



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42032

Entry Year 2020

Acreage: 1,389

County Luce

Management Area: Deer Park

Revision Date: 2018-08-22

Stand Examiner: Amy Douglass

Legal Description:

T49N R10W Section 1, 2 & 12; T49N R09W Section 5 & 6; T50N R09W Section 27, 28, 31 - 34.

Identified Planning Goals:

Restore forested cover types burned by the Duck Lake Fire in 2012, naturally or artificially, through proper management, while providing for wildlife habitat and recreational opportunities. Maintain or enhance cover types not burned by the fire to provide sustainable timber, wildlife habitat and recreational resources. Promote multiple aged and diversified tree species where possible to reduce forest pest impacts and improve conditions for wildlife species.

Soil and topography:

Short rolling hills, oriented west to east. Extremely steep open sand and timbered slopes (critical dune areas). Deer Park sand prevalent. Steep high river banks with occasional exposed sand slopes adjacent to the Two Hearted River.

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

For the most part, contiguous state ownership is adjacent to the compartment. Private ownerships border the compartment in section 1 and along Lake Superior. There is heavy use of the area during fishing and hunting seasons, as well as for berry picking and Lake Superior access. ORV use (mainly side by sides) is fairly regular during the snow-free seasons due to the extremely sandy roads.

Unique Natural Features:

Critical dunes throughout the compartment adjacent to the Lake Superior. Two Hearted Natural River.

Archeological, Historical, and Cultural Features:

SHPO has identified a site within or adjacent to this compartment.

Special Management Designations or Considerations:

No cutting will occur within the critical dune areas. The Two Hearted River Natural River Plan will be followed for any activities.

Watershed and Fisheries Considerations:

Fisheries Values: Excellent.

The Two-Hearted River is classified as a Natural River, with special management zones. The brook trout population is excellent and is naturally produced. In addition, Fisheries Division stocks steelhead annually, which also spawn in the River when they return from Lake Superior. The River and its tributaries all also support natural populations of chinook, coho, and pink salmon, as well as brown trout. All prescribed treatments should follow the restrictions within each management zone identified in the Natural River Plan.

Wildlife Habitat Considerations:

Compartment 32 lies in northern Luce county in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and lies in the Deer Park Management Area. Featured species for the compartment include Kirtland's warbler, red crossbill, American marten, and piping plover. The Lake Superior shoreline makes up the northern boundary and the Two Hearted River lies along the southern boundary. The Two Hearted River provides an excellent travel corridor for wildlife use. The compartment is dominated by jack pine stands of various age classes. A few mixed conifer stands and lowland stands border the Two Hearted River and increase diversity of the compartment slightly.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. Some mature jack pine will be left in the compartment for age class diversity. Opportunities for within stand diversity in this compartment are limited and will consist mainly of retaining white pine in harvested jack pine stands where it exists. Wildlife species potentially using this compartment include white-tailed deer, black bear, coyote, fisher, otter and mink.

Mineral Resource and Development Concerns and/or Restrictions

Sand/ gravel pits are not located in the area, but there may be some sand potential within the compartment. There is no known metallic mineral potential in this area, and there is no potential for economical production oil and gas in the UP.

Vehicle Access:

Vehicle access is very poor overall due to the extreme loose sand roads. Four wheel drive is required for most stretches of road. Logging activity is best accomplished during early spring or late fall/early winter due to the extremely poor sand roads.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

Reed and Green State Forest Campground is adjacent to the west and Two Hearted River Mouth State Forest Campground is adjacent to the east. The North Country Trail follows the Lake Superior shoreline, bypassing private property where needed.

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 in this compartment and private property or State facilities in neighboring compartments would be high. Access for some heavy equipment will be limited because of the loose sand composition. The east half of the compartment was burned during the Duck Lake Fire in 2012.

Additional Compartment Information:

A re-route of the North Country Trail will be taking place to move the trail off of the Coast Guard Road. The trail will follow around private property and to the Lake Superior shoreline; an approximate 1.5 mile re-route.

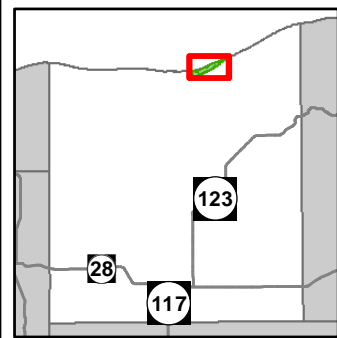
The following reports from the Inventory are attached:

- 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:

