



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42033

Entry Year 2022

Acreage: 1,321

County Luce

Management Area: Deer Park

Revision Date: 2020-08-06

Stand Examiner: Amy Douglass

Legal Description:

T49N R09W Sections 4, 5 & 6

T50N R09W Sections 32 & 33

Identified Planning Goals:

To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreation and environmental needs and concerns.

Soil and topography:

The soil type is predominately Rubicon sand. The topography is mostly level to rolling throughout the compartment with areas of steep sand banks along the Two Hearted River.

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

The compartment is entirely State owned and is almost entirely surrounded by State land. There are two private land parcels that are near the compartment. There is a private 40 acre parcel with a seasonal cabin to the southwest of the compartment. The other nearby private parcel is to the Northeast end of the compartment where the Rainbow Lodge (business) is located. The compartment is adjacent to the Two Hearted River which is designated as a Natural River. The area is used heavily for recreation activity such as camping, hiking, canoeing, fishing, ORV riding and some hunting. The area has also been historically used for timber production.

Unique Natural Features:

The Two Hearted River and its corridor is a unique and natural feature to the area. The Two Hearted River has been designated as a Natural River and there was a natural river plan adopted as to how to manage land around the river.

Archeological, Historical, and Cultural Features:

SHPO has identified a site within or adjacent to this compartment, but does not impact any treatments.

Special Management Designations or Considerations:

Special considerations must be made for the timber management around the Two Hearted River corridor. Follow the Two Hearted River Natural River Plan as well as BMP guidelines.

Watershed and Fisheries Considerations:

The Two Hearted River skirts the northern edge of this compartment. The Two Hearted River is a Natural River and any treatments or activities planned in this compartment should comply to the recommendations in the Two Hearted River Natural River Plan.

Wildlife Habitat Considerations:

Compartment 33 lies in far northcentral Luce county and lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection as well as the Deer Park Management Area with Kirtland's warbler, piping plover, red crossbill and American marten as featured species. The compartment is almost entirely jack pine with low within stand diversity and was impacted in part by the Duck Lake Fire. The northern border is the Two-hearted River.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural and species diversity as possible in managed stands will be important to achieving wildlife objectives. For example, 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. Tree species diversity will increase wildlife diversity and use of stands. No stands are scheduled this entry year. Wildlife species thought to use this compartment include white-tailed deer, black bear, coyote, and possibly Kirtland's warbler

Mineral Resource and Development Concerns and/or Restrictions

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 active sand/gravel pit is more than six miles away. There appears to be

potential for sand & gravel within the compartment, but there may not be much demand in this area. No current mineral leasing activity exists in the area.

Vehicle Access:

County Road 423 runs along the eastern boundary of the compartment. This is accessed via County Road 414. These roads receive regular maintenance from Luce County Road Commission. All other roads are State forest roads and are mostly sand two-tracks that receive minimal to no maintenance.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The Two-Heart ATV trail runs through the compartment. A canoe launch is located about a mile from the mouth of the river. The area is heavily used by recreationists for fishing, camping, blueberry picking, and by ORV and snowmobile users.

Fire Protection:

The entire compartment falls under the Two Hearted Zone Dispatch fire response plan. With a mostly Jack Pine cover type, and long response time, large fire runs are possible. Risk to private property or State facilities in neighboring compartments would be high. Access for some heavy equipment in the interior of the compartment will be limited because of the loose sand composition. The majority of the compartment was burned during the Duck Lake Fire in 2012.

Additional Compartment Information:

The following reports from the Inventory are attached:

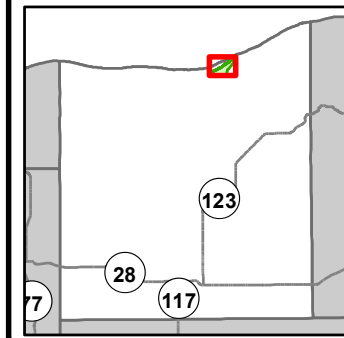
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

