



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41109

Entry Year 2025

Acreage: 5,059

County Schoolcraft

Management Area: Grand Marais Moraine Complex

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**Stand Examiner:** Mario Molin

## Legal Description:

T47N R13W Sections 16-21, 28-33

## Identified Planning Goals:

Provide for the protection, integrated management, and responsible use of a healthy, productive forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

## Soil and topography:

There are three main soil types in this compartment; Rubicon Sand, Eastport Sands and Saugatuck Sand. All are listed as being naturally low in fertility. The terrain is mainly flat to rolling with steeper depressions making frost pockets.

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

This compartment has State Land on the East, West and South side of its boundaries consisting of timber types represented within compartment 109. The North is bordered by the Forest Land Group containing hardwood cover types.

## Unique Natural Features:

No Unique Natural Features known.

## Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

## Special Management Designations or Considerations:

The East Branch of the Fox River and Camp 7 Creek are designated Natural Rivers as part of the Fox River system. This should be stated in the Special Management Designations and Considerations section. This compartment falls entirely within the Kingston Outwash LTA.

## Watershed and Fisheries Considerations:

This compartment contains Camp Seven Creek, the East Branch Fox River, and Dutch Fred Lake. Camp Seven Creek and the East Branch Fox River are designated Type 1 trout streams less than 50-foot wide and have predicted mean July temperatures that range from 58.1 to 60.2 °F (cold streams). 300-foot buffers are recommended for Camp Seven Creek and the East Branch Fox River in riparian areas susceptible to Aspen regeneration. Camp Seven Creek and the East Branch Fox River are also designated Natural Rivers. Therefore, 200-foot, plus 5 feet per 1% increase in slope, buffers are recommended for Camp Seven Creek and the East Branch Fox River in areas not susceptible to aspen regeneration. A minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect Dutch Fred Lake shoreland areas in accordance with Best Management Practices.

## Wildlife Habitat Considerations:

This compartment is located south of Dutch Fred Lake in the Grand Marais Sandy End Moraine and Outwash Sub-subsection. White pine, hemlock, yellow birch, red maple and beech were the major component species in the circa 1850 forests. Balsam fir, red pine, and spruce were recorded as moderately important while sugar maple and white birch were minor components. Mountain ash was found in the understory throughout the compartment. Current vegetation within the compartment is substantially different from that of pre-settlement times. Red pine and jack pine plantations intermixed with large openings constitute the majority of the compartment.

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These are used for stone/dolomite. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

## Vehicle Access:

Access is very good through the entire compartment. Dutch Fred Lake Road runs through the center with many good two-tracks spurring off giving access to almost the entire compartment. Sandy soils can make logging difficult during dry

seasons.

**Survey Needs:**

As of this time there are no known survey needs.

**Recreational Facilities and Opportunities:**

The only developed recreation facility within this compartment is the boating access site located on Dutch Fred Lake. However, the Danaher Plains ORV trail and snowmobile trail #431 are located immediately east of the compartment on the east side of State Highway M-77.

**Fire Protection:**

**Additional Compartment Information:**

The following reports from the Inventory are attached:

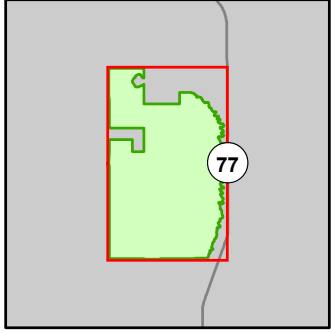
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

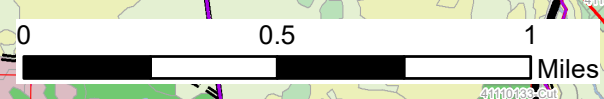
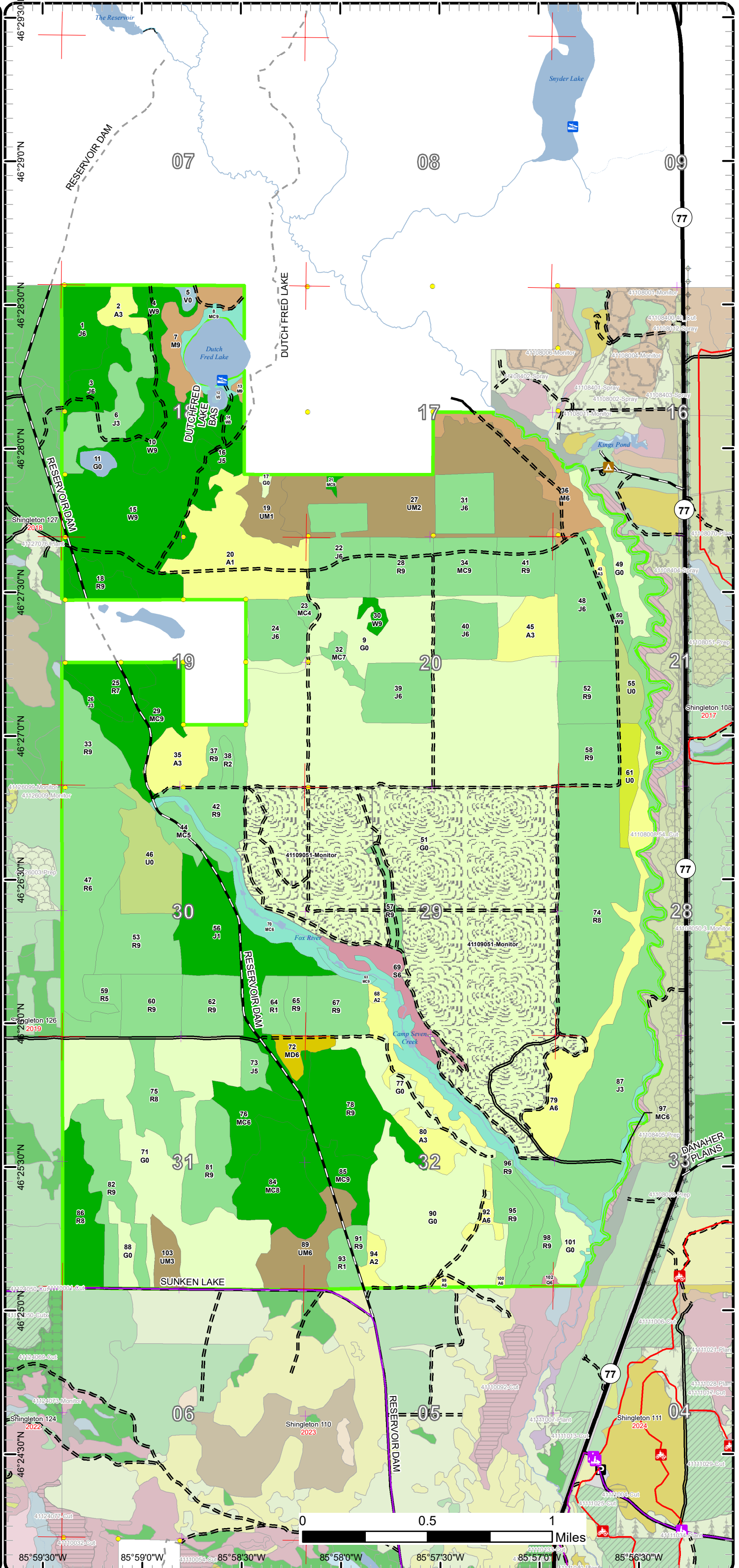
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 109  
 T47N, R13W, Sec. 16-21, 28-33  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Grand Marais  
 Moraine Complex  
 YOE: 2025  
 Acres: 5058.9 GIS Calculated  
 Examiner: Mario Molin  
 Map Revised: 8/21/2023  
 Map Phase: Review



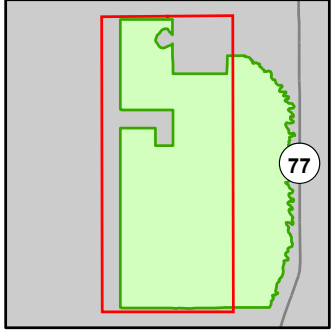
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Private - Dirt / Gravel Road
- ORV Trails
- Designated ATV
- Designated Snowmobile Trails
- Intermittent Stream
- Island in Lake or River
- Perennial River
- Lakes and Rivers
- Boating Access Site
- Campground
- Powerline
- Compartment Boundary
- Monitoring
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub



