



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52022

Entry Year 2023

Acreage: 2,151

County Otsego

Management Area: Grayling Outwash

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**Revision Date:** 2021-05-04

**Stand Examiner:** Matthew Foster

**Legal Description:**

T29N R04W Section 6, 7, 18, 19, 30, 31, and 32.

**Identified Planning Goals:**

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

**Soil and topography:**

Most of this compartment is level to rolling. The low, level wetland areas are underlain with Rifle Peat-Carbondale Muck Association. The upland areas are dominated by Rubicon-Grayling sand everywhere except the east half of Section 32 which consists of Roselawn sand.

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

This compartment is the eastern edge of a vast tract of state land, namely the Deward Area. East of it is Wilderness Valley, a golf course and associated private properties. Immediately to the north lies Lakes of the North, a residential development. Some of the private holdings contain pine plantations while the remainder is scrubland. Deer hunting, camping and fishing along the Manistee River are evident here. Snowmobilers take advantage of the semi-open nature of the compartment and freely travel throughout it with little need for trails. A major gas pipeline traverses the entire north/south length of the compartment.

**Unique Natural Features:**

The Manistee River and Frenchman Creek.

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

Railroad grades from the logging era can be found throughout the compartment.

**Special Management Designations or Considerations:**

This compartment contains part of the Deward Management Area. Restrictions on access and off road travel have been put in place, in the form of a Director's Order, in order to protect the Manistee River from erosion and overuse.

**Watershed and Fisheries Considerations:**

This compartment contains part of the Upper Manistee River and a tributary, Frenchman Creek.

**Wildlife Habitat Considerations:**

This compartment is a mixture of dry upland adjacent to wetlands. Open areas maintained adjacent to the river will provide habitat for nesting turtles, basking reptiles, and breeding areas for woodcock.

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

The nearest active sand/gravel pit is located over three miles to the southeast, and there appears to be good potential for sand & gravel within areas of the compartment, particularly in Sec 32. Most of the State land in the compartment has been leased for oil and gas development. Most is held by production from Antrim Shale gas units, but there are relatively few wells in the compartment. There may be potential for additional Antrim wells in the future, if the price of gas increases significantly. There has been past production from Guelph (Niagaran) formation reefs in the area, and there may be potential for future exploration and development in this formation beneath the compartment. There is no known potential for metallic minerals in this part of the state.

**Vehicle Access:**

Director's Order II-80-5 restricts access and prohibits off road traffic in that part of the compartment bounded by Deward Road, Mancelona Road, and Manistee River Road.

**Survey Needs:**

**Recreational Facilities and Opportunities:**

**Fire Protection:**

**Additional Compartment Information:**

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

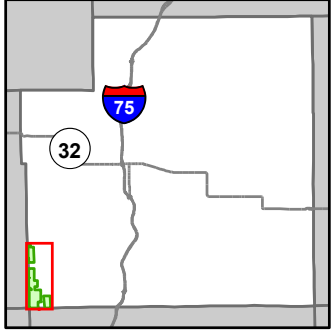
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

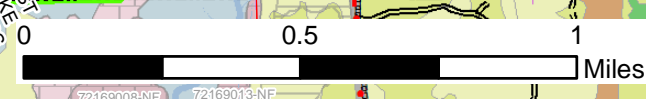
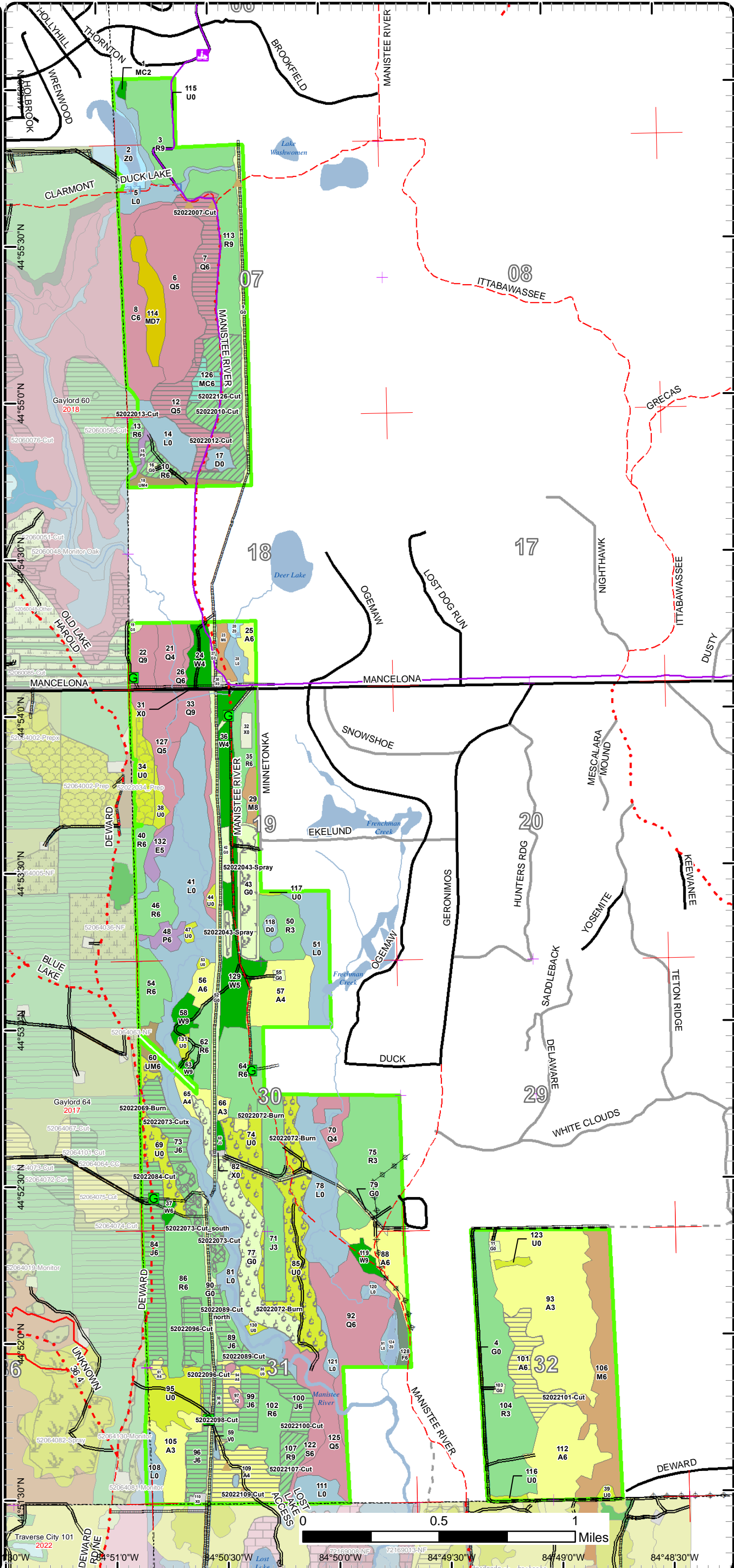
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 22  
 T29N, R04W, Sec. 6, 7, 18, 19,  
 30-32  
 County: Otsego  
 Unit: Gaylord  
 Mgmt Area: Grayling Outwash  
 YOE: 2023  
 Acres: 2151.1 GIS Calculated  
 Examiner: Matthew Foster  
 Map Revised: 10/5/2021  
 Map Phase: Post-Review