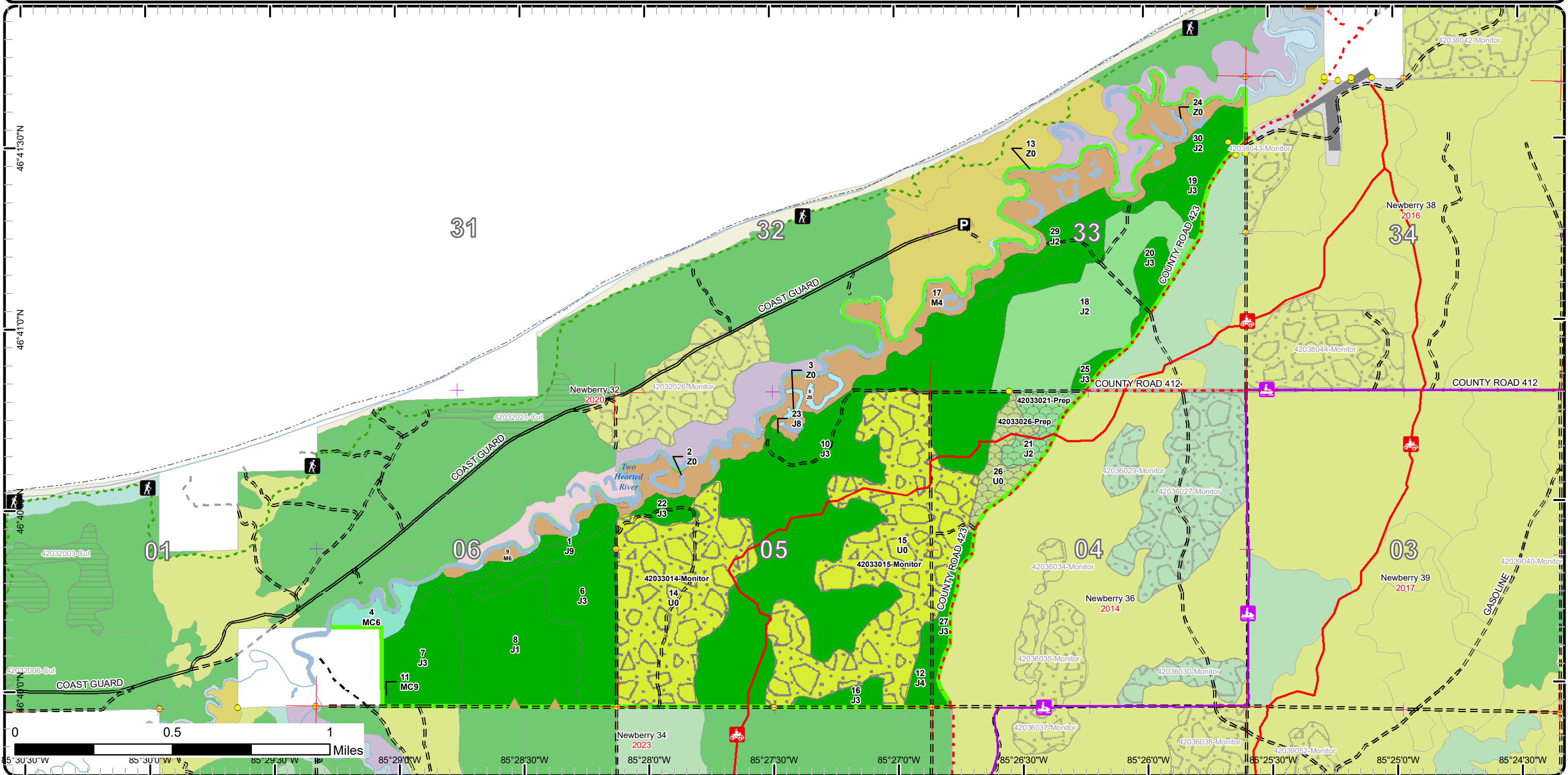
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 33
 T50N, R09W, Sec. 32, 33
 T49N, R09W, Sec. 4-6
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2022
 Acres: 1321.4 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 1/25/2021
 Map Phase: Post-Review

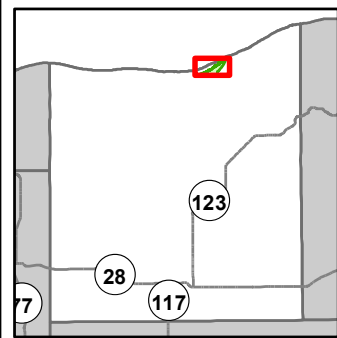


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- ORV Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated ATV
- Designated Snowmobile Trails
- ▲ Berms
- P Parking Lot
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Regeneration Survey
- Site Prep
- 411 - Northern Hardwood
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water