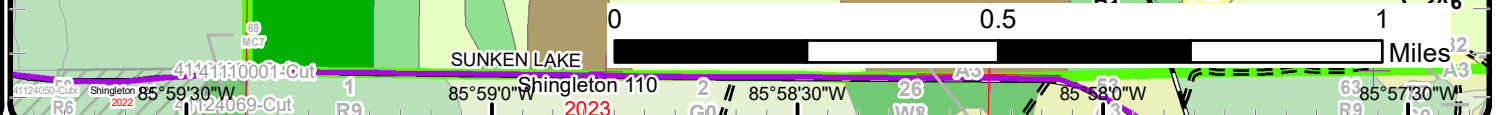
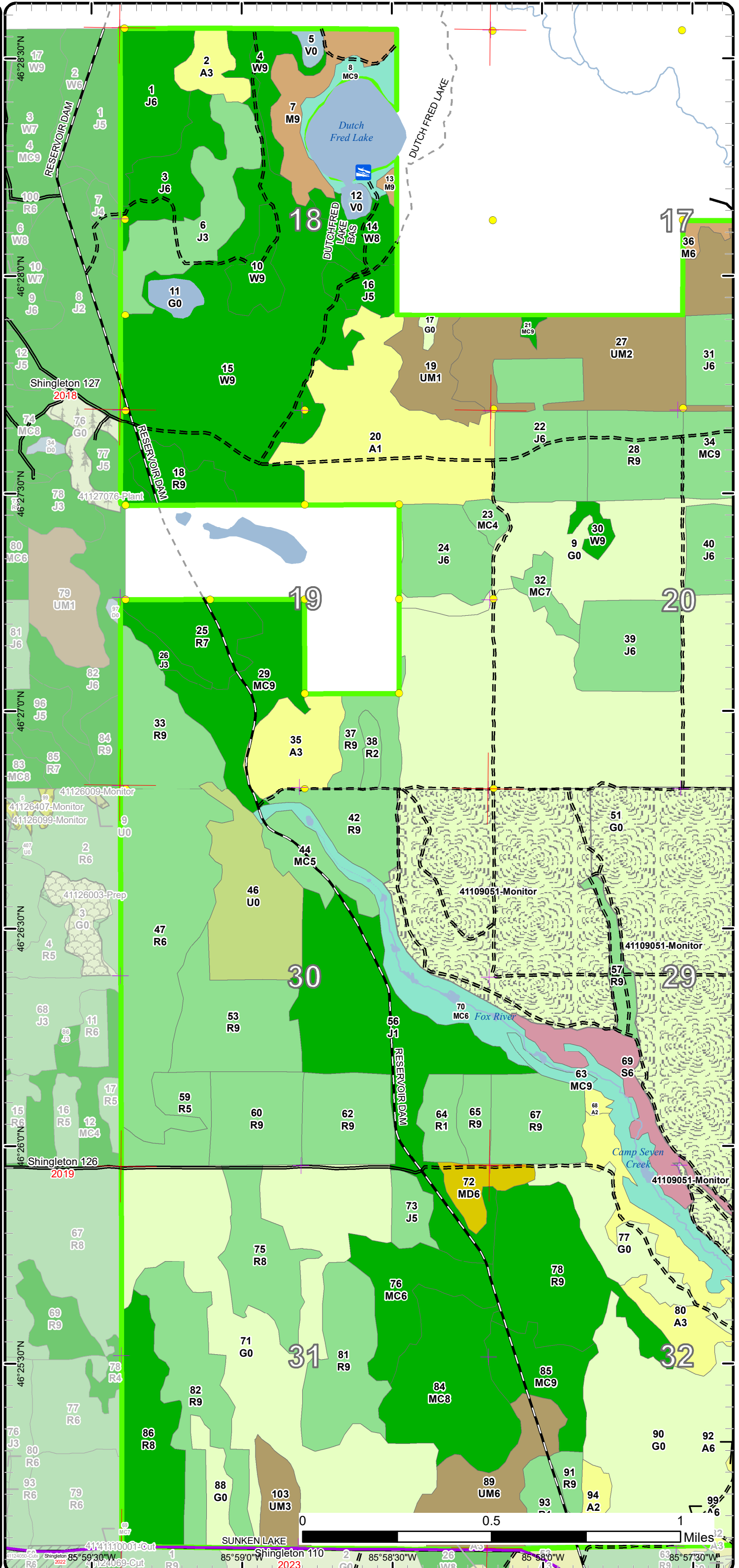
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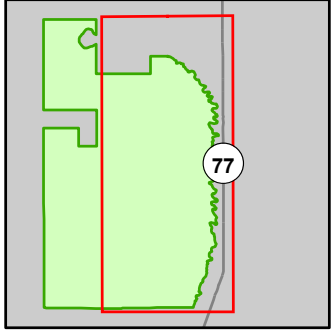


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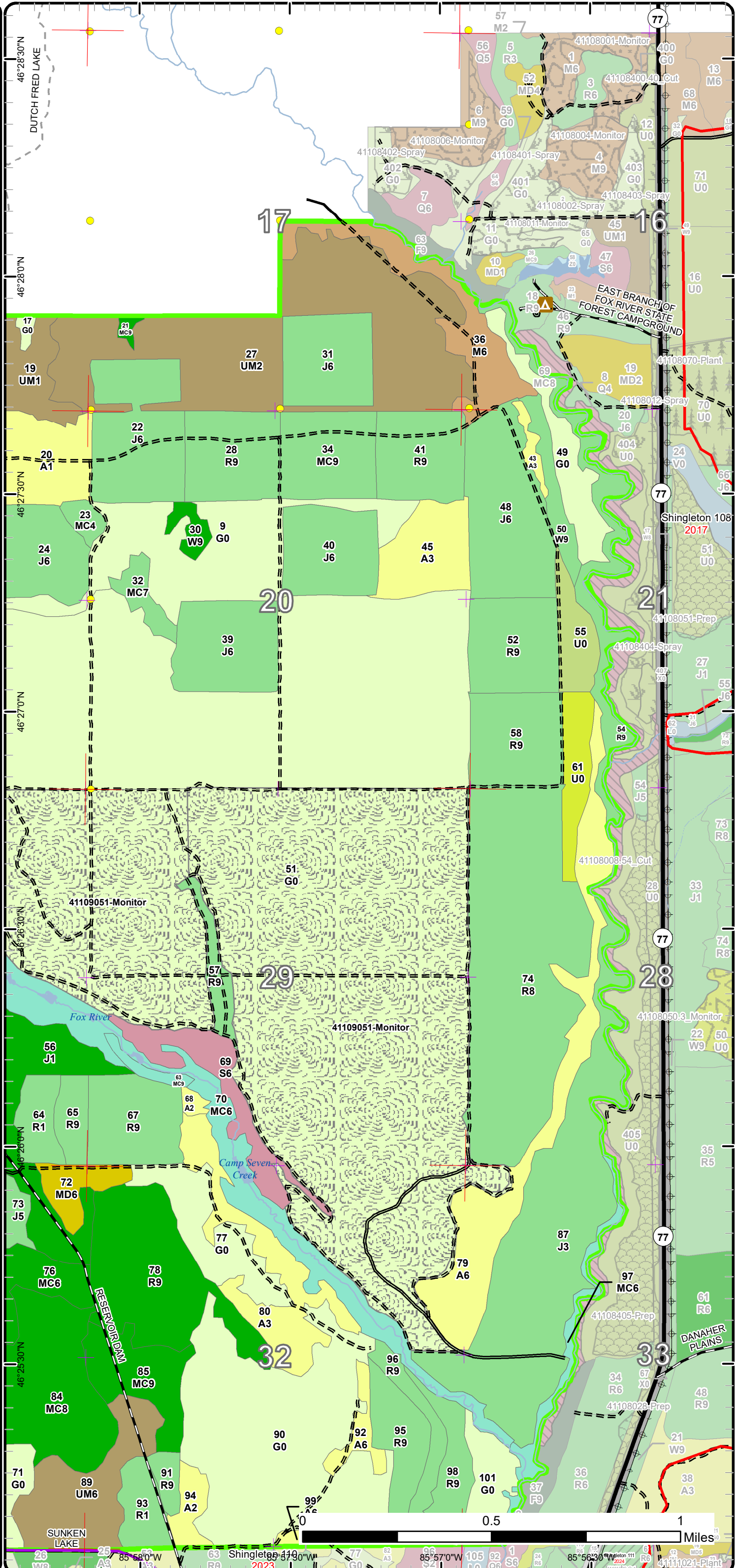


