



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42059

Entry Year 2023

Acreage: 8,654

County Chippewa

Management Area: Whitefish Vermillion Point

**Revision Date:** 2021-12-29

**Stand Examiner:** Lester Livermore

## Legal Description:

T51N, R5W, Sect. 32

T50N, R5W, Sect. 5, 6

T50N, R6W, Sect. 1-12, 14-17, 20-22

## Identified Planning Goals:

The Whitefish Vermillion Point Management Area will emphasize protecting the unique dune and swale complex near Whitefish Point and the other natural communities found here, sustainably produce various timber products, and provide for forest-based recreational opportunities.

## Soil and topography:

The Whitefish Vermillion Point Management Area will emphasize protecting the unique dune and swale complex near Whitefish Point and the other natural communities found here, sustainably produce various timber products, and provide for forest-based recreational opportunities.

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

State ownership is fairly contiguous in this compartment. There are a few scattered parcels of private land inside the compartment boundary. The majority of the private holdings are around the Wildcat Road and the Whitefish Point Road. There are a few scattered private holdings along Lake Superior. There are a fair amount of permanent homes along the Wildcat Road and the Whitefish Point Road. There is also a fair amount of seasonal cabins scattered along Lake Superior, Wildcat Road, and Whitefish Point Road.

There are many opportunities for recreation, including, but not limited to, hunting, ORV, snowmobiling, hiking, fishing, and berry-picking, within and surrounding the compartment. Much of the surrounding land is also state-owned, which provides additional opportunities for timber harvests.

## Unique Natural Features:

Michigan Natural Features Inventory (MNFI) notes the occurrence of a Wooded-Dune and Swale Complex. MNFI also lists potential for eagle, osprey, goshawk, and merlin. Potential for wood turtle along Betsy River. Potential for incurvate emerald, ebony boghaunter, Frigga fritillary and Freija fritillary in bog and fen habitat. Potential for American bittern, least bittern, and yellow rail in marshes. Potential for piping plover, Lake Huron locust, and dune cutworm (moth) to occur throughout compartment along dune shoreline. Potential for Lake Huron tansy, Douglas's hawthorn, dune wild rye, blue wild rye, fleshy stichwort, and satiny willow along shoreline. Potential for English sundew, northern prostrate clubmoss, small yellow pond lily, lake cress, alternate-leaved water-milfoil, American shore-grass, moor rush, alga pondweed, meadow beauty, and panicked screw-stem along shorelines, bogs, and marshes.

## Archeological, Historical, and Cultural Features:

None Known.

## Special Management Designations or Considerations:

This compartment contains Piping Plover Critical Coastal Habitat, Marsh Lakes Natural Area, Important Bird Area, Wooded Dune & Swale Complex, and several plant & animal element occurrences.

## Watershed and Fisheries Considerations:

The Betsy River and the Shell Drake Flooding are located within or near this compartment. There are no proposed treatments near either of these water bodies. At this time, Fisheries has no concerns.

## Wildlife Habitat Considerations:

Compartment 59 lies in northwestern Chippewa county in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and lies in the Whitefish Vermillion Management Area with moose, spruce grouse, plover and red crossbill as featured species. The compartment includes the important bird area at Whitefish point, a significant amount of critical piping plover habitat along Lake Superior shoreline and patterned peatlands. The compartment is highly variable and

unique. The Betsy river border the compartment along the western edge providing a well used wildlife travel corridor. The Shelldrake flooding lies in the southwestern corner of the compartment.

Wildlife objectives will be achieved by retaining hard mast producing species in harvested pine stands. In addition, retaining soft and hard mast producing species where they exist in harvested stands will help provide food sources, nest and den trees, and improve structural diversity of the stands. Species diversity will increase wildlife diversity and thus a variety of non jack pine species will be retained after final harvests such as aspen (for food sources for birds, snags for cavity nesting birds and mammals) and maple (for multi canopy layering for nesting birds) and oak for mast production for deer and squirrels. Scattered residual red and white pine will benefit red crossbills (featured species).

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

Sections 5-7, T50N-R5W and sections 1-12, 14-17, & 20-22, T50N-R6W, Chippewa County  
No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. No active sand/gravel pits are known to exist in the area, and potential for non-metallic mineral development within the compartment appears limited. No current mineral leasing activity exists in the area. The State does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

### **Vehicle Access:**

This compartment has good access via Whitefish Point Road, Vermillion Road, Wildcat Road, Whitefish-Lake Superior Road, and N Doe Lake Road. There are also some scattered two tracks through the compartment

### **Survey Needs:**

None known.

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

The Whitefish Point Snowmobile Trails run through the compartment. The Shipwreck Museum and the Bird Observatory are located at the tip of Whitefish Point and are visited by hundreds of people every year. Other recreational opportunities that exist in this compartment include such things as fishing, hunting, wildlife viewing, and hiking.

### **Fire Protection:**

The compartment is part of the Whitefish Zone Dispatch Area. Whitefish Township is working on a Community Wildfire Protection Plan, which is near completion. The Hazardous fuel types and terrain increases the possibilities of large fire growth in the compartment.

### **Additional Compartment Information:**

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

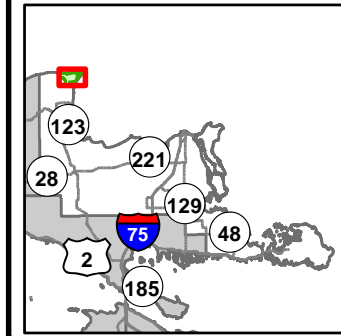
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

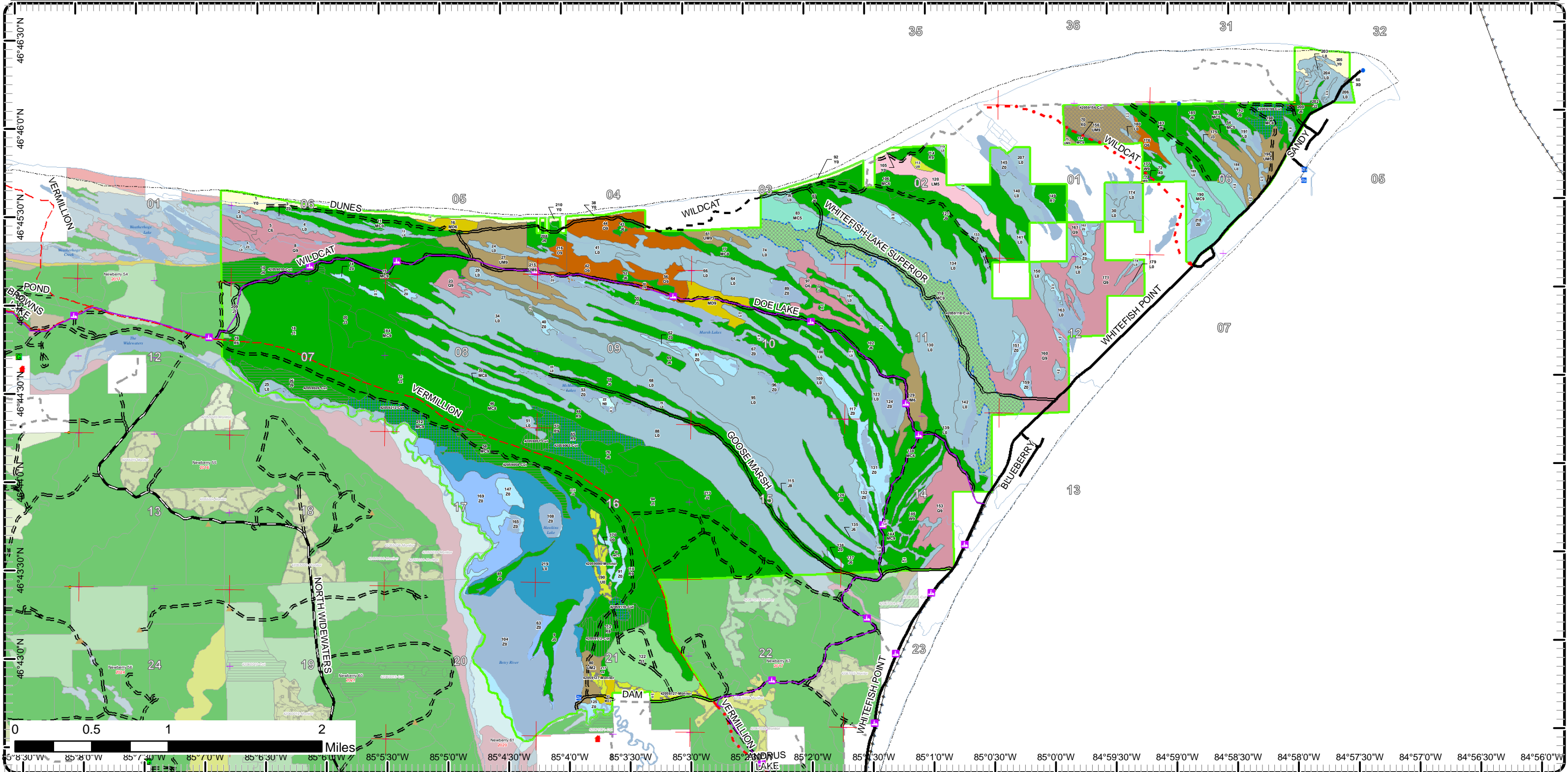
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 59  
 T50N, R06W, Sec. 1-12, 13-17, 20-22  
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 Unit: Newberry  
 Mgmt Area: Whitefish Vermillion Point  
 YOE: 2023  
 Acres: 8654.3 GIS Calculated  
 Examiner: Lester Livermore  
 Map Revised: 1/7/2022