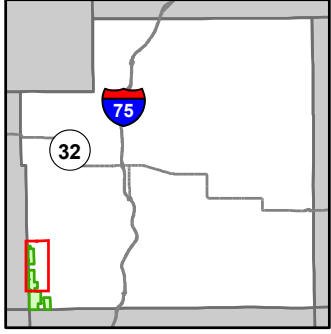
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- + Remonumented Section Corners
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- ▭ Thinning (Crown, Low, Systematic)
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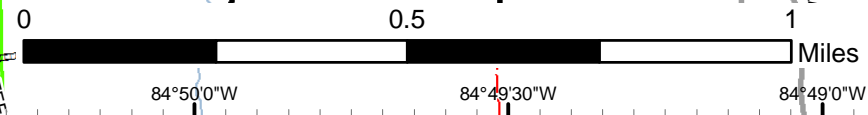
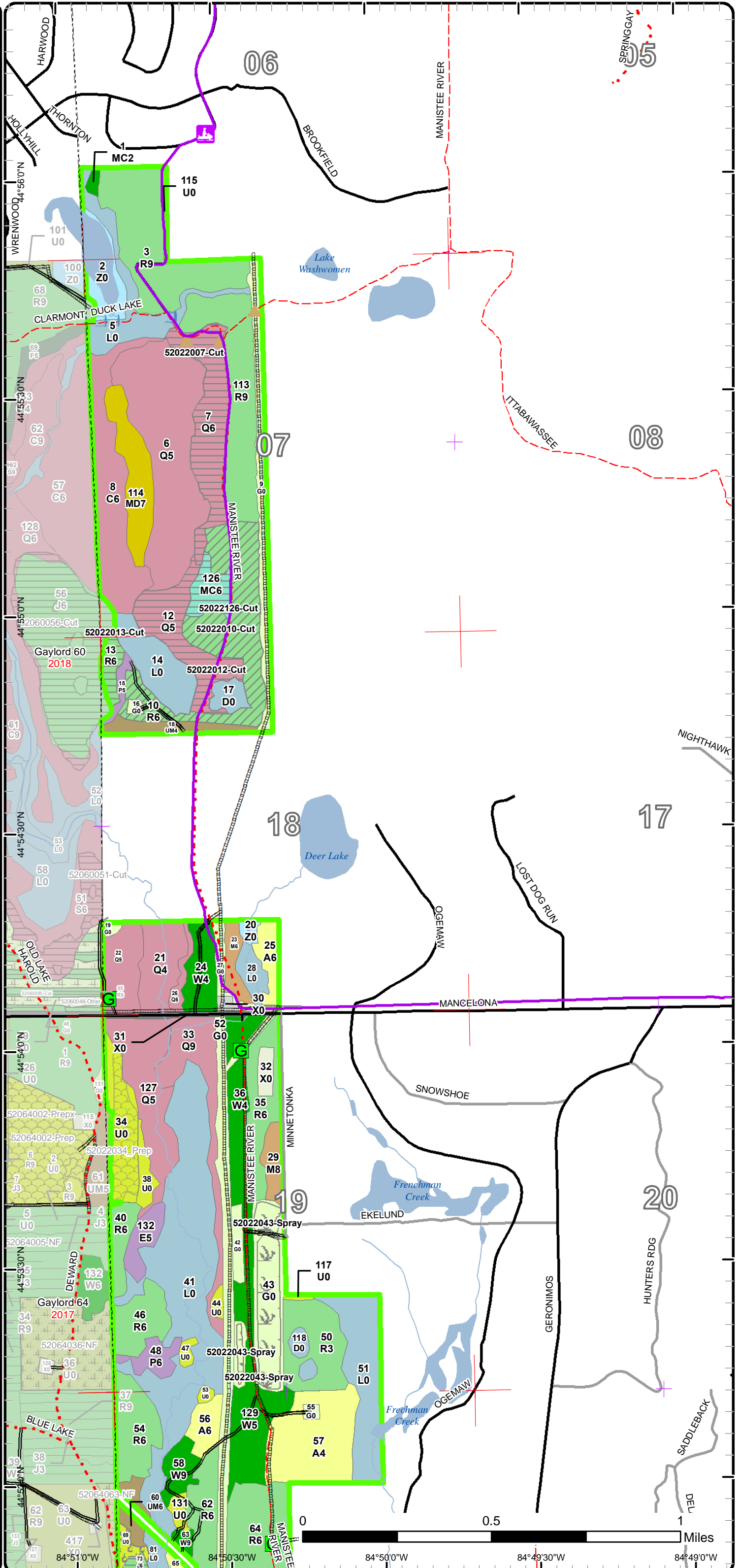
Traverse City 101 2022  
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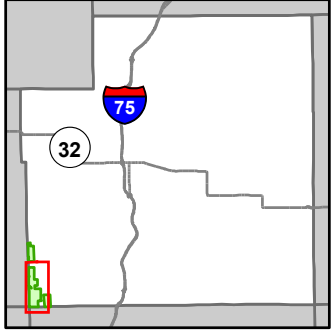
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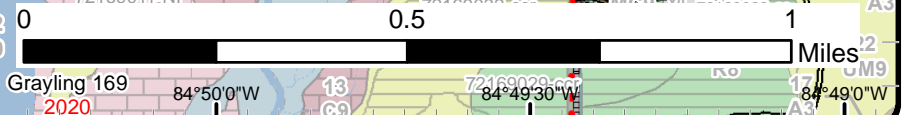
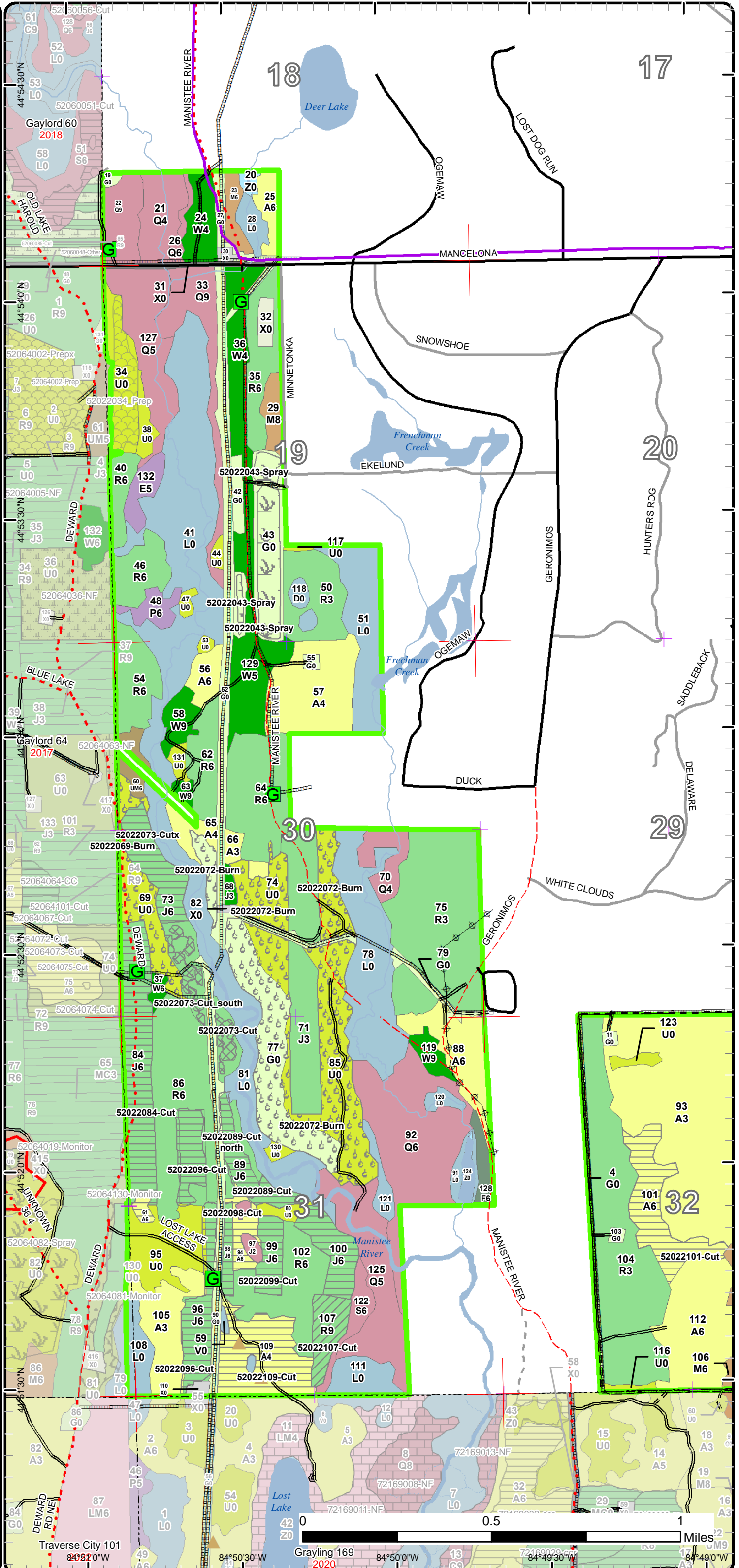


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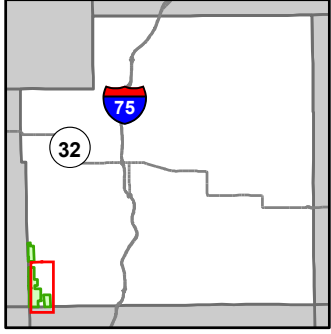


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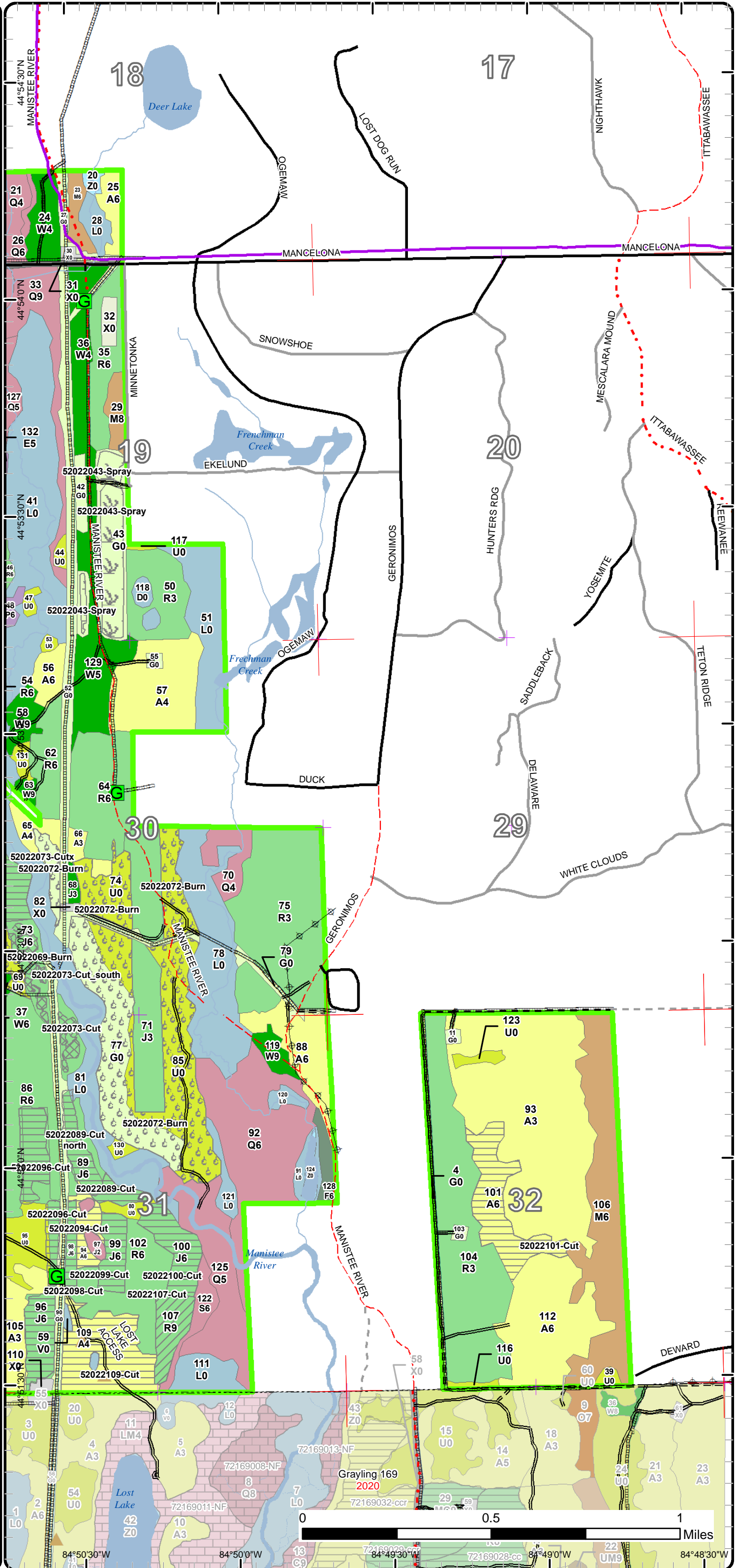