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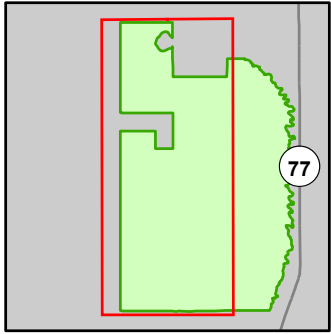


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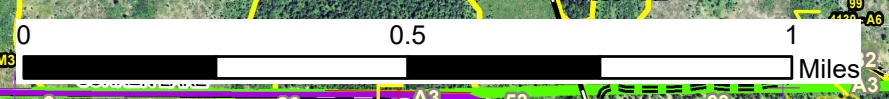
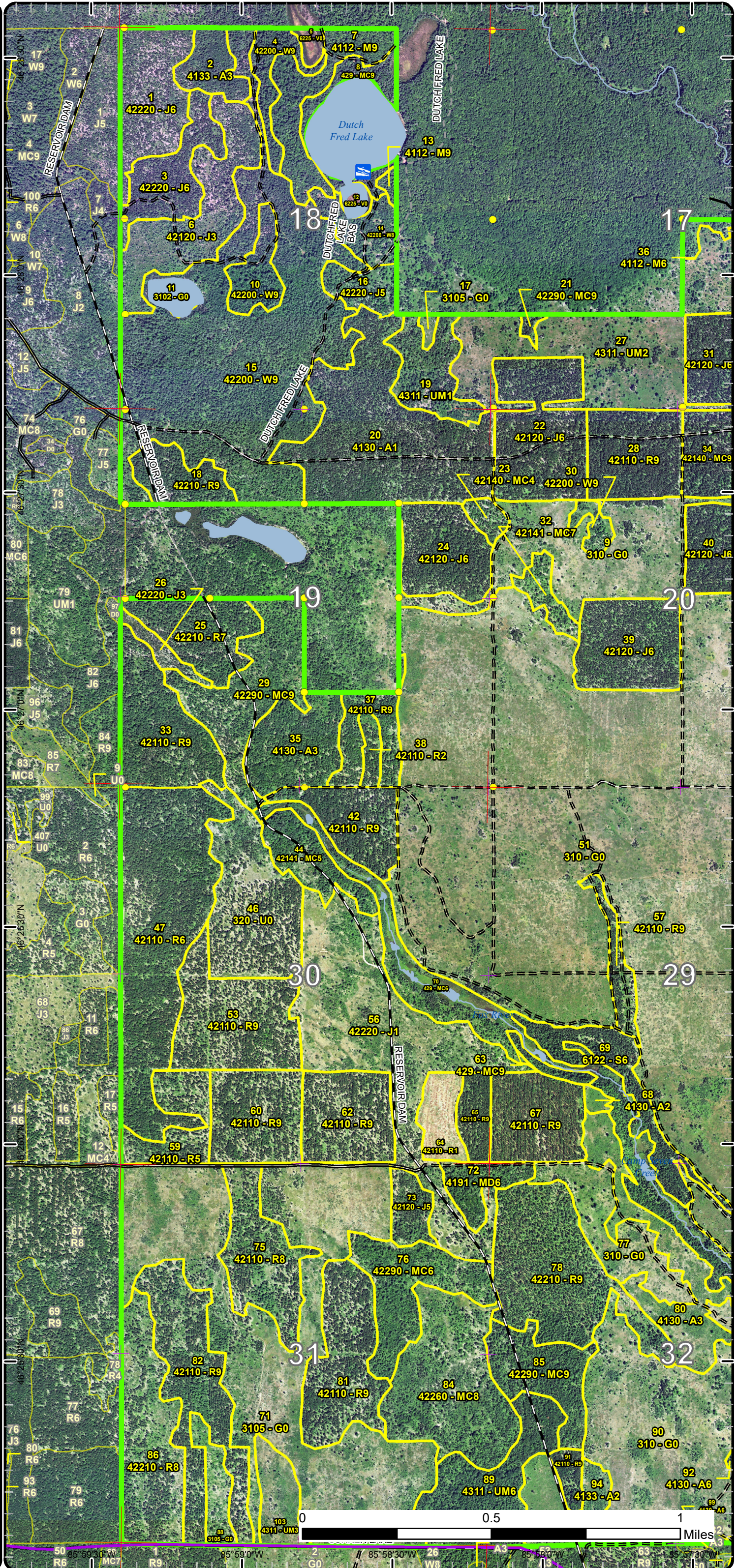


# Stand Boundary Map

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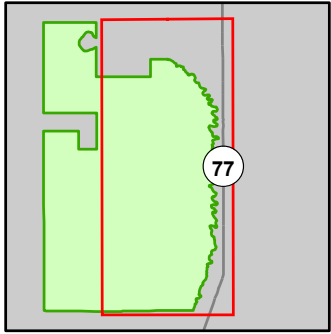
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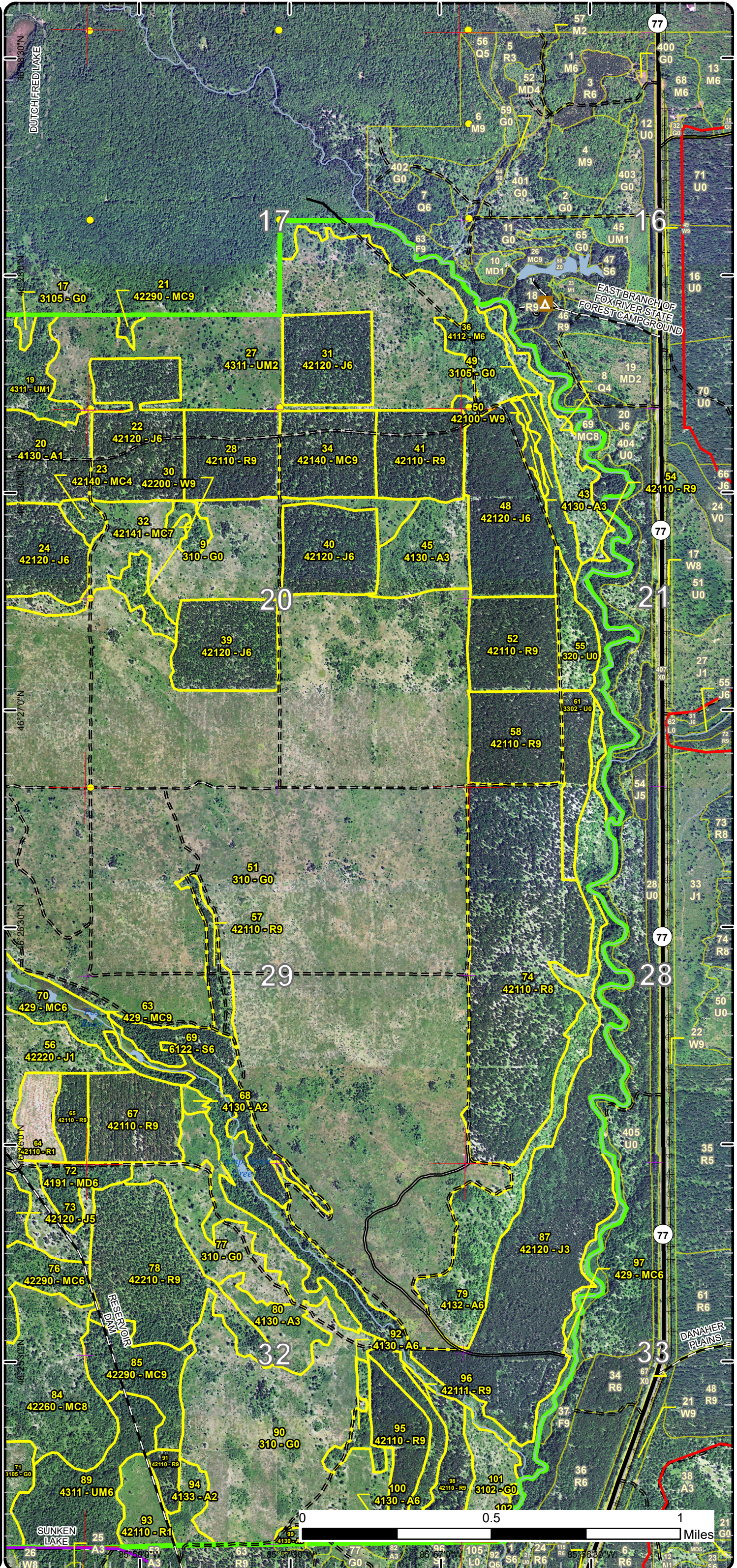
50 85° 59' 30" W 1 85° 59' 30" W 2 85° 58' 30" W 26 85° 58' 0" W 63 85° 57' 30" W  
 R6 MC7 R9 G0 W9 W9 R9 A3 R9 A3