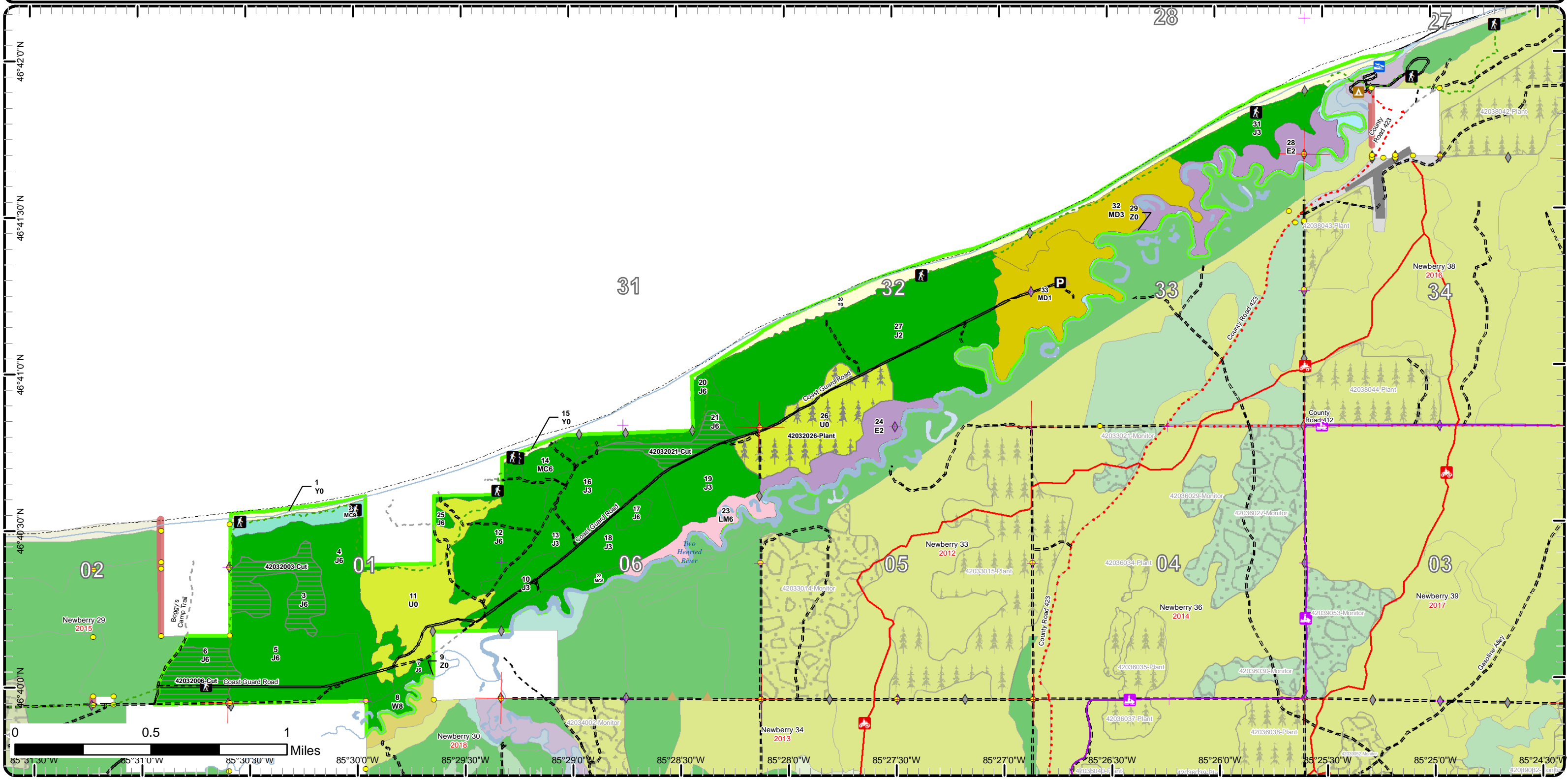
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

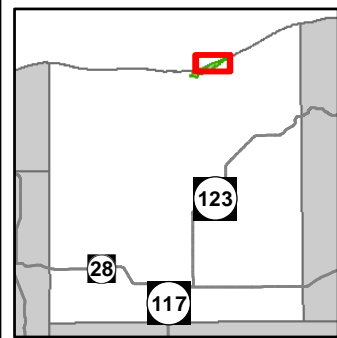


Compartment: 32
 T50N, R09W, Sec. 27, 28, 31-34
 T49N, R09W, Sec. 5, 6
 T49N, R10W, Sec. 1, 2, 12
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2020
 Acres: 1,389 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 4/23/2019
 Map Phase: Post-Review

- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field 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
- Boating Access Site
- Campground
- Parking Lot
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Airports
- Compartment Boundary
- Planting (tree species)
- Clearcut (w/Reserves)
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 500 - Water
- 710 - Sand/Soil
- Lakes