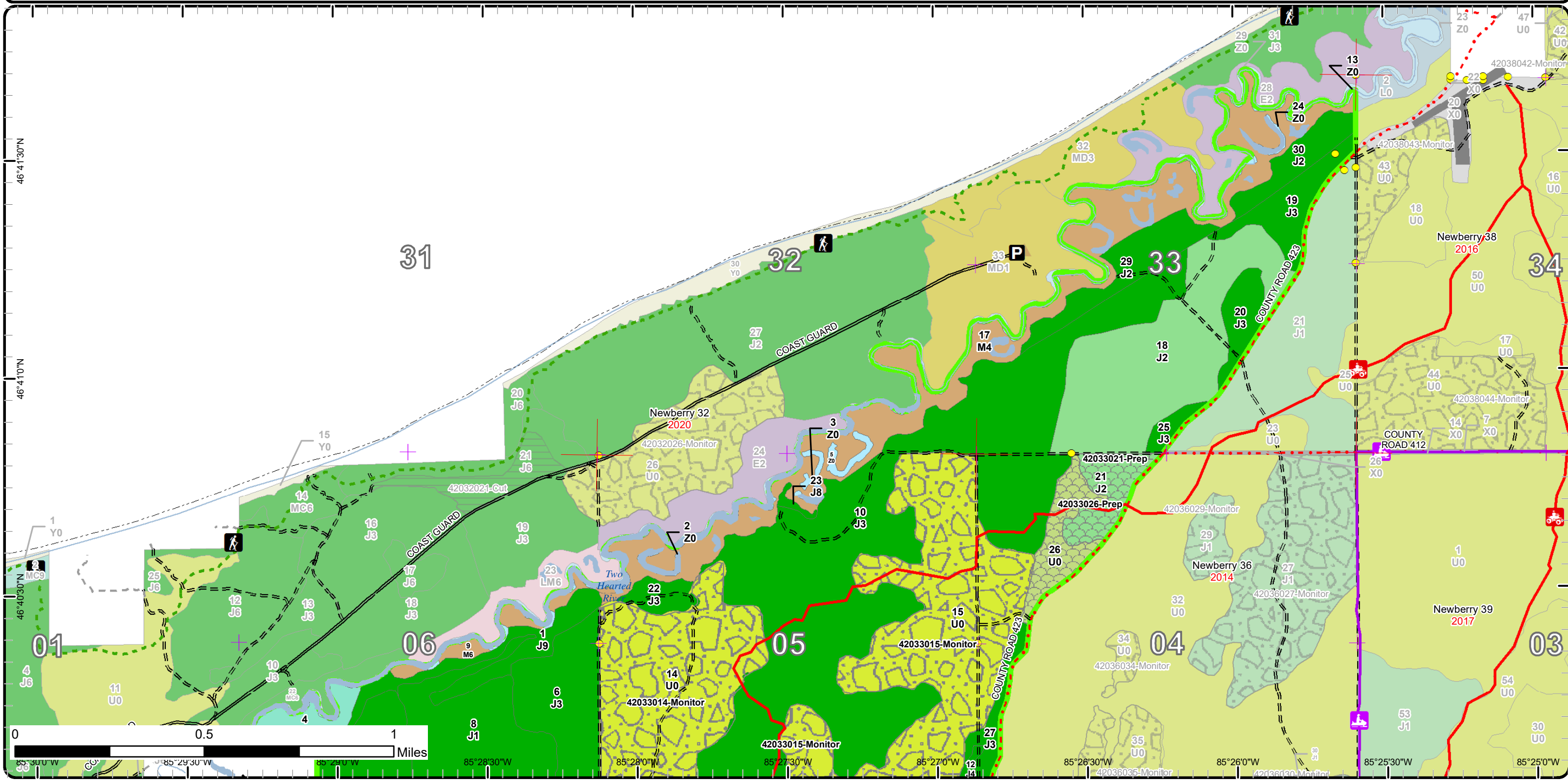


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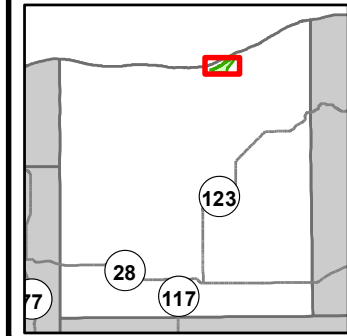


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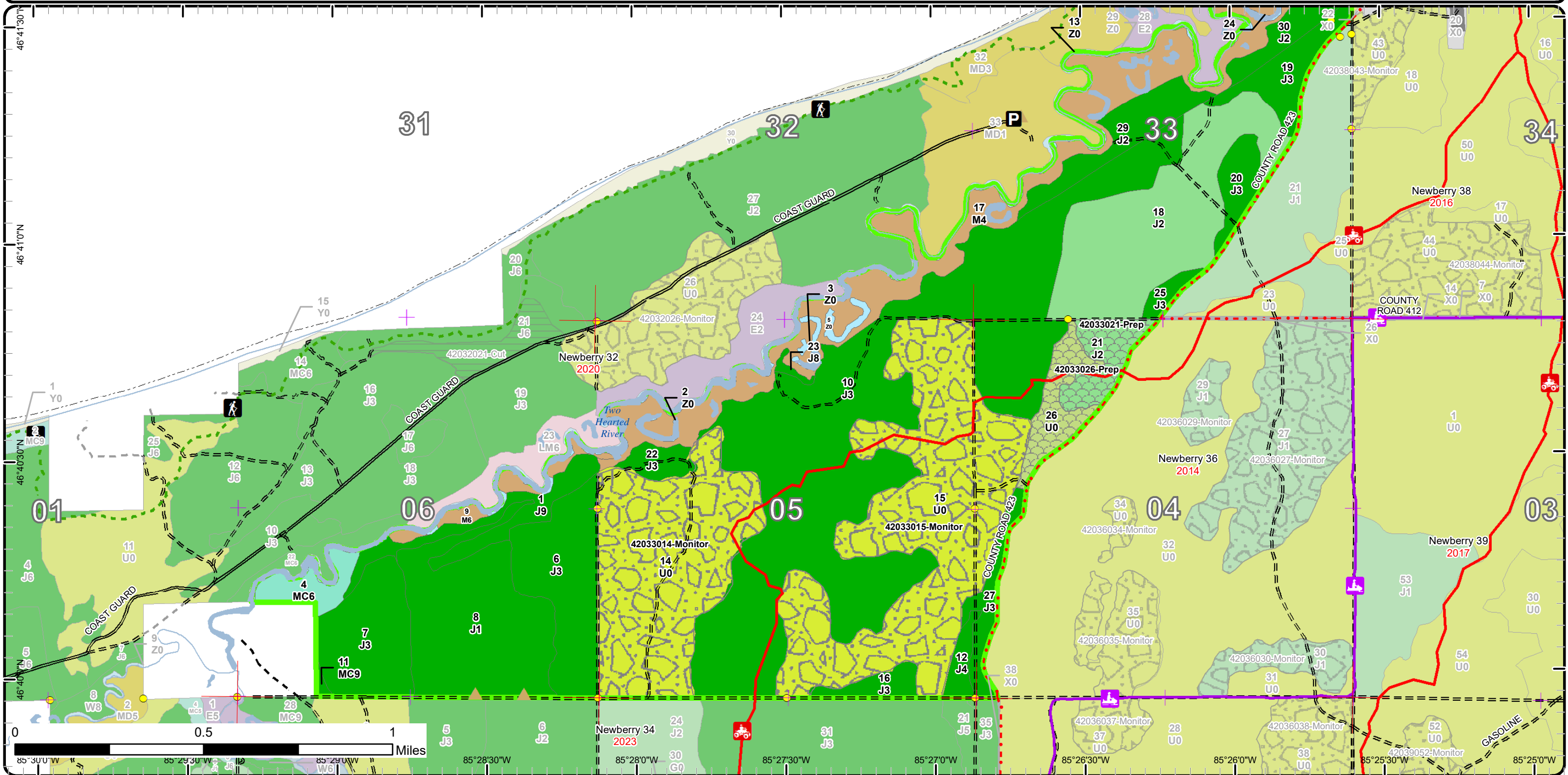