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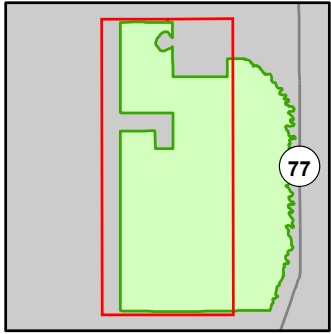


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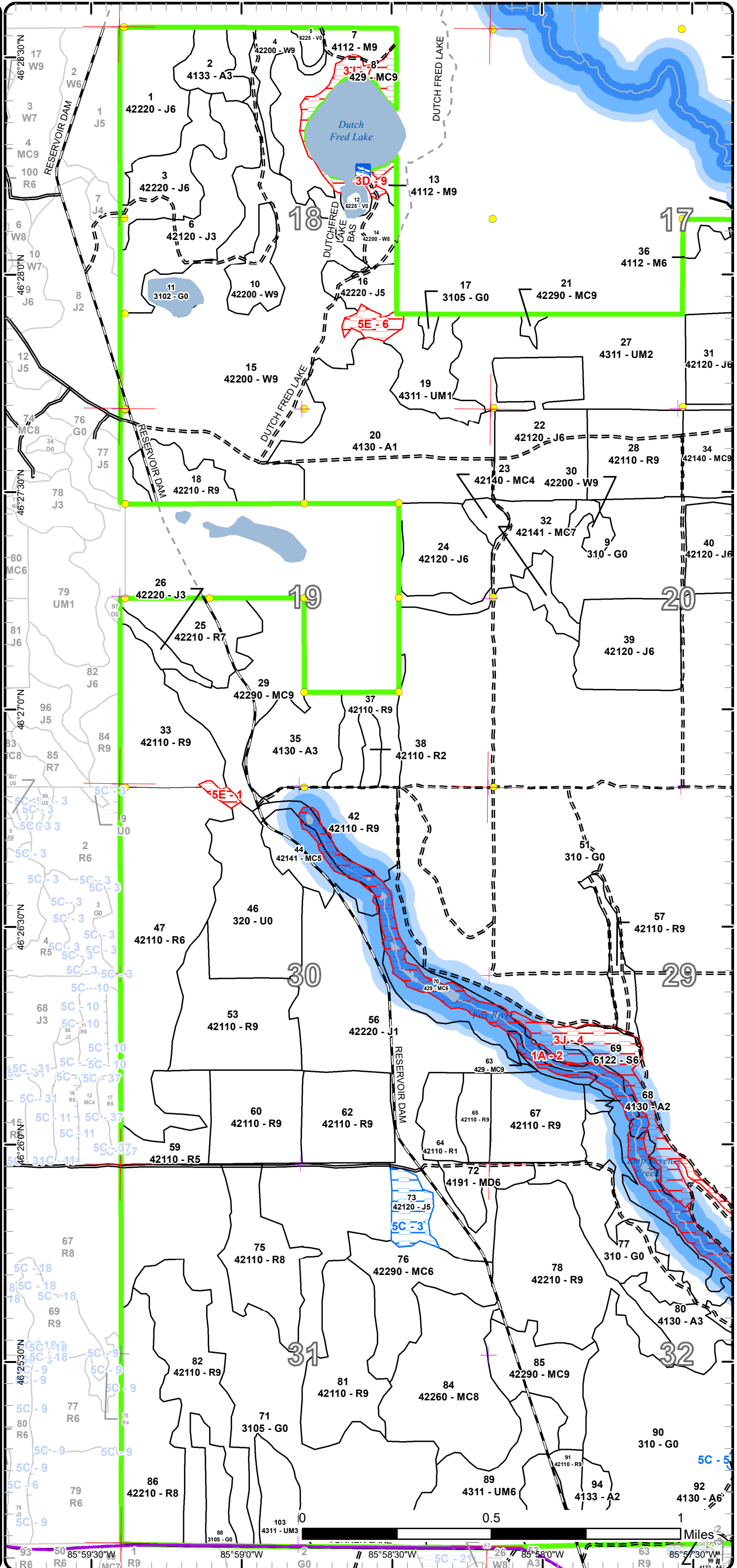


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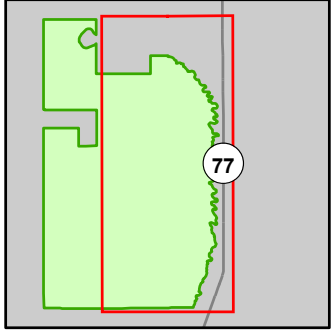
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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1A: Federal/State/Local Law
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



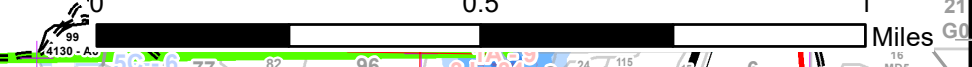
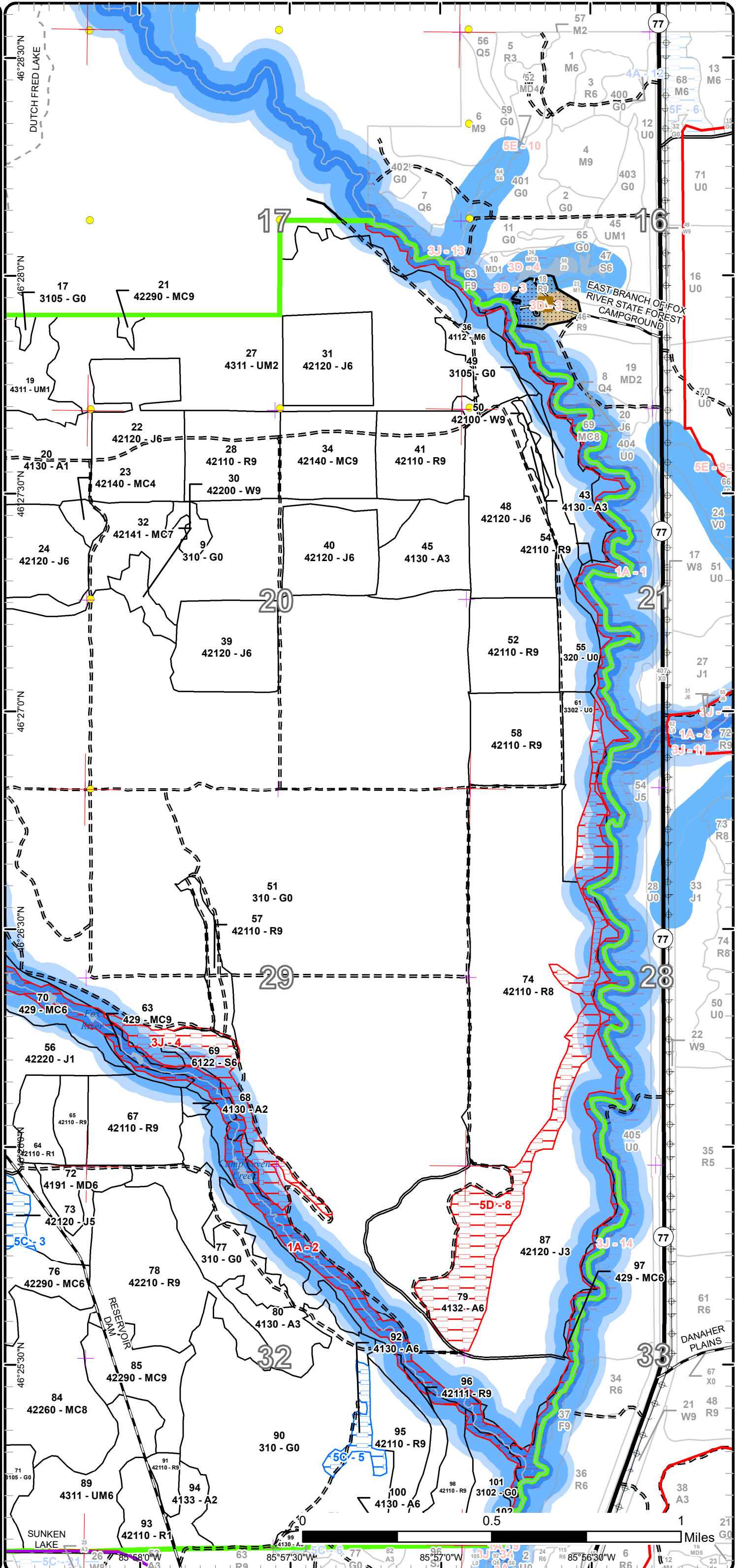