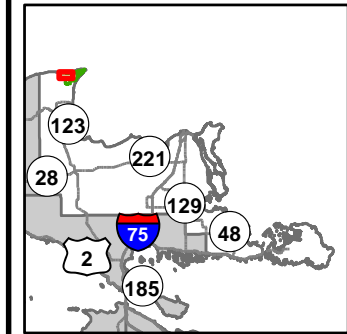
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|--|---|---|--|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>● Survey Grade Corners</li> <li>--- Counties</li> <li>— DNR - Primary Forest Road</li> <li>— DNR - Secondary Forest Road</li> <li>== DNR - Forest Access Route</li> <li>— Federal / State / County - Paved Road</li> <li>- - Federal / State - Dirt / Gravel Road</li> <li>- . . County - Gravel Road</li> <li>- - - County - Dirt Road (Seasonal)</li> <li>- - - Private - Dirt / Gravel Road</li> <li>— Snowmobile Trails</li> <li>— Designated Snowmobile Trails</li> </ul> | <ul style="list-style-type: none"> <li>▲ Cabin</li> <li>▲ Berms</li> <li>— Boating Access Site</li> <li>● Tower</li> <li>--- Intermittent Pond</li> <li>--- Intermittent Stream</li> <li>— Island in Lake or River</li> <li>— Lake/Pond</li> <li>— Perennial River</li> <li>— Lakes and Rivers</li> <li>— Powerline</li> <li>— Compartment Boundary</li> <li>— Treatments with Site Conditions</li> </ul> | <ul style="list-style-type: none"> <li>⊗ Selection (Group, Single Tree)</li> <li>— Clearcut (w/Reserves)</li> <li>— Seed Tree (w/Reserves)</li> <li>— Regeneration Survey</li> <li>— Shelter Wood (w/Reserves)</li> <li>— 412 - Oak Types</li> <li>— 419 - Mixed Upland Deciduous</li> <li>— 421 - Planted Pines</li> <li>— 422 - Natural Pines</li> <li>— 423 - Other Upland Conifers</li> <li>— 429 - Mixed Upland Conifers</li> <li>— 430 - Upland Mixed Forest</li> <li>— 612 - Lowland Coniferous Forest</li> <li>— 613 - Lowland Mixed Forest</li> <li>— 122 - Roads/Parking Lot</li> </ul> | <ul style="list-style-type: none"> <li>— 330 - Low Density Trees</li> <li>— 500 - Water</li> <li>— 621 - Floating Aquatic</li> <li>— 622 - Lowland Shrub</li> <li>— 623 - Emergent Wetland</li> <li>— 629 - Mixed Non-forested Wetland</li> <li>— 710 - Sand/Soil</li> </ul> |
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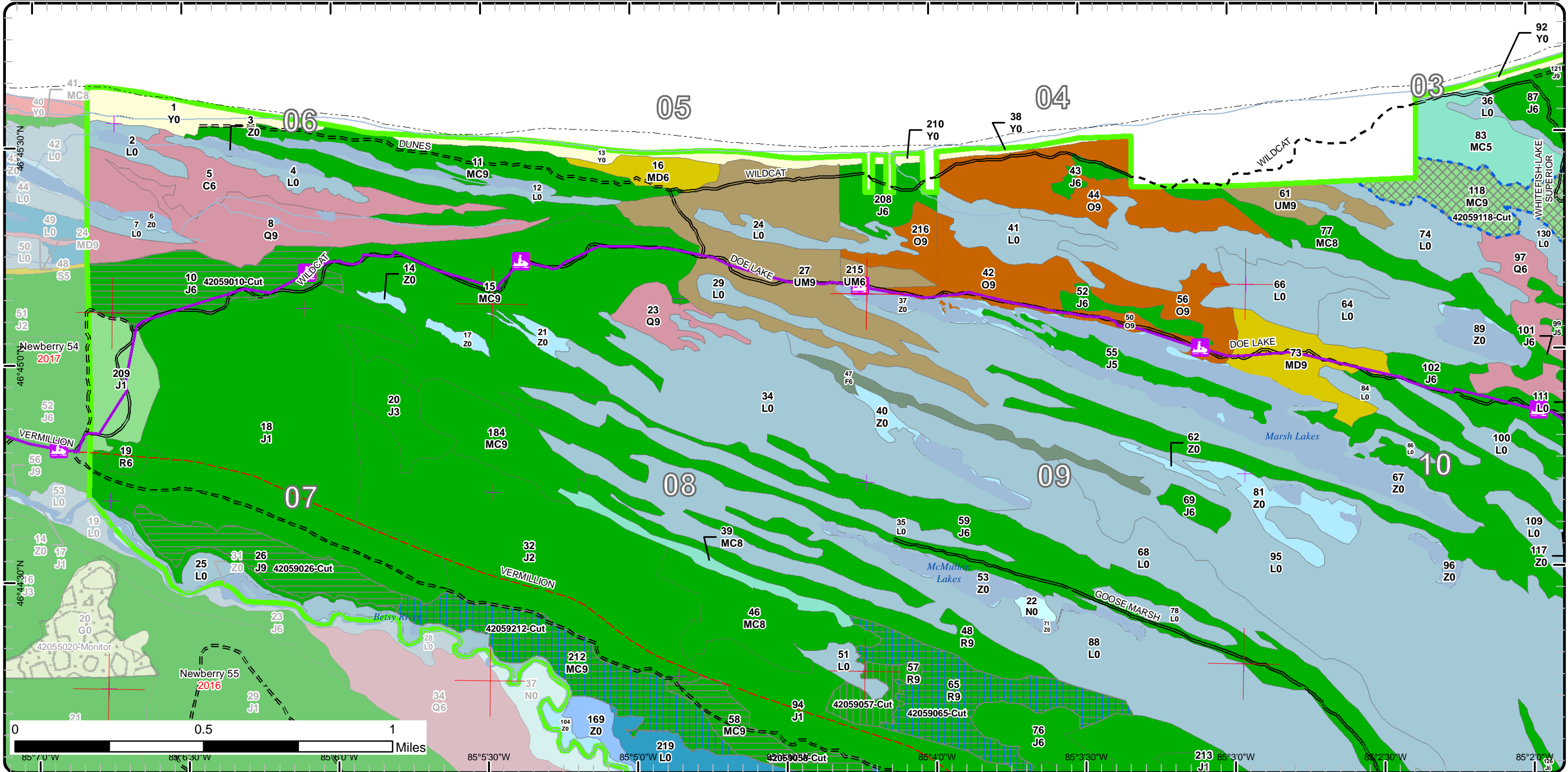


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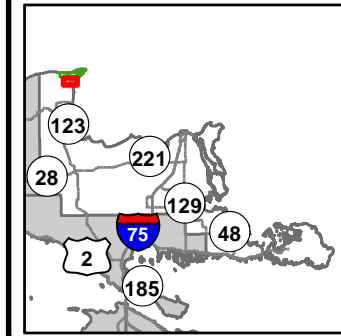
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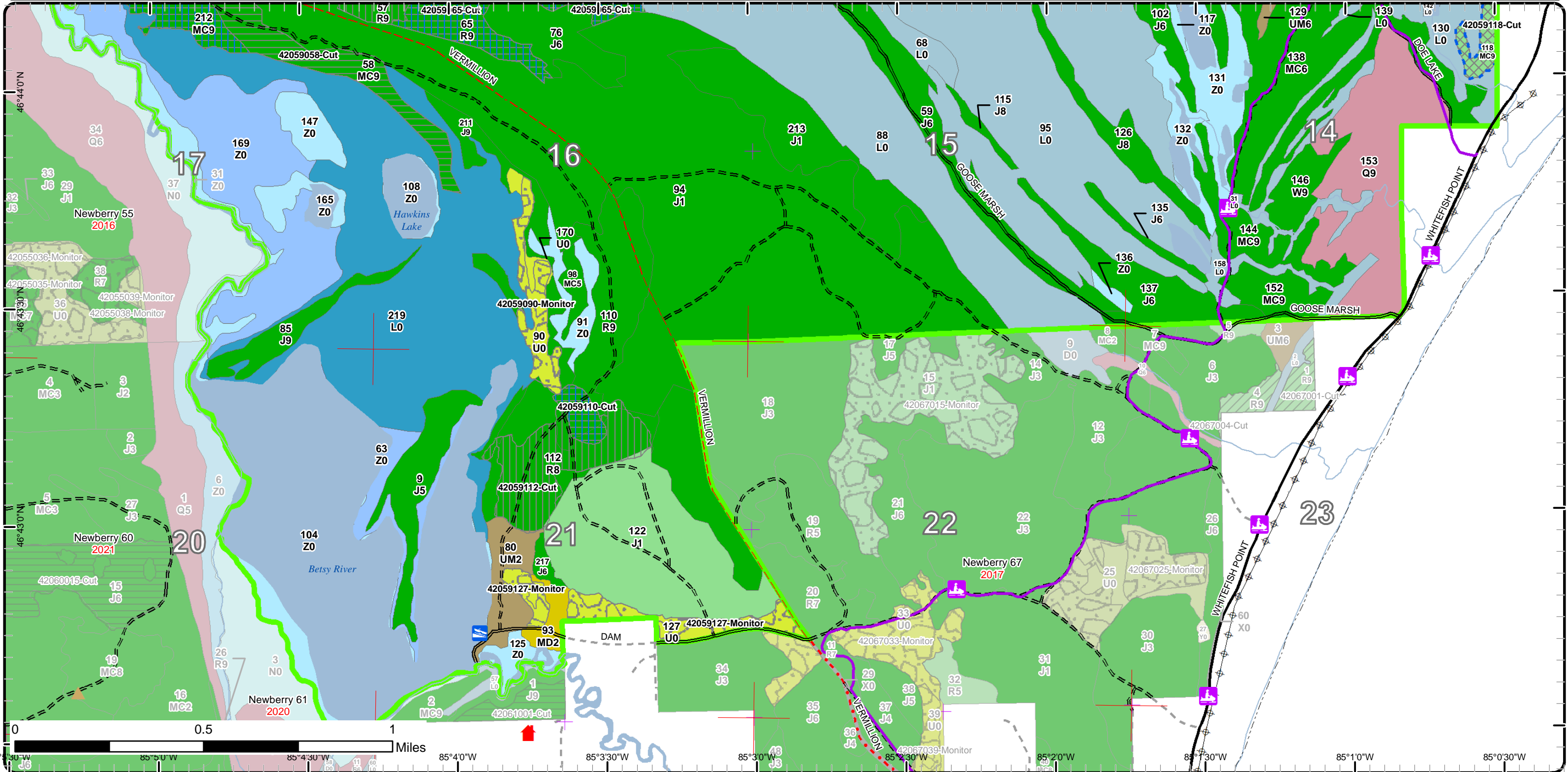


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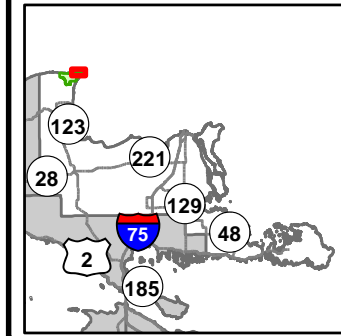