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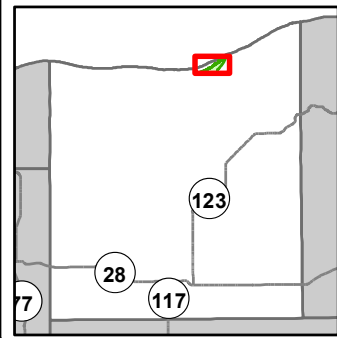


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Stand Boundary Map

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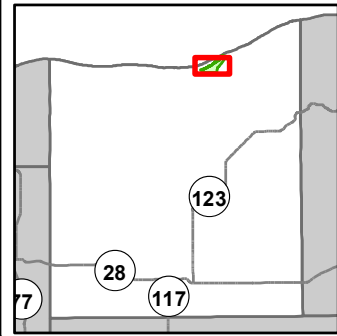


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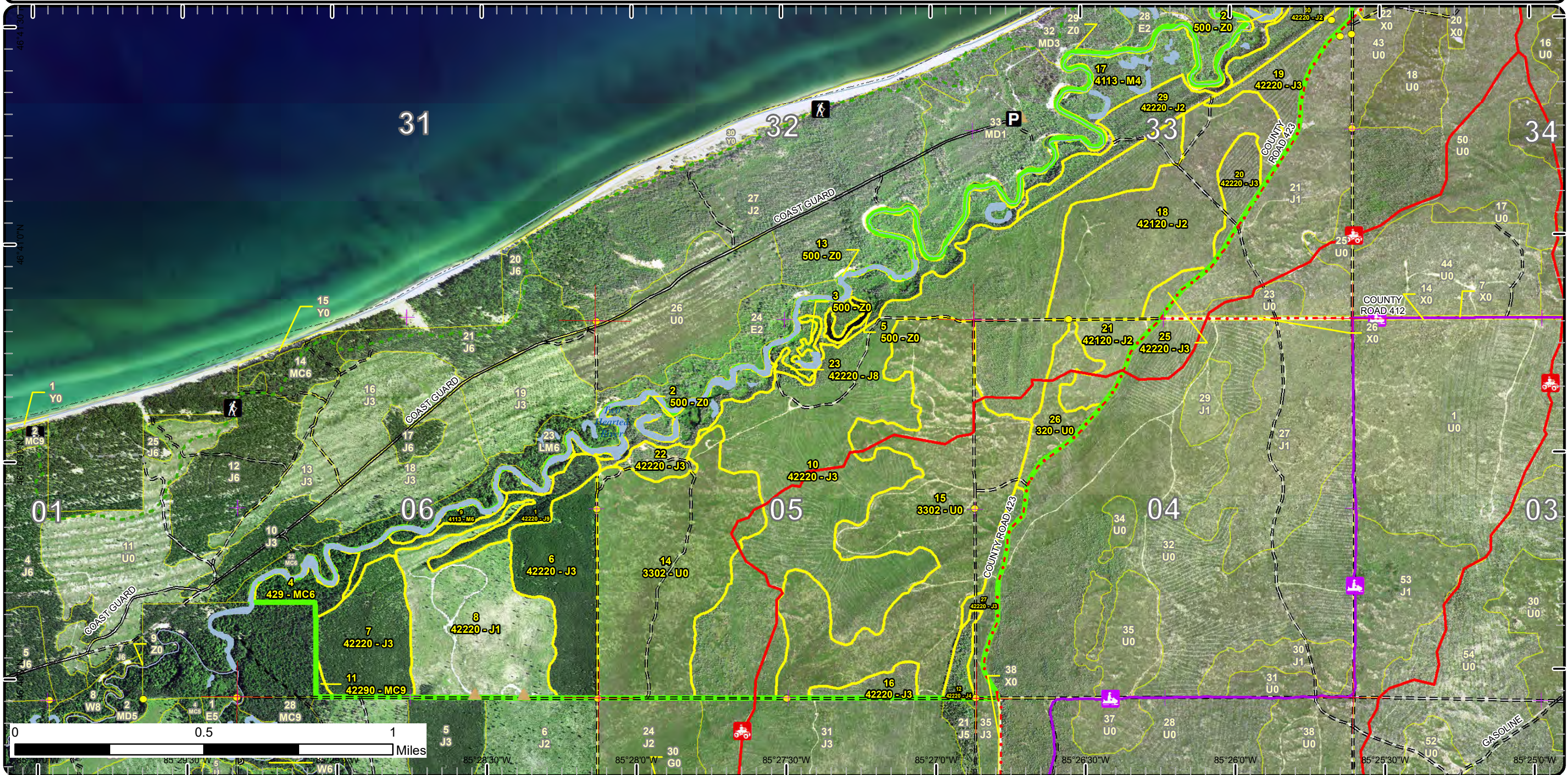


