years. In the portions of this strip cut that were observed, there was only trace cedar.																																																
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<b>112</b>	622 - Lowland Shrub	Nonstocked	3.2			No																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>114</b>	6112 - Lowland Aspen	Poletimber Well	14.3	50	51-80	N/A	All aspen, paper birch, and red maple with a merchantable stick were harvested from 100 acres of Section 20 S2SW and Section 29 NW4 in a harvest that was completed in 1965; Permit No. 48-62A. Spruce and balsam fir were retained as a seed source in hopes that wet areas that could convert to lowland shrub would over time become lowland coniferous forest.	
<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	Log/Pole	10		Balsam Fir		
Paper Birch		5	Pole/Sapling	5		Tag Alder		
Quaking Aspen		45	Pole	7	50	Glossy Buckthorn		
Balsam Poplar		15	Pole	8				
Balsam Fir		25	Pole/Sapling	6				
<b>115</b>	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	3.1	65	81-110	N/A	This stand is mostly a line of small diameter cedar that sits between lowland shrub and upland forest.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		1	Log	13		Balsam Fir		
Red Oak		5	Pole/Sapling	6				
Paper Birch		5	Pole	7				
White Pine		5	Log/Pole	12				
Northern White Cedar		49	Pole	6	65			
White Spruce		5	Pole	6				
Balsam Fir		25	Pole/Sapling	6				
Black Spruce		5	Pole	8				
<b>116</b>	42340 - Upland Spruce/Fir	Poletimber Well	3.5	49	81-110	N/A	This stand is more diverse and more dense than the similar stand to the west.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		15	Log	12		Balsam Fir		
Paper Birch		5	Pole/Log	9				
Quaking Aspen		20	Pole/Sapling	5				
Black Spruce		10	Log/Pole	10				
Balsam Fir		50	Pole	6	49			
<b>117</b>	6113 - Lowland Maple	Sawtimber Well	17.2	82	51-80	N/A	There is a four foot wide stream running west to east in the north half of the stand that empties into Devils Lake. This stand is harvestable and dry summer period.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		70	Log/Pole	11	82	Red Maple		
Balsam Fir		10	Pole	6		Balsam Fir		
Paper Birch		18	Pole/Log	8		Japanese Barberry		
Quaking Aspen		2	XLog/Log	19		Trace		
<b>118</b>	622 - Lowland Shrub	Nonstocked	1.3		Immature	No	New stand added. Stand is between Devil's lake and a steep ridge. No Access.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		70	Pole	6	94	Balsam Fir		
Paper Birch		20	Pole	6				
Quaking Aspen		10	Pole	6				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**119** 622 - Lowland Shrub Nonstocked 1.2 Immature No

**120** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 7.8 67 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole/Log	8		Balsam Fir	High	Variable	Sapling
Paper Birch	35	Pole	7		Glossy Buckthorn	High	5 - 10 feet	Tall Shrub
Red Maple	50	Pole/Log	8	67				
Northern White Cedar	5	Log	14					
Balsam Fir	5	Pole/Sapling	5					

**121** 6112 - Lowland Aspen Poletimber Well 3.4 36 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	35	Pole	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	60	Pole	7	36				

**122** 500 - Water Nonstocked 2.4 No New stand added.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium		Tall Shrub
Tamarack	Low		Pole

**123** 4130 - Aspen Poletimber Well 0.8 45 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	95	Pole/Sapling	6	45
Balsam Fir	5	Pole	6	

**124** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 7.5 79 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	35	Pole/Log	9	79	Balsam Fir	Low	Variable	Sapling
Red Maple	20	Log/Pole	11					
Northern White Cedar	5	Log	12					
Black/Red (Hybrid) Oak	5	XLog/Log	19					
Black Spruce	5	Pole	8					
Red Pine	20	Log	15					
Balsam Fir	5	Pole	6					
Jack Pine	5	Log	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>125</b>	6120 - Lowland Cedar	Sawtimber Well	1.9	125	81-110	N/A	This is a nice pocket of healthy cedar. A 4 foot wide stream winds through the stand as it makes its way to Devils Lake.																																																		
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<b>127</b>	622 - Lowland Shrub	Nonstocked	1.5		Immature	No																																																			
<b>128</b>	6121 - Tamarack	Poletimber Well	8.2	51		N/A	Trees are dying off due to the oversaturated soil.																																																		
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<b>132</b>	42330 - Upland Fir	Poletimber Poor	0.9	45	1-50	N/A	This is an upland ridge opening that is filling in with balsam fir.																																																		
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<b>133</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	7.4	125	81-110	N/A	This stand has pockets of log sized cedar. The southern edge is a lowland deciduous transition zone.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**134** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 2.2 80 81-110 N/A Very wet. Stand has a lot of standing water. Pockets of tag alder in extreme wet areas. Red and jack pine growing on high ridges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Red Maple	35	Pole/Log	9	80	White Pine	Low	Variable	Sapling
Paper Birch	35	Pole/Log	8	80	Black Spruce	Low	Variable	Sapling
Balsam Fir	10	Pole	6					
Black Spruce	5	Pole	6					
White Pine	5	Pole	7					
Quaking Aspen	5	Log	12					

**135** 622 - Lowland Shrub Nonstocked 1.1 Immature No

**136** 6130 - Fir, Aspen, Maple Sapling Well 9.5 45 1-50 N/A This stand is too wet to harvest. There is standing water throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	6		Dogwood (spp.)	Medium	5 - 10 feet	Tall Shrub
Paper Birch	25	Pole/Sapling	6		Michigan Holly	High	5 - 10 feet	Tall Shrub
Balsam Poplar	10	Pole/Sapling	5		Glossy Buckthorn	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	30	Sapling/Pole	4	45	Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	15	Sapling	4					

**137** 622 - Lowland Shrub Nonstocked 3.9 0 No

**138** 622 - Lowland Shrub Nonstocked 5.0 Immature No

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	2	
Paper Birch	20	Sapling	2	
Balsam Poplar	5	Sapling	3	
Balsam Fir	30	Sapling	3	85
Black Spruce	10	Sapling	4	
Black Ash	15	Sapling	2	

**139** 42210 - Natural Red Pine Sawtimber Well 1.6 100 81-110 N/A This is an isolated pocket of natural regenerated red pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	95	Log	13	100	Balsam Fir	Low	Variable	Sapling
Red Maple	5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>140</b>	6120 - Lowland Cedar	Sawtimber Well	1.8	125	81-110	N/A	This is a transition area of cedar that is protected from a west wind by the uphill slope to the west.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	80	Log	12	125
Red Maple	5	Log	12	
Balsam Fir	5	Pole	7	
Quaking Aspen	5	XLog/Log	18	
Paper Birch	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling
White Pine	Low	Variable	Sapling