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- Unavailable
- 1A: Federal/State/Local Law
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground



46°28'30"N 46°27'30"N 46°26'30"N 46°25'30"N 46°24'30"N  
 85°57'30"W 85°56'30"W 85°55'30"W 85°54'30"W 85°53'30"W  
 17 21 27 31 37 41 47 51 57 63 69 75 81 87 93 99 105  
 20 23 28 30 34 41 48 52 58 64 70 76 82 88 94 100 106  
 29 32 33  
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200  
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 0.5 1 Miles

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	146	50	61	0	0	77	11	0	0	0	0	0	0	0	0	0	0	345
Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Herbaceous Openland	1632	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1632
Jack Pine	0	0	0	203	166	43	206	62	12	0	0	0	0	0	0	0	0	0	692
Low-Density Trees	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	15
Natural Mixed Pines	0	0	0	0	0	0	0	42	105	52	2	0	0	0	0	0	0	0	201
Northern Hardwood	0	0	0	0	0	0	0	0	34	0	41	0	0	0	0	0	0	0	75
Planted Mixed Pines	0	0	0	0	0	0	28	38	10	0	0	0	0	0	0	0	0	0	76
Red Pine	0	38	0	0	0	0	107	922	78	0	76	0	0	0	0	0	0	0	1220
Upland Conifers	0	0	0	0	0	0	0	0	0	0	128	0	0	0	0	0	0	0	128
Upland Mixed Forest	0	18	0	26	0	50	0	0	0	0	0	0	0	0	0	0	0	165	259
Upland Shrub	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
White Pine	0	0	0	0	0	0	0	227	17	0	21	0	0	0	0	0	16	0	281
<b>Total</b>	<b>1737</b>	<b>202</b>	<b>50</b>	<b>290</b>	<b>166</b>	<b>108</b>	<b>418</b>	<b>1302</b>	<b>256</b>	<b>52</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>165</b>	<b>5063</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2025

Acres of Harvest

Compartment 109  
Total Compartment Acres: 5,059

Commercial Harvest - 1067  
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	Oversyory Removal	Salvage	Other	Total Acres
Jack Pine	104	0	0	0	0	55	0	0	0	160
Planted Mixed Pines	0	0	0	0	0	38	0	0	0	38
Red Pine	0	0	0	0	0	870	0	0	0	870
<b>Total</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>963</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1067</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	1067	0	0	0	348	0	705	97	0	2217
Next Step	0	208	104	0	0	42	271	0	348	974
<b>Total</b>	<b>1067</b>	<b>208</b>	<b>104</b>	<b>0</b>	<b>348</b>	<b>42</b>	<b>975</b>	<b>97</b>	<b>348</b>	<b>3190</b>



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

<b>22</b>	<b>41109022-Cut</b>	55.4	42120 - Planted Jack Pine	Poletimber Well	52	51-80	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Remove all jack pine and thin red pine as needed.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>33</b>	<b>41109033-Cut</b>	46.9	42110 - Planted Red Pine	Sawtimber Well	64	81-110	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription First entry thinning of poorly stocked stand, 3rd row thin when possible. spec. to remove all jack pine.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>34</b>	<b>41109034-Cut</b>	37.6	42140 - Planted Mixed Pine	Sawtimber Well	60	81-110	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription First entry thinning, 3rd row thin when possible. spec. to remove all jack pine. Mark mainly for operations if jack pine removal is not

Specs: adequate to meet operability.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>38</b>	<b>41109038- Other</b>	5.9	42110 - Planted Red Pine	Sapling Medium	5	Immatur re	Other	Other	4211 - Planted Red Pine	Even-Aged	No
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Prescription remove competition

Specs:

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
<b>39 41109039-Cut</b>	42.0	42120 - Planted Jack Pine	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention on the northwest corner near stand 32.  <u>Specs:</u>  <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial  <u>Treatments:</u> Plant; Monitoring, Artificial Regen(3yr)  <u>Acceptable</u> Jack pine.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>42 41109042-Cut</b>	29.3	42110 - Planted Red Pine	Sawtimber Well	60	81-110	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning of poorly stocked stand, 3rd row thin when possible. spec. to remove all jack pine.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>46 41109046-Other</b>	58.9	320 - Upland Shrub	Nonstocked	0	Unspec ified	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> remove competition  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>47 41109047-Cut</b>	107.8	42110 - Planted Red Pine	Poletimber Well	64	81-110	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning, 3rd row thin when possible. spec. to remove all jack pine. Mark mainly for operations if jack pine removal is not  <u>Specs:</u> adequate to meet operability.  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2024</p>										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
48	41109048-Cut	62.2	42120 - Planted Jack Pine	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention, leave retention east of the road.  <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial  <u>Treatments:</u> Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Jack pine and other species.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
51	41109051-Burn	348.4	310 - Herbaceous Openland	Nonstocked			Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Rx Burn: Wildlife opening maintenance. Specific information on Rx burn can be found in the FTP W-1700 or in the Rx Burn plan for the site.  <u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting  <u>Treatments:</u></p> <p><u>Acceptable</u> Open Land grass and shrub species.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>											
52	41109052-Cut	38.1	42110 - Planted Red Pine	Sawtimber Well	64	81-110	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning, 3rd row thin when possible. spec. to remove all jack pine. Mark mainly for operations if jack pine removal is not  <u>Specs:</u> adequate to meet operability.</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></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
53	41109053-Cut	54.6	42110 - Planted Red Pine	Sawtimber Well	64	1-50	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning, 3rd row thin when possible. spec. to remove all jack pine. Mark mainly for operations if jack pine removal is not  <u>Specs:</u> adequate to meet operability.</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></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>58 41109058-Cut</b>	38.3	42110 - Planted Red Pine	Sawtimber Well	52	51-80	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning, 3rd row thin when possible. spec. to remove all jack pine. Mark mainly for operations if jack pine removal is not adequate to meet operability.</p> <p><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></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>59 41109059-Cut</b>	24.2	42110 - Planted Red Pine	Poletimber Medium	64	1-50	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning, 3rd row thin when possible. spec. to remove all jack pine. Mark mainly for operations if jack pine removal is not adequate to meet operability.</p> <p><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></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>60 41109060-Cut</b>	38.4	42110 - Planted Red Pine	Sawtimber Well	70	1-50	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning, 3rd row thin when possible. spec. to remove all jack pine. Mark mainly for operations if jack pine removal is not adequate to meet operability.</p> <p><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></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>62 41109062-Cut</b>	37.0	42110 - Planted Red Pine	Sawtimber Well	64	1-50	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning of poorly stocked stand, 3rd row thin when possible. spec. to remove all jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> This is a thinning so regeneration is not desired. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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>64 41109064-Other</b>	15.3	42110 - Planted Red Pine	Sapling Poor	7	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> remove competition</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2025</p>										
<b>74 41109074-Cut</b>	165.4	42110 - Planted Red Pine	Sawtimber Medium	60	81-110	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning, 3rd row thin when possible. spec. to remove all jack pine. Mark mainly for operations if jack pine removal is not adequate to meet operability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										
<b>75 41109075-Cut</b>	40.5	42110 - Planted Red Pine	Sawtimber Medium	67	51-80	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Lite thinning, spec, to remove all jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										
<b>78 41109078-Cut</b>	75.7	42210 - Natural Red Pine	Sawtimber Well	95	51-80	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	No
<p><u>Prescription</u> Thin as needed to release regeneration and create opportunities for new regeneration.</p> <p><u>Specs:</u></p> <p>Cut last entry with similar open ended treatment and stand responded well.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</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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<b>81</b>	<b>41109081-Cut</b>	48.7	42110 - Planted Red Pine	Sawtimber Well	66	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Lite thinning, spec, to remove all jack pine.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>82</b>	<b>41109082-Cut</b>	62.3	42110 - Planted Red Pine	Sawtimber Well	66	51-80	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Second entry thinning, very sparse stand.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>86</b>	<b>41109086-Cut</b>	55.8	42210 - Natural Red Pine	Sawtimber Medium	66	51-80	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Second entry of sparse stand.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>91</b>	<b>41109091-Cut</b>	6.5	42110 - Planted Red Pine	Sawtimber Well	70	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1st entry 3rd row thin, spec all jack pine.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
93 41109093- Other	16.6	42110 - Planted Red Pine	Sapling Poor	8	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> remove competition.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2025</p>										