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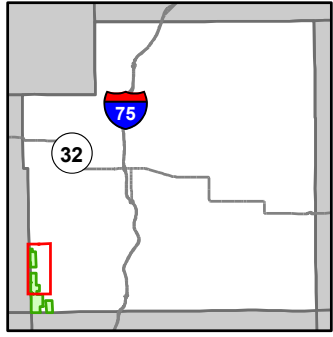
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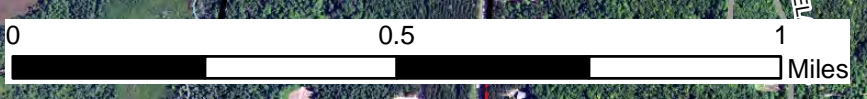
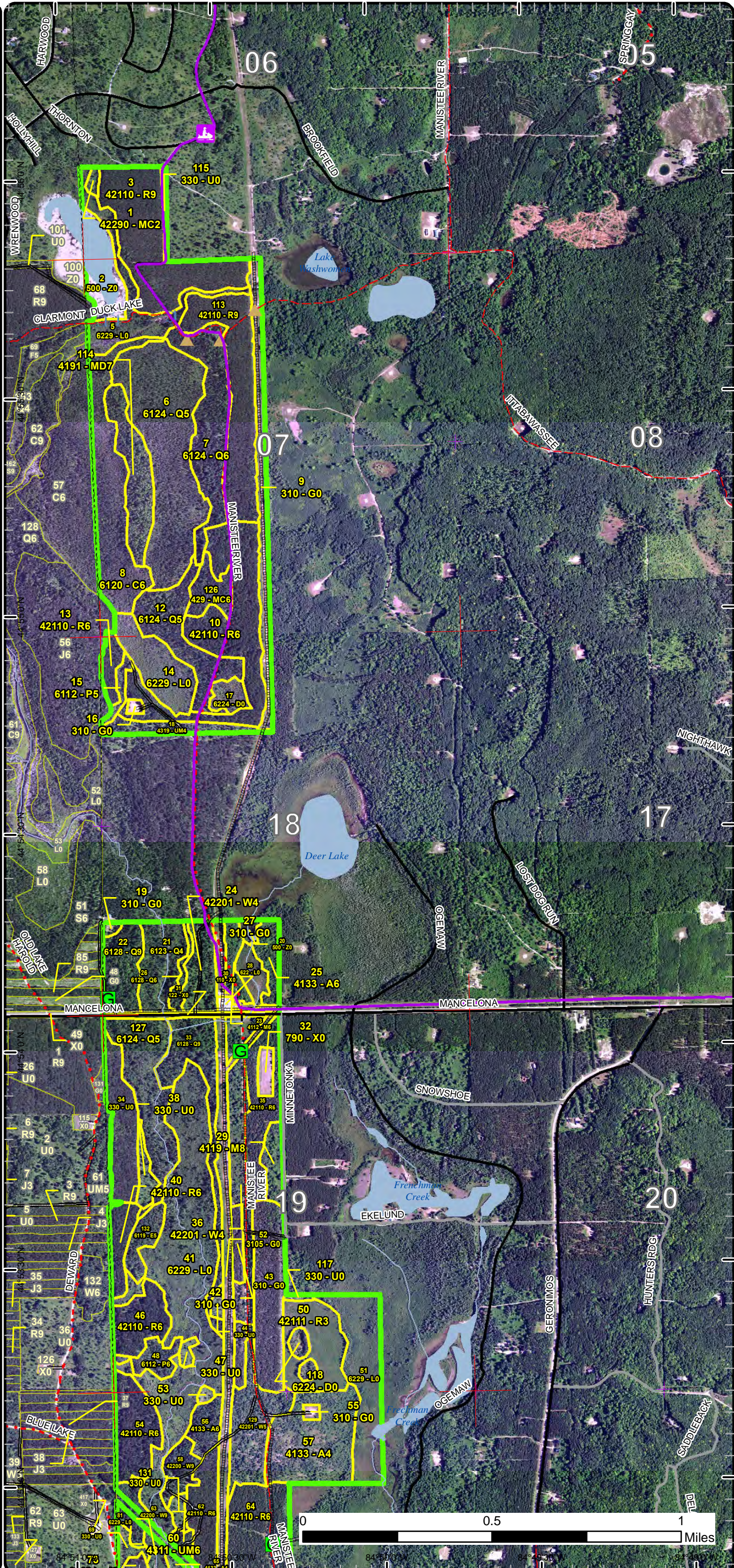


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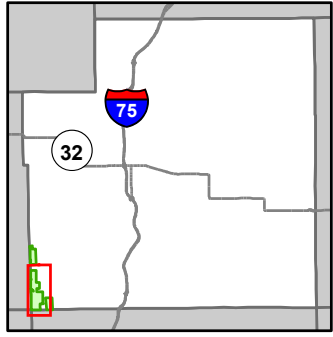
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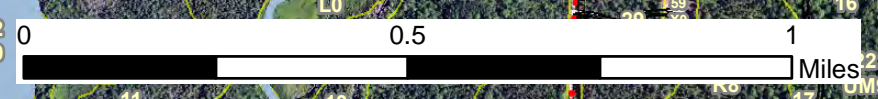
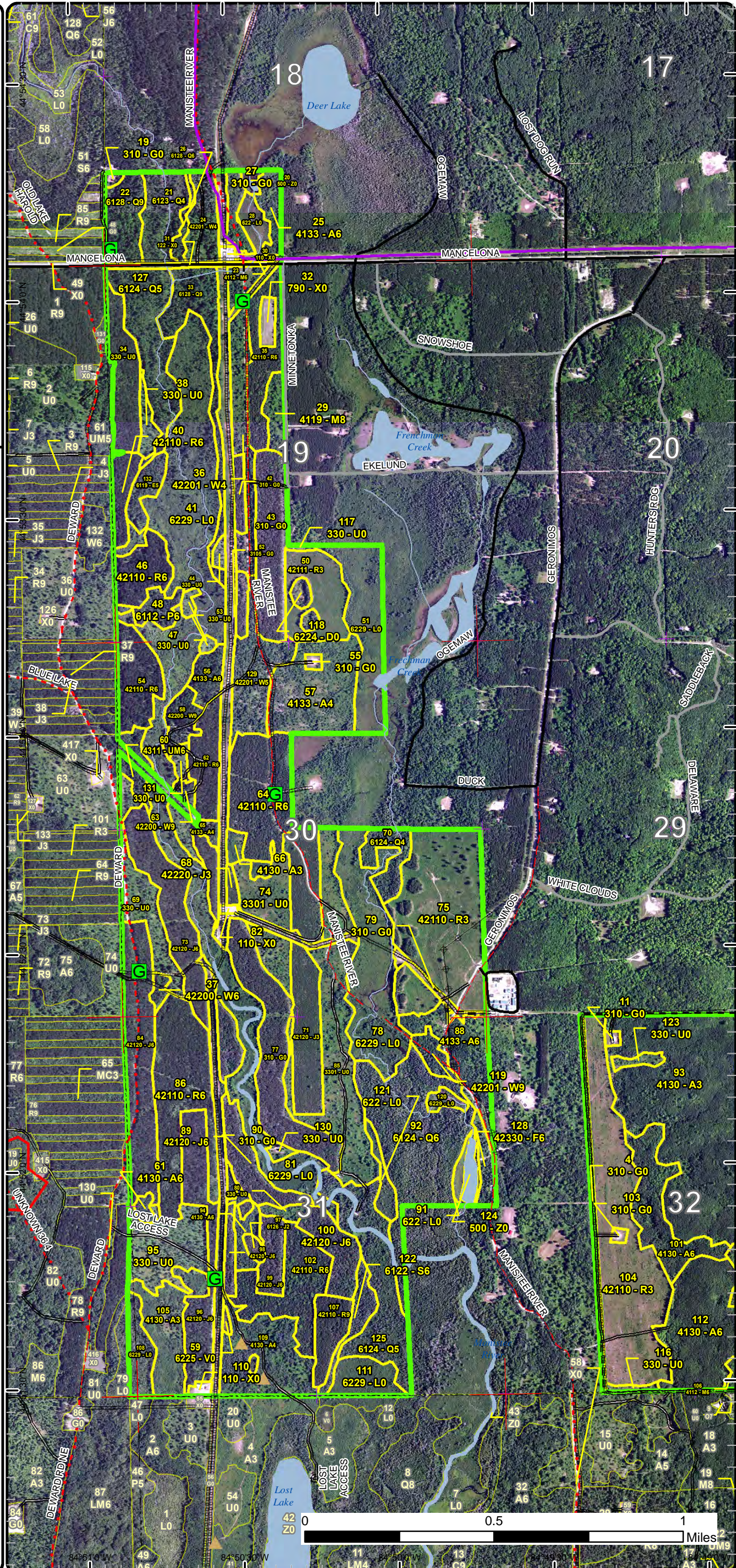


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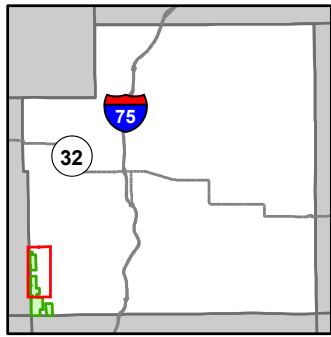




