



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42036

Entry Year 2024

Acreage: 2,467

County Luce

Management Area: Deer Park

Stand Examiner: Matt Payment

Legal Description:

T49N, R9W. Sections 4, 8, 9, 16, 17, 18. T50N, R9W. Section 33

Identified Planning Goals:

Maintain forest health, forest resource protection, forest recreation, timber production, forest diversity and forest sustainability while considering wildlife, fisheries and environmental needs and concerns.

Soil and topography:

Rubicon Sand, slopes from 0-6 and 6-15 percent, gently rolling. The south east corner of the compartment offers some diversity containing a water feature and Dawson, Greenwood, and Loxley Soils but is a very minor component of the compartment.

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

Ownership pattern consists of a large, contiguous block of state ownership.

Unique Natural Features:

Within the compartment MNFI shows no potential for rare species. GDSE 'Elemental Occurrences' data layer was referenced and also showed no rare species. Most of the compartment was burnt by the Duck Lake Fire and is being treated with salvage cuts. A few small pockets of timber survived and are reserved from cutting.

Archeological, Historical, and Cultural Features:

None Known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Most of this compartment is within the Duck Lake Fire scar. It contains Little Perch Lake and a portion of Little Pike Lake. A 100-foot riparian management zone should already be in place for these two waterbodies for any proposed treatments. The East Branch Two-Hearted River is also located along the western boundary of the compartment and protected under the Natural River Plan. Per the Natural River Plan, a no-cut buffer of 100 feet should be implemented where appropriate along the East Branch Two Hearted River.

Wildlife Habitat Considerations:

Compartment 36 lies in north central Luce county and lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and in the Deer Park Management Area with red crossbill, Kirtland's warbler, piping plover and american marten as designated featured species. The compartment was part of the 2012 Duck Lake fire and was heavily burned through destroying nearly all of the mature forested stands. Much of the burned timber in the compartment was prescribed in salvage sales following the fire. A few scattered small stands of standing live trees exist and are primarily jack pine. A few small, burned-through stands of spruce and red pine exist as well. Wildlife species use of this compartment is minimal at the current time but species are anticipated to use existing live tree patches for cover, travel and food resources in the immediate landscape. The live tree patches will be important nesting locations for avian species in the coming years. Burned areas will either be left to regenerate naturally or will be re-planted to their previous cover type.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift, and was used as a building stone in the past. 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. The nearest known active sand/gravel pit is more than five miles southwest. There may be some potential for sand & gravel within the compartment, but development potential in this area is probably low. No current State mineral leasing activity exists in the area.

Vehicle Access:

The compartment can be accessed by county roads 414 and 423, both which are primary routes that run through a majority of the compartment. These roads are maintained by the Luce County Road Commission. The County has designated this road as seasonal and they do not routinely maintain it as they do other county roads. These roads provide great public access throughout the compartment. There are also a good number of small forest roads/logging roads that run through a majority of the stands, making access easy to the entire compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Two-Heart ORV Trail meanders through portions of the compartment. FMD snowmobile trail 8 runs through the compartment as well. Hunting, wildlife viewing and trapping opportunities are also present.

Fire Protection:

With many replanted and naturally regenerating acres of fire susceptible species there is a high risk for fire to occur. This compartment is part of the Two Hearted Zone Dispatch Area. The potential for large fire growth in this compartment is high because of the high acres of Jack Pine. Most of the compartment is accessible with heavy equipment. It is part of the Duck Lake Fire, which burned 5/24/2012.

Additional Compartment Information:**The following reports from the Inventory are attached:**

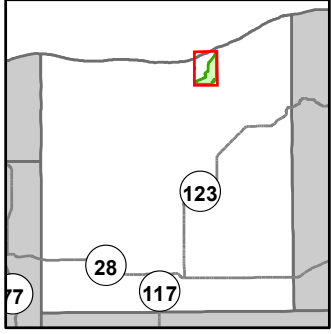
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

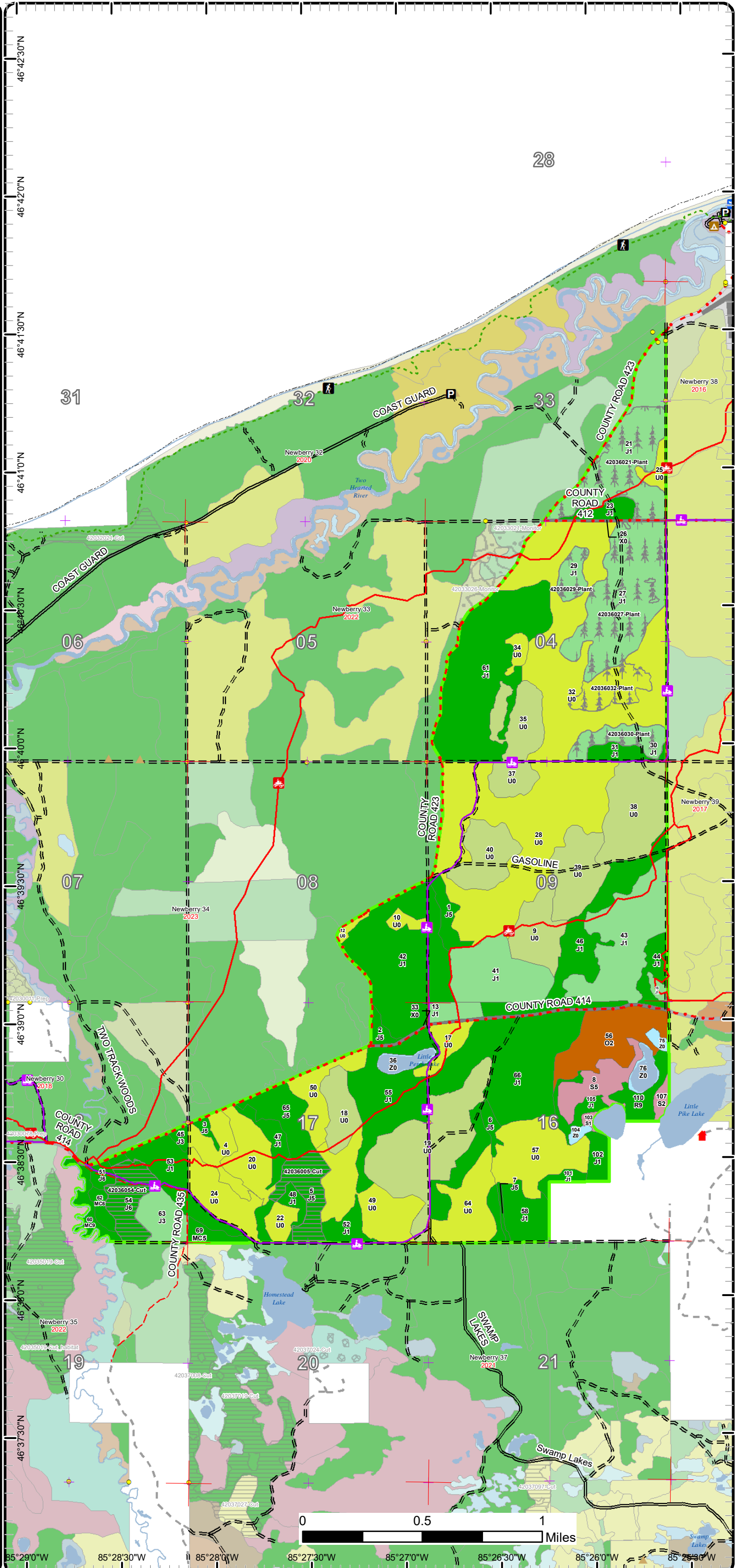
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 36
 T49N, R09W, Sec. 4, 8, 9, 16-18
 T50N, R09W, Sec. 33
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2024
 Acres: 2467.4 GIS Calculated
 Examiner: Matt Payment
 Map Revised: 1/6/2023
 Map Phase: Post-Review



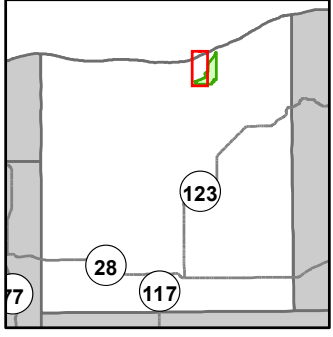
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- .-.- County - Gravel Road
- .-.- County - Dirt Road (Seasonal)
- .-.- Private - Dirt / Gravel Road
- ⚡ Hiking Trails
- 🚙 ORV Trails
- 🚙 Snowmobile Trails
- ⋯ Designated Hiking Trails
- Designated ATV
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- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- ▲ Berms
- P Parking Lot
- ▭ Compartment Boundary
- ▭ Planting (Tree Species)
- ▭ Clearcut (w/Reserves)
- ▭ 412 - Oak Types
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 612 - Lowland Coniferous Forest
- ▭ 122 - Roads/Parking Lot
- ▭ 320 - Upland Shrub
- ▭ 330 - Low Density Trees
- ▭ 500 - Water