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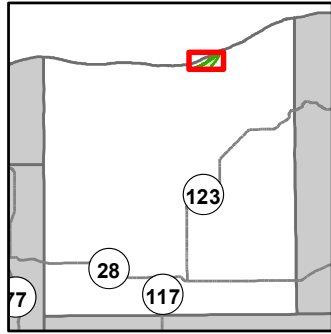


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|--|--------------------------------|-------------------------|
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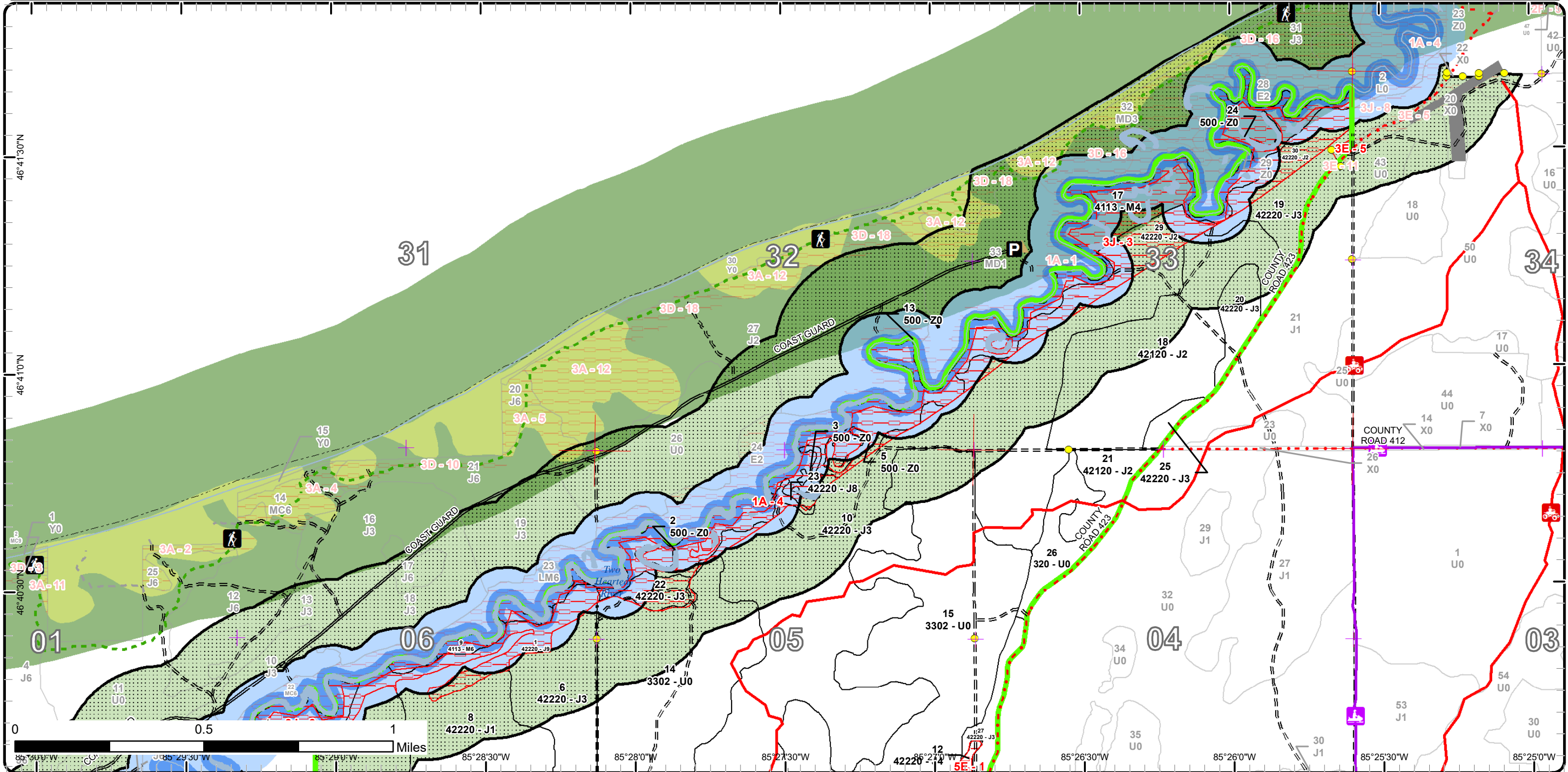