**Approved Treatments:**

51 41109051- Monitor	195.0	310 - Herbaceous Openland	Nonstocked			Monitoring	Prescribed Burn	31022 - Warm Season Grass		No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Open Land grass and shrub species.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 1 /13/2023</p>										
51 41109051- Monitor	509.8	310 - Herbaceous Openland	Nonstocked			Monitoring	Prescribed Burn	31022 - Warm Season Grass		No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Open Land grass and shrub species.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2021</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
51 41109051-Monitor	195.0	310 - Herbaceous Openland	Nonstocked			Monitoring	Prescribed Burn	31022 - Warm Season Grass		No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Open Land grass and shrub species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /13/2023</p>										
51 41109051-Monitor	509.8	310 - Herbaceous Openland	Nonstocked			Monitoring	Prescribed Burn	31022 - Warm Season Grass		No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Open Land grass and shrub species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Total Treatment Acreage Proposed: 2216.6**

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 109

Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available		Dominant Site Conditions					
					5C	1A	3D	3J	5D	5E
345	252	9	83	Aspen	9	4			73	6
8	8	0	0	Bog						
1632	1628	0	5	Herbaceous Openland		4		0		
692	664	12	16	Jack Pine	12	16				
20	20	0	0	Low-Density Trees						
2	2	0	0	Lowland Conifers						
32	0	0	32	Lowland Spruce/Fir		4		28		
15	15	0	0	Mixed Upland Deciduous						
200	200	0	0	Natural Mixed Pines	0					
75	69	0	6	Northern Hardwood		6				
75	74	0	2	Planted Mixed Pines		2				
1220	1187	0	33	Red Pine		33		0		
128	34	0	94	Upland Conifers		75	1	18		
259	259	0	0	Upland Mixed Forest						
77	75	0	2	Upland Shrub		0				2
281	281	0	0	White Pine		0				
5,059	4,766	22	272	Total Forested Acres	22	144	1	46	73	8
	94%	0%	5%	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	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	1A: Federal/State/Local Law	144	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River Natural River 100' zone.							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 109

Mario Molin : Examiner

Year of Entry: 2025

3	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	31	3A: Conservation Values incompatible with harvest at this time	3D: Recreational / Scenic values	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	15	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	5D: Unproductive Forest Land	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steeper slope overall, trees are not really merchantable as they are more twisted and bushy.							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 109

Year of Entry: 2025

9	Unavailable	3D: Recreational / Scenic values	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>1</b>	42220 - Natural Jack Pine	Poletimber Well	39.7	30	1-50	N/A																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>95</td> <td>Pole</td> <td>5</td> <td>30</td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	95	Pole	5	30	Quaking Aspen	5	Pole	5	
Canopy Species	% Cover	Size Class	DBH	Age																		
Jack Pine	95	Pole	5	30																		
Quaking Aspen	5	Pole	5																			

<b>2</b>	4133 - Aspen, Mixed Pine	Sapling Well	15.2	23	1-50	N/A	A3 with scattered white pine and fir.																																						
<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>Balsam Fir</td> <td>10</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Log</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log</td> <td>10</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>70</td> <td>Sapling</td> <td>4</td> <td>23</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	10	Sapling	4		White Pine	10	Sapling	4		Jack Pine	5	Log	10		White Pine	5	Log	10		Quaking Aspen	70	Sapling	4	23	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	< 5 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																									
Balsam Fir	10	Sapling	4																																										
White Pine	10	Sapling	4																																										
Jack Pine	5	Log	10																																										
White Pine	5	Log	10																																										
Quaking Aspen	70	Sapling	4	23																																									
Sub-Canopy Species	Density	Avg. Height	Size																																										
Red Maple	Low	< 5 feet	Sapling																																										