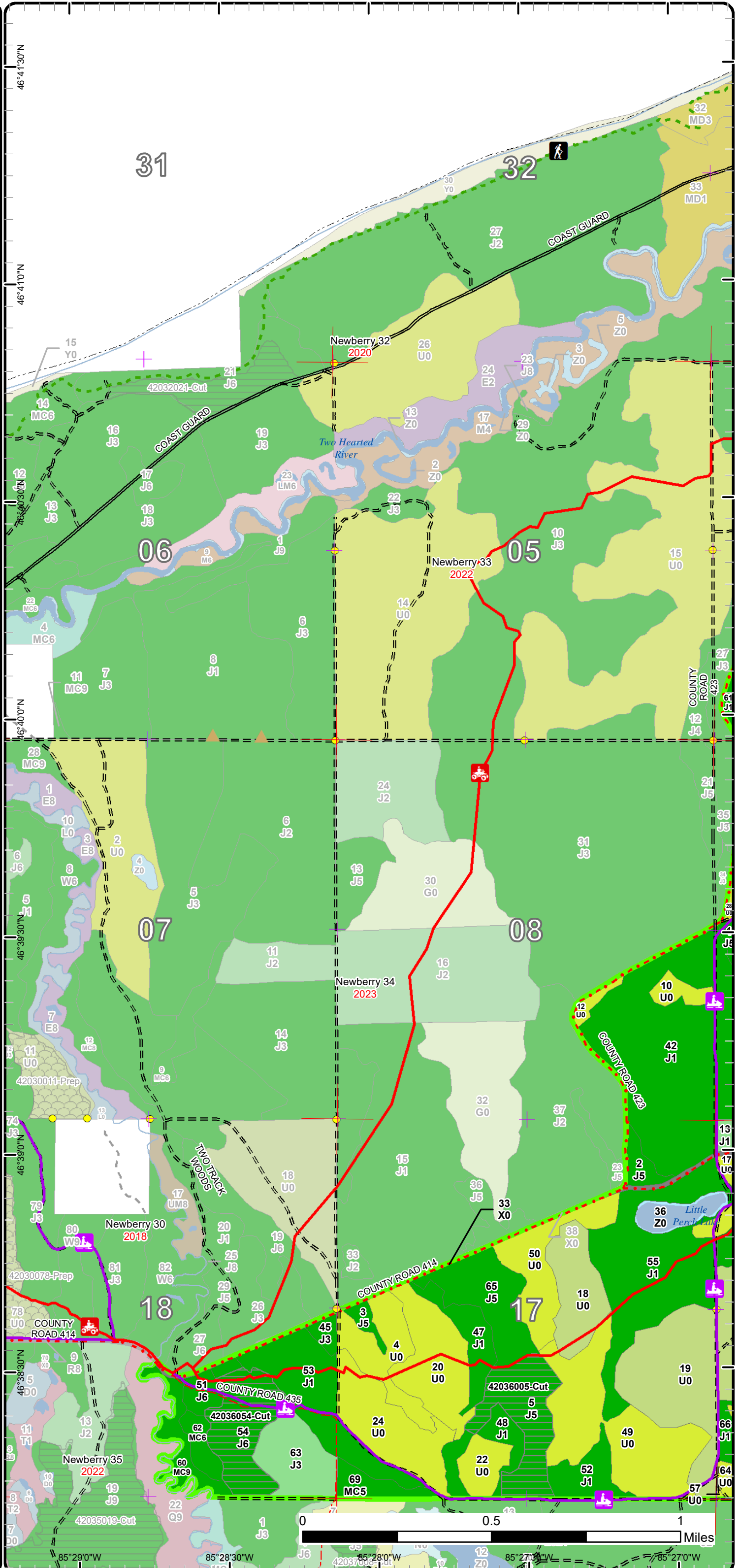
85°29'0"W 85°28'30"W 85°28'0"W 85°27'30"W 85°27'0"W 85°26'30"W 85°26'0"W 85°25'30"W