Special Conservation Areas

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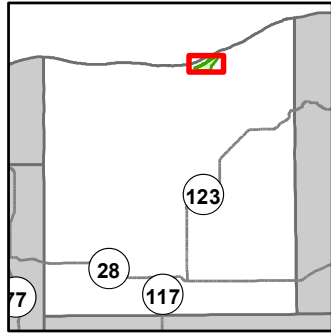


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- Airports
- Compartment Boundary
- Unavailable
- 1A: Federal/State/Local Law
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Critical Dunes
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Critical Coastal Habitat (Piping Plover)
- Recreational/Scenic Value Area

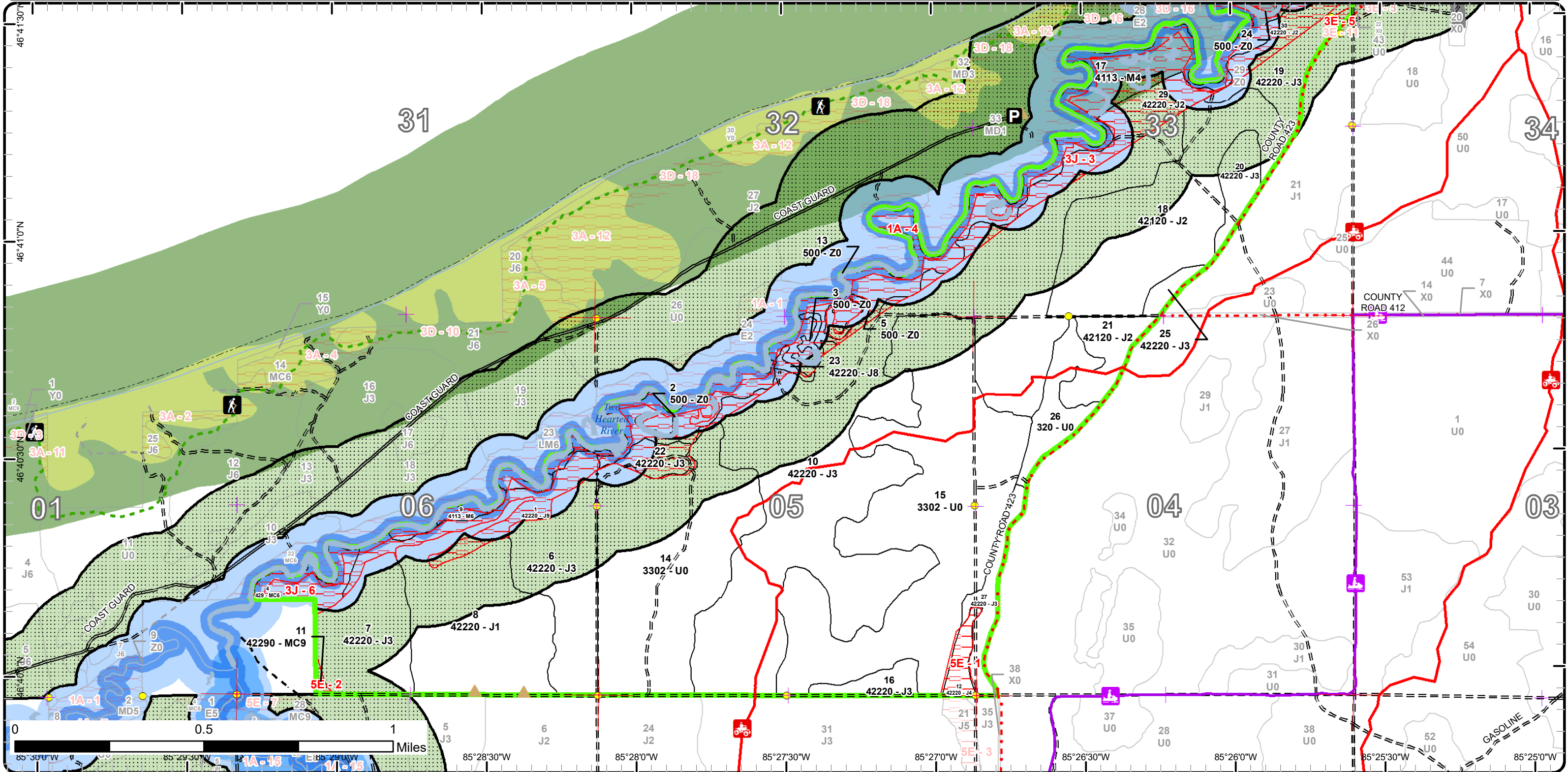


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- Stand Boundaries
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- Critical Dunes
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Critical Coastal Habitat (Piping Plover)
- High Priority Trout Stream Buffer
- Recreational/Scenic 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	652	0	103	0	0	0	0	0	34	0	0	0	0	0	0	0	0	789
Low-Density Trees	330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	330
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Northern Hardwood	0	0	0	0	0	0	0	0	0	129	0	0	0	0	0	0	0	0	129
Upland Conifers	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Upland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Water	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Total	389	652	0	103	0	0	0	0	0	164	14	0	0	0	0	0	0	0	1322