<b>3</b>	42220 - Natural Jack Pine	Poletimber Well	29.8	40	51-80	N/A																																		
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<b>4</b>	42200 - Natural White Pine	Sawtimber Well	14.7	95	51-80	N/A	Long skinny stand with many super story white pine, as you head south the timber gets smaller. Understory is light with balsam fir and red maple.																																				
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<b>5</b>	6225 - Bog	Nonstocked	3.9			No													
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<b>6</b>	42120 - Planted Jack Pine	Sapling Well	50.4	25	1-50	N/A	Was most likely two stands but now looks similar.																																
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7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	32.2	75	51-80	N/A	Super story white pine in abundance southwest of marsh.																																																			
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8	429 - Mixed Upland Conifers	Sawtimber Well	16.0	95	1-50	N/A	Skinny transition zone around lake. Boating access site on south end.																																																			
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9	310 - Herbaceous Openland	Nonstocked	88.8			No	partial burn summer 2021. SE acreage of the stand.																																																			
10	42200 - Natural White Pine	Sawtimber Well	15.7	184	51-80	N/A	Looks like it's 3 ages, seeing 3 distinct size classes Amazing white pine regeneration. 2013																																																			
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11	3102 - Grass	Nonstocked	5.3			No	Vernal pond.																																																			
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13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.1	75	81-110	N/A	Small stand on compartment line.																																																			
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19	4311 - Pine, Aspen Mix	Sapling Poor	26.2	20	1-50	N/A	Old opening with a mix of species.																																								
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Jack Pine	Low	Variable	Sapling																																												
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20	4130 - Aspen	Sapling Poor	105.8	5	Immature	N/A	Jack pine is not seeding in very well, may need to supplement plant open areas around aspen Corners found- wood posts.Scarified by Holi summer 2018.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
21	42290 - Natural Mixed Pine	Sawtimber Well	2.1	94	1-50	N/A	Carry over from adjacent compartment.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		55	Log	14	94	White Pine		
Red Maple		5	Pole	5		Low		
Jack Pine		40	Pole	6		Variable		
						Sapling		
22	42120 - Planted Jack Pine	Poletimber Well	55.4	52	51-80	N/A	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 56 yrs and the jack pine is app. 42 yrs. More exact dates are available on the old 1985 OI map. I am using this broad statement because many of the individual plantations have been combined into one and some have a different year or origin by only 2-3 years.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Jack Pine		60	Pole	8	52			
Red Pine		40	Log	12				
23	42140 - Planted Mixed Pine	Poletimber Poor	5.7	55	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>		
Red Maple		5	Pole	6		Red Pine		
Red Pine		15	Log	10		Low		
Jack Pine		45	Pole	8	55	Variable		
Quaking Aspen		5	Pole	6		Sapling		
White Pine		30	Pole	8		Sapling		
						Sapling		
24	42120 - Planted Jack Pine	Poletimber Well	34.8	55	81-110	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Quaking Aspen		5	Pole	6				
Red Pine		35	Log	12				
Jack Pine		60	Pole	8	55			
25	42210 - Natural Red Pine	Sawtimber Poor	33.0	78	1-50	N/A	2023. root rake was done well but very little sign of seeding in	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		90	Log	16	78	White Pine		
White Pine		10	Pole	8		Low		
						Variable		
						Sapling		
						Sapling		
26	42220 - Natural Jack Pine	Sapling Well	6.7	20	Immature	N/A	2023. site has flooded and killed most of stand. Formerly a V0 stand, filled in with natural mixed pine and doing well.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		20	Sapling	4				
White Pine		15	Sapling	4				
Jack Pine		65	Sapling	4	20			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
27	4311 - Pine, Aspen Mix	Sapling Medium	165.3	11	Immature	N/A	new red pine plantation. Replanted spring 2018 to RP. check fall 2018 fully stocked stand with multiple years of Red pine plantings. West side is mostly Red pine while the east side of stand has quite a bit of mixed aspen and other species. Stand has been replanted too many times to replant, it will be a mixed stand going on.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		50	Sapling	2	11			
Black Cherry		5	Sapling	2				
Jack Pine		5	Sapling	2				
Quaking Aspen		40	Sapling	2				
28	42110 - Planted Red Pine	Sawtimber Well	38.0	64	51-80	N/A	Padawan pine 741-031-15-01 unit 3- 4	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		100	Log	14	64			
29	42290 - Natural Mixed Pine	Sawtimber Well	51.6	80	51-80	N/A	Semi open patchy stand, aspen and red maple scattered throughout, does have a mix of age and size classes.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		55	Log	12	80			
Jack Pine		20	Pole	8				
White Pine		25	Pole	8				
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Quaking Aspen		Medium	Variable	Sapling				
Red Maple		Low	Variable	Sapling				
Red Pine		Low	Variable	Sapling				
White Pine		Low	Variable	Sapling				
Jack Pine		Low	Variable	Sapling				
30	42200 - Natural White Pine	Sawtimber Well	6.4	93	1-50	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Jack Pine		5	Pole	8				
White Pine		95	Log	12	93			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
White Pine		Low	Variable	Sapling				
Jack Pine		Low	Variable	Sapling				
31	42120 - Planted Jack Pine	Poletimber Well	36.7	52	81-110	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Jack Pine		100	Pole	8	52			
32	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Poor	10.1	70	51-80	N/A	just a small stand of planted pine and natural hardwoods	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		20	Pole	6				
White Pine		20	Pole	8				
Black Cherry		10	Pole	5				
Red Pine		50	Log	12	70			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Red Maple		Low	Variable	Sapling				
White Pine		Low	Variable	Sapling				
Black Cherry		Low	Variable	Sapling				
Quaking Aspen		Medium	10 - 20 feet	Sapling				
Red Pine		Low	Variable	Sapling				
33	42110 - Planted Red Pine	Sawtimber Well	46.9	64	81-110	N/A	Some areas are well stocked plantation and others look more like a poorly stocked natural stand	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Jack Pine		25	Log/Pole	10				
Red Pine		65	Log/Pole	10	64			
White Pine		10	Pole	8				
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Black Cherry		Low	Variable	Sapling				
White Pine		Low	Variable	Sapling				
Bigtooth Aspen		Low	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
<b>34</b>	42140 - Planted Mixed Pine	Sawtimber Well	37.6	60	81-110	N/A	RP- 60 80 20 JP- 20 30 60																														
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<b>35</b>	4130 - Aspen	Sapling Well	35.3	5	Immature	N/A	Cut as unit 9 of padawan pinetrenched summer of 2017 by DNR staff. Plant site to Red pine in areas where Aspen is not growing back. Planted spring 2018 to RP. Passed regen check in fall 2018. Fail 3rd season check at 544 TPA, needs replant. **Per discussion with UM, replant was terminated due to agreement at comp review on acceptable regeneration of aspen within the stand. (See draft treatment notes below) - JAT																														
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<b>36</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	41.0	96	1-50	N/A	Mainly a steep slope to the river, not a stand that can be easily managed/harvested																														
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<b>37</b>	42110 - Planted Red Pine	Sawtimber Well	20.4	62	81-110	N/A	Cut as unit 19 of Padawan pine Site trenched summer 2017 by DNR staff. Stand was split, center was planted spring 2018 to RP. 1st year check done fall 2018, needs release spray. 2020 summer center was sprayed.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
42	42110 - Planted Red Pine	Sawtimber Well	29.3	60	81-110	N/A	Ground cover indicates better site quality.																																									
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44	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Medium	22.0	55	1-50	N/A																																										
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45	4130 - Aspen	Sapling Well	33.0	25	Immature	N/A																																										
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46	320 - Upland Shrub	Nonstocked	58.9	0	Unspecified	4211 - Planted Red Pine	Stand cut as unit 13 of padawan pine trenched summer 2017 by DNR staff. Planted spring 2018 to RP. Needs release spray after 1st year check which was done fall 2018. Sparyed summer 2020																																									
47	42110 - Planted Red Pine	Poletimber Well	111.4	64	81-110	N/A	Combination of 4 planted stands, thin next entry.																																									
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48	42120 - Planted Jack Pine	Poletimber Well	62.0	60	81-110	N/A	Planted in 1959, 1963, 1971. Looks like it was jack pine the first 2 times and then white pine the 3rd time.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
49	3105 - Mixed Upland Herbaceous	Nonstocked	26.1			No																																					
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50	42100 - Planted White Pine	Sawtimber Well	13.7	66	81-110	N/A	White pine plantation with poor stocking, filled in with a mix of species- jack pine red pine and aspen. Padawan pine 741-031-15-01 unit 7																																				
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Red Pine	15	Log	10	66																																							
51	310 - Herbaceous Openland	Nonstocked	1,057.1			Managed Opening	Ex burn for 2023																																				
52	42110 - Planted Red Pine	Sawtimber Well	38.1	64	81-110	N/A																																					
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53	42110 - Planted Red Pine	Sawtimber Well	54.6	64	1-50	N/A	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 55yrs and the jack pine is app. 38 yrs. More exact dates are available on the old 1985 OI map. I am using this broad statement because many of the individual plantations have been combined into one and some have a different year or origin by only a 2-3 years.																																				
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54	42110 - Planted Red Pine	Sawtimber Well	38.4	60	81-110	N/A	Very steep slope.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
55	320 - Upland Shrub	Nonstocked	17.8		Immature	No																																					
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56	42220 - Natural Jack Pine	Sapling Poor	125.8	35		N/A	Old G0 that is now filling in with a mix of species.																																				
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Black Cherry	15	Sapling	3		Jack Pine	Low	< 5 feet	Sapling																																			
57	42110 - Planted Red Pine	Sawtimber Well	12.0	61	81-110	N/A	Strip on steep ridge.																																				
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58	42110 - Planted Red Pine	Sawtimber Well	38.3	52	51-80	N/A																																					
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59	42110 - Planted Red Pine	Poletimber Medium	24.2	64	1-50	N/A	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 55yrs and the jack pine is app. 38 yrs. More exact dates are available on the old 1985 OI map. I am using this broad statement because many of the individual plantations have been combined into one and some have a different year or origin by only a 2-3 years.																																				
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60	42110 - Planted Red Pine	Sawtimber Well	38.4	70	1-50	N/A	Very poor plantation, trees are very bushy, only 2-3 sticks tall.																																				
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Jack Pine	5	Pole	6																																								
61	3302 - Low Density Conifer Trees	Nonstocked	19.7	0		4211 - Planted Red Pine	Stand cut as unit 11 of padawan Pine Site Trenched summer 2017 by DNR staff. Planted spring 2018 to RP. needs replant failed 1st year check, in fall 2018. Replanted spring 2019. checked fall 2019 passed. passed 3rd year check 2011.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>62</b>	42110 - Planted Red Pine	Sawtimber Well	37.0	64	1-50	N/A	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 55yrs and the jack pine is app. 38 yrs. More exact dates are available on the old 1985 OI map. I am using this broad statement because many of the individual plantations have been combined into one and some have a different year or origin by only a 2-3 years.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		95	Log	10	64				
Jack Pine		5	Pole	8					
<b>63</b>	429 - Mixed Upland Conifers	Sawtimber Well	4.6	95	51-80	N/A	Steep slope to stream.		
<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>
Quaking Aspen		5	Pole	6		White Pine	Medium	Variable	Sapling
Balsam Fir		20	Pole	6		Black Spruce	Medium	Variable	Sapling
White Pine		35	Log	12	95	Balsam Fir	Medium	Variable	Sapling
Red Pine		20	Log	12		Red Maple	Medium	Variable	Sapling
Red Maple		20	Pole	6					
<b>64</b>	42110 - Planted Red Pine	Sapling Poor	15.3	7	Immature	N/A	Part of a plantation that had failed. Cut as unit 14 of Padawan Pine, Trenched summer 2017 by DNR staff. Planted spring 2018 to RP. Passed first year check. Passed Check in fall 2020. 721 TPA		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		100	Sapling	1	7				
<b>65</b>	42110 - Planted Red Pine	Sawtimber Well	11.9	59	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		95	Log	10	59				
Quaking Aspen		5	Pole	5					
<b>67</b>	42110 - Planted Red Pine	Sawtimber Well	36.3	59	81-110	N/A	Padawan pine 741-031-15-01 unit 3- 4		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		100	Log	10	59				
<b>68</b>	4130 - Aspen	Sapling Medium	2.6	12	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>
Quaking Aspen		75	Sapling	1	12	Red Maple	Low		Sapling
Red Pine		2	Sapling	4		Black Cherry	Low		Sapling
Red Maple		20	Sapling	1					
White Pine		3	Sapling	4					
<b>69</b>	6122 - Black Spruce	Poletimber Well	31.6	95	51-80	N/A	Camp 7 creek- river and timber included in polygon, too difficult to meet mapping standards trying to seperated everything out. Stand will include all types of timber but mainly lowland conifer. Creek does dry out in the northwest.		
<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>
Tamarack		15	Pole	6		Black Spruce	Low	Variable	Sapling
White Pine		15	Pole	6		White Pine	Low	Variable	Sapling
Black Spruce		70	Pole	6	95				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**70** 429 - Mixed Upland Conifers Poletimber Well 89.3 95 81-110 N/A Mix of everything with varying topography (steep slopes to flat), consider all of it to be river buffer.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	15	Pole	6		Red Maple	Low	Variable	Sapling
Quaking Aspen	15	Pole	8		Balsam Fir	Low	Variable	Sapling
White Pine	25	Log	14	95	White Spruce	Low	Variable	Sapling
Red Maple	15	Pole	8		White Pine	Low	Variable	Sapling
Paper Birch	5	Pole	8					
Red Pine	5	Pole	8					
Black Spruce	20	Pole	6					