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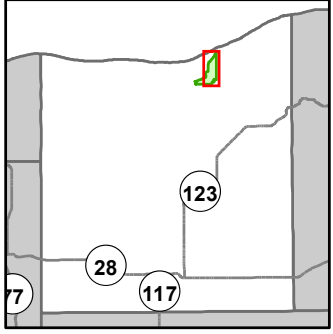
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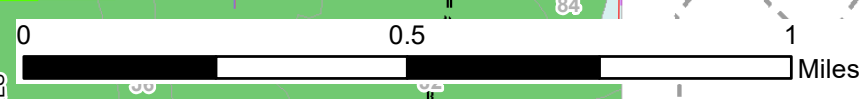
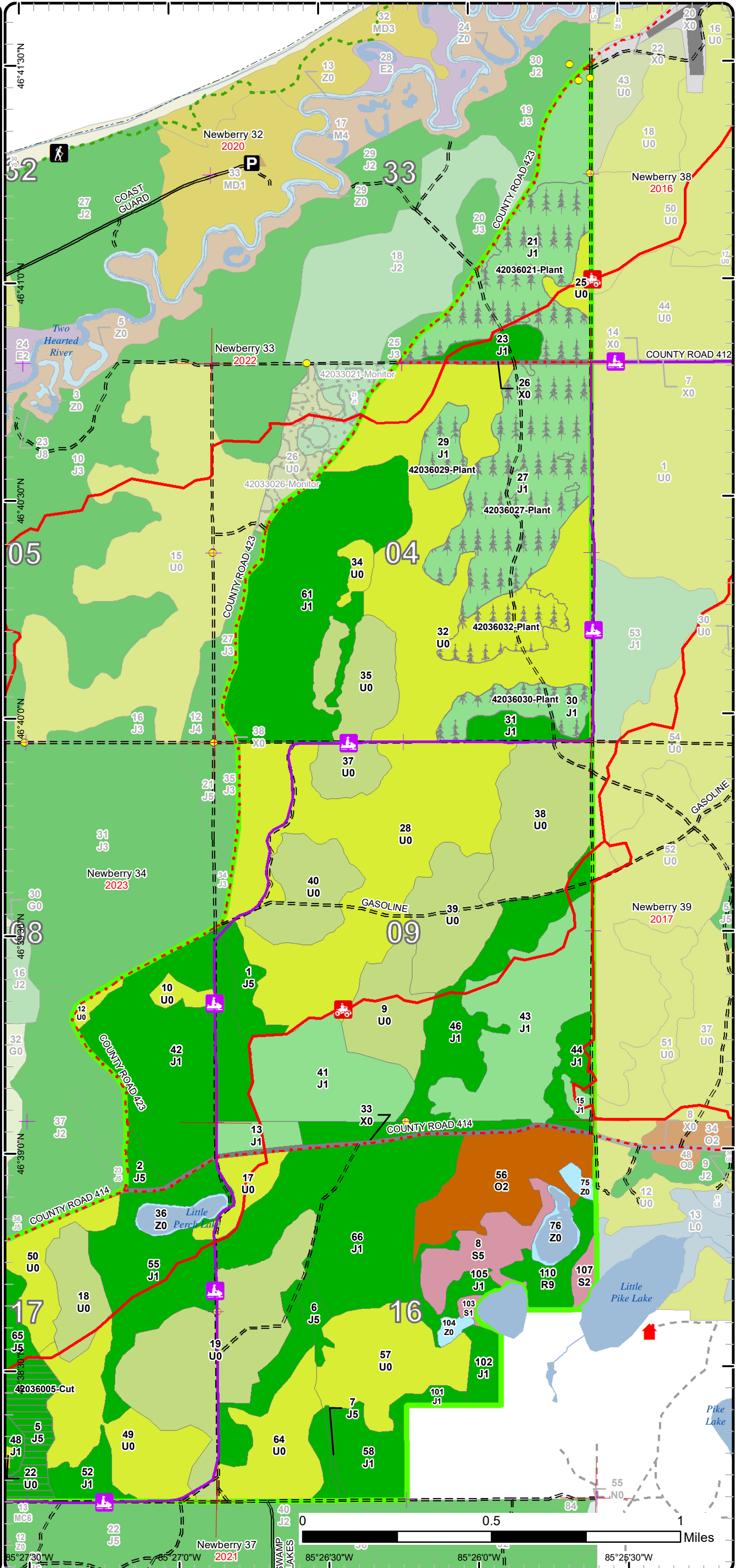
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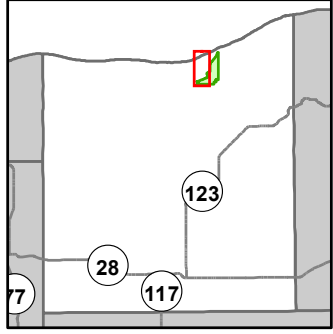
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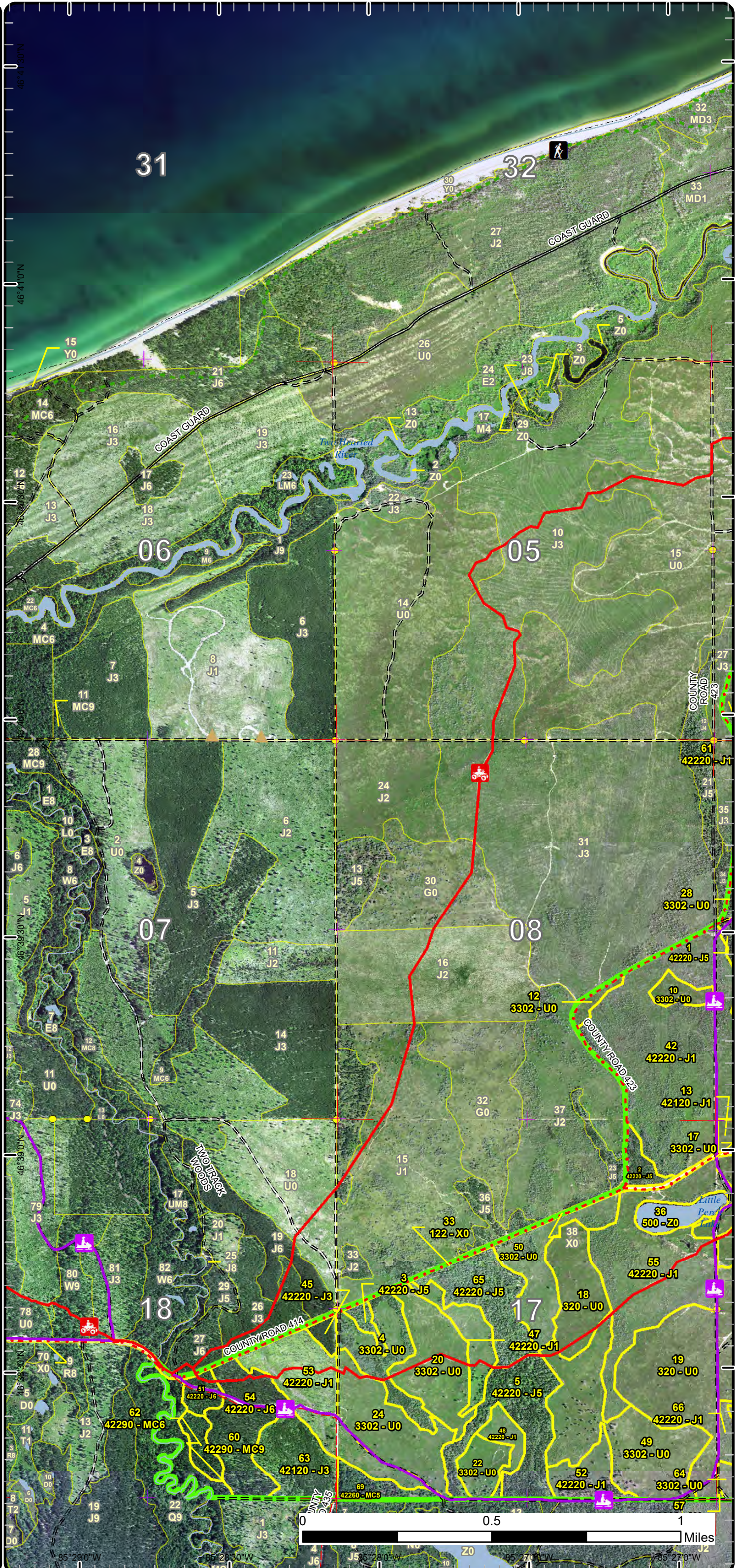
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Stand Boundary Map

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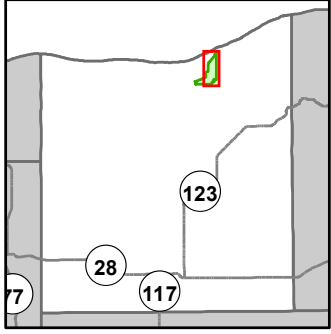


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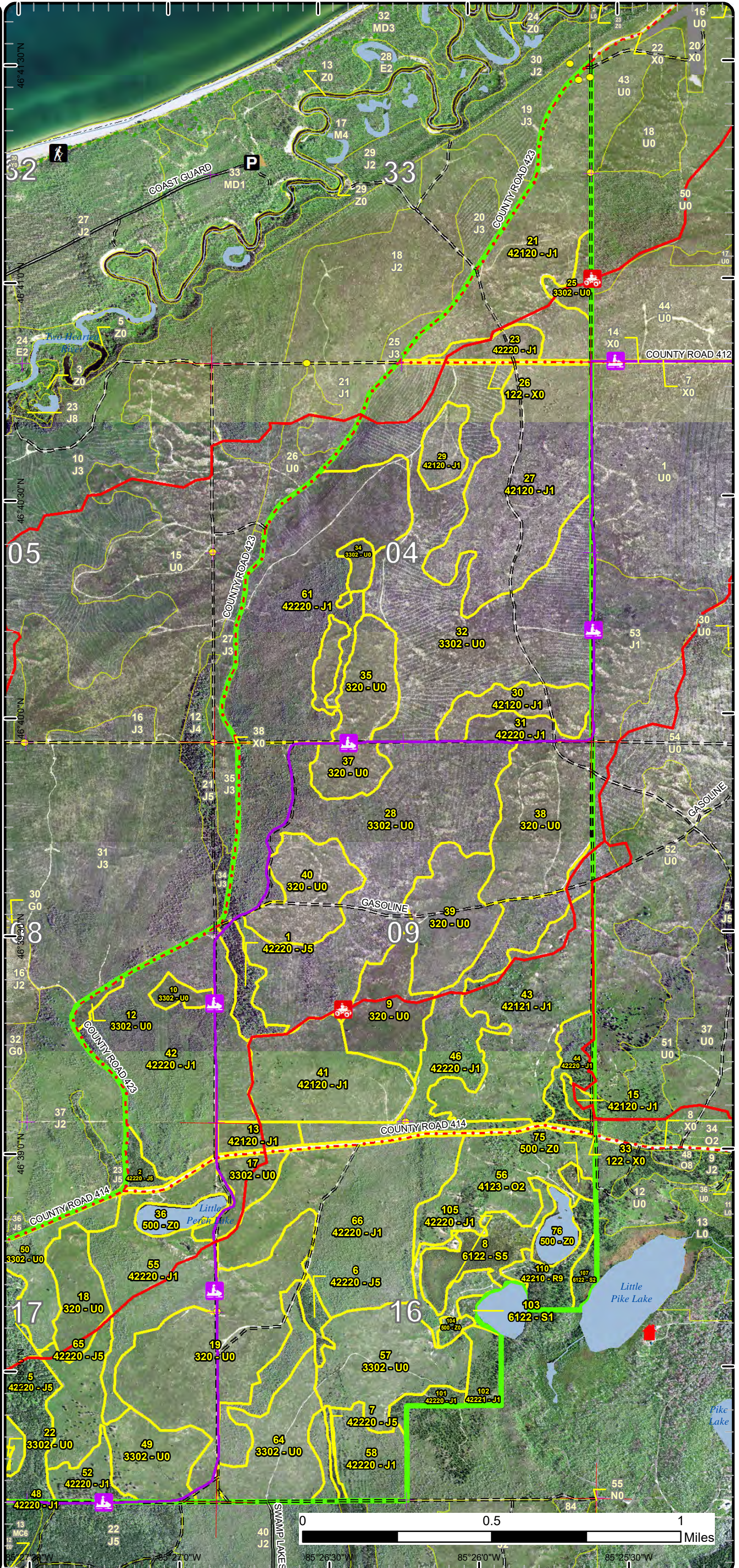