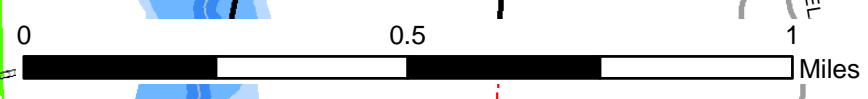
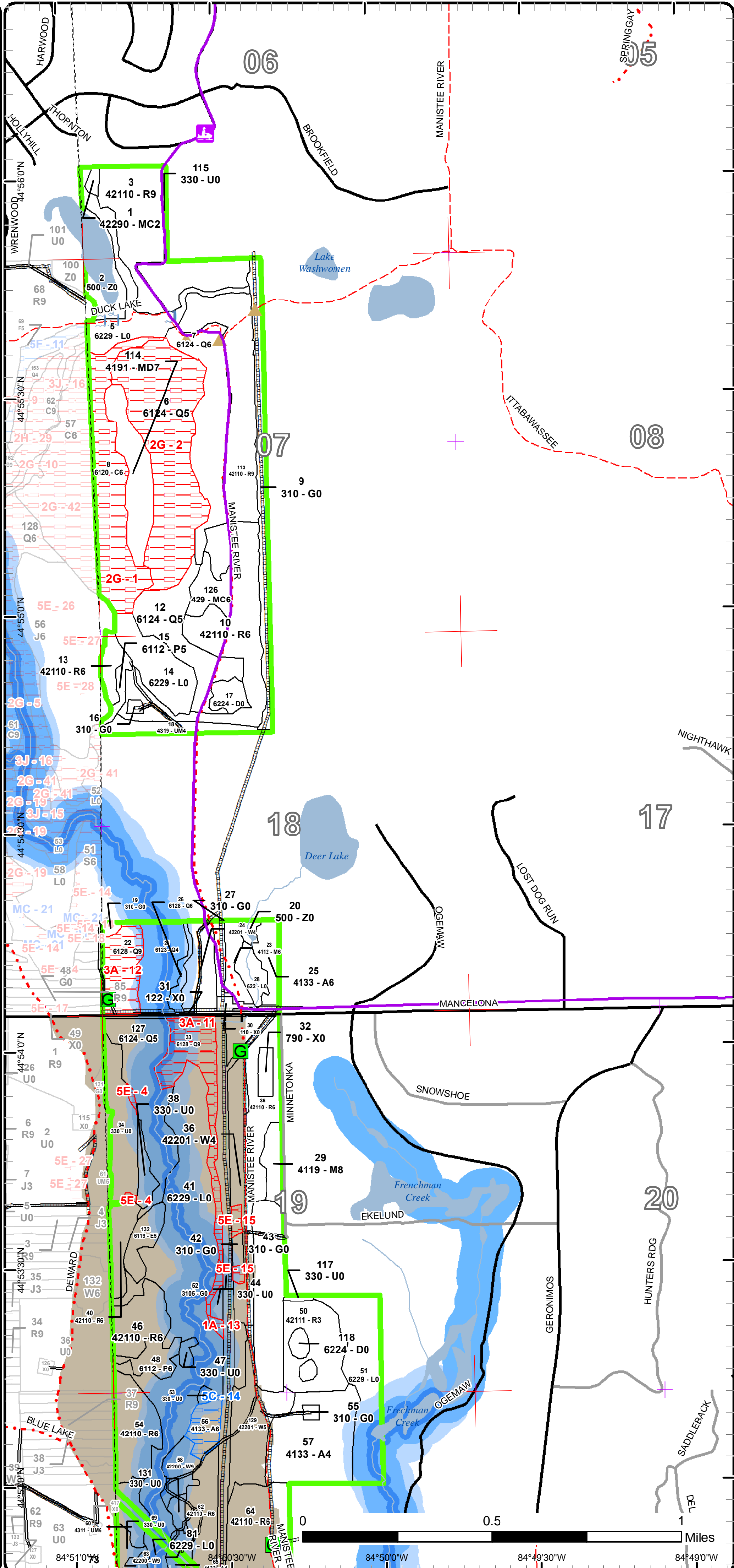


# Special Conservation Areas

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- Unavailable
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
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- Dedicated Management Areas
- Cold Water Streams
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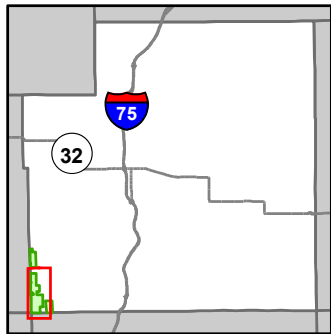


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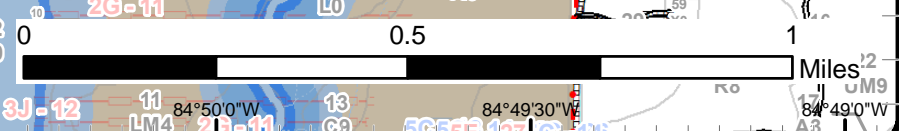
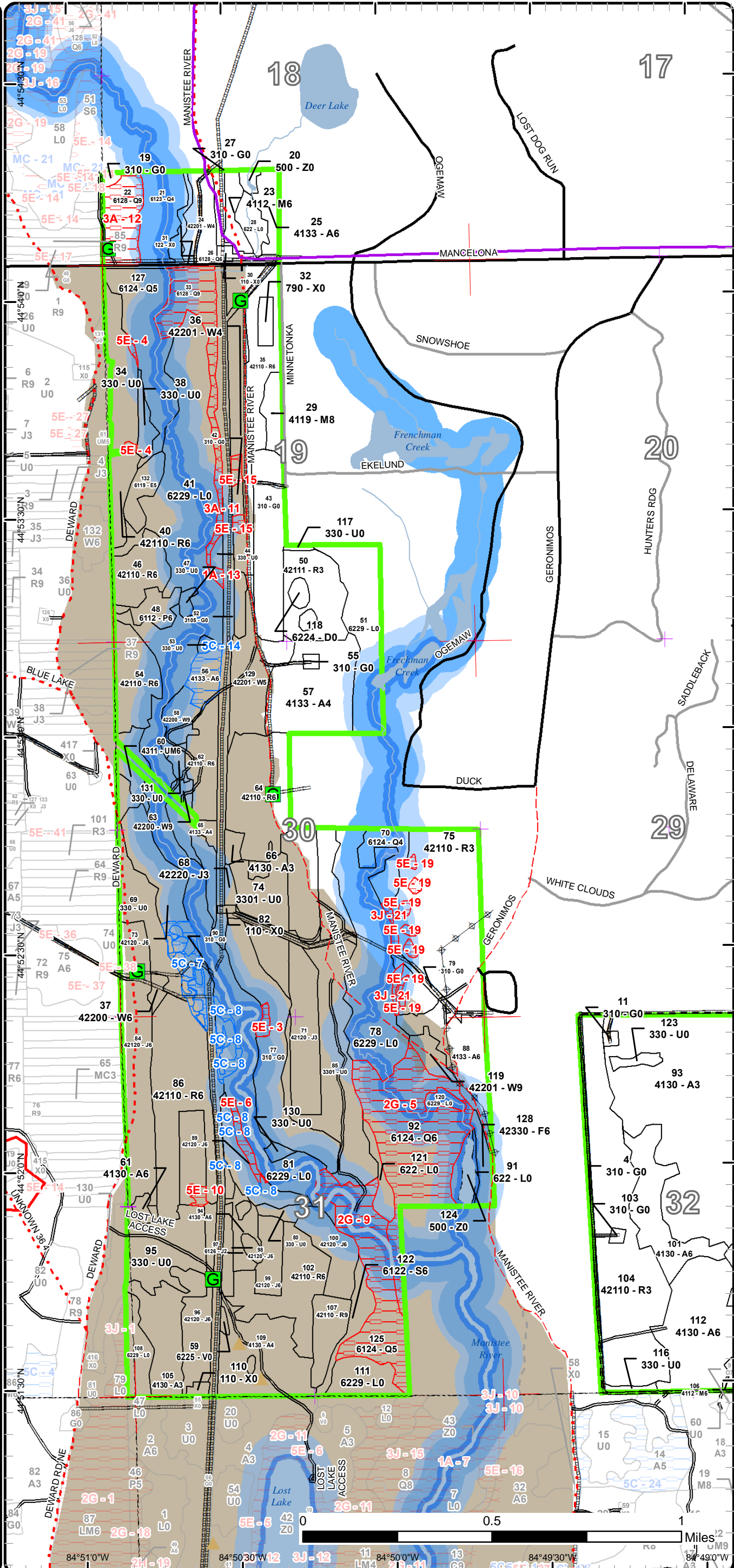


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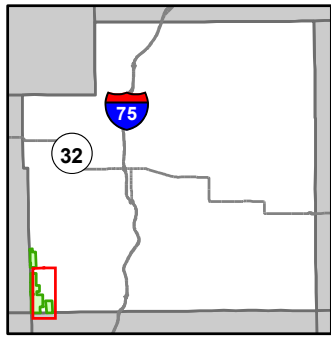
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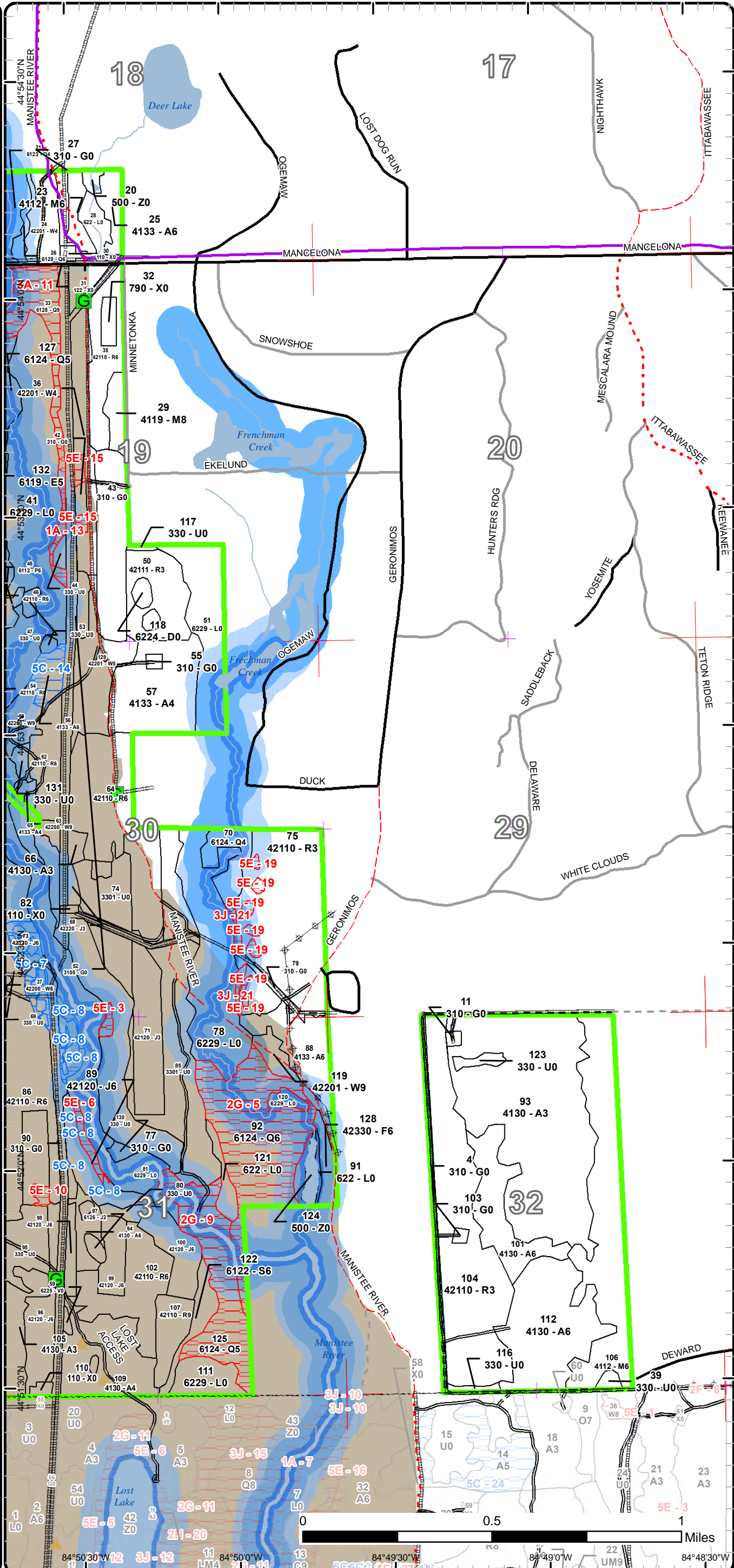