**71** 3105 - Mixed Upland Herbaceous Nonstocked 224.9 No patchy opening that is filling in, may be forested next entry.

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low		Sapling
Jack Pine	Low		Sapling
Quaking Aspen	Low		Sapling
Red Pine	Low		Sapling

**72** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 14.7 45 51-80 N/A Site is a mix of everything that naturally regenerated.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole	6	45	Jack Pine	Low	Variable	Sapling
Paper Birch	15	Pole	6		Red Oak	Low	Variable	Sapling
White Pine	15	Pole	6		Red Maple	Medium	Variable	Sapling
Red Pine	15	Pole	6		White Pine	Low	Variable	Sapling

**73** 42120 - Planted Jack Pine Poletimber Medium 12.2 70 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	8		White Pine	Low	Variable	Sapling
White Pine	15	Pole	8		Jack Pine	Low	Variable	Sapling
Red Pine	15	Pole	8		Quaking Aspen	Low	Variable	Sapling
Jack Pine	60	Pole	6	70				

**74** 42110 - Planted Red Pine Sawtimber Medium 165.4 60 81-110 N/A 2-3 stick bushy red pine.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Pole	8	
Red Pine	95	Log	12	60

**75** 42110 - Planted Red Pine Sawtimber Medium 40.5 67 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	90	Log	10	67	White Pine	Low	Variable	Sapling
Jack Pine	10	Pole	6		Jack Pine	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>76</b>	42290 - Natural Mixed Pine	Poletimber Well	41.7	62	1-50	N/A	Cut in 2008, oak is now the dominate understory species. cut next entry, leave only oak																																										
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<b>77</b>	310 - Herbaceous Openland	Nonstocked	35.3			No	Filling in with various species of trees																																										
<b>78</b>	42210 - Natural Red Pine	Sawtimber Well	75.7	95	51-80	N/A	Padawan pine 741-031-15-01 unit 16																																										
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<b>79</b>	4132 - Aspen, Jack Pine	Poletimber Well	76.8	57	51-80	N/A																																											
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<b>80</b>	4130 - Aspen	Sapling Well	47.4	17	Immature	N/A	Opening maintainance done in 2006 Aspen is filling in the site.																																										
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<b>81</b>	42110 - Planted Red Pine	Sawtimber Well	48.7	66	81-110	N/A																																											
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<b>82</b>	42110 - Planted Red Pine	Sawtimber Well	62.3	66	51-80	N/A																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
84	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	72.8	70	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>	
Red Maple		10	Pole	6		Red Maple	
Quaking Aspen		28	Pole	6		Quaking Aspen	
Red Oak		2	Pole	6		Red Pine	
Red Pine		35	Log	10	70	Black Cherry	
White Pine		25	Log	10		White Pine	
						<b>Density</b>	
						<b>Avg. Height</b>	
						<b>Size</b>	
85	42290 - Natural Mixed Pine	Sawtimber Well	32.1	70	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 Pine		35	Log	10		Quaking Aspen	
Quaking Aspen		25	Pole	6	24	White Pine	
White Pine		40	Log	12	70		
86	42210 - Natural Red Pine	Sawtimber Medium	55.8	66	51-80	N/A	Very patchy, multiple old 10 acre plantations lumped together.
<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	Log	12	66	Red Oak	
						Red Maple	
87	42120 - Planted Jack Pine	Sapling Well	146.1	27	1-50	N/A	Northwest corner of stand has a pocket of high density red pine and aspen.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Jack Pine		90	Sapling	3	27		
Red Pine		5	Log	10			
Quaking Aspen		5	Log	10			
88	3105 - Mixed Upland Herbaceous	Nonstocked	13.1			No	
						<b>Sub-Canopy Species</b>	
						White Pine	
						Jack Pine	
						Red Pine	
						Red Maple	
89	4311 - Pine, Aspen Mix	Poletimber Well	49.7	44	81-110	N/A	Nice white pine stand with aspen being somewhat codominant in areas. Aspen is healthy but poor quality, consider cutting in next entry to promote the aspen.
<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	6		Red Maple	
White Pine		40	Log	14	78	Quaking Aspen	
Balsam Fir		5	Pole	6		White Pine	
Quaking Aspen		50	Pole	8	44		
90	310 - Herbaceous Openland	Nonstocked	159.3			No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
91	42110 - Planted Red Pine	Sawtimber Well	6.5	70	111-140	N/A	RP- 170 80 120		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Quaking Aspen		5	Pole	8					
Red Pine		95	Log	10	70				
92	4130 - Aspen	Poletimber Well	9.3	60	1-50	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		95	Pole	8	60	Quaking Aspen	Low	Variable	Sapling
Red Maple		5	Pole	6		Red Maple	Low	Variable	Sapling
93	42110 - Planted Red Pine	Sapling Poor	16.6	8	Immature	N/A	Planted spring of 2015, needs a regen check. passed 2018 3rd year check. Pre-commercial harvest was done in 2021 to remove competition.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		100	Sapling	2	8				
94	4133 - Aspen, Mixed Pine	Sapling Medium	10.3	22	Immature	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Black Cherry		5	Sapling	2					
Red Pine		5	Sapling/Pole	4					
White Pine		20	Pole	6					
Quaking Aspen		50	Sapling	2	22				
Red Maple		20	Sapling	2					
95	42110 - Planted Red Pine	Sawtimber Well	26.0	60	81-110	N/A	Padawan pine 741-031-15-01 unit 17		
<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		100	Log	10	60	Red Maple	Low	Variable	Sapling
96	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	16.0	66	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>
Quaking Aspen		30	Log	10		Red Maple	Low	Variable	Sapling
Red Pine		70	Log	10	66				
97	429 - Mixed Upland Conifers	Poletimber Well	18.0	95	51-80	N/A	River and buffer, cannot deliniate better with imagery.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		10	Pole	8		Red Maple	Low	Variable	Sapling
Balsam Fir		15	Pole	6		Balsam Fir	Low	Variable	Sapling
Black Spruce		30	Pole	8	95	White Pine	Low	Variable	Sapling
White Pine		25	Log	12					
Red Pine		5	Pole	6					
Red Maple		10	Pole	8					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
<b>98</b>	42110 - Planted Red Pine	Sawtimber Well	21.4	60	81-110	N/A	Open grown red pine, planted twice and still low stocking.																												
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<b>99</b>	4130 - Aspen	Poletimber Well	2.9	25	51-80	N/A	Small carry over from other compartment. A hodgepodge of aspen sizes																												
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Quaking Aspen	Low	Variable	Sapling																																
<b>101</b>	3102 - Grass	Nonstocked	20.4			No	Check MNFI if considering any type of management.																												
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<b>102</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	1.7	122	1-50	N/A	Carry over from other compartment.																												
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<b>103</b>	4311 - Pine, Aspen Mix	Sapling Well	17.6	9	Immature	N/A	Re-planted 5/15/15. stand has converted to JP regen check in fall 2018 showed JP, Aspen and Oak have grown in and RP planting has failed.																												
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