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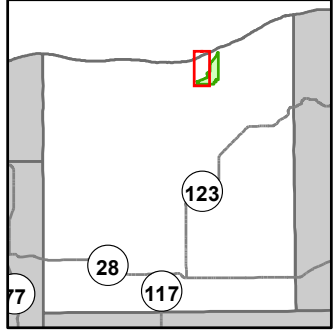


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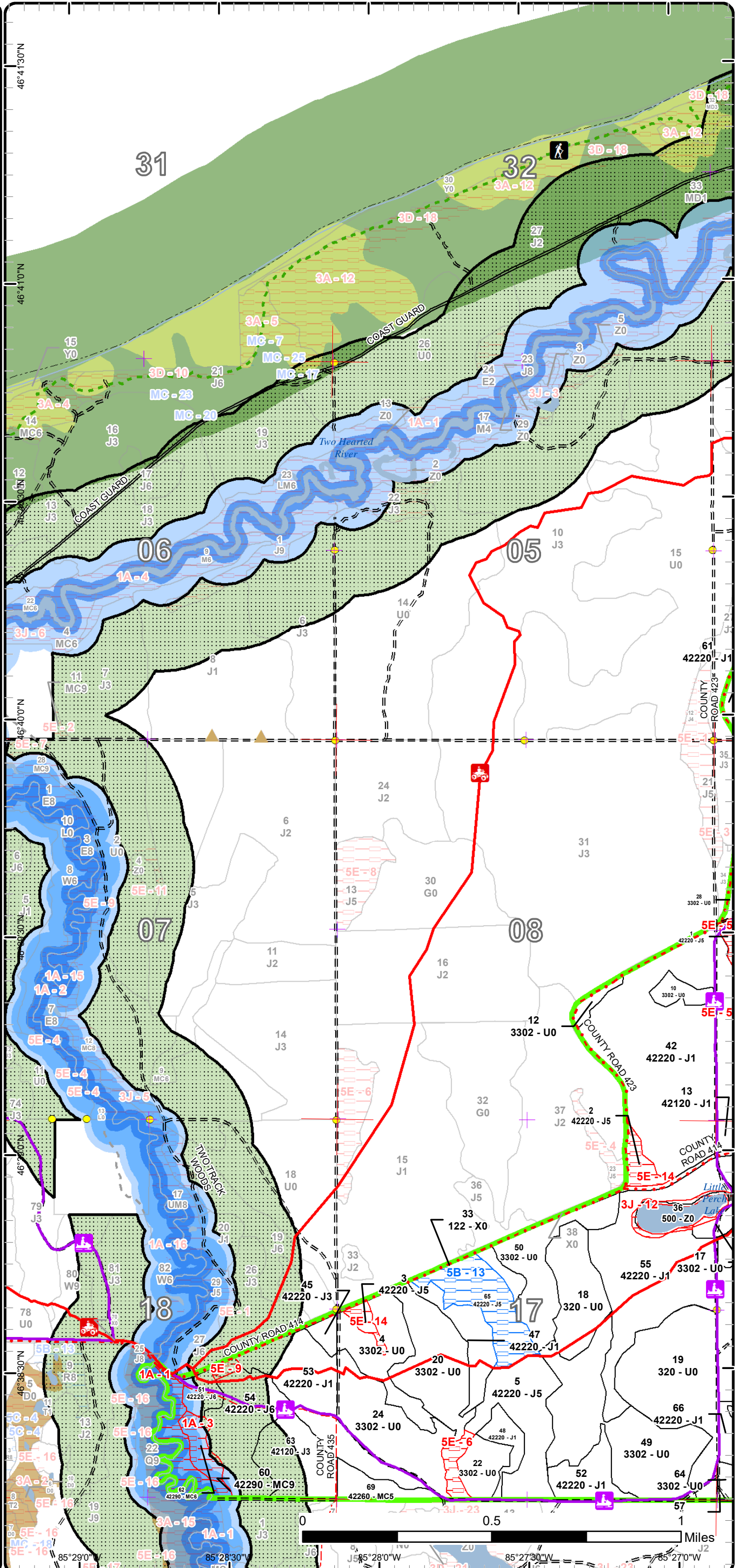


Special Conservation Areas

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- ▲ Berms
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 1A: Federal/State/Local Law
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Critical Dunes
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Critical Coastal Habitat (Piping Plover)
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



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
Jack Pine	0	253	792	46	9	12	9	0	31	79	0	0	0	0	0	0	0	0	1230
Low-Density Trees	707	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	707
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	3	0	33	0	0	0	0	0	0	0	36
Natural Mixed Pines	0	0	0	0	0	0	0	0	9	0	0	14	0	0	0	0	0	7	30
Oak	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Red Pine	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17
Upland Shrub	349	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	349
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Total	1101	253	846	46	9	12	9	0	43	79	33	31	0	0	0	0	0	7	2468



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 36

Total Compartment Acres: 2,467

Commercial Harvest - 60
 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
Jack Pine		60	0	0	0	0	0	0	0	0	60
	Total	60	0	0	0	0	0	0	0	0	60

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		60	0	238	0	0	0	0	0	0	298
Next Step		0	120	60	0	0	567	0	0	0	747
	Total	60	120	298	0	0	567	0	0	0	1046



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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:

5	42036005-Cut	30.6	42220 - Natural Jack Pine	Poetimber Medium	84	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Cut all species present. <u>Specs:</u> Where possible leave species diversity in the red line. Southwest finger left as retention. Scarify. If scarification fails trench and plant to jack pine. <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial <u>Treatments:</u> Regen(1yr) <u>Acceptable</u> Jack pine with mixed red and white pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
21	42036021-Plant	72.5	42120 - Planted Jack Pine	Sapling Poor	6	Immature	Planting	Interplant	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Hand plant Jack Pine in areas void of regeneration. Area is variable due to Red Headed Pine Sawfly outbreak in the area. Acreage may vary <u>Specs:</u> during planting operations in the stand. <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Jack Pine <u>Regen:</u> <u>Other</u> Based on 2022 regen survey data from FRS, this stand is currently at 142 tr/ac. Stand will be planted via an "interplant" at 766 tr/ac <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
27	42036027-Plant	102.7	42120 - Planted Jack Pine	Sapling Poor	6	Immature	Planting	Interplant	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Plant jack pine in areas void of live trees or showing signs of mortality. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> jack pine <u>Regen:</u> <u>Other</u> Based on 2022 regen survey data from FRS, this stand is currently at 335 tr/ac. Stand will be planted via an "interplant" at 573 tr/ac. - JAT <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29	42036029-Plant	13.4	42120 - Planted Jack Pine	Sapling Poor	6	Immature	Planting	Interplant	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> plant jack pine. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> jack pine <u>Regen:</u></p> <p><u>Other</u> Based on 2022 regen survey data from FRS, this stand is currently at 414 tr/ac. Stand will be planted via an "interplant" at 494 tr/ac. - JAT <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
30	42036030-Plant	22.9	42120 - Planted Jack Pine	Sapling Poor	6	Immature	Planting	Interplant	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Replant areas within stand void of live trees. Stand was infested with Red head pine sawfly. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine with red pine, white pine and oak/aspens. <u>Regen:</u></p> <p><u>Other</u> Based on 2022 regen survey data from FRS, this stand is currently at 336 tr/ac. Stand will be planted via an "interplant" at 572 tr/ac. - JAT <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
32	42036032-Plant	26.5	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Planting	Interplant	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Replant areas within stand void of live trees. Plant to jack pine. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> jack pine <u>Regen:</u></p> <p><u>Other</u> Based on 2022 regen survey data from FRS, this stand is currently at 238 tr/ac. Stand will be planted via an "interplant" at 670 tr/ac. - JAT <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
54	42036054-Cut	29.6	42220 - Natural Jack Pine	Poletimber Well	79	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Cut all species except leave red and white over 12". Retention left along northern edge. Scarify stand to promote jack pine. If scarification fails, trench and plant to jack pine. <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant <u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine with component of red and white 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 /2023</p>											

Total Treatment 298.2
Acreage Proposed:

Report 4 – Site Conditions

Newberry Mgt. Unit
Matt Payment : Examiner

Compartment: 36
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
1231	1155	24	52

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions					
					5B	1A	3E	3J	5D	5E
1231	1155	24	52	Jack Pine	24		1	3		48
707	707	0	0	Low-Density Trees						
35	0	0	35	Lowland Spruce/Fir				10		25
30	9	0	21	Natural Mixed Pines		21				
53	53	0	1	Oak				1		
17	4	0	13	Red Pine				3		10
349	349	0	0	Upland Shrub						
18	18	0	0	Urban						
27	20	0	6	Water				4	2	
2,467	2,316	24	128	Total Forested Acres	24	21	1	21	2	84
	94%	1%	5%	Relative Percent						

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	1A: Federal/State/Local Law	14	3J: Water quality / BMPs (stream, river, or lake)	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Natural River corridor. Evaluated for SBW.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	1A: Federal/State/Local Law	7	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Two Hearted Natural River Zone. Evaluated for SBW.							