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	26	107	44	98	29	8	0	0	0	0	0	0	0	0	0	0	311
Bare/Sparsely Vegetated	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	36
Herbaceous Openland	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165
Jack Pine	0	0	39	3	0	0	0	135	0	0	0	0	0	0	0	0	0	0	177
Low-Density Trees	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Lowland Aspen/Balsam Poplar	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	107	86	106	0	0	0	0	0	0	0	0	299
Lowland Deciduous	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	284	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	19
Natural Mixed Pines	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Northern Hardwood	0	0	0	0	0	0	6	0	6	59	0	0	0	0	0	0	0	0	71
Red Pine	0	87	72	0	132	0	0	178	0	0	0	0	0	0	0	0	0	0	469
Treed Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	8	0	0	0	6	0	0	0	0	0	0	0	0	0	14
Upland Spruce/Fir	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
White Pine	0	0	0	0	0	12	21	23	2	5	9	0	0	0	0	0	0	0	72
<b>Total</b>	<b>644</b>	<b>87</b>	<b>137</b>	<b>110</b>	<b>185</b>	<b>119</b>	<b>62</b>	<b>378</b>	<b>128</b>	<b>186</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2149</b>





## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 22

Total Compartment Acres: 2,151

Commercial Harvest - 306  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	61	0	0	0	0	0	0	0	0	61
Jack Pine	116	7	0	0	0	0	0	0	0	123
Lowland Conifers	53	0	0	0	0	0	0	0	0	53
Red Pine	5	0	0	0	56	0	0	0	0	61
Upland Conifers	8	0	0	0	0	0	0	0	0	8
<b>Total</b>	<b>243</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>306</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	306	14	0	0	132	19	0	0	0	471
Next Step	0	93	76	0	16	57	437	7	0	685
<b>Total</b>	<b>306</b>	<b>106</b>	<b>76</b>	<b>0</b>	<b>149</b>	<b>76</b>	<b>437</b>	<b>7</b>	<b>0</b>	<b>1156</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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**Approved Treatments:**

<b>7</b>	<b>52022007-Cut</b>	29.5	6124 - Lowland Spruce-Fir	Poletimber Well	75	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all trees 4" DBH and up, leave standard island retention and all white pine over 20" DBH. Add snowmobile trail protection specs and follow BMP's along the creek at the north end.</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</u> Any mix of spruce, fir, aspen, red maple, and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>10</b>	<b>52022010-Cut</b>	45.8	42110 - Planted Red Pine	Poletimber Well	60	201+	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark stand down to 120BA, focus on removing suppressed and poor formed trees. This will be a combination of removing rows and individual trees. Add snowmobile trail protection specs.</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> This stand has not been thinned, rows are squirrely and hard to follow in most of the stand so it would be best this be marked. Overall this stand will benefit more from a mark job than a systematic thinning.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>12</b>	<b>52022012-Cut</b>	23.1	6124 - Lowland Spruce-Fir	Poletimber Medium	70	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all trees 4" DBH and up, leave standard island retention and all white pine over 20" DBH. Add snowmobile trail protection specs and follow BMP's around adjacent bog.</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</u> Any mix of spruce, fir, aspen, maple, and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>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>13 52022013-Cut</b>	4.9	42110 - Planted Red Pine	Poletimber Well	60	171-200	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<u>Prescription</u> Final harvest stand, no retention due to small stand size. Follow BMP's along adjacent we areas. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of red maple, cherry, aspen, balsam fir, or red pine. <u>Regen:</u> <u>Other</u> Start date was moved up so we can add with adjacent sale 52-009-18 so we only have to cross the drainage once (Stand 15). <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021										
<b>43 52022043-Spray</b>	19.2	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Pesticide	ERROR	42250 - Pine, Oak	Even-Aged	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(3yr); ; Monitoring, Artificial Regen(1yr); Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> A mix of planted red pine and red oak that meets minimum stocking criteria. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021										
<b>61 52022061-Cut</b>	1.9	4130 - Aspen	Poletimber Well	62	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest all trees 2" and up, leave no retention due to small stand size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
<b>69 52022069-Burn</b>	19.2	330 - Low-Density Trees	Nonstocked			Burn	Opening	330 - Low-Density Trees		No
<u>Prescription</u> Maintain this stand as a U type through periodic burning as funding allows. <u>Specs:</u> <u>Next Step</u> Monitoring, Prescribed Burn <u>Treatments:</u> <u>Acceptable</u> U type <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>85 52022072-Burn</b>	113.1	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	Burn	Opening	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain these stands as openings/U type through periodic burning as funding allows.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Prescribed Burn</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> U type/herbaceous opening.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>73 52022073-Cut</b>	2.9	42120 - Planted Jack Pine	Poletimber Well	62	111-140	Harvest	Group Selection	42141 - Planted Mixed Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove 50%. Consider chipping to facilitate replanting. Remove 50% through marking 12 - 13 islands 1/2 acre in size. Mark out skid trails between islands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Underplant; SitePrep, Trenching; Pesticide, (Inactive)Skidder/Mechanical; Monitoring, Artificial Regen(1yr); Monitoring, Treatments: Artificial Regen(3yr); Other, Other</p> <p><u>Acceptable</u> Mixed conifer and oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments: Underplant entire stand with white pine and red oak while minimizing site prep (containerized stock?).</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2017</p>										
<b>73 52022073-Cut_south</b>	4.0	42120 - Planted Jack Pine	Poletimber Well	62	111-140	Harvest	Group Selection	42141 - Planted Mixed Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Remove 50%. Remove 50%. Consider chipping to facilitate replanting. Remove 50% through marking 12 - 13 islands 1/2 acre in size.</p> <p><u>Specs:</u> Mark out skid trails between islands.</p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, (Inactive)Skidder/Mechanical; Monitoring, Artificial Regen(1yr); Monitoring, Treatments: Artificial Regen(3yr); Other, Other</p> <p><u>Acceptable</u> Planted oak and white pine along with natural jack pine and incidental hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u> Set up with stands 83 and 89 Old next step comments: Underplant entire stand with white pine and red oak while minimizing site prep (containerized stock?).</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2017</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>73 52022073-Cutx</b>	16.2	42120 - Planted Jack Pine	Poletimber Well	62	111-140	Harvest	Clearcut with Retention	3205 - Mixed Upland Shrub		No
<u>Prescription Specs:</u> Final harvest all trees 2" and up, leave standard retention. Follow BMP's along the river. Keep a minimum 75 ft buffer along the Manistee River.										
<u>Next Step Treatments:</u> Monitoring, Prescribed Burn ; Burn, Opening										
<u>Acceptable Regen:</u> A non-forested stand with various upland shrubs. If post harvest burn does not occur and this becomes a forested stand, that is also acceptable.										
<u>Other Comment:</u> Post harvest apply burn treatment with adjacent stand 69. Natural Rivers has approved cutting the portion of the plantation within the Natural Rivers buffer.										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2022										
<b>84 52022084-Cut</b>	36.0	42120 - Planted Jack Pine	Poletimber Well	62	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription Specs:</u> Final harvest all trees and plant red pine. Leave standard island retention.										
<u>Next Step Treatments:</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping										
<u>Acceptable Regen:</u> Red pine										
<u>Other Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2022										
<b>89 52022089-Cut</b>	3.9	42120 - Planted Jack Pine	Poletimber Well	62	111-140	Harvest	Clearcut	3205 - Mixed Upland Shrub		No
<u>Prescription Specs:</u> Final harvest all trees 2" and up, follow BMP's along the Manistee River. No retention due to small treatment size. Keep a minimum 75 ft buffer along the Manistee River.										
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Acceptable Regen:</u> A non-forested stand with various upland shrubs. If this stand regenerates well naturally and this becomes forested, that is acceptable also.										
<u>Other Comment:</u> Natural Rivers has approved cutting the portion of the plantation within the Natural Rivers buffer.										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2022										
<b>89 52022089-Cut north</b>	8.1	42120 - Planted Jack Pine	Poletimber Well	62	111-140	Harvest	Clearcut with Retention	42120 - Planted Jack Pine	Even-Aged	No
<u>Prescription Specs:</u> Cut in 2018. Clear cut with retention along wetland.										
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Acceptable Regen:</u>										
<u>Other Comment:</u> Old next step comments: Replant a mix of white pine, red pine and red oak. MO is pine and mixed deciduous.										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2017										





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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94	52022094-Cut	6.1	4130 - Aspen	Poletimber Well	60	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" and up, leave no retention due to small stand size. Follow BMP's to protect small adjacent bogs (stand 97).  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, cherry  <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 /2022</p>											

96	52022096-Cut	26.5	42120 - Planted Jack Pine	Poletimber Well	62	111- 140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention near center of stand around the aspen clone. Stands 96 and 98 are being treated as a multi-part polygon. Consider chipping to facilitate planting.  <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> Old next step comments: Replant red pine north of stand 95. Management objective is upland brush east of 95. Natural regeneration of  <u>Comment:</u> jack pine and mixed deciduous adjacent to stand 105.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2017</p>											

98	52022098-Cut	4.2	42120 - Planted Jack Pine	Poletimber Well	62	111- 140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" and up, no retention due to small stand size.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of red maple, aspen, jack pine, and cherry.  <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 /2022</p>											

99	52022099-Cut	8.5	42120 - Planted Jack Pine	Poletimber Well	62	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" and up, leave no retention due to small stand size. Follow BMP's along adjacent bog (stand 97).  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of red maple, aspen, and jack pine  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /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
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100	52022100-Cut	12.9	42120 - Planted Jack Pine	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Final harvest all trees 2" and up, leave standard island retention. Keep a minimum 75 ft buffer along the Manistee River.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of red maple, jack pine, and cherry.