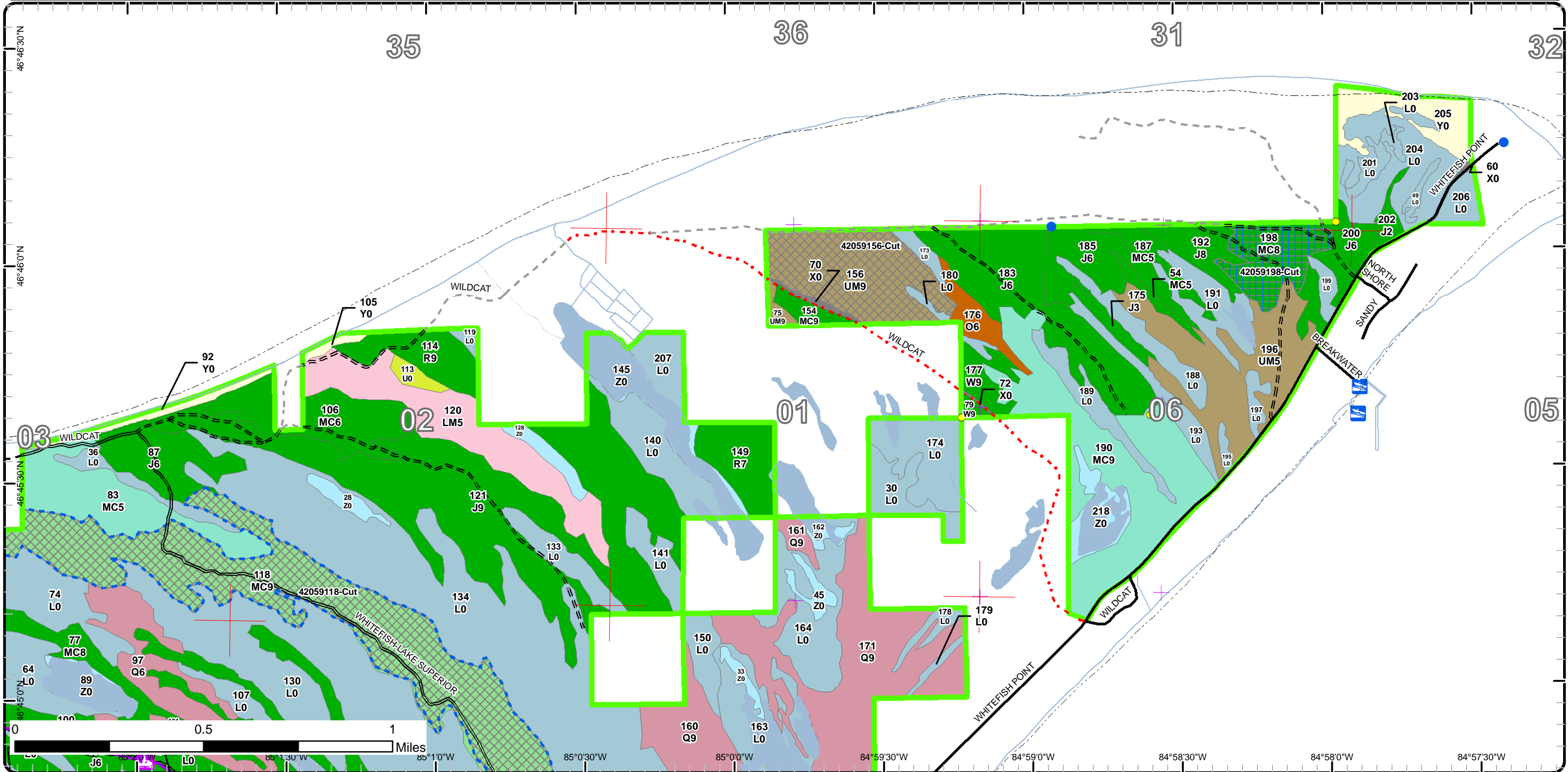


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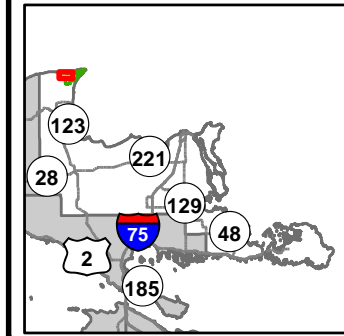
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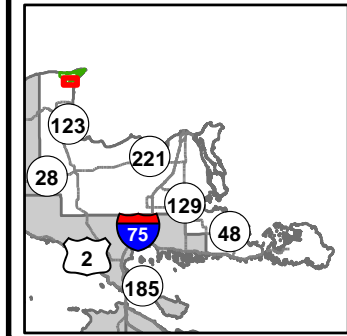
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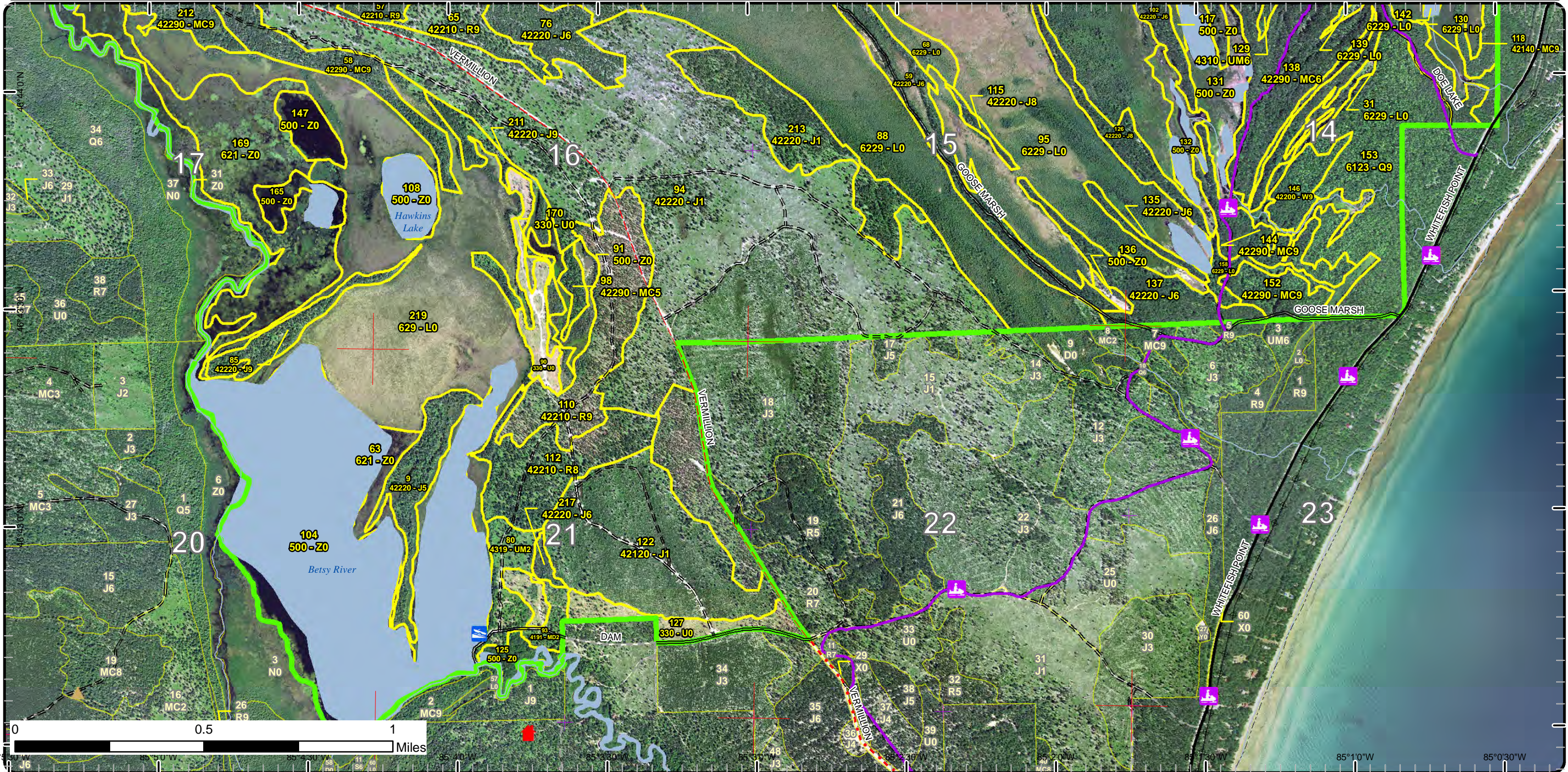


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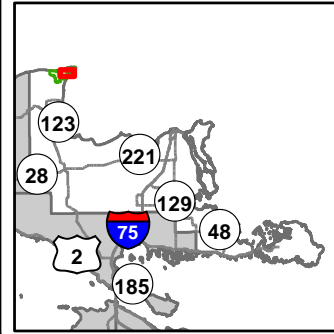
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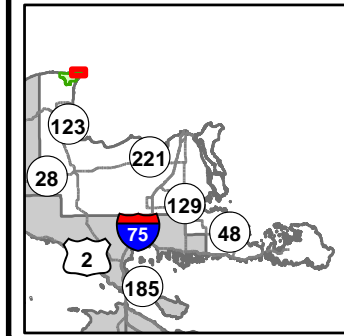
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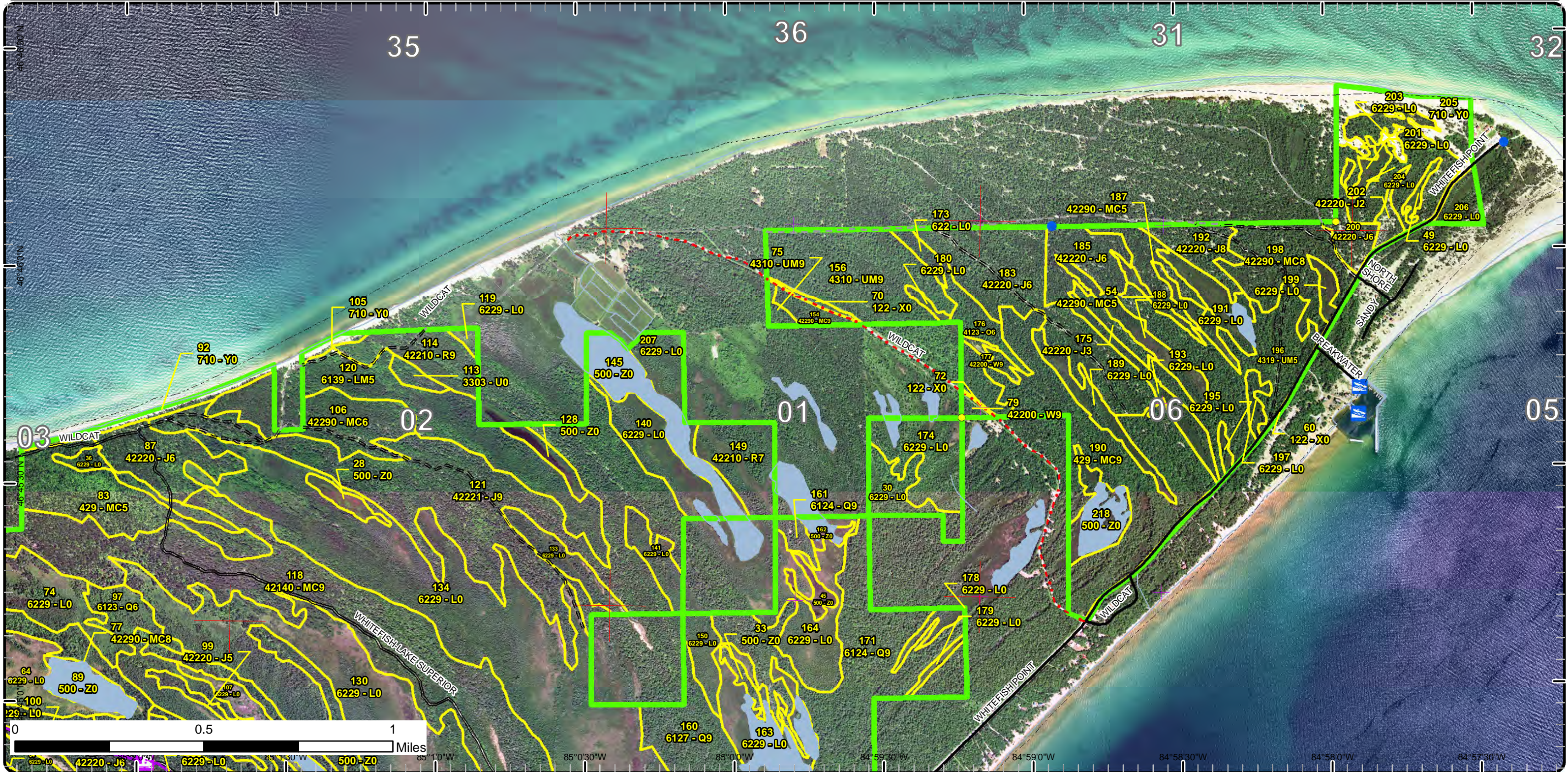