Report 4 – Site Conditions

Newberry Mgt. Unit
 Matt Payment : Examiner

Compartment: 36
 Year of Entry: 2024

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention area. Unburned area surrounded by Duck Lake Salvage harvest.							
6	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention area for DLS#11. Area was excluded from the Duck Lake salvage sales; however it was burnt over. Some green trees remain from the original inventory.							
8	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5D: Unproductive Forest Land	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
 Matt Payment : Examiner

Compartment: 36
 Year of Entry: 2024

11	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two-Hearted River Airstrip lease							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Jack pine coming in from Duck Lake Fire.							
14	Unavailable	5E: Long-Term Retention	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
1	42220 - Natural Jack Pine	Poletimber Medium	12.7	88	51-80	N/A	Some surviving trees still alive, some mortality in the stand.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Pole</td> <td>8</td> <td>88</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Pole	8	88	<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 Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	Variable	Sapling	Red Maple	Low	Variable	Sapling	Duck Lake fire. Retention area of live trees within DLS #9 sale.													
Canopy Species	% Cover	Size Class	DBH	Age																																			
Jack Pine	100	Pole	8	88																																			
Sub-Canopy Species	Density	Avg. Height	Size																																				
Red Pine	Low	Variable	Sapling																																				
Red Maple	Low	Variable	Sapling																																				
2	42220 - Natural Jack Pine	Poletimber Medium	6.2	46	51-80	N/A	Jack Pine with some mortality within the stand. Duck Lake fire. Retention area of live trees within salvage sale.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Pole</td> <td>6</td> <td>46</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Pole	6	46																												
Canopy Species	% Cover	Size Class	DBH	Age																																			
Jack Pine	100	Pole	6	46																																			
3	42220 - Natural Jack Pine	Poletimber Medium	3.2	87	51-80	N/A	Duck Lake fire. Retention area of live trees within salvage sale.																																
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Canopy Species	% Cover	Size Class	DBH	Age																																			
Jack Pine	100	Pole	8	87																																			
4	3302 - Low Density Conifer Trees	Nonstocked	22.5		Unspecified	4222 - Natural Jack Pine	2022-Stand is filling in with Jack pine some open areas leave stand to fill in as is.																																
		<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>Jack Pine</td> <td>Low</td> <td></td> <td>Pole</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td></td> <td>Log</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low		Pole	Red Pine	Low		Log	2015 - Duck Lake fire May 2012. DLS #11. Regenerate to jack pine through natural regeneration where possible, followed by planting where necessary. Regen survey in 2015 by summer students revealed little to no natural regeneration. Evaluate during next inventory cycle.																							
Sub-Canopy Species	Density	Avg. Height	Size																																				
Jack Pine	Low		Pole																																				
Red Pine	Low		Log																																				
5	42220 - Natural Jack Pine	Poletimber Medium	35.7	84	51-80	N/A	2022 - Remnants of stands left from Duck Lake Fire 2012. Split north half off as it has some slight difference from the stand as south of the ATV trail.																																
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Jack Pine	100	Pole	8	84																																			
6	42220 - Natural Jack Pine	Poletimber Medium	5.9	50	51-80	N/A	Duck Lake fire area. Retention area of live trees.																																
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Jack Pine	Low	Variable	Sapling																																				
7	42220 - Natural Jack Pine	Poletimber Medium	2.6	50	51-80	N/A	Duck Lake fire area. Retention area of live trees.																																
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Jack Pine	100	Pole	6	50																																			
8	6122 - Black Spruce	Poletimber Medium	27.2	91	Unspecified	N/A	2022 - Stand appears to be low and wet with flooding occurring yearly hindering the growth of trees within the stand. Stand is less a spruce stand now and more flooded lowland stand.																																
<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>Black Spruce</td> <td>80</td> <td>Sapling/Pole</td> <td>4</td> <td>91</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	80	Sapling/Pole	4	91	White Pine	10	Pole/Sapling	5		Jack Pine	10	Pole/Sapling	5		<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>Leatherleaf</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Labrador Tea</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Leatherleaf	Medium	Variable	Tall Shrub	Labrador Tea	Medium	Variable	Tall Shrub	Duck Lake fire May 2012. Retention area for DLS#11. Area was excluded from the Duck Lake salvage sales; however it was burnt over. Some green trees remain from the original inventory.			
Canopy Species	% Cover	Size Class	DBH	Age																																			
Black Spruce	80	Sapling/Pole	4	91																																			
White Pine	10	Pole/Sapling	5																																				
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Leatherleaf	Medium	Variable	Tall Shrub																																				
Labrador Tea	Medium	Variable	Tall Shrub																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments														
9	320 - Upland Shrub	Nonstocked	35.2		Unspecified	4212 - Planted Jack Pine	5/14/19 Stocking = Stand 9 - Planted 1033 trees/ac. 1142 trees/ac plot data, 989 trees/ac linear data.														
							Regen survey - 11/9/2021: 811 TPA Jack Pine.														
							Duck Lake fire May 2012. Salvage cut 2012 DLS #9, sale #42-032-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-821. Regen check in 2015 by summer students. 450 trees/acre. Regen check summer 2017: 238 trees/acre. Trenched in September 2018.														
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Sub-Canopy Species	Density	Avg. Height	Size																		
Jack Pine	Full	< 5 feet	Seeding																		
Jack Pine	Low	5 - 10 feet	Sapling																		
10	3302 - Low Density Conifer Trees	Nonstocked	5.8		Unspecified	4212 - Planted Jack Pine	Low density trees. Jack pine beginning to fill in.														
							<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>Jack Pine</td> <td>Low</td> <td>Unspecified</td> <td>Seeding</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low	Unspecified	Seeding	Duck Lake fire May 2012. Salvage cut 2012 DLS #9, sale #42-032-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-821. Regen check in 2015 by summer students. 150 trees/acre. Small stand. Regen check summer 2017: 370 trees/acre.		
							Sub-Canopy Species	Density	Avg. Height	Size											
Jack Pine	Low	Unspecified	Seeding																		
12	3302 - Low Density Conifer Trees	Nonstocked	3.5		Unspecified	4212 - Planted Jack Pine	Opening filling in with Jack pine.														
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							Sub-Canopy Species	Density	Avg. Height	Size											
Jack Pine	Low	Unspecified	Seeding																		
13	42120 - Planted Jack Pine	Sapling Poor	10.4	6	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #9, sale #42-032-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-821. Regen survey in 2015 by summer students. 520 trees/acre. Regen survey summer 2017: 354 Trees/acre.														
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							Canopy Species	% Cover	Size Class	DBH	Age										
Jack Pine	100	Sapling	1	6																	
15	42120 - Planted Jack Pine	Sapling Poor	3.5	6	Immature	N/A	2022 - Stand has some jack pine coming in along with some older regeneration from Duck lake fire. Jack pine appears to be 300-400 TPA. Think for the small stand we can just let it fill in naturally.														
							<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> </tbody> </table>				Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Sapling	1	6	
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Jack Pine	100	Sapling	1	6																	
							2017 - Duck Lake fire May 2012. Salvage cut 2012 DLS #9, sale #42-032-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Regen check in 2015 by summer students. 200 trees/acre. Regen survey 2017: 160 trees/acre.														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments													
17	3302 - Low Density Conifer Trees	Nonstocked	15.3		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. Salvage cut 2012 DLS #11, sale #42-034-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-820. Only about 12 acres of the 15 acres planted in 2013. Remainder of acres planted in May 2014, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-820. Regen check in 2015 by summer students. 250 trees/acre. Regen survey summer 2017: 312 Trees/acre. Trenched in October 2018. 5/6/19 Planted Stocking = Stand 17 - Planted 980 trees/ac. 1070 trees/ac plot data, 954 trees/ac linear data. Regen survey - 11/9/2021: 975 TPA Jack Pine.													
								<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>Jack Pine</td> <td>Full</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Full	< 5 feet	Seeding				
Sub-Canopy Species	Density	Avg. Height	Size																	
Jack Pine	Full	< 5 feet	Seeding																	