Regen:

Other Natural Rivers has approved cutting the portion of the plantation within the Natural Rivers buffer.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

101	52022101-Cut	23.8	4130 - Aspen	Poletimber Well	47	1-50	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Final harvest all trees 2" and up, leave standard island retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

107	52022107-Cut	10.4	42110 - Planted Red Pine	Sawtimber Well	60	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Remove every third row in the plantation.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Rows are pretty distinct and should be able to be followed by producer.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

109	52022109-Cut	29.4	4130 - Aspen	Poletimber Poor	55	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest all trees 2" and up, leave standard island retention. Follow BMP's along wet areas (stand 59).

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, cherry, red maple. Poorly stocked areas/U type are expected and acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022





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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
126 52022126-Cut	7.9	429 - Mixed Upland Conifers	Poletimber Well	63	81-110	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 4" and up, leave all white pine over 20" DBH. No additional retention due to small stand size. Add snowmobile trail protection specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of fir, spruce, maple, aspen, 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>										

**Total Treatment** 457.5  
**Acres Proposed:**



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Matthew Foster : Examiner

Compartment: 22

Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5C	1A	2G	3A	3J	5E	
312	305	<b>7</b>	0	Aspen	<b>7</b>						
3	3	<b>0</b>	0	Bare/Sparsely Vegetated							
1	1	<b>0</b>	0	Bog							
36	0	<b>0</b>	36	Cedar			36				
166	162	<b>0</b>	4	Herbaceous Openland	<b>0</b>						4
176	162	<b>11</b>	4	Jack Pine	<b>11</b>						4
157	156	<b>0</b>	1	Low-Density Trees							1
9	9	<b>0</b>	0	Lowland Aspen/Balsam Poplar							
298	110	<b>0</b>	189	Lowland Conifers		2	153	34			
7	7	<b>0</b>	0	Lowland Deciduous							
284	284	<b>0</b>	0	Lowland Shrub							0
7	7	<b>0</b>	0	Lowland Spruce/Fir							
19	19	<b>0</b>	0	Mixed Upland Deciduous							
1	1	<b>0</b>	0	Natural Mixed Pines							
71	71	<b>0</b>	0	Northern Hardwood							
469	463	<b>0</b>	6	Red Pine	<b>0</b>				2		4
8	8	<b>0</b>	0	Treed Bog							
8	8	<b>0</b>	0	Upland Conifers							
14	14	<b>0</b>	0	Upland Mixed Forest							
6	6	<b>0</b>	0	Upland Spruce/Fir							
7	7	<b>0</b>	0	Urban							
19	19	<b>0</b>	0	Water							
73	73	<b>0</b>	0	White Pine							
2,151	1,894	<b>18</b>	240	Total Forested Acres	<b>18</b>	2	189	34	2		13
	88%	<b>1%</b>	11%	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		<b>2G: Too wet (sensitive soils, does not include access issues)</b>	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Matthew Foster : Examiner

Compartment: 22  
Year of Entry: 2023

2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	61	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	56	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Matthew Foster : Examiner

Compartment: 22  
Year of Entry: 2023

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	3A: Conservation Values incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	1A: Federal/State/Local Law	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manistee River Buffer							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Matthew Foster : Examiner

Compartment: 22  
Year of Entry: 2023

14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Serves as retention for stands 42, 43, and 49.							
19	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer left along Frenchman Creek							



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
<b>Comments</b>				





## 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	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
1	42290 - Natural Mixed Pine	Sapling Medium	1.3	30	1-50	N/A	Small stand slowly filling in with trees, beaver activity on the aspen.																																																							
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2	500 - Water	Nonstocked	14.3			No	Duck Lake.																																																							
3	42110 - Planted Red Pine	Sawtimber Well	42.7	64	141-170	N/A	Third row thinned in 1994, crown thinning done in fall of 2014. Average BA is 150 from 7 plots. Will need thinned again next entry.																																																							
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4	310 - Herbaceous Openland	Nonstocked	6.0	0		No	Pipeline corridor and two track.																																																							
5	6229 - Mixed lowland shrub	Nonstocked	19.7		Immature	No	Mostly tag alder and cattail, mixed with balsam, paper birch, aspen, and pine. Looks like it floods periodically.																																																							
6	6124 - Lowland Spruce-Fir	Poletimber Medium	60.9	85	51-80	N/A	Variable stand, very wet.																																																							
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7	6124 - Lowland Spruce-Fir	Poletimber Well	29.5	75	51-80	N/A	Doesn't seem to be very wet right now, scattered large diameter white pine.																																																							
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10	42110 - Planted Red Pine	Poletimber Well	45.8	60	201+	N/A	I don't think this stand has ever been thinned, BA is 208 from 6 plots. Rows are very squirrely, hard to follow in spots and easy in others. West of the road has a pocket that seems dominated by balsam.																																																
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12	6124 - Lowland Spruce-Fir	Poletimber Medium	23.1	70	51-80	N/A	Some nice tall spruce in here, variable stocking some areas blown down. Pocket of red maple shows up on imagery. Should consider harvesting leaving the big pine.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
15	6112 - Lowland Aspen	Poletimber Medium	2.8	43	1-50	N/A	Wet drainage and side slopes that are associated with it, beaver dam at the north end.																																																
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16	310 - Herbaceous Openland	Nonstocked	1.0		Immature		Gas well, Jordan Development State Hayes 4-18.																																																
17	6224 - Treed Bog	Nonstocked	4.7			No	Bog seeding in with white pine, spruce, and tamarack. Could be considered forested soon.																																																
18	4319 - Mixed Upland Forest	Poletimber Poor	8.0	30	1-50	N/A	Skinny mixed, sparse stand. West end drops down towards the adjacent drainage.																																																
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19	310 - Herbaceous Openland	Nonstocked	1.0			No	Mostly open with scattered trees and old white pine stumps.																																																
20	500 - Water	Nonstocked	1.8			No	Looks like mostly water, overflow from adjacent Deer Lake.																																																
21	6123 - Lowland Fir	Poletimber Poor	15.8	70	1-50	N/A	Low stocked conifer stand with a lot of tag alder underneath, Manistee River runs through the middle.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**22** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 14.3 90 81-110 N/A This is a neat stand with large diameter white pine and hemlock pockets throughout.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	12	
Paper Birch	5	Log/Pole	10	
Balsam Fir	25	Pole	8	90
Black Spruce	15	Pole	9	
White Pine	15	Log/XLog	16	
Hemlock	15	Log	13	
Black Cherry	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling
Black Spruce	Low	Variable	Sapling

**23** 4112 - Maple, Beech, Cherry Association Poletimber Well 5.7 52 51-80 N/A Poor quality hardwood stand, looks like maybe some type of harvest 30 or so years ago? Could not find any records.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	35	Pole/Log	9	
Red Maple	50	Pole/Log	9	52
Ironwood	5	Pole	6	
Quaking Aspen	5	Pole	9	
Basswood	1	Log/Pole	10	
Balsam Fir	2	Pole	8	
White Pine	2	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	High	5 - 10 feet	Sapling
White Pine	Low	Variable	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Witch Hazel	Trace	5 - 10 feet	Tall Shrub

**24** 42201 - Natural White Pine, Mixed Deciduous Poletimber Poor 11.6 45 1-50 N/A Previously a U type but has slowly filled in, mostly with white pine.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	65	Pole	7	45
Quaking Aspen	5	Pole	6	
Red Maple	5	Pole	7	
Black Cherry	20	Pole	6	
Balsam Fir	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
Black Cherry	Low	5 - 10 feet	Sapling

**25** 4133 - Aspen, Mixed Pine Poletimber Well 6.9 42 51-80 N/A Mix of aspen, white pine and some open areas. Beave sign on the west side of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	58	Pole	8	42
White Pine	30	Pole/Log	9	
Black Cherry	5	Pole	8	
Red Maple	5	Pole/Log	9	
Balsam Fir	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Red Pine	Low	5 - 10 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**26** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 3.1 80 81-110 N/A Typical q type, transition between high and low ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Paper Birch	10	Pole/Log	9		Black Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	35	Pole	9	80				
Black Spruce	10	Pole/Log	9					
White Pine	15	Log	15					
Black Cherry	5	Pole	8					

**27** 310 - Herbaceous Openland Nonstocked 4.9 Unspecified Pipeline.

**28** 622 - Lowland Shrub Nonstocked 5.4 No Wet area filling in with lowland shrubs.

**29** 4119 - Mixed Northern Hardwoods Sawtimber Medium 6.4 70 51-80 N/A Open grown, clumpy red maple with a couple of aspen pockets. Old white pine stumps scattered throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	18	Pole	7		White Pine	Low	Variable	Sapling
Red Maple	75	Log/Pole	10	70	Quaking Aspen	Low	5 - 10 feet	Sapling
White Pine	5	Log/Pole	10					
Black Cherry	2	Pole	6					

**30** 110 - Low Intensity Urban Nonstocked 1.2 Immature TransCanada Manistee and Chester Meter Station, fenced off with a lot of infrastructure.