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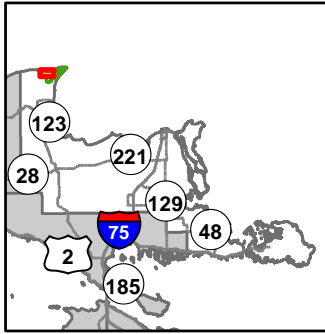
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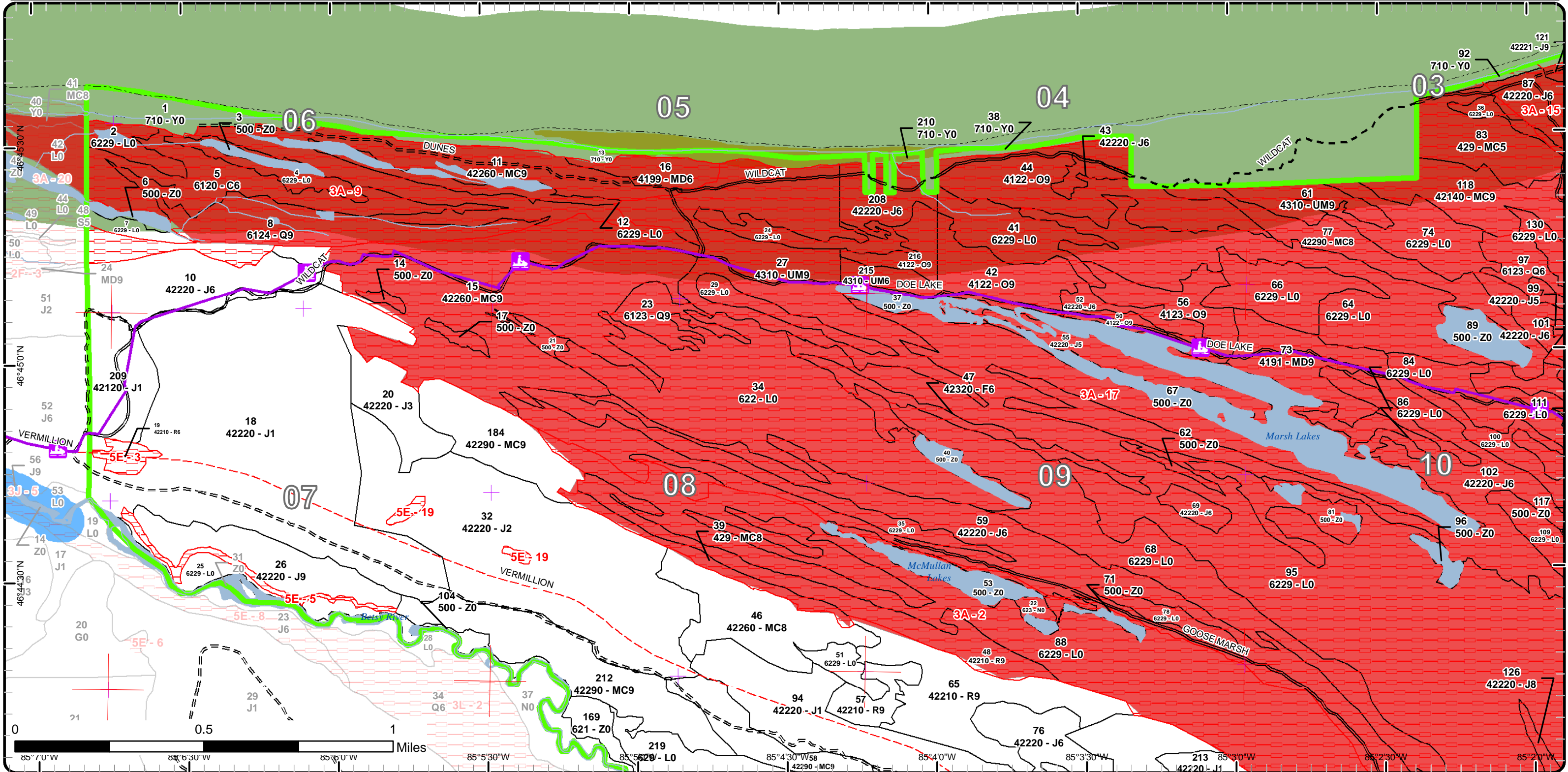


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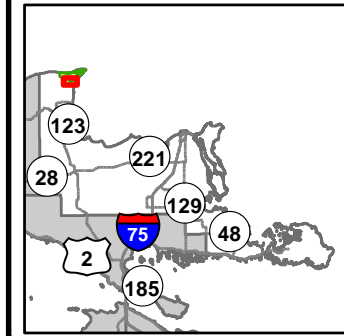
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- Compartment Boundary
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Critical Coastal Habitat (Piping Plover)
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer



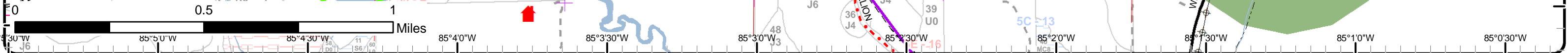
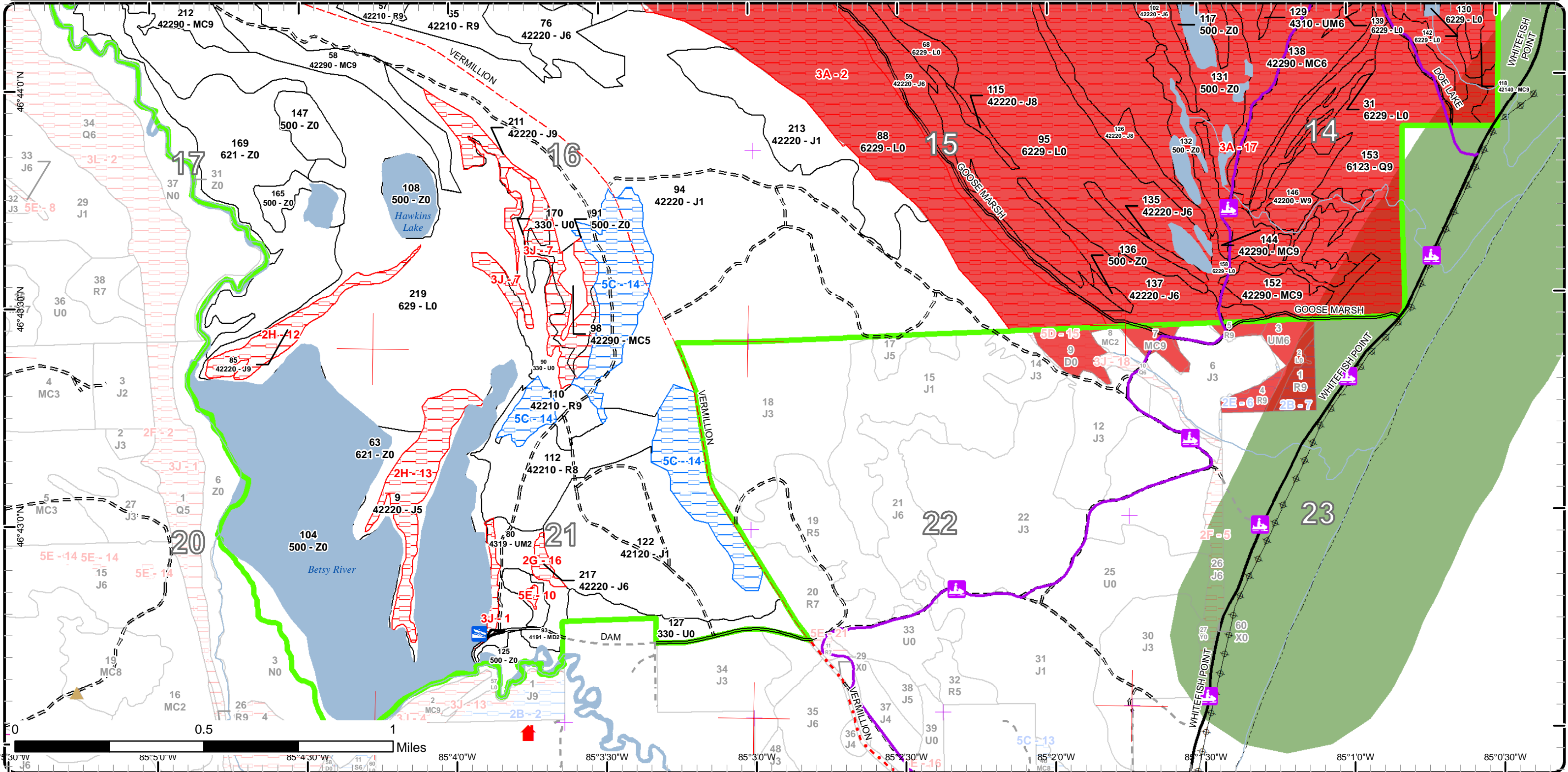


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Critical Coastal Habitat (Piping Plover)











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

Newberry Mgt. Unit

Compartment 59

Year of Entry 2023

Lester Livermore : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Cedar	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	51
Jack Pine	0	214	887	0	4	95	28	0	602	404	43	9	0	0	0	0	0	0	2284
Low-Density Trees	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Lowland Conifers	0	0	0	0	0	0	0	51	243	171	0	0	0	0	0	0	0	0	465
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	56
Lowland Shrub	2732	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2732
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	8	0	0	14	0	0	0	0	0	0	0	37	0	0	0	0	0	59
Natural Mixed Pines	0	0	0	0	0	0	0	0	142	272	188	127	0	38	0	0	0	0	767
Oak	0	0	0	0	0	0	0	0	0	0	27	118	11	0	0	0	0	0	155
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	233	0	0	0	0	0	0	0	0	233
Red Pine	0	0	0	0	0	0	0	0	0	313	0	25	0	0	0	0	0	0	337
Sand, Soil	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Upland Conifers	0	0	0	0	0	0	0	0	0	58	0	0	0	89	0	0	0	0	147
Upland Mixed Forest	0	0	20	0	0	0	0	0	60	62	181	0	0	0	0	0	0	0	323
Upland Spruce/Fir	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	17
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	856	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	856
White Pine	0	0	0	0	0	0	0	0	15	0	13	0	0	0	0	0	0	0	28
<b>Total</b>	<b>3732</b>	<b>222</b>	<b>907</b>	<b>0</b>	<b>18</b>	<b>95</b>	<b>28</b>	<b>51</b>	<b>1079</b>	<b>1620</b>	<b>452</b>	<b>279</b>	<b>48</b>	<b>127</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8654</b>





## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 59

Total Compartment Acres: 8,654

Commercial Harvest - 403  
 Harvests with Site Condition - 230  
 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
Jack Pine	94	0	0	0	0	0	0	0	0	94
Natural Mixed Pines	37	0	0	89	0	0	0	0	0	126
Planted Mixed Pines	0	230	0	0	0	0	0	0	0	230
Red Pine	0	0	0	70	56	0	0	0	0	126
Upland Mixed Forest	0	57	0	0	0	0	0	0	0	57
<b>Total</b>	<b>131</b>	<b>286</b>	<b>0</b>	<b>159</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>633</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	633	0	0	0	0	0	41	0	0	674
Next Step	0	643	156	269	0	0	712	0	0	1780
<b>Total</b>	<b>633</b>	<b>643</b>	<b>156</b>	<b>269</b>	<b>0</b>	<b>0</b>	<b>753</b>	<b>0</b>	<b>0</b>	<b>2454</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>10</b>	<b>42059010-Cut</b>	54.9	42220 - Natural Jack Pine	Poletimber Well	83	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all species present including jack pine, red pine, white pine, birch, spruce and balsam. Leave all Oak for mast production for bear, however some may be needed to be harvested for scarification purposes. Pocket retention 3 - 5%.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(1yr)</p> <p><u>Acceptable</u> Jack pine with red and white pine and some red oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> MO of jack pine. Intermediate regen check; if scarification fails, trench and plant to jack pine.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>26</b>	<b>42059026-Cut</b>	39.3	42220 - Natural Jack Pine	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Remove all species present within stand. Retention will be 100' buffer created along Shelldrake Flooding that will be no cut. Scarify, is scarification fails, plant or possibly machine seed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, mixed red and white 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>57</b>	<b>42059057-Cut</b>	14.7	42210 - Natural Red Pine	Sawtimber Well	89	81-110	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Retain 40 - 50 basal area of red and white pine. Cut all jack pine, and other species present except red oak. Retain all oak for hard mast production for bear, deer and other wildlife" after retain all oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, red pine, white pine, red oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> Intermediate regen check to monitor natural pine regen. If failed, scarify stand to promote pine regen.</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
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<b>58</b>	<b>42059058-Cut</b>	36.9	42290 - Natural Mixed Pine	Sawtimber Well	94	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut with retention. Pocket retention 3 - 5% of stand acreage, to include white pine and non-pine species for species and structural diversity. leave all Oak for mast production for bear. Buffer interior bog lowland according to BMP guidelines.

Next Step SitePrep, Scarification  
Treatments:

Acceptable Jack pine with red and white pine and red oak.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>65</b>	<b>42059065-Cut</b>	61.8	42210 - Natural Red Pine	Sawtimber Well	86	51-80	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Retain 10 - 20 basal area of red and white pine. Harvest all species except red oak, leaving for hard mast production for bear, deer and other wildlife.