18	320 - Upland Shrub	Nonstocked	24.6		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. Regenerate to jack pine by planting. FTP# 42-820. Planted May 2014, no trenches, 5 x 8 spacing, approx 1200 trees/acre. Regen check in 2015 by summer students. 260 trees/acre. Regen survey summer 2017: 284 Trees per acre. Trenching completed in October 2018. 5/6/19 Planted Stand 18 - Planted 1016 tr/ac, 1100 tr/ac plot data, 963 tr/ac linear data. Regen survey - 11/9/2021: 767 TPA Jack Pine.													
								<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>Jack Pine</td> <td>Full</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Full	< 5 feet	Seeding				
Sub-Canopy Species	Density	Avg. Height	Size																	
Jack Pine	Full	< 5 feet	Seeding																	
19	320 - Upland Shrub	Nonstocked	96.0		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. Regenerate to jack pine by planting. FTP# 42-820. Planted May 2014, no trenches, 5 x 8 spacing, approx 1200 trees/acre. Regen check in 2015 by summer students. 120 trees/acre. Regen check summer 2017: 103 Trees/acre. Trenching completed in October 2018. 5/6/19 Planted Stand 19 - Planted 1051 tr/ac, 1109 tr/ac plot data, 990 tr/ac linear data. Regen survey - 11/9/2021: 648 TPA Jack Pine.													
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								Sub-Canopy Species	Density	Avg. Height	Size									
Jack Pine	Trace	< 5 feet	Seeding																	
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Sub-Canopy Species	Density	Avg. Height	Size																	
Jack Pine	Low	Unspecified	Seeding																	
20	3302 - Low Density Conifer Trees	Nonstocked	32.0		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. Regenerate to jack pine by planting. FTP# 42-819. Planted May 2014, no trenches, 5 x 8 spacing, approx 1200 trees/acre. Regen check in 2015 by summer students. 280 trees/acre. Regen check summer 2017: 273 Trees per acre. October 2018 - trenching treatment was terminated. Stand has regenerated to 516 trees per acre. Decision with Unit Manager and TMS to remove trenching and allow stand to regenerate as is.													
								<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>Jack Pine</td> <td>Low</td> <td>Unspecified</td> <td>Seeding</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low	Unspecified	Seeding				
Sub-Canopy Species	Density	Avg. Height	Size																	
Jack Pine	Low	Unspecified	Seeding																	
21	42120 - Planted Jack Pine	Sapling Poor	97.3	6	Immature	N/A	2022 - Area has outbreak of redheaded pine sawfly outbreak, large areas of mortality. Regen check scheduled for 2023. 06/12/18- JP TPA is approximately 800, Fully stocked. Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. Roller Chopped in 2014, Planted in 2015. 2016 regen survey showed 423 trees/acre total (245 planted/ 178 volunteers). FTP C42-854.													
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Canopy Species	% Cover	Size Class	DBH	Age																
Jack Pine	100	Sapling	1	6																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
22	3302 - Low Density Conifer Trees	Nonstocked	10.6		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. Regenerate to jack pine by planting. FTP# 42-819. Planted May 2014, no trenches, 5 x 8 spacing, approx 1200 trees/acre. Regen check in 2015 by summer students. 250 trees/acre. Regen survey summer 2017: 336 Trees per acre. October 2018 - trenching treatment was terminated. Stand has regenerated to 738 trees per acre. Decision with Unit Manager and TMS to remove trenching and allow stand to regenerate as is.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Trace		Log	
								Jack Pine	Low	Unspecified	Seeding	
23	42220 - Natural Jack Pine	Sapling Poor	11.5	11	Immature	N/A	2022- Duck Lake fire area. DLS#4, 6, & 9. Regenerating using natural regeneration where possible naturally seeding in to jack pine currently.					
								Canopy Species	% Cover	Size Class	DBH	Age
	Jack Pine	100	Sapling	2	11							
24	3302 - Low Density Conifer Trees	Nonstocked	33.1		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. Regenerate to jack pine by planting. FTP# 42-819. Planted May 2014, no trenches, 5 x 8 spacing, approx 1200 trees/acre. Regen survey in 2015 by summer students. 250 trees/acre. Regen survey summer 2017: 371 Trees per acre. Very patchy regen. October 2018 - trenching treatment was terminated. Stand has regenerated to 541 trees per acre. Decision with Unit Manager and TMS to remove trenching and allow stand to regenerate as is.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Trace		Log	
								Jack Pine	Low	Unspecified	Seeding	
25	3302 - Low Density Conifer Trees	Nonstocked	8.4		Unspecified	4222 - Natural Jack Pine	2022 - Duck Lake fire area. DLS#4, 6, & 9. Regenerating using natural regeneration where possible naturally seeding in to jack pine currently.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Medium	< 5 feet	Seeding	
26	122 - Road/Parking Lot	Nonstocked	3.5		Unspecified	No	County Road 412					
27	42120 - Planted Jack Pine	Sapling Poor	105.1	6	Immature	N/A	2022 - Stand was unfurrow planted. Jack pine has been hit by red headed pine sawfly and has areas of mortality. Some areas have trees that may survive needle loss. 06/12/18- JP TPA=576 Plus a lot of volunteers JP, RP, some oak. Roller chopped majority of stand in fall 2014; planted in spring 2015. FTP C42-857. A 14 acre "donut hole" roller chopped spring 2015 after planting was completed. This "donut hole" has not been planted yet. The portion of the stand that was planted failed a regen check in spring of 2016 (273 trees/acre: 197 planted/77 volunteers). FTP # 42-857. Planted entire stand to JP without trenches 6/5/2017.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	80	Sapling	1	6
								Red Pine	5	Sapling	1	
								White Pine	10	Sapling	1	
								Red Oak	5	Sapling	1	
28	3302 - Low Density Conifer Trees	Nonstocked	188.4		Unspecified	4222 - Natural Jack Pine	2022 - Stand filling in nicely with jack pine. Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. Regen survey completed spring 2015 by summer students. Variable densities. Average 1160 trees/acre. Plots ranged from 0-137 trees.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	High	< 5 feet	Seeding	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments										
29	42120 - Planted Jack Pine	Sapling Poor	13.4	6	Immature	N/A	5/02/22 - Planted trees looked good. Some RHPS mortality in the volunteer species. 400-600 TPA. 06/12/18- JP TPA=523. Fully Stocked. Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. FTP # 42-857. Planted to JP without trenches 6/5/2017.										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Sapling	1	6						
Canopy Species	% Cover	Size Class	DBH	Age													
Jack Pine	100	Sapling	1	6													
30	42120 - Planted Jack Pine	Sapling Poor	22.9	6	Immature	N/A	2022 - After 3 years of infestation of red headed pine sawfly stand has significant mortality and defoliation. Some trees appear as they may survive but many are dead. 06/12/18- JP TPA= 1057, Fully stocked plantation. 2012 - Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. Roller chopped in 2015. Finished off east of road and a few rows along north side, west of road in 2016. FTP # 42-857. Planted to JP without trenches 5/15/2017.										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Sapling	1	6						
Canopy Species	% Cover	Size Class	DBH	Age													
Jack Pine	100	Sapling	1	6													
31	42220 - Natural Jack Pine	Sapling Poor	12.3	11	Immature	N/A	2022 - Duck Lake fire area. DLS#4, 6, & 9. Regenerating using natural regeneration where possible naturally seeding in to jack pine currently. Moderately stocked jack pine.										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Sapling</td> <td>2</td> <td>11</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Sapling	2	11						
Canopy Species	% Cover	Size Class	DBH	Age													
Jack Pine	100	Sapling	2	11													
32	3302 - Low Density Conifer Trees	Nonstocked	200.0		Unspecified	4222 - Natural Jack Pine	2022 - Duck Lake fire area. DLS#4, 6, & 9. Regenerating using natural regeneration where possible naturally seeding in to jack pine currently. 2015 - Regen checked in 2015 by summer students. Variable results, but generally good. Average 1240 trees/acre. Plots ranged from 0-115 per plot.										
					<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>Jack Pine</td> <td>High</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	High	< 5 feet	Seeding				
Sub-Canopy Species	Density	Avg. Height	Size														
Jack Pine	High	< 5 feet	Seeding														
33	122 - Road/Parking Lot	Nonstocked	14.5		Unspecified	No	County Road 414										
34	3302 - Low Density Conifer Trees	Nonstocked	6.2		Unspecified	4212 - Planted Jack Pine	2022 - Duck Lake fire area. DLS#4, 6, & 9. Regenerating well fully stocked jack pine. Trenched in September of 2018. 6/9/19 Stand 34 - Planted 1270 tr/ac, 1120 tr/ac plot data, 1008 tr/ac linear data. Regen survey - 11/9/2021: 380 TPA of Jack Pine with some poor form of some seedlings. 2015 - Regen checked in 2015 by summer students. Variable results, but generally good. Average 1240 trees/acre. Plots ranged from 0-115 per plot.										
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Jack Pine	Medium	< 5 feet	Seeding														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments												
35	320 - Upland Shrub	Nonstocked	34.6		Unspecified	4212 - Planted Jack Pine	2022 - Stand is well stocked with jack pine and looks good.												
							<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>Jack Pine</td> <td>High</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	High	< 5 feet	Seeding				
Sub-Canopy Species	Density	Avg. Height	Size																
Jack Pine	High	< 5 feet	Seeding																
							<p>16/9/19 Stand 35 - Planted 1047 tr/ac, 1144 tr/ac plot data, 1101 tr/ac linear data.</p> <p>Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary.</p> <p>Regen checked in 2015 by summer students. Variable results, but generally good. Average 1240 trees/acre. Plots ranged from 0-115 per plot.</p> <p>September 2018 - trenching was completed. Regen survey - 11/9/2021: 471 TPA Jack Pine.</p>												
36	500 - Water	Nonstocked	10.1		Unspecified	No	Little Perch Lake.												