**31** 122 - Road/Parking Lot Nonstocked 4.0 No Mancelona Road and ROW.

**32** 790 - Other Bare/Sparsely Vegetated Nonstocked 3.3 No Looks like an old borrow pit.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**33** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 21.7 89 51-80 N/A Most of the white pine is at the north end, creek runs through the north end also.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log	12	
Balsam Fir	13	Pole	8	
Black Spruce	20	Pole	9	
White Pine	25	Log	15	89
Hemlock	5	Log	13	
Black Cherry	10	Pole	6	
Paper Birch	5	Pole	6	
Northern White Cedar	5	Pole/Log	9	
Tamarack	2	Pole	8	

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

**34** 330 - Low-Density Trees Nonstocked 18.1 0 Unspecified 4211 - Planted Red Pine Note MO was changed to planted Red Pine during the 2021 compartment review. Follow up treatments of roller chopping, trenching, and herbicide were also added as next step treatments. This stand is under contract 52-026-17. Jack pine is in rough shape, mortality occurring and tops snapping. Stand harvested 06/21 as part of previously mentioned sale.

**35** 42110 - Planted Red Pine Poletimber Well 17.4 39 111-140 N/A Rows are planted pretty wide (12-14ft), resulting in trees with high live crown ratios. BA is 126 from 5 plots.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	4	Pole	7	
Red Pine	90	Pole	7	39
Black Cherry	4	Pole	7	
Quaking Aspen	2	Pole	6	

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

**36** 42201 - Natural White Pine, Mixed Deciduous Poletimber Poor 23.2 60 1-50 N/A Long skinny stand, mix of white pine and some U type. A handful of large diameter white pine along the road. North end has a wet drainage with a creek that flows west across the pipeline.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	4	Pole	6	
White Pine	60	Pole/Log	8	60
Quaking Aspen	5	Pole	8	
Red Pine	1	Log/Pole	10	
Black Cherry	15	Pole	8	
Red Maple	14	Pole	9	
Balsam Fir	1	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Black Cherry	Low	5 - 10 feet	Sapling

**37** 42200 - Natural White Pine Poletimber Well 2.2 75 81-110 N/A Small stand of white pine of all sizes, a few xl sized.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	80	Pole/Log	9	75
Quaking Aspen	20	Pole	7	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
38	330 - Low-Density Trees	Nonstocked	4.2			No	Opening with scattered cherry and jack pine.																													
39	330 - Low-Density Trees	Nonstocked	1.7	0		No	Small opening with scattered cherry and white pine seeding in.																													
40	42110 - Planted Red Pine	Poletimber Well	8.1	60	141-170	N/A	Stocking is erratic, BA is 150 from 3 plots. Looks like survival wasn't the best from original planting.																													
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41	6229 - Mixed lowland shrub	Nonstocked	87.2			No	Large area of tag alder along the Manistee River, some scattered trees throughout.																													
42	310 - Herbaceous Openland	Nonstocked	3.9	0	Unspecified	No	Through compartment review, it was decided to drop the planting treatment on this stand and accept the current regeneration. Harvested 04/2018, open with a few cherry and jack pine volunteers. North and south portions of this stand are retention that was left for adjacent stands 43 and 49 since all three stands were the same plantation.																													
43	310 - Herbaceous Openland	Nonstocked	29.0	0	Unspecified	No	Harvested 04/18, pretty open with some scattered cherry. Decent amount of jack pine volunteers. Scheduled to be planted to red pine. Trenched 06/20.																													
44	330 - Low-Density Trees	Nonstocked	1.5			No	Scattered cherry and white pine.																													
46	42110 - Planted Red Pine	Poletimber Well	13.4	60	141-170	N/A	Stocking is erratic, high live crown ratios in most spots, BA is 157 from 4 plots.																													
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47	330 - Low-Density Trees	Nonstocked	1.6		Unspecified	No	Scattered cherry and white pine.																													
48	6112 - Lowland Aspen	Poletimber Well	6.3	41	51-80	N/A	Hard to tell how wet this is, portion near red pine stand is upland and dry. Thick shrub layer under a lot of this stand.																													
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50	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	19.9	8	Immature	N/A	Planted in 2013 as part of the red pine project. Red Oak was also planted on this site in 2015. Red pine is now 5-7ft tall, does have some areas that heavy with cherry.																																																																								
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51	6229 - Mixed lowland shrub	Nonstocked	28.7			No	Tag alder with some aspen and conifer. South end includes Frenchman Creek and is a little more open but still filling in with shrubs.																																																																								
52	3105 - Mixed Upland Herbaceous	Nonstocked	36.3		Unspecified		Pipeline corridor, filling in with trees in some spots.																																																																								
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54	42110 - Planted Red Pine	Poletimber Well	17.5	60	141-170	N/A	Erratic stocking, high live crown ratios, BA is 150 from 4 plots. Small drainage at the north end.																																																																								
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55	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Riverside Energy State Hayes (Frederic VIII) A 3-30.																																																																								
56	4133 - Aspen, Mixed Pine	Poletimber Well	6.8	49	51-80	N/A	Small wet area in the middle, pocket of pine along the road. Could harvest this, but would rather leave until something nearby will be harvested.																																																																								
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57	4133 - Aspen, Mixed Pine	Poletimber Poor	32.6	45	1-50	N/A	Very poor quality aspen with some open U type areas. Old pine stumps scattered throughout.																																																																								
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<b>58</b>	42200 - Natural White Pine	Sawtimber Well	7.3	90	111-140	N/A	South of the two track is more open grown and shorter trees. A few scattered XL white pine here.																																								
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<b>59</b>	6225 - Bog	Nonstocked	1.4		Immature	No	Two small bogs with leatherleaf and lowland shrubs, north area has some jack pine seeding in.																																								
<b>60</b>	4311 - Pine, Aspen Mix	Poletimber Well	5.5	70	51-80	N/A	Pine aspen mix, small stand on both sides of a skinny strip of pvt (old RR grade).																																								
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<b>61</b>	4130 - Aspen	Poletimber Well	1.9	62	51-80	N/A	Small pocket of aspen with red maple in the understory.																																								
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<b>62</b>	42110 - Planted Red Pine	Poletimber Well	13.6	38	51-80	N/A	BA is 132 from 4 plots, 12 ft wide rows.																																								
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<b>63</b>	42200 - Natural White Pine	Sawtimber Well	2.1	90	111-140	N/A	Basically a pure white pine stand, a few xl white pine found.																																								
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<b>66</b>	4130 - Aspen	Sapling Well	3.9	17	Immature	N/A	Harvested in 2004, dense aspen regeneration.																																																				
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<b>68</b>	42220 - Natural Jack Pine	Sapling Well	1.8	17	Immature	N/A	Extremely thick jack pine regeneration.																																																				
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<b>69</b>	330 - Low-Density Trees	Nonstocked	19.2			No	Scattered cherry, aspen, and pine. Jack pine and red pine are slowly filling in this stand, it will become forested if not maintained.																																																				
<b>70</b>	6124 - Lowland Spruce-Fir	Poletimber Poor	10.1	75	1-50	N/A	Tag alder with low stocked conifer trees, higher BA along the edge.																																																				
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<b>71</b>	42120 - Planted Jack Pine	Sapling Well	36.9	16	Immature	N/A	Harvested in 2004, planted a mix of white pine and jack pine in 2005. Not sure what the planting ratio was but jack pine is dominating this stand. Where you find white pine it is about half the height of the jack pine.																																																				
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<b>73</b>	42120 - Planted Jack Pine	Poletimber Well	33.6	62	111-140	N/A	South half of this stand is under contract 52-022-18. Jack pine is in bad shape, tops snapping and mortality. Fairly light understory overall.																															
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<b>74</b>	3301 - Low Density Deciduous Trees	Nonstocked	20.8		Unspecified	Managed Opening	Notes indicate this has been burned in the past. Scattered cherry, aspen, and pine.																															
<b>75</b>	42110 - Planted Red Pine	Sapling Well	67.2	8	Immature	N/A	Trenched in 2011, sprayed in 2012, and planted in 2013 as part of the red pine project. Red Oak was also planted in 2015. Multiple retention islands left in addition to buffer along Frenchmans Creek. Red pine is now about 5 to 7ft tall, scattered cherry and aspen throughout.																															
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<b>77</b>	310 - Herbaceous Openland	Nonstocked	40.6		Unspecified	Managed Opening	Harvested in 2018, objective is to keep open and maintain as a wildlife opening through periodic prescribed fire. Currently the stand is pretty open with a few scattered cherry, a good amount of jack pine volunteers ~ 2ft tall. There are enough volunteers that will result in this becoming a forested jack pine stand in the future if maintenance is not completed to keep it open.																															
<b>78</b>	6229 - Mixed lowland shrub	Nonstocked	45.7		Unspecified	No	Lowland shrubs with some conifer seeding in.																															
<b>79</b>	310 - Herbaceous Openland	Nonstocked	3.5			No	Pipeline corridor, filling in with aspen and pine.																															
<b>80</b>	330 - Low-Density Trees	Nonstocked	2.8	0	Unspecified	No	Scattered cherry with jack pine filling in, west end has the most jack pine.																															
<b>81</b>	6229 - Mixed lowland shrub	Nonstocked	48.3		Unspecified	No	Manistee River corridor, mostly tag alder with some scattered trees.																															
<b>82</b>	110 - Low Intensity Urban	Nonstocked	0.7				TransCanada Wilderness Meter Station, fenced off area with infrastructure.																															