Next Step SitePrep, Scarification; Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable Red and white pine with jack pine.  
Regen:

Other Scarify site to promote red pine.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>90</b>	<b>42059090-Monitor</b>	16.8	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	42220 - Natural Jack Pine	Even-Aged	No
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Prescription Monitor for adequate stocking.  
Specs:

Next Step Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable JP with a small component of RP  
Regen:

Other Percent to Treat = 100%  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>110</b>	<b>42059110-Cut</b>	8.1	42210 - Natural Red Pine	Sawtimber Well	86	81-110	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Two-Aged	No
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Prescription Retain approximately 10 -20 basal area of red and white pine in the overstory as retention. Retain all oak where present.  
Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Red pine with jack and white pine, oak and aspen.  
Regen:

Other Setup to occur right after compartment review and harvest as soon as possible to release site before the 2022 growing season.  
Comment:

Site Condition

Proposed Start Date: 10/27/2021



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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>112</b>	<b>42059112-Cut</b>	41.6	42210 - Natural Red Pine	Sawtimber Medium	80	81-110	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Shelterwood with retention. Retain 30-40BA of red pine, Leave all white pine for red crossbill and bear escape trees & oak leave oak for  
Specs: mast production for bear, deer and other wildlife.

Next Step SitePrep, Scarification  
Treatments:

Acceptable red and white pine with oak.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/27/2021

<b>118</b>	<b>42059118-Cut</b>	229.8	42140 - Planted Mixed Pine	Sawtimber Well	89	111-140	Harvest	Group Selection	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Thin portions of the stand where red pine is present to 70-90 BA. Remove all Jack Pine and scarify those areas to promote natural pine to  
Specs: regenerate. Promoting natural pine along the stand and within the ERA.

Leave all oak and white pine, unless white pine needs to be cut for maneuverability within the sale.

Next Step SitePrep, Scarification; Seeding, Machine Seed; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable mixed pine  
Regen:

Other No new roads within the ERA and include the  
Comment: decontamination spec/protocols. Avoid lowland areas in sale prep and scarification.

Site Condition Conservation Values

Proposed Start Date: 10/1 /2022

<b>127</b>	<b>42059127-Monitor</b>	24.4	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Monitor for adequate jack pine regeneration.  
Specs:

Next Step Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable jack pine  
Regen:

Other Percent to Treat = 100%  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>156</b>	<b>42059156-Cut</b>	56.5	4310 - Pine, Oak Mix	Sawtimber Well	79	81-110	Harvest	Single Tree Selection	4310 - Pine, Oak Mix	Uneven-Aged	No
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Prescription Thin stand targeting 70 BA focusing on all age classes to promote uneven aged management.

Specs: Retain the best crop/producing mast oaks within the stand.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable mixed pine and oak.  
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
<b>198 42059198-Cut</b>	27.5	42290 - Natural Mixed Pine	Sawtimber Medium	125	81-110	Harvest	Seed Tree with Retention	4220 - Natural White Pine	Two-Aged	No
<p><u>Prescription</u> Retain 20 - 40 basal area of white and red pine. Harvest all other species including Jack pine and red maple. Leave all oak.</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> White pine with red pine, birch, aspen, and red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect low wet inclusions scattered in the site. Could be harvested with dry conditions. Leave both SE fingers of the stand for retention.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>212 42059212-Cut</b>	61.6	42290 - Natural Mixed Pine	Sawtimber Well	93	81-110	Harvest	Seed Tree with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Seed tree with retention 10-20 BA. Remove all jack pine. Leave all oak. Leave all white pine over 20". Scarify stand.</p> <p><u>Specs:</u></p> <p>Leave oak for mast production for bear, deer and other wildlife. Leave white pine greater than 20 inches for bear refuge trees and future nest trees.</p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red 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>										

**Total Treatment 673.9**  
**Acres Proposed:**

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 59  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
51	0	0	51
2285	1316	35	933
50	45	0	5
465	0	0	465
56	0	0	56
2732	717	2	2013
3	0	0	3
59	8	0	51
765	243	0	522
156	1	9	146
233	0	0	233
337	135	83	119
83	77	0	6
148	23	0	125
322	133	0	189
17	0	0	17
9	5	0	4
856	514	0	342
28	13	0	15
8,654	3,229	129	5,297
	37%	1%	61%

### Dominant Site Conditions

	Availability for Management				Dominant Site Conditions							
	Acres Available	Acres Available With Condition	Acres Not Available		5C	2G	2H	3A	3D	3J	5E	
51	0	0	51	Cedar				51				
2285	1316	35	933	Jack Pine	35	3	48	838	9	24	11	
50	45	0	5	Low-Density Trees				4			1	
465	0	0	465	Lowland Conifers				465				
56	0	0	56	Lowland Mixed Forest				56				
2732	717	2	2013	Lowland Shrub	2			2,009		4		
3	0	0	3	Marsh				3				
59	8	0	51	Mixed Upland Deciduous				51				
765	243	0	522	Natural Mixed Pines	0			512			10	
156	1	9	146	Oak	9			146				
233	0	0	233	Planted Mixed Pines				233				
337	135	83	119	Red Pine	83			110		3	6	
83	77	0	6	Sand, Soil				6				
148	23	0	125	Upland Conifers				125				
322	133	0	189	Upland Mixed Forest				184		4		
17	0	0	17	Upland Spruce/Fir				17				
9	5	0	4	Urban				4	0			
856	514	0	342	Water				327		15		
28	13	0	15	White Pine				15				
8,654	3,229	129	5,297	Total Forested Acres	129	3	48	5,158	9	51	28	
	37%	1%	61%	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	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 59  
Year of Entry: 2023

2	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	392	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
3	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	69	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wooded Dune and Swale ERA Piping Plover Coastal Zone							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long Term retention along Shelldrake Flooding.							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	46	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer along Shelldrake flooding and surrounding wetlands.							
9	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	261	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 59  
Year of Entry: 2023

10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	30	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	83	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> See stand comments for notes on the stand.							
15	Unavailable	3A: Conservation Values incompatible with harvest at this time	1,059	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wooded Dune and Swale ERA							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 59  
Year of Entry: 2023

16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	3,657	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
18	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

### Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 59

Lester Livermore : Examiner

Year of Entry: 2023

23	Unavailable	<b>3A: Conservation Values incompatible with harvest at this time</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
30	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
1	710 - Sand, Soil	Nonstocked	24.6			No	This site is part of the Piping Plover Critical Coastal Habitat.																																									
2	6229 - Mixed lowland shrub	Nonstocked	11.7			No	This stand is part of the Piping Plover Critical Coastal Habitat.																																									
3	500 - Water	Nonstocked	1.9			No																																										
4	6229 - Mixed lowland shrub	Nonstocked	14.1			No	This stand is part of the Piping Plover Critical Coastal Habitat.																																									
5	6120 - Lowland Cedar	Poletimber Well	51.4	88	51-80	N/A	Stand is part of the Piping Plover Critical Coastal Habitat Some ridges in the stand with some white pine.																																									
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6	500 - Water	Nonstocked	4.2			No																																										
7	6229 - Mixed lowland shrub	Nonstocked	6.1			No	This stand is part of the Piping Plover Critical Coastal Habitat.																																									
8	6124 - Lowland Spruce-Fir	Sawtimber Well	63.9	88	51-80	N/A	Low wet stand off a ridge, spruce, fir, and birch. Some water in the stand.																																									
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9	42220 - Natural Jack Pine	Poletimber Medium	30.2	87	51-80	N/A	Long finger of pine in the Shelldrake Flooding.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
10	42220 - Natural Jack Pine	Poletimber Well	50.8	83	81-110	N/A	Some mortality in jack pine.																																																												
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11	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	88.7	105	81-110	N/A	Oak, birch, pine stand with ridges throughout. Dune swale complex along with this stand is part of the Piping Plover Critical Coastal Habitat Area																																																												
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14	500 - Water	Nonstocked	2.1			No																																																													
15	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	186.9	82	81-110	N/A	Pine ridges with deciduous components.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
16	4199 - Other Mixed Upland Deciduous	Poletimber Well	14.2	30	51-80	N/A	Mixed deciduous with mixed pine stand along the lakeshore. This stand is part of the Piping Plover Critical Coastal Habitat Area.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling/Pole	5		Red Maple	High	Variable	Sapling
Red Oak		40	Pole/Sapling	5	30	Red Oak	High	Variable	Sapling
Paper Birch		40	Pole/Sapling	5		Paper Birch	High	Variable	Sapling
White Pine		10	Pole/Log	5		White Pine	High	Variable	Sapling
17	500 - Water	Nonstocked	3.6			No			
18	42220 - Natural Jack Pine	Sapling Poor	258.2	18	Immature	N/A	Harvested as Sale #005-03-01 Weatherhog Lakes Jack Pine. Sale was completed 5/6/05. Scarification (FTP 42-582) completed 2004 and 2005. Regeneration count completed 5/1/2007 (Unit 3 only) =299t/ac (125J, 10R, 48W, 67RM, 10BF). Secondary count 5/27/2008 (Units 1,2&3 = 109 t/ac (31JP, 46RP, 31WP). 6/16/2011: Really good jack pine regeneration. There is residual RP, RO, and W. Birch in the canopy.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		20	Log	11	73				
White Pine		10	Log	12					
Jack Pine		60	Sapling	2	18				
Red Maple		10	Sapling	1					
								This stand is part of the Piping Plover Critical Coastal Habitat Area.	
19	42210 - Natural Red Pine	Poletimber Well	6.2	80	51-80	N/A	Retention pocket.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Pole	7		Red Maple	Low	Variable	Tall Shrub
Red Oak		5	Pole	7		Red Oak	Low	Variable	Tall Shrub
Red Pine		85	Pole/Log/Sap	12	80	Paper Birch	Low	Variable	Tall Shrub
Jack Pine		5	Pole	7		Red Pine	Low	Variable	Tall Shrub
20	42220 - Natural Jack Pine	Sapling Well	25.9	43	81-110	N/A	Stand was cut in 1978. Jack Pine.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		10	Log/Pole	8					
Red Oak		10	Log/Pole	9					
Red Pine		20	Log/Pole	10					
Jack Pine		60	Sapling/Pole	5	43				
21	500 - Water	Nonstocked	4.8			No			
22	623 - Emergent Wetland	Nonstocked	3.0		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>23</b>	6123 - Lowland Fir	Sawtimber Well	16.9	75	51-80	N/A	Mixed pine stand with some fir and maple. Lower wet areas in the south end.																																																		
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<b>24</b>	6229 - Mixed lowland shrub	Nonstocked	15.4			No																																																			
<b>25</b>	6229 - Mixed lowland shrub	Nonstocked	19.1			No																																																			
<b>26</b>	42220 - Natural Jack Pine	Sawtimber Well	47.1	89	81-110	N/A	Jack Pine with red and white mixed in. Some sub canopy regeneration maple and pine. Borders the Shelldrake river.																																																		
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<b>27</b>	4310 - Pine, Oak Mix	Sawtimber Well	116.6	90	81-110	N/A	This stand is part of the Piping Plover Critical Coastal Habitat Area.																																																		
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<b>28</b>	500 - Water	Nonstocked	5.3		Unspecified	No																																																			
<b>29</b>	6229 - Mixed lowland shrub	Nonstocked	12.9			No																																																			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
30	6229 - Mixed lowland shrub	Nonstocked	15.3		Unspecified	No	mixed lowland shrub stand.					
								<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Jack Pine	Low		Pole	
								Swamp Laurel	Medium		Tall Shrub	
								Small Cranberry	Medium		Tall Shrub	
								Viburnum	Medium		Tall Shrub	
								Leatherleaf	High		Tall Shrub	
White Pine	Low		Pole									
31	6229 - Mixed lowland shrub	Nonstocked	22.7		Unspecified	No						
32	42220 - Natural Jack Pine	Sapling Medium	181.2	6	Immature	N/A	Jack Pine is present in across the large site. Regeneration looks stocked and healthy. Site was cut via clearcut Rolling Ridges Jack Pine; completed in 2017. Site was scarified in different years with the last completed in late summer 2018.					
								<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>
								Jack Pine	60	Sapling	1	6
								Quaking Aspen	20	Sapling	1	
								Red Pine	4	Sapling	1	
								Red Oak	6	Sapling	1	
								Black Spruce	5	Sapling/Pole	2	
White Pine	5	Sapling	1									
33	500 - Water	Nonstocked	3.3			No						
34	622 - Lowland Shrub	Nonstocked	143.6			No						
35	6229 - Mixed lowland shrub	Nonstocked	31.2			No						
36	6229 - Mixed lowland shrub	Nonstocked	9.1			No						
								<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Balsam Poplar	Low		Sapling	
								Paper Birch	Low		Sapling	
								Tag Alder	Medium		Tall Shrub	
37	500 - Water	Nonstocked	8.1			No						
38	710 - Sand, Soil	Nonstocked	4.2			No	This site is part of the Piping Plover Critical Coastal Habitat.					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>39</b>	429 - Mixed Upland Conifers	Sawtimber Medium	13.8	85	81-110	N/A	Long narrow stand with lowland species with mixed pine. Stand has standing water throughout. Also located along a fairly steep slope along the southern edge.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		4	Pole	6		Red Maple		
Balsam Fir		6	Pole/Sapling	6		Low		
Black Spruce		10	Pole	7		5 - 10 feet		
Northern White Cedar		10	Pole	7		Sapling		
Tamarack		18	Pole	8		Low		
White Pine		20	Log	13	85	5 - 10 feet		
Red Pine		20	Log	11		Sapling		
Jack Pine		12	Pole	7				
<b>40</b>	500 - Water	Nonstocked	13.2			No		
<b>41</b>	6229 - Mixed lowland shrub	Nonstocked	29.2			No		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Red Maple		Low		Sapling				
Red Oak		Low		Sapling				
Red Pine		Low		Sapling				
<b>42</b>	4122 - Oak, Pine	Sawtimber Well	36.2	109	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>		
Red Oak		60	Log/Pole/XLog	10	109	Red Maple		
Paper Birch		5	Pole	6		Medium		
White Pine		25	Log/XLog	16		Variable		
Red Pine		10	Log/XLog	14		Sapling		
						Sapling		
						Sapling		
						Sapling		
<b>43</b>	42220 - Natural Jack Pine	Poletimber Well	6.0	72	81-110	N/A	More jack pine with some large red pine in the stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Pole	6		Red Maple		
Paper Birch		10	Pole/Sapling	5		Medium		
Red Pine		15	Pole/Log	6		Variable		
Jack Pine		65	Pole/Log	8	72	Sapling		
						Sapling		
						Sapling		
<b>44</b>	4122 - Oak, Pine	Sawtimber Well	62.9	109	81-110	N/A	An oak pine stand with some birch. Stands runs along the lake shore in Piping Plover Critical Dune complex.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		60	Log/Pole/XLog	11	109	Red Maple		
Paper Birch		5	Pole	6		Medium		
White Pine		25	Log/XLog	16		Variable		
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45	500 - Water	Nonstocked	4.9		Unspecified	No																																														
46	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	48.8	91	51-80	N/A	Stand was thinned as part Whitefish Red Pine Sale # 37-03-01. Completed 01/24/07. All paper birch and oak were left as residual along with red pine and white pine.																																													
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47	42320 - Upland Spruce	Poletimber Well	17.1	72		N/A	This stand is part of the Wooded Dune-Swale Complex (Lake Superior High Dune). The jack pine is starting to degrade and jack pine regeneration is minimal in the understory. There is red maple and oak regeneration present.																																													
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48	42210 - Natural Red Pine	Sawtimber Well	63.6	88	111-140	N/A																																														
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51	6229 - Mixed lowland shrub	Nonstocked	8.6			No																																																			
52	42220 - Natural Jack Pine	Poletimber Well	9.8	72	81-110	N/A	Jack pine stand with component of red pine and oak.																																																		
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53	500 - Water	Nonstocked	14.8			No																																																			
54	42290 - Natural Mixed Pine	Poletimber Medium	4.0	80	51-80	N/A	Stand was harvested as part of sale #6-75. Canopy is still open in place, low wet ground in areas as well. Mainly Jack pine with some white pine.																																																		
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55	42220 - Natural Jack Pine	Poletimber Medium	25.7	72	51-80	N/A	Island of tree in the dune swale complex. Jack, red, and some scattered white pine.																																																		
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56	4123 - Red Oak	Sawtimber Well	27.4	90	81-110	N/A	Oak stand looks healthy, lots of regen coming in. Overstory red, white pine as well with scattered birch.																																																		
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57	42210 - Natural Red Pine	Sawtimber Well	14.7	89	81-110	N/A	Basal area higher in places than 110.																																																		
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58	42290 - Natural Mixed Pine	Sawtimber Well	37.6	94	81-110	N/A																																																			
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59	42220 - Natural Jack Pine	Poletimber Well	171.1	72	81-110	N/A	This stand is part of the Wooded Dune-Swale Complex (Lake Superior High Dune). The jack pine is starting to degrade and jack pine regeneration is minimal in the understory. There is red maple and oak regeneration present.																																																		
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60	122 - Road/Parking Lot	Nonstocked	6.4		Unspecified	No	North Whitefish Point Road and lighthouse parking lot.																																																		
61	4310 - Pine, Oak Mix	Sawtimber Well	17.1	94	51-80	N/A	This stand is part of the Piping Plover Critical Coastal Habitat. Private to the north, Oak and jack pine dominate the stand.																																																		
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62	500 - Water	Nonstocked	3.1			No																																																			
63	621 - Floating Aquatic	Nonstocked	69.2		Unspecified	No	Shelldrake Dam Flooding; higher percentage of vegetation in water.																																																		
64	6229 - Mixed lowland shrub	Nonstocked	90.8			No																																																			
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<b>65</b>	42210 - Natural Red Pine	Sawtimber Well	61.8	86	51-80	N/A	Stand was harvested as McMullan Lakes Pine Sale #35-03-01. Completed 6/23/05. 2008: Regeneration check completed 05/27/08 - new MO should be red pine. High residual stocking did not allow for scarification. Rolling to steep terrain, in places. Some residual jack pine and oak. Regeneration of white pine (1-2' ht) and RM clumps primarily. Some JP, RP, and oak present.																																										
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<b>69</b>	42220 - Natural Jack Pine	Poletimber Well	7.7	72	81-110	N/A	Island of jack pine.																																										
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<b>70</b>	122 - Road/Parking Lot	Nonstocked	2.0	0		No	Wildcat Road																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**73** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 36.6 110 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	7		Red Maple	High	Variable	Sapling
Red Oak	30	Log	11	110	Red Oak	High	Variable	Sapling
Paper Birch	30	Pole/Log	10		Paper Birch	Medium	Variable	Sapling
White Pine	30	Log	14		Balsam Fir	High	Variable	Sapling
Red Pine	5	Pole/Sapling	7		White Spruce	High	Variable	Sapling

**74** 6229 - Mixed lowland shrub Nonstocked 37.6 No

**75** 4310 - Pine, Oak Mix Sawtimber Well 3.0 79 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	45	Log/Pole	10	79	Red Maple	Medium	Variable	Sapling
Paper Birch	5	Pole	7		Red Oak	Medium	Variable	Sapling
White Spruce	5	Log	10		Balsam Fir	High	Variable	Sapling
White Pine	40	Log/XLog	14		Black Spruce	Low	Variable	Sapling
Red Pine	5	Log	10		White Pine	Medium	< 5 feet	Tall Shrub

Utility line runs through the stand. Understory is really thick with balsam fir along the southern edge of the stand. There is also some labrador tea, leatherleaf and blueberry in the understory along with some scattered oak regeneration.

**76** 42220 - Natural Jack Pine Poletimber Well 27.9 53 81-110 N/A

Nice jack pine stand, smaller dbh but looks healthy.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	75	Pole/Sapling	6	53
Red Pine	15	Log	12	
White Pine	10	Log/Pole	12	

**77** 42290 - Natural Mixed Pine Sawtimber Medium 38.1 100 51-80 N/A

Red pine ridge with some white and jack pine. Secluded, tough access and in the ERA.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	15	Pole/Log	10		Red Maple	Low	< 5 feet	Tall Shrub
White Pine	30	Log/XLog	12	100	Balsam Fir	Low	< 5 feet	Tall Shrub
Red Pine	40	Log/Pole/XLog	12	100				
Jack Pine	15	Pole	7	73				