37	320 - Upland Shrub	Nonstocked	16.4		Unspecified	4212 - Planted Jack Pine	6/9/19 Stand 37 - Planted 930 tr/ac, 1127 tr/ac plot data, 1021 tr/ac linear data.												
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Jack Pine	High	< 5 feet	Seeding																
							<p>Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. Regen survey completed spring 2015 by summer students. Variable densities. Average 1160 trees/acre. Plots ranged from 0-137 trees. Trenched in September 2018. Regen survey - 11/9/2021: 738 TPA Jack Pine.</p>												
38	320 - Upland Shrub	Nonstocked	62.5		Unspecified	4212 - Planted Jack Pine	6/9/19 Stand 38 - Planted 996 tr/ac, 1122 tr/ac plot data, 998 tr/ac linear data.												
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							<p>Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. Regen survey completed spring 2015 by summer students. Variable densities. Average 1160 trees/acre. Plots ranged from 0-137 trees. Trenched in September 2018. Regen survey - 11/9/2021: 616 TPA Jack Pine.</p>												
39	320 - Upland Shrub	Nonstocked	42.9		Unspecified	4212 - Planted Jack Pine	6/9/19 Stand 39 - Planted 1119 tr/ac, 1091 tr/ac plot data, 984 tr/ac linear data.												
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Jack Pine	Low	5 - 10 feet	Sapling																
Jack Pine	High	< 5 feet	Seeding																
							<p>Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. Regen survey completed spring 2015 by summer students. Variable densities. Average 1160 trees/acre. Plots ranged from 0-137 trees. Trenched in September 2018. Regen survey - 11/9/2021: 714 TPA Jack Pine.</p>												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
40	320 - Upland Shrub	Nonstocked	36.5		Unspecified	4212 - Planted Jack Pine	Regen Survey: 10/14/2019 - JP 900 TPA. Fully stocked. 3rd year check in place. Regen survey - 11/9/2021: 761 TPA Jack Pine. 6/9/19 Stand 40 - Planted 1000 tr/ac, 1091 tr/ac plot data, 990 tr/ac linear data. Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. Regen survey completed spring 2015 by summer students. Variable densities. Average 1160 trees/acre. Plots ranged from 0-137 trees. Trenched in September 2018.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low	< 5 feet	Sapling	
								Jack Pine	High	< 5 feet	Seeding	
41	42120 - Planted Jack Pine	Sapling Poor	57.5	10	Immature	N/A	2022 - Stand was planted and is looking good. Regen Check:10/14/2019 - 1st year JP 766 TPA. Some small pocket mortality. 3rd year in place. Regen survey - 11/9/2021: 1000 TPA Jack Pine. 6/9/19 Stand 41 - Planted 1158 tr/ac, 1112 tr/ac plot data, 990 tr/ac linear data. Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. Regen survey completed spring 2015 by summer students. Variable densities. Average 1160 trees/acre. Plots ranged from 0-137 trees. Trenched in September 2018.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Sapling	1	
								Quaking Aspen	5	Sapling	1	
Jack Pine	85	Sapling	1	10								
42	42220 - Natural Jack Pine	Sapling Poor	114.5	11	Immature	N/A	2022 - Trees filling in this stand. Jack pine, aspen, some scattered maple. Duck Lake fire area. DLS#4, 6, & 9. Regen survey completed spring 2015 by summer students. Variable densities. Average 1160 trees/acre. Plots ranged from 0-137 trees.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	85	Sapling	2	11
								Quaking Aspen	10	Sapling	1	
Red Maple	5	Sapling	1									
43	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Poor	83.2	10	Immature	N/A	2022 - Jack pine is looking good within the stand. Regeneration Check: 10/14/2019 - 1st year planted JP 656 TPA (transect data), with approximately 300 TPA 6 year old planted JP and volunteer saplings. Passed. 3rd year monitor in place; keep an eye on possible release spray on RM and QA; currently >75% FTG. Regen survey - 11/9/2021: 800 TPA Jack Pine. 6/9/19 Stand 43 - Planted 979 tr/ac, 1085 tr/ac plot data, 987 tr/ac linear data. Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary. Regen survey completed spring 2015 by summer students. Variable densities. Average 1160 trees/acre. Plots ranged from 0-137 trees. Trenched in September 2018.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	10	Sapling	1	
								Red Maple	15	Sapling	1	
Jack Pine	75	Sapling	1	10								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																
44	42220 - Natural Jack Pine	Sapling Poor	16.5	11	Immature	N/A	2022 - Stand is growing and filling in still with Jack pine.																
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Canopy Species	% Cover	Size Class	DBH	Age																			
Jack Pine	100	Sapling	2	11																			
45	42220 - Natural Jack Pine	Sapling Well	3.4	37	81-110	N/A	Timber stringer left after Duck Lake fire 2012. Trees appear healthy and no issues.																
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Canopy Species	% Cover	Size Class	DBH	Age																			
Red Pine	5	Log/Pole	10																				
Jack Pine	95	Sapling	3	37																			
46	42220 - Natural Jack Pine	Sapling Poor	65.6	11	Immature	N/A	2022 - Stand is filling in with jack pine.																
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Canopy Species	% Cover	Size Class	DBH	Age																			
Jack Pine	100	Sapling	2	11																			
47	42220 - Natural Jack Pine	Sapling Poor	13.9	11	Immature	N/A	2022 - Stand is filling in. With the amount of regen in the stand is and the surrounding area it is considered fully stocked.																
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Canopy Species	% Cover	Size Class	DBH	Age																			
Jack Pine	100	Sapling	2	11																			
48	42220 - Natural Jack Pine	Sapling Poor	7.3	11	Immature	N/A	2022 - Stand is fully stocked with Jack pine.																
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Canopy Species	% Cover	Size Class	DBH	Age																			
Jack Pine	100	Sapling	1	11																			
49	3302 - Low Density Conifer Trees	Nonstocked	58.0		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. DLS #11. Regenerate to jack pine with natural regeneration, followed by planting if needed. Regen survey in 2015 by summer students, with little to no regen noted. Trenching completed in October 2018.																
<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 Pine</td> <td>Low</td> <td></td> <td>Log</td> </tr> <tr> <td>Jack Pine</td> <td>High</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Jack Pine</td> <td>Trace</td> <td></td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low		Log	Jack Pine	High	< 5 feet	Seeding	Jack Pine	Trace		Pole						5/6/19 Planted Stand 49 - Planted 1002 tr/ac, 1057 tr/ac plot data, 992 tr/ac linear data. Regen survey - 11/9/2021: 528 TPA Jack Pine.
Sub-Canopy Species	Density	Avg. Height	Size																				
Red Pine	Low		Log																				
Jack Pine	High	< 5 feet	Seeding																				
Jack Pine	Trace		Pole																				
50	3302 - Low Density Conifer Trees	Nonstocked	25.9		Unspecified	4222 - Natural Jack Pine	2022 - Sparse Jack pine left in the stand. Regeneration is coming in throughout. Some open areas in the stand. Leave stand to fill in naturally.																
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Sub-Canopy Species	Density	Avg. Height	Size																				
Red Pine	Low		Log																				
Jack Pine	Trace	Unspecified	Pole																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
51	42220 - Natural Jack Pine	Poletimber Well	6.0	44	81-110	N/A	Located in the Two Hearted Natural River Plan. Scarified 10/1/79. JP poles are 35-50 feet. Some WP,RP poles and PB saplings present in stand.																																	
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Sub-Canopy Species	Density	Avg. Height	Size																																					
White Pine	Low	Variable	Sapling																																					
Balsam Fir	Low	Variable	Sapling																																					
52	42220 - Natural Jack Pine	Sapling Poor	13.7	11	1-50	N/A	2022 - Overstory Red pine left after Duck lake. Jack pine is coming in slowly underneath and around the red pine. Duck Lake fire May 2012. DLS #11. Regen survey in 2015 by summer students. Average 140 trees/acre. Re-evaluate during next inventory cycle, as natural regeneration has been increasing each year.																																	
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Sub-Canopy Species	Density	Avg. Height	Size																																					
Red Pine	Low	Variable	Log																																					
53	42220 - Natural Jack Pine	Sapling Poor	35.8	19	1-50	N/A	06/13/18- Jack pine TPA is approximately 690. **Harvested as Homestead Lake JP - 42-018-04-01** Regeneration results: 631 tpa is adequate.																																	
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54	42220 - Natural Jack Pine	Poletimber Well	31.2	79	81-110	N/A	Stand is starting to degrade. Nice JP pole/logs. Stand falls just outside of the Natural River Plan boundary.																																	
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55	42220 - Natural Jack Pine	Sapling Poor	66.4	11	Immature	N/A	2022- Fully Stocked Jack pine. 2015 - Duck Lake fire May 2012. DLS #11. Regenerate to jack pine with natural regeneration, followed by planting if needed. Regen survey in 2015 by summer students. Average 1675 trees/acre.																																	
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56	4123 - Red Oak	Sapling Medium	53.5	10	Immature	N/A	2022- Stand mainly oak and red maple with jack, red and white pine coming in throughout. 2012- 2015 -Duck Lake fire May 2012. DLS #11. Regenerate to jack pine with natural regeneration, followed by planting if needed. Regen survey in 2015 by summer students. Averages 600 trees/acre of oak. Acceptable regeneration.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57 3302 - Low Density Conifer Trees Nonstocked 56.2 Unspecified 4212 - Planted Jack Pine 2022 - Leave stand as it is let it fill in now. Regen survey - 11/9/2021: 548 TPA Jack Pine.