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>84</b>	42120 - Planted Jack Pine	Poletimber Well	36.0	62	51-80	N/A	This was sold as part of 52-001-14, was never cut and turned back in. Jack pine is declining, a lot of red maple in the understory.																																														
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<b>85</b>	3301 - Low Density Deciduous Trees	Nonstocked	51.7		Unspecified	Managed Opening	Mostly scattered cherry, occasional red maple, aspen, and jack pine.																																														
<b>86</b>	42110 - Planted Red Pine	Poletimber Well	43.1	39	141-170	N/A	Average BA is 150 from 5 plots, rows are pretty wide (~12ft). Pockets of aspen are found throughout.																																														
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<b>88</b>	4133 - Aspen, Mixed Pine	Poletimber Well	21.5	46	51-80	N/A	Most of the white pine is near Frenchman Creek, otherwise pretty low quality aspen.																																														
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<b>89</b>	42120 - Planted Jack Pine	Poletimber Well	14.0	62	111-140	N/A	Proposing through compartment review to change MO to upland shrub after 52-022-18 is harvested. If stand becomes forested this is also acceptable.  Most of the stand is currently under contract 52-022-18. Overstory is pure jack pine, fairly light understory.																																														
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<b>90</b>	310 - Herbaceous Openland	Nonstocked	16.5		Unspecified		Pipeline, some aspen and jack pine encroaching.																																														
<b>91</b>	622 - Lowland Shrub	Nonstocked	3.7			No	Mix of lowland shrub and grasses surrounding a fluctuating beaver flooding.																																														



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<b>92</b>	6124 - Lowland Spruce-Fir	Poletimber Well	56.3	95	51-80	N/A	Variable stand, Frenchman Creek runs through the middle, very wet in spots.																																																					
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<b>93</b>	4130 - Aspen	Sapling Well	107.2	26	Immature	N/A	Borderline sapling/pole stand. Even though its coded as sapling stand there are pockets of pole sized trees here. Looks like oak was left during the harvest.																																																					
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<b>94</b>	4130 - Aspen	Poletimber Well	6.2	60	51-80	N/A	This was sold as part of 52-001-14, was never cut and turned back in. Clones consisting of varying sizes/ages, poor quality.																																																					
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<b>95</b>	330 - Low-Density Trees	Nonstocked	23.8		Unspecified	No	Scattered cherry, aspen, and some pine seeding in.																																																					
<b>96</b>	42120 - Planted Jack Pine	Poletimber Well	25.9	62	111-140	N/A	Currently under contract 52-022-18, south end has pockets where advanced red maple has taken over dead jack pine pockets. Jack pine overall is in bad shape.																																																					
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<b>97</b>	6126 - Lowland Jack Pine	Sapling Medium	2.6	25	Immature	N/A	Two small leatherleaf bogs with jack pine growing in them. They don't seem overly wet but hard to tell with the snow.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>98</b>	42120 - Planted Jack Pine	Poletimber Well	4.2	62	111-140	N/A	This was sold as part of 52-001-14, was never cut and turned back in. Small skinny stand, jack pine declining.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>				
Red Pine		2	Log/Pole	10		Density		Avg. Height		
Jack Pine		98	Pole/Log	8	62	Size				
						Red Maple	Medium	Variable	Sapling	
						Beech	Low	5 - 10 feet	Sapling	
						Black Cherry	Low	5 - 10 feet	Sapling	
<b>99</b>	42120 - Planted Jack Pine	Poletimber Well	8.5	62	81-110	N/A	This was sold as part of 52-001-14, was never cut and turned back in. Jack pine mortality occurring with red maple regeneration underneath.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>				
Jack Pine		95	Pole/Log	8	62	Density		Avg. Height		
Quaking Aspen		3	Pole	8		Size				
Red Maple		2	Pole/Log	9		Red Maple	High	10 - 20 feet	Sapling	
						Black Cherry	Low	5 - 10 feet	Sapling	
<b>100</b>	42120 - Planted Jack Pine	Poletimber Well	12.9	60	81-110	N/A	This was sold as part of 52-001-14, was never cut and turned back in. Jack pine is declining and falling out, a lot of advanced red maple.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>				
Jack Pine		85	Pole/Log	9	60	Density		Avg. Height		
Black Cherry		10	Pole/Log	9		Size				
Red Maple		5	Log/Pole	10		Red Maple	High	>20 feet	Sapling	
						Balsam Fir	Low	5 - 10 feet	Sapling	
						Black Cherry	Low	5 - 10 feet	Sapling	
<b>101</b>	4130 - Aspen	Poletimber Well	23.8	47	1-50	N/A	Variable diameters throughout, some pockets of smaller diameter hardwoods.			
<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	Pole	6		Density		Avg. Height		
Quaking Aspen		55	Pole	6	47	Size				
Black Cherry		4	Pole	5		Red Maple		Low	5 - 10 feet	Sapling
Bigtooth Aspen		15	Pole	7		Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub
Red Pine		2	Pole/Log	9		Black Cherry		Medium	5 - 10 feet	Sapling
Sugar Maple		5	Pole	7		Ironwood		Low	Variable	Sapling
Red Oak		1	Pole/Log	9						
Ironwood		3	Sapling/Pole	4						
<b>102</b>	42110 - Planted Red Pine	Poletimber Well	25.8	39	111-140	N/A	Scattered cherry and red maple throughout, rows are fairly wide (~12ft). BA is 140 from 5 plots.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>				
Red Maple		3	Pole	8		Density		Avg. Height		
Red Pine		90	Pole	7	39	Size				
Black Cherry		7	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling	
						Black Cherry	Low	5 - 10 feet	Sapling	
<b>103</b>	310 - Herbaceous Openland	Nonstocked	0.9				Gas well, Riverside Energy State Hayes C 2-32.			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>104</b>	42110 - Planted Red Pine	Sapling Well	71.6	10	Immature	N/A	Planted in 2011 as part of the red pine project. Stocking isn't the best in some spots, scattered cherry and aspen. Red pine is about 5-8ft tall.																																														
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<b>105</b>	4130 - Aspen	Sapling Well	21.6	18	Immature	N/A	Harvested in 2004, dense regeneration throughout most of the stand, the middle is a little open with some scattered cherry.																																														
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<b>106</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	58.6	84	81-110	N/A	BA is 105 from 5 plots. Variable stand with areas of decent hardwood and then areas with beech (falling out) and aspen. Highest aspen concentration is at the south end.																																														
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<b>107</b>	42110 - Planted Red Pine	Sawtimber Well	10.4	60	201+	N/A	This has never been thinned before, BA is well over 200 in most spots. Look to remove every third row.																																														
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<b>108</b>	6229 - Mixed lowland shrub	Nonstocked	9.3			No	Mostly tag alder mixed with some scattered trees.																																														
<b>109</b>	4130 - Aspen	Poletimber Poor	29.4	55	1-50	N/A	Patchy stocking that grades in and out of aspen and upland brush. Poor quality, small diameter aspen with varying ages/sizes.																																														
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111	6229 - Mixed lowland shrub	Nonstocked	10.5		Unspecified	No	Mostly tag alder, some trees mixed in.																																																			
112	4130 - Aspen	Poletimber Well	44.3	36	51-80	N/A	Hilly topography, diameters are bigger up in the hills. Hardwood mixed in throughout.																																																			
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113	42110 - Planted Red Pine	Sawtimber Well	35.6	63	141-170	N/A	Third row thinned in 1994, marked thinning in fall of 2014. Thicker understory and lower quality as you go south. BA is 160 from 6 plots.																																																			
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114	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	18.6	67	81-110	N/A	Mixed stand, seems pretty dry. Not much elevation between this stand and adjacent lowlands but must be enough to keep it dry. Scattered XL white pine, understory is full of balsam.																																																			
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115	330 - Low-Density Trees	Nonstocked	1.6	0		No	Scattered trees on the east side of the two track/snowmobile trail.																																																			
116	330 - Low-Density Trees	Nonstocked	1.6	0		No	Some scattered cherry, red maple, and red pine.																																																			
117	330 - Low-Density Trees	Nonstocked	0.7		Immature	No	Small stand adjacent to private that was not cut or planted. Some red maple and cherry with jack pine and red pine saplings.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
118	6224 - Treed Bog	Nonstocked	3.5		Immature	No	Two small bogs and the red pine buffer that was left around them. Some pine seeding into the bogs.

119	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	5.0	85	51-80	N/A	White pine mixed with some other species.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	15	Pole	8					
White Pine	60	Log/Pole	12	85				
Black Spruce	5	Pole	8					
Balsam Fir	5	Pole	8					
Red Maple	5	Pole/Log	9					

120	6229 - Mixed lowland shrub	Nonstocked	2.7	0	Immature	No	Small beaver flooding, mix of lowland shrubs and some conifers.
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121	622 - Lowland Shrub	Nonstocked	4.8	0		No	Lowland shrubs with a few scattered conifers.
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122	6122 - Black Spruce	Poletimber Well	7.3	75	51-80	N/A	Basically a pure spruce stand, not much in the understory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling
Black Spruce	95	Pole/Log	9	75	Black Spruce	Low	5 - 10 feet	Sapling
Black Cherry	3	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling

123	330 - Low-Density Trees	Nonstocked	2.3	0		No	Opening with scattered cherry and rubus.
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124	500 - Water	Nonstocked	3.1			No	Large beaver flooding on Frenchman Creek, beaver dam at the south end.
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125	6124 - Lowland Spruce-Fir	Poletimber Medium	35.4	95	51-80	N/A	Variable stand, areas dominated by tag alder and others with advanced red maple regeneration. Manistee River runs through the north end.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	30	Pole/Log	8		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	30	Pole/Log	9	95	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	23	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
Tamarack	5	Pole	8					
Red Maple	2	Pole/Log	9					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>126</b>	429 - Mixed Upland Conifers	Poletimber Well	7.9	63	81-110	N/A	New stand, this looks like either a failed portion of the plantation or they didn't fully plant it. There are small pockets of planted pine here but the canopy is mostly balsam fir and a mix of other species.																																															
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<b>127</b>	6124 - Lowland Spruce-Fir	Poletimber Medium	28.1	75	51-80	N/A	Varying sizes and densities throughout, higher stocking at the south end. A lot of tag alder found throughout.																																															
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<b>128</b>	42330 - Upland Fir	Poletimber Well	5.6	50	51-80	N/A	Small stand of conifers between Manistee River Rd and adjacent beaver flooding.																																															
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<b>129</b>	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	21.2	55	1-50	N/A	White pine of all sizes here, mixed with some aspen. Open areas are filling in with more pine.																																															
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<b>130</b>	330 - Low-Density Trees	Nonstocked	1.6		Immature	No	Small area with scattered cherry, red maple and jack pine.																																															
<b>131</b>	330 - Low-Density Trees	Nonstocked	2.3			No	Scattered red maple, cherry, and white pine.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>132</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	7.2	60	1-50	N/A	New stand delineated, mix of aspen, maple, and cherry. Hard to tell how wet this is.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	20	Pole/Log	9		Red Maple	Medium	Variable	Sapling
Red Maple	35	Pole/Log	9	60	Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen	35	Pole/Log	9		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	10	Pole	8		Wild Raisin	Medium	5 - 10 feet	Tall Shrub