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 33
Total Compartment Acres: 1,321

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	42	0	0	0	327	0	0		369
Next Step	0	0	42	0	0	83	0	0		125
Total	0	42	42	0	0	410	0	0		494



Stand Name	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:

14	42033014-Monitor	131.8	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Monitor for adequate regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration species are jack pine, red pine, white pine, and oak.</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 /2020</p>											
15	42033015-Monitor	195.2	3302 - Low Density Conifer Trees	Nonstocked		Immature	Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Monitor for adequate regeneration from planting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration species are jack pine, red pine, white pine, and oak.</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 /2021</p>											
21	42033021-Prep	20.0	42120 - Planted Jack Pine	Sapling Medium	6	Immature	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Trench areas of inadequate regeneration in preparation for planting jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Do not trench through ORV trail.</p> <p><u>Comment:</u> This area had some sawfly damage noted in spring/summer 2020. There may be areas of adequate jack pine regen that can be trenched around.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
26 42033026- Prep	21.7	320 - Upland Shrub	Nonstocked		Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Trench site in preparation for planting jack pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Artificial Regen(1yr) <u>Treatments:</u> <u>Acceptable</u> Jack pine <u>Regen:</u> <u>Other</u> Do not trench through ORV trail. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: **368.7**

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 33
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions				
Acres	Available	With Condition	Not Available	1A	3E	3J	5E	
789	693	0	95	Jack Pine	2	1	85	7
330	329	0	1	Low-Density Trees			1	1
1	0	0	1	Natural Mixed Pines				1
129	3	0	126	Northern Hardwood	51		75	
14	0	0	14	Upland Conifers	5		9	
22	22	0	0	Upland Shrub				
37	5	0	32	Water	28		4	
1,321	1,052		269	Total Forested Acres	86	1	173	9
	80%		20%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention area - Duck Lake Salvage sales.							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	138	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Below steep bluff along river corridor.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 33
Year of Entry: 2022



4	Unavailable	1A: Federal/State/Local Law	86	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River 100' zone							
5	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two-Hearted River Airstrip lease							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	35	2F: Too steep	5E: Long-Term Retention	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
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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	Critical Dunes	Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas.
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. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
1	42220 - Natural Jack Pine	Sawtimber Well	25.0	86		N/A	2/25/2016: small portion of stand was treated with stand 8 and has been merged after sale was complete. This is the uncut portion of the stand.																																																				
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3	500 - Water	Nonstocked	2.5	0	Unspecified	No	Old river oxbow.																																																				
4	429 - Mixed Upland Conifers	Poletimber Well	13.9	91	81-110	N/A	Some very old white pine/red pine in here, some are supercanopy sized. Difficult to access stand, steep escarpment to the south, river to the north and PVT land to the south. B.fir, spruce subcanopy is heavy in places, sapling sized. 6/2020: Data confirmed from last entry.																																																				
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7	42220 - Natural Jack Pine	Sapling Well	47.1	27	Immature	N/A	Stand was cut in 1992/93 and scarified in 94, sale#042-92. Fully stocked, thick jack pine regen. Stand is a bit thinner in the far NE end but still fully stocked, a bit less canopy closure. Scattered log sized red and white pine in canopy.																																																				
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8	42220 - Natural Jack Pine	Sapling Poor	90.7	6	Immature	N/A	Cut in 2014 - New Guy Jack 420131201.10/25/18 - 3yr regen check fully stocked																																																				
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9	4113 - R.Maple, Conifer	Poletimber Well	9.4	81	81-110	N/A	Along river.																																																													
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11	42290 - Natural Mixed Pine	Sawtimber Well	1.3	84	111-140	N/A																																																														
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12	42220 - Natural Jack Pine	Poletimber Poor	7.2	83	1-50	N/A	Duck Lake fire May 2012. Retention area of live trees for DLS #7 sale #42-030-12-01. 6/2020: many JP are standing dead now. Some JP seeding in.																																																													
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13	500 - Water	Nonstocked	27.9	0	Unspecified	No	Two-Hearted River																																																													
14	3302 - Low Density Conifer Trees	Nonstocked	133.7		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. Salvage cut 2012 DLS #7 sale #42-030-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-823. Failed 1st year regen survey. Replanted by hand in spring 2014. Failed regen survey in 2016 - 396 trees/acre (338 planted/33 volunteers). Per TMS - trench before planting again. FTP 42-823: Trenched in 2017; planted to JP 5/16/18 (1063 TPA plot data). 6/2020: Fully stocked. Low mortality. Less than 25% older JP from previous plantings (~3-4' tall).																																																													
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15	3302 - Low Density Conifer Trees	Nonstocked	196.3		Immature	4212 - Planted Jack Pine	Regen Check: 10/14/2019 - planted JP 750 average. Ranges of 500 - 800 TPA with pockets of 900TPA. Spots of mortality and defoliation. Passed. 5/17/19 Planted 987 trees/ac. 1091 trees/ac plot data, 987 trees/ac linear data. Stand planted with a mixture of bare root stock from Wyman and PRT plugs (38,400 plugs planted). Duck Lake fire May 2012. Salvage cut 2012 DLS #7 sale #42-030-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-822. Replanted in spring 2014 with some KW funding; no trenches. Regeneration check 5/2016: 659 trees/acre (347 planted/312 volunteers). Regeneration check 12/16: 117 trees/acre (86 planted/31 volunteer). Volunteers more on edges where wood was salvaged. Regen survey summer 2017: 323 Trees per acre. FTP 42-822: Trenching complete 8/22/18. To be planted in spring 2019. 6/2020: less than 25% of JP from previous plantings (~6-10' tall).					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	High	< 5 feet	Seeding	
								Jack Pine	Low	Variable	Sapling	
								Red Maple	Low	Variable	Sapling	
16	42220 - Natural Jack Pine	Sapling Well	10.2	9	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #7 sale #42-030-12-01. 6/2020: fully stocked. Thick in spots. JP ~6-10' tall.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	100	Sapling	1	9
17	4113 - R.Maple, Conifer	Poletimber Poor	119.6	81	1-50	N/A	Duck Lake fire May 2012. Some areas of live trees along river. Parts are non-forested.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Ash	10	Pole	8	
								Balsam Fir	20	Pole	8	
								Red Maple	70	Pole/Log	8	81
Sub-Canopy Species	Density	Avg. Height	Size									
Tag Alder	Medium	5 - 10 feet	Tall Shrub									
18	42120 - Planted Jack Pine	Sapling Medium	108.0	6	Immature	N/A	06/12/18- JP TPA= 646, Fully stocked plantation. Duck Lake fire May 2012. Salvage cut 2012 DLS #7 sale #42-030-12-01. Roller chopped in 2014, Planted in 5/2015. Passed 1 year regen check spring 2016 - 537 trees/acre (335 planted/201 volunteers). 2017: Partial replant/interplant of 10 acres in NE corner of stand to plant excess trees on the last day of planting 5/16/17. FTP 42-855. 6/2020: seeing some top needles removed. JP ~6 tall.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	100	Sapling	1	6
19	42220 - Natural Jack Pine	Sapling Well	22.6	9	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #7 sale #42-030-12-01. Regen counts in 2015 averages 1600 trees/acre.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	100	Sapling	1	9
20	42220 - Natural Jack Pine	Sapling Well	14.3	9	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #7 sale #42-030-12-01. Regen count in 2015 averaged 2000 trees/acre.6/2020: thick JP regen					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	100	Sapling	1	9