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low		Log
Jack Pine	Trace		Pole
Jack Pine	High	< 5 feet	Seeding

Decision was made after a poorly stocked regen survey that multiple plantings and time since the fire, and possibly having some variability across the landscape (Fire area) in JP density, and that should be considered in this instance.

5/6/19 Planted Stand 57 (south) furrowed - Planted 1058 tr/ac, 1073 tr/ac plot data, 999 tr/ac linear data. Stand 57 (north) interplant/unfurrowed - Planted 571 tr/ac, 723 tr/ac plot data, 672 tr/ac linear data. FTP- C42-940.

2012 - Duck Lake fire May 2012. DLS #11. Regenerate to jack pine with natural regeneration, followed by planting if needed. Little to no regen noted. Originally cut in 1994 prior to fire.

58 42220 - Natural Jack Pine Sapling Poor 31.4 11 Immature N/A 2022 - Fully Stocked Jack pine stand.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	100	Sapling	2	11

2015 - Duck Lake fire May 2012. DLS #11. Regenerate to jack pine with natural regeneration, followed by planting if needed. Regen survey in 2015 by summer students. Averages 570 trees/acre. Variable regeneration.

60 42290 - Natural Mixed Pine Sawtimber Well 14.0 101 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	27	Log/Pole/XLog	14	101
Red Pine	25	Log/Pole/XLog	14	
Jack Pine	15	Pole/Log	8	
Paper Birch	10	Pole	6	
Balsam Fir	15	Pole	7	
White Spruce	8	Pole/Sapling	6	

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

Stand falls under Two-Hearted River Mgmt guidelines. Steep ridge down to river bottom; contains large diameter pine (some old RP 22" +). PB within stand is either dead or dying out of stand.

61 42220 - Natural Jack Pine Sapling Poor 131.1 11 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	100	Sapling	2	11

2022 - Stand is fully stocked with Jack Pine. Some areas have signs of red headed pine sawfly damage. Small inclusion or pockets showing mortality, however over the stand looks healthy.

2012 - Duck Lake fire area. DLS#4, 6, & 9. Regenerate using natural regeneration where possible, and planting where necessary.

Regen checked in 2015 by summer students. Variable results, but generally good. Average 1240 trees/acre. Plots ranged from 0-115 per plot.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
62	42290 - Natural Mixed Pine	Poletimber Well	6.9	59	81-110	N/A	Two Hearted Natural River Plan. Some of the WP regeneration is weevilled (trees are ~ 35 feet in height). Mixed softwoods include: spruce, red pine, white pine and jack pine.																																																			
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63	42120 - Planted Jack Pine	Sapling Well	23.6	23	51-80	N/A	2022 - Jack Pine are no 20-30 feet tall and appear healthy. Some natural opening mainly on the west side of the stand. Machine planted in May,2000 with 2-0 JP (FTP #42-442: 23 acres). Regeneration survey done on planting 10/23/2001 and found to be stocked with 642 trees/ac (includes 591 planted trees/ac jp + 51 "volunteer" trees/ac jp). 2012 - High quality trees and stocking. Trees are 3-6'.																																																			
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64	3302 - Low Density Conifer Trees	Nonstocked	41.1		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. DLS #11. Regenerate to jack pine with natural regeneration, followed by planting if needed. Little to no regen noted. Originally cut in 1994 prior to fire. 5/6/19 Planted Stand 57 (south) furrowed - Planted 1058 tr/ac, 1073 tr/ac plot data, 999 tr/ac linear data. Stand 57 (north) interplant/unfurrowed - Planted 571 tr/ac, 723 tr/ac plot data, 672 tr/ac linear data. FTP- C42-940. Regen survey - 11/9/2021: 548 TPA Jack Pine.																																																			
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65	42220 - Natural Jack Pine	Poletimber Medium	27.3	84	51-80	N/A	2022 - Area of regeneration coming in after Duck Lake Fire. Some mature trees in the stand. Leave for regeneration purposes. Split north half off as it has some slight difference from the stand south of the ATV trail.																																																			
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66	42220 - Natural Jack Pine	Sapling Poor	131.3	11	Immature	N/A	2022 - Stand has jack pine coming in and looks ok. With the amount of jack pine in the area the stand could be considered fully stocked. 2015 - Duck Lake fire May 2012. DLS #11. Regenerate to jack pine with natural regeneration, followed by planting if needed. Regen survey in 2015 by summer students. Variable regen, averaging 185 trees/acre. Re-evaluate during next inventory cycle.																																																			
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69	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	9.2	76	81-110	N/A	A few wet spots throughout. Old JP and Aspen is degrading. Overflow drain runs from Homestead lake NW corner through length of the stand going north.																																										
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76	500 - Water	Nonstocked	10.3		Unspecified	No																																											
101	42220 - Natural Jack Pine	Sapling Poor	6.3	36	1-50	N/A	2022 - Duck Lake fire May 2012. Retention area for DLS#11. Area was excluded from the Duck Lake salvage sales; however it was burnt over. Some green trees remain from the original inventory.																																										
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102	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	11.3	24	Immature	N/A	2022 - Duck Lake fire May 2012. Retention area for DLS#11. Area was excluded from the Duck Lake salvage sales; however it was burnt over. Some green trees remain from the original inventory.																																										
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103	6122 - Black Spruce	Sapling Poor	2.6	73	Unspecified	N/A	Duck Lake fire May 2012. Retention area for DLS#11. Area was excluded from the Duck Lake salvage sales; however it was burnt over. Some green trees remain from the original inventory.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
105	42220 - Natural Jack Pine	Sapling Poor	11.4	24	Immature	N/A	2022 - Stand is filling in with Jack Pine. Moderately Stocked.																																														
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107	6122 - Black Spruce	Sapling Medium	5.6	91	Unspecified	N/A	Duck Lake fire May 2012. Retention area for DLS#11. Area was excluded from the Duck Lake salvage sales; however it was burnt over. Some green trees remain from the original inventory.																																														
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110	42210 - Natural Red Pine	Sawtimber Well	17.0	100	111-140	N/A	Duck Lake fire May 2012. Retention area for DLS#11. Area was excluded from the Duck Lake salvage sales; however it was burnt over. Some green trees remain from the original inventory.																																														
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