**78** 6229 - Mixed lowland shrub Nonstocked 9.5 No





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
79	42200 - Natural White Pine	Sawtimber Well	2.1	96	81-110	N/A																																																					
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80	4319 - Mixed Upland Forest	Sapling Medium	20.0	14	1-50	N/A	Old campground and boat launch in southern portion of stand. Infrequent scattered older aged red and white pine with paper birch overtopping diverse regen of mostly paper birch, red maple and mixed pine. Portion of stand adjacent to water has higher jack pine and red oak pole percentage. Jack pine and bigtooth aspen sapling regen in northern portion of stand. Stand split from adjacent stand 112 based on canopy closure and species composition.																																																				
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83	429 - Mixed Upland Conifers	Poletimber Medium	44.5	82	51-80	N/A	Somewhat open stand with a road through the northern portion. Mixed pine and deciduous comprise the stand. Some lower wet areas in the eastern portion of the stand.																																																				
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85	42220 - Natural Jack Pine	Sawtimber Well	17.5	87	81-110	N/A	Jack pine ridge in the middle of the Shelldrake Flooding.																																												
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87	42220 - Natural Jack Pine	Poletimber Well	28.4	71	81-110	N/A	Jack pine stand with some maple and red pine. Road through the northern part. This stand is part of the Piping Plover Critical Coastal Habitat.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
91	500 - Water	Nonstocked	14.3			No																																						
92	710 - Sand, Soil	Nonstocked	8.1			No																																						
93	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	7.9	6	Immature	N/A	Stand planted 2021.  Natural Regen Check: 10/15/2019 - Jack Pine 200 TPA.  9/15/2020: Trenching Completed summer of 2020. Portion of the site in west not trenched. 09/30/2020: planting treatment moved from 2022 to 2021 based on seedling surplus. Site prep spray treatment for 2021 removed. Stand cut in 2015 as part of SMA Pine #018-14. Scarified in 2016. Regen check needed in 2019. FTP 42-862.																																					
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Quaking Aspen	25	Sapling	1																																									
94	42220 - Natural Jack Pine	Sapling Poor	469.6	13	1-50	N/A	Check stand for any areas that did not fill in with trees at the next inventory cycle of this compartment. Sale passed regen check and has an adequate amount of regen coming in throughout the whole stand. 6/1/17 MP This stand was harvested in multiple timber sales; resulting in one cover type. There is not a lot of regeneration present in the understory. The sales and their associated cultivation/regeneration work is listed below: Goose Marsh Pine (sale # 42-036-03-01) was completed on 5/7/09. Scarified under FTP 42-594, completed 9/30/09.  Vermillion Road Jack Pine (sale # 006-03-01) was completed on 1/24/07. Scarified under FTP 42-583, completed 8/9/07 on 139 acres; thicker RP ridges were avoided. Sale area was checked for regen in Summer 2011: JP 237 t/ac, RP 155 t/ac, WP 146 t/ac. Sale # 42-005-94-01. Sale completed in 1998.																																					
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95	6229 - Mixed lowland shrub	Nonstocked	589.4			No																																						
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96	500 - Water	Nonstocked	4.2			No																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
97	6123 - Lowland Fir	Poletimber Well	51.3	60	1-50	N/A	Windy twisted stand with lowland species composition. Part of the ERA in this compartment																																						
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98	42290 - Natural Mixed Pine	Poletimber Medium	6.0	88	51-80	N/A	Stand almost completely surrounded by water. Jack pine main component.																																						
99	42220 - Natural Jack Pine	Poletimber Medium	5.9	74	51-80	N/A	Long skinny ridge of jack and red pine.																																						
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100	6229 - Mixed lowland shrub	Nonstocked	28.7			No																																							
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101	42220 - Natural Jack Pine	Poletimber Well	6.7	74	81-110	N/A	Jack pine stand.																																						
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102	42220 - Natural Jack Pine	Poletimber Well	318.9	72	81-110	N/A	This stand is a Wooded Dune-Swale Complex (Lake Superior-High Dune). The jack pine is starting to degrade and jack pine regeneration is minimal in the understory. There is red maple and red oak regeneration present.																																						
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104	500 - Water	Nonstocked	265.2		Unspecified	No	Shell Drake Dam Flooding and portions of the Betsy river.																																						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
105	710 - Sand, Soil	Nonstocked	3.0			No	This site is part of the Piping Plover Critical Coastal Habitat. There are old vault toilets that have been mostly covered by blowing sand.																																																	
106	42290 - Natural Mixed Pine	Poletimber Well	35.8	80	81-110	N/A	Western portion of the stand has more jack pine and as you move east you come into more red and white pine mixed with the Jack pine. Road access private parcel through this stand. This stand is part of the Piping Plover Critical Coastal Habitat.																																																	
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107	6229 - Mixed lowland shrub	Nonstocked	10.4			No																																																		
108	500 - Water	Nonstocked	17.0		Unspecified	No	Hawkins Lake																																																	
109	6229 - Mixed lowland shrub	Nonstocked	21.1			No																																																		
110	42210 - Natural Red Pine	Sawtimber Well	94.7	86	81-110	N/A	Harvested via Thinning in 2015 as part of SMA Pine, #018-14. TCR 10/9/17.																																																	
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111	6229 - Mixed lowland shrub	Nonstocked	8.6			No																																																		
112	42210 - Natural Red Pine	Sawtimber Medium	49.6	80	81-110	N/A	Stand was harvested as Shelldrake Jack Pine #42-034-03-01 and was completed 1/24/2011. All oak and paper birch along with a component of red pine and white pine were left as residual. Scarification in Unit 1 was completed on 11/3/2005 and Unit 2 on 8/11/2007.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
<b>113</b>	3303 - Mixed Low Density Trees	Nonstocked	4.2			No	The white birch in the stand is dying.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium		Tall Shrub	
								Black Spruce	Low		Sapling	
<b>114</b>	42210 - Natural Red Pine	Sawtimber Well	21.8	81	111-140	N/A	Nice red pine stand. This stand is in the Piping Plover Critical Coastal Habitat.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Sapling/Pole	4	
								Paper Birch	10	Sapling/Pole	4	
								White Pine	5	Log/Pole	12	
								Red Pine	65	Log/Pole	11	81
								Jack Pine	15	Log/Pole	9	
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	Variable	Sapling									
Paper Birch	Low	Variable	Sapling									
Balsam Fir	Low	Variable	Sapling									
<b>115</b>	42220 - Natural Jack Pine	Sawtimber Medium	3.7	87	51-80	N/A	Jack pine ridge in the middle of the Dune Swale Complex.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Pole	6	
								Paper Birch	10	Pole	5	
								Red Pine	15	Log/Pole	9	
								Jack Pine	65	Log/Pole	8	87
								Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	Medium	Variable	Sapling									
Red Oak	Low	Variable	Sapling									
<b>116</b>	500 - Water	Nonstocked	7.1			No						
<b>117</b>	500 - Water	Nonstocked	20.4			No						
<b>118</b>	42140 - Planted Mixed Pine	Sawtimber Well	233.4	89	111-140	N/A	The middle part of this stand was planted in 1939. Part of it was cut in 1980. The southern part was planted in 1939. Over the years, the various cover types have merged and are now either dominated by jack pine and a few scattered red and white pine or dominated by log sized red pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	5	Pole	6	41
								White Pine	13	Pole	6	
								Red Pine	40	Log/Pole/XLog	13	
								Jack Pine	40	Pole/Log	8	89
								Red Oak	2	Pole/Log	9	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	Variable	Tall Shrub	
								Paper Birch	Low	Variable	Tall Shrub	
								Balsam Fir	Low	Variable	Tall Shrub	
								White Pine	Low	Variable	Tall Shrub	
Red Pine	Low	Variable	Tall Shrub									
Jack Pine	Low	Variable	Tall Shrub									
Black Spruce	Medium	Variable	Sapling									





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119	6229 - Mixed lowland shrub	Nonstocked	2.2			No																																																																																		
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Labrador Tea	Medium		Tall Shrub																																																																																					
120	6139 - Mixed Lowland Forest	Poletimber Medium	56.1	85	1-50	N/A	More of an open low ground stand with mixed deciduous and some areas with pine.																																																																																	
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121	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	172.5	87	81-110	N/A	Stand is part of the Wooded Dune and Swale complex. There are some spots that are open. There is rolling terrain throughout the stand.																																																																																	
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122	42120 - Planted Jack Pine	Sapling Poor	104.6	14	Immature	N/A	Stand was harvested as sale #42-034-93 and planted in May of 2000. Plantation with some larger overstory species.																																																																																	
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126	42220 - Natural Jack Pine	Sawtimber Medium	21.0	87	51-80	N/A	Long narrow ridge of mainly jack pine.																																																			
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127	330 - Low-Density Trees	Nonstocked	25.6	0	Unspecified	4222 - Natural Jack Pine	Site planted spring of 2021 with 744 TPA of Jack pine to 800 TPA stocking; regen check in fall of 2021.  Natural Regen Check: 10/15/2019 - Jack Pine 200 TPA.  9/15/2020: Trenching Completed summer of 2020. Portion of the site in west not trenched. 09/30/2020: planting treatment moved from 2022 to 2021 based on seedling surplus. Site prep spray treatment for 2021 removed. Stand cut in 2015 as part of SMA Pine #018-14. Scarified in 2016. Regen check needed in 2019. FTP 42-862.																																																			
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128	500 - Water	Nonstocked	6.4			No																																																				
129	4310 - Pine, Oak Mix	Poletimber Well	38.8	96	141-170	N/A	Oak pine stand decent quality. Falls in the ERA.																																																			
		<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>Red Maple</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>35</td> <td>Pole/Log</td> <td>7</td> <td>96</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>25</td> <td>Pole/Log</td> <td>8</td> <td>74</td> </tr> <tr> <td>Jack Pine</td> <td>20</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>				Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	5		Red Oak	35	Pole/Log	7	96	Paper Birch	5	Pole	5		White Pine	10	Log/XLog	15		Red Pine	25	Pole/Log	8	74	Jack Pine	20	Pole/Log	8		<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>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Red Oak	High	Variable	Sapling	White Pine	Low	Variable	Sapling
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130	6229 - Mixed lowland shrub	Nonstocked	247.4			No																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
131	500 - Water	Nonstocked	37.5			No																																																																
132	500 - Water	Nonstocked	17.5			No																																																																
133	6229 - Mixed lowland shrub	Nonstocked	13.5			No																																																																
134	6229 - Mixed lowland shrub	Nonstocked	220.7			No																																																																
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135	42220 - Natural Jack Pine	Poletimber Well	5.9	74	81-110	N/A																																																																
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136	500 - Water	Nonstocked	2.5			No																																																																
137	42220 - Natural Jack Pine	Poletimber Well	33.3	80	81-110	N/A	Some large and old red pine. Mainly jack pine starting to die and fall down.																																																															
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138	42290 - Natural Mixed Pine	Poletimber Well	118.7	73	81-110	N/A	Jack pine is degrading in the stand.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
139	6229 - Mixed lowland shrub	Nonstocked	1.9			No																																				
140	6229 - Mixed lowland shrub	Nonstocked	25.1			No																																				
141	6229 - Mixed lowland shrub	Nonstocked	11.4			No																																				
142	6229 - Mixed lowland shrub	Nonstocked	32.4			No																																				
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Sub-Canopy Species	Density	Avg. Height	Size																																							
Leatherleaf	Medium		Tall Shrub																																							
Swamp Laurel	Medium		Tall Shrub																																							
Jack Pine	Trace		Sapling																																							
144	42290 - Natural Mixed Pine	Sawtimber Well	24.7	83	141-170	N/A	Jack pine is starting to degrade.																																			
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White Pine	Low	Variable	Sapling																																							
145	500 - Water	Nonstocked	25.5			No																																				
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Sub-Canopy Species	Density	Avg. Height	Size																																							
Tag Alder	Low		Tall Shrub																																							
146	42200 - Natural White Pine	Sawtimber Well	15.1	78	81-110	N/A	Nice white pine stand with tough access.																																			
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White Spruce	15	Log/Pole	10																																							
White Pine	70	Log	12	78																																						
147	500 - Water	Nonstocked	13.7		Unspecified	No	Deeper pool surrounded by shallower water.																																			
149	42210 - Natural Red Pine	Sawtimber Poor	24.5	105	51-80	N/A	Open grown wet ground red pine.																																			
150	6229 - Mixed lowland shrub	Nonstocked	10.4			No																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**151**      500 - Water      Nonstocked      10.1                No

**152**      42290 - Natural Mixed Pine      Sawtimber Well      17.3      79      111-140      N/A      Some lowlands in the stand. Pine and mixed deciduous comprise the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	4		Red Maple	Medium	Variable	Sapling
Paper Birch	5	Pole	4		Balsam Fir	Medium	Variable	Sapling
Red Pine	50	Log	12	79				
Jack Pine	40	Pole/Log	9					

**153**      6123 - Lowland Fir      Sawtimber Well      89.3      78      111-140      N/A      This stand is part of the Piping Plover Critical Coastal Habitat. Low ground timber.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	7		Balsam Fir	Full	Variable	Sapling
Balsam Fir	65	Log/Pole	8	78				
White Pine	5	Log/Pole	12					
Red Pine	10	Log/Pole	10					
Jack Pine	10	Pole/Log	7					

**154**      42290 - Natural Mixed Pine      Sawtimber Well      6.2      72      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Pole	7		Red Maple	Medium	Variable	Sapling
Paper Birch	5	Pole	7		Red Oak	Medium	Variable	Sapling
White Pine	50	Log	12	72	Paper Birch	Medium	Variable	Sapling
Red Pine	10	Log	10		Balsam Fir	Medium	Variable	Sapling
Jack Pine	30	Log	10		Black Cherry	Medium	Variable	Sapling

**156**      4310 - Pine, Oak Mix      Sawtimber Well      56.5      79      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	45	Log/Pole	10	79	Red Maple	Medium	Variable	Sapling
Paper Birch	5	Pole	7		Red Oak	Medium	Variable	Sapling
White Spruce	5	Log	10		Balsam Fir	High	Variable	Sapling
White Pine	40	Log/XLog	14		Black Spruce	Low	Variable	Sapling
Red Pine	5	Log	10		White Pine	Medium	< 5 feet	Tall Shrub

Utility line runs through the stand. Understory is really thick with balsam fir along the southern edge of the stand. There is also some labrador tea, leatherleaf and blueberry in the understory along with some scattered oak regeneration.