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	42120 - Planted Jack Pine	Sapling Medium	20.0	6	Immature	N/A	Duck Lake fire May 2012. Roller chopped in 2014. FTP C42-856. Planted spring 2015. Regen check in 2015 - 475 trees/acre (263 planted/212 Volunteers). 06/12/18- JP TPA is 1100, Fully stocked. 6/2020: moderately stocked JP ~6-10' tall. Exhibiting some top needles removed.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		99	Sapling	1	6		
Red Maple		1	Sapling	1			
22	42220 - Natural Jack Pine	Sapling Well	9.1	9	Immature	N/A	Duck Lake fire May 2012. Some areas of live trees along river corridor. Fully stocked. Between 75-100% and 50-75% canopy closure. JP ~ 5' tall.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	1	9		
23	42220 - Natural Jack Pine	Sawtimber Medium	1.7	81	1-50	N/A	Duck Lake fire May 2012. Some areas of live trees along river.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		5	Log	12			
Red Pine		15	Log/Pole	10			
Jack Pine		80	Log/Pole	10	81		
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Low	5 - 10 feet	Sapling			
24	500 - Water	Nonstocked	1.6		Unspecified	No	Stand seasonally holds water. Is an old oxbow from the the old Two Hearted River corridor.
25	42220 - Natural Jack Pine	Sapling Well	5.6	9	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #7 sale #42-030-12-01. Regen check in 2015 showed over 3900 trees/acre. Variable densities. Plots ranged from 0-170. 6/2020: fully stocked JP ~6' tall.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		98	Sapling	1	9		
Red Maple		2	Sapling	1			
26	320 - Upland Shrub	Nonstocked	21.8		Unspecified	4212 - Planted Jack Pine	Duck Lake fire May 2012. Not much regen in this stand, except for a few JP and red maple saps mainly on north end.
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		Trace	5 - 10 feet	Sapling			
Red Maple		Trace	5 - 10 feet	Sapling			
27	42220 - Natural Jack Pine	Sapling Well	16.2	9	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #7 sale #42-030-12-01. Regen check in 2015 showed over 3900 trees/acre. Variable densities. Plots ranged from 0-170. 6/2020: fully stocked JP ~6' tall.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		98	Sapling	1	9		
Red Maple		2	Sapling	1			
29	42220 - Natural Jack Pine	Sapling Medium	26.0	9	Immature	N/A	Duck Lake fire May 2012. 6/2020: First shelf below bluff. Standing dead snags.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		80	Sapling	1	9		
Red Maple		10	Sapling	1			
Paper Birch		10	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	42220 - Natural Jack Pine	Sapling Medium	16.9	9	Immature	N/A	Duck Lake fire May 2012. First shelf below bluff. Standing dead snags.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	75	Sapling	1	9
Red Maple	10	Sapling	1	
Paper Birch	15	Sapling	1	