**158**      6229 - Mixed lowland shrub      Nonstocked      12.6                No

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Trace		Pole
Black Spruce	Trace		Pole
White Pine	Trace		Log
Northern White Cedar	Trace		Pole





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
159	500 - Water	Nonstocked	6.5			No																																																
160	6127 - Lowland Pine	Sawtimber Well	136.5	78		N/A	Variable stand depending on topography. Mixed pine canopy, higher stocking in higher areas with lowlands dominated by suppressed spruce with red maple and occasional birch and white pine.																																															
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Canopy Species	% Cover	Size Class	DBH	Age																																																		
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Paper Birch	5	Pole	6																																																			
Red Maple	4	Pole	5																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Red Maple	Low	10 - 20 feet	Sapling																																																			
Black Spruce	Medium	Variable	Sapling																																																			
Paper Birch	Medium	10 - 20 feet	Sapling																																																			
161	6124 - Lowland Spruce-Fir	Sawtimber Well	4.7	85	81-110	N/A																																																
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162	500 - Water	Nonstocked	4.1			No																																																
163	6229 - Mixed lowland shrub	Nonstocked	37.0			No																																																
164	6229 - Mixed lowland shrub	Nonstocked	34.6			No																																																
165	500 - Water	Nonstocked	13.1		Unspecified	No	Deeper pool surrounded by shallower water.																																															
166	500 - Water	Nonstocked	3.7			No																																																
168	622 - Lowland Shrub	Nonstocked	4.8			No																																																
169	621 - Floating Aquatic	Nonstocked	105.2		Unspecified	No	Shell Drake Dam Flooding; higher amount of vegetation within water.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
170	330 - Low-Density Trees	Nonstocked	1.6	0	Unspecified	4222 - Natural Jack Pine	Portion of the stand left after harvest and planting. Minimal pine coming in and lower than surrounding area.  2016: A few scattered red pine left in the stand. Clear cut jack pine stand in 2015 (SMA Pine #018-14). Scarified in summer of 2016. Regen check needed in FY 2019. FTP 42-862. 10/8/2019: Regen Check - JP 200 TPA. Trench and plant added for next steps per TMS/Unit Manager. 7/1/2020 - Site trenched summer of 2020. Minor acreage change based on wet conditions. Non-trenched areas will have lower stocking of natural JP. Active treatment will now either be possible spray or trench. 09/30/2020: planting treatment moved from 2022 to 2021 based on seedling surplus. Site prep spray treatment for 2021 removed.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low	< 5 feet	Sapling	
								Jack Pine	Low	< 5 feet	Seeding	
								Red Maple	Low	Variable	Sapling	
								Red Maple	Low	< 5 feet	Seeding	
								Red Pine	Trace	>20 feet	Pole	
								Red Pine	Low	Variable	Sapling	
								Red Pine	Low	< 5 feet	Seeding	
								White Pine	Trace	5 - 10 feet	Sapling	
								White Pine	Low	< 5 feet	Seeding	
Leatherleaf	Medium	< 5 feet	Tall Shrub									
171	6124 - Lowland Spruce-Fir	Sawtimber Well	102.7	85	81-110	N/A						
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Log/Pole	8	
								Paper Birch	20	Log/Pole	8	
								Balsam Fir	30	Log/Pole	8	85
								Black Spruce	30	Log/Pole	8	
								White Pine	10	Log/Pole	8	
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	Variable	Sapling									
Paper Birch	Medium	Variable	Sapling									
Balsam Fir	High	Variable	Sapling									
Black Spruce	Medium	Variable	Sapling									
173	622 - Lowland Shrub	Nonstocked	4.2			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Medium		Sapling	
								Leatherleaf	Full		Tall Shrub	
								Red Maple	Trace		Sapling	
								Labrador Tea	Medium		Tall Shrub	
								Swamp Laurel	Medium		Tall Shrub	
								White Pine	Medium		Pole	
Paper Birch	Trace		Sapling									
174	6229 - Mixed lowland shrub	Nonstocked	27.7			No	The purchase of this parcel of land was complete in 2007.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low		Pole	
								Swamp Laurel	Medium		Tall Shrub	
								Small Cranberry	Medium		Tall Shrub	
								Viburnum	Medium		Tall Shrub	
								Leatherleaf	High		Tall Shrub	
White Pine	Low		Pole									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>175</b>	42220 - Natural Jack Pine	Sapling Well	5.8	46	51-80	N/A	Stand was cut as part of sale #42-006-75																																													
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<b>176</b>	4123 - Red Oak	Poletimber Well	10.5	115	81-110	N/A	Sweet fern and blueberry in the understory Oak and pine in the overstory.																																													
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<b>177</b>	42200 - Natural White Pine	Sawtimber Well	10.7	96	81-110	N/A																																														
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<b>178</b>	6229 - Mixed lowland shrub	Nonstocked	4.7			No																																														
<b>179</b>	6229 - Mixed lowland shrub	Nonstocked	2.3			No																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>183</b>	42220 - Natural Jack Pine	Poletimber Well	63.0	46		N/A	Stand was cut as part of sale #42-006-75																																																		
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<b>184</b>	42290 - Natural Mixed Pine	Sawtimber Well	39.2	93	51-80	N/A	Stand was cut in half from stand 32. Stand has ridges and wet swales that lead it to not be harvested.  Portions of stand has evidence of an underplanting of red pine that took place in 1960. Planted red pine is suppressed and small.																																																		
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<b>185</b>	42220 - Natural Jack Pine	Poletimber Well	21.3	98	81-110	N/A	Jack pine stand with spruce and white pine.																																																		
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<b>187</b>	42290 - Natural Mixed Pine	Poletimber Medium	13.9	80	51-80	N/A	Stand was harvested as part of sale #6-75. Canopy is still open in place, low wet ground in areas as well. Mainly Jack pine with some white pine.																																																		
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<b>188</b>	6229 - Mixed lowland shrub	Nonstocked	13.7			No																																																			
<b>189</b>	6229 - Mixed lowland shrub	Nonstocked	13.4			No																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**190**      429 - Mixed Upland Conifers      Sawtimber Well      89.4      125      81-110      N/A      Stand is part of Piping Plover Critical Coastal Habitat.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	35	Log/Pole	10		Red Maple	Low	Variable	Sapling
Paper Birch	5	Pole	7		Red Oak	Low	Variable	Sapling
White Spruce	5	Pole	6		Paper Birch	Low	Variable	Sapling
White Pine	45	Log/Pole/XLog	13	125	Balsam Fir	Low	Variable	Sapling
Red Pine	5	Log/Pole	12		White Pine	Low	Variable	Sapling
Jack Pine	5	Pole/Log	9		Jack Pine	Low	Variable	Sapling

**191**      6229 - Mixed lowland shrub      Nonstocked      19.4      No      Water in the early spring.

Sub-Canopy Species	Density	Avg. Height	Size
Bog Birch	Medium		Tall Shrub
White Pine	Low		Pole
Leatherleaf	High		Tall Shrub
Jack Pine	Low		Sapling
Sweet Fern	High		Tall Shrub

**192**      42220 - Natural Jack Pine      Sawtimber Medium      14.9      72      51-80      N/A      Jack pine stand with some nice red an white pine throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Red Maple	Medium	Variable	Sapling
Paper Birch	10	Pole	5		Red Oak	Low	Variable	Sapling
Red Pine	15	Log	11					
Jack Pine	65	Log/Pole	8	72				

**193**      6229 - Mixed lowland shrub      Nonstocked      12.2      No

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

**195**      6229 - Mixed lowland shrub      Nonstocked      1.9      No

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low		Sapling
Leatherleaf	High		Tall Shrub
Paper Birch	Low		Sapling
White Pine	Medium		Pole
Red Maple	Trace		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
<b>196</b>	4319 - Mixed Upland Forest	Poletimber Medium	61.5	80	81-110	N/A	There are some scattered openings throughout the stand. The jack pine is degrading. There are some 4x4 trails running through the stand and an a lot of old dump piles scattered throughout the stand.																																																										
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<b>198</b>	42290 - Natural Mixed Pine	Sawtimber Medium	37.5	125	81-110	N/A	Road borders stand.																																																										
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<b>200</b>	42220 - Natural Jack Pine	Poletimber Well	8.8	100	81-110	N/A	Stand is in the Piping Plover Critical Coastal Habitat																																																										
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<b>202</b>	42220 - Natural Jack Pine	Sapling Medium	4.4	35	51-80	N/A	Stand is in the Piping Plover Critical Coastal Habitat. Young jack pine stand, scattered larger white pine throughout.																																				
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<b>203</b>	6229 - Mixed lowland shrub	Nonstocked	1.7			No	This stand is part of the Piping Plover Critical Coastal Habitat.																																				
<b>204</b>	6229 - Mixed lowland shrub	Nonstocked	36.9			No																																					
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<b>205</b>	710 - Sand, Soil	Nonstocked	22.6		Unspecified	No	This stand is part of the Piping Plover Critical Coastal Habitat.																																				
<b>206</b>	6229 - Mixed lowland shrub	Nonstocked	7.8			No																																					
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<b>207</b>	6229 - Mixed lowland shrub	Nonstocked	13.0			No																																					
<b>208</b>	42220 - Natural Jack Pine	Poletimber Well	21.5	90	81-110	N/A	Part of Tandy Purchase in 2016. Roads run through the stand to private parcels. Jack pine with mixed spruce, red, and white pine.																																				
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<b>209</b>	42120 - Planted Jack Pine	Sapling Poor	33.4	8	Immature	N/A	Harvested as Sale #005-03-01 Weatherhog Lakes Jack Pine. Sale was completed 5/6/05. Scarification (FTP 42-582) completed 2004 and 2005. Regeneration count completed 5/1/2007 (Unit 3 only) =299t/ac (125J, 10R, 48W, 67RM, 10BF). Secondary count 5/27/2008 (Units 1,2&3 = 109 t/ac (31JP, 46RP, 31WP).  6/16/2011: Really good jack pine regeneration. There is residual RP, RO, and W. Birch in the canopy.  summer of 2011 area trenched summer of 2012 area planted																																																					
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<b>210</b>	710 - Sand, Soil	Nonstocked	1.9			No	This site is part of the Piping Plover Critical Coastal Habitat.																																																					
<b>211</b>	42220 - Natural Jack Pine	Sawtimber Well	24.7	83	111-140	N/A	There is more red pine in the northwest part of the stand. Portion of the stand left after stand 90 was harvested.																																																					
<b>212</b>	42290 - Natural Mixed Pine	Sawtimber Well	61.6	93	81-110	N/A	Stand was part of the stand the the north but south of the road. Nice oak pine stand. Portions of stand has evidence of an underplanting of red line that took place in 1960. Planted red pine is suppressed and small.																																																					
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<b>213</b>	42220 - Natural Jack Pine	Sapling Poor	54.1	13	1-50	N/A	Check stand for any areas that did not fill in with trees at the next inventory cycle of this compartment. Sale passed regen check and has an adequate amount of regen coming in throughout the whole stand. 6/1/17 MPThis stand was harvested in multiple timber sales; resulting in one cover type. There is not a lot of regeneration present in the understory. The sales and their associated cultivation/regeneration work is listed below: Goose Marsh Pine (sale # 42-036-03-01) was completed on 5/7/09. Scarified under FTP 42-594, completed 9/30/09.  Vermillion Road Jack Pine (sale # 006-03-01) was completed on 1/24/07. Scarified under FTP 42-583, completed 8/9/07 on 139 acres; thicker RP ridges were avoided. Sale area was checked for regen in Summer 2011: JP 237 t/ac, RP 155 t/ac, WP 146 t/ac. Sale # 42-005-94-01. Sale completed in 1998.																																																					
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<b>215</b>	4310 - Pine, Oak Mix	Poletimber Well	8.2	90	81-110	N/A	Part of Tandy Purchase in 2016. Remote call from adjacent stand.																																																					
<b>216</b>	4122 - Oak, Pine	Sawtimber Well	13.5	109	81-110	N/A	Part of Tandy Purchase in 2016. Remote call from adjacent stand.																																																					



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<b>217</b>	42220 - Natural Jack Pine	Poletimber Well	3.3	89	51-80	N/A	Low wet pocket of jack pine and spruce.																				
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<b>218</b>	500 - Water	Nonstocked	17.0			No																					
<b>219</b>	629 - Mixed non-forested wetland	Nonstocked	267.7		Unspecified	No	Highest elevations of the Shelldrake flooding.																				
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