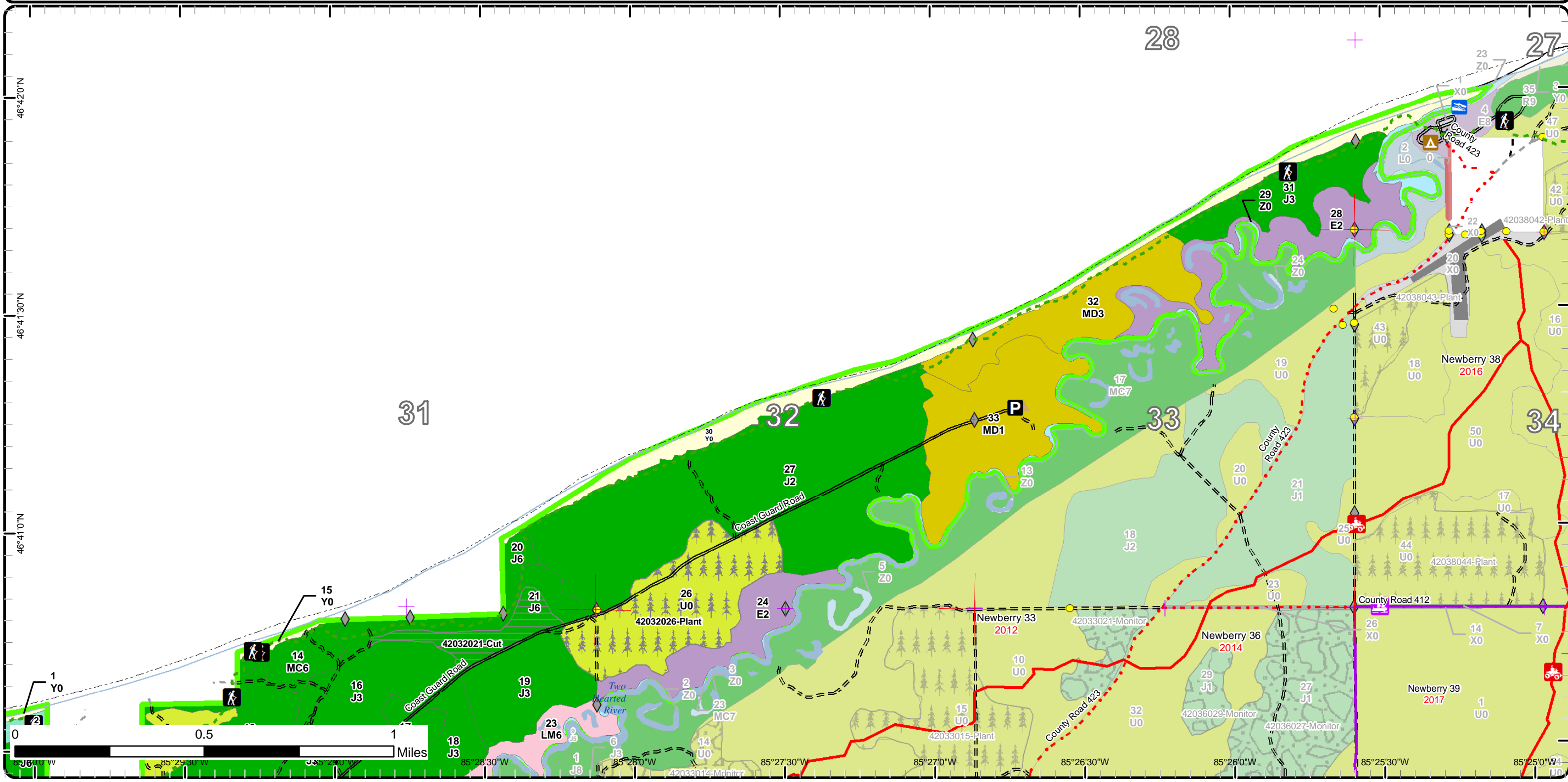


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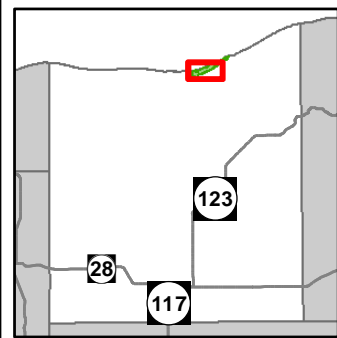


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| <ul style="list-style-type: none"> — Miris Corners ⊕ Remonumented Section Corners ● Survey Grade Corners ◆ Field Grade Corners ▭ Counties == DNR - Secondary Forest Road == DNR - Forest Access Route - - Federal / State - Dirt / Gravel Road - . - County - Gravel Road - - Private - Dirt / Gravel Road 🚶 Hiking Trails 🛵 ORV Trails | <ul style="list-style-type: none"> 🏠 Snowmobile Trails - - Designated Hiking Trails — Designated ATV — Designated Snowmobile Trails 🏕 Berms 🚤 Boating Access Site 🏕 Campground 🅑 Parking Lot — Lake/Pond — Perennial River — Shoreline — Lakes and Rivers All ✈ Airports | <ul style="list-style-type: none"> ▭ Compartment Boundary ▭ Planting (tree species) ▭ Clearcut (w/Reserves) 419 - Mixed Upland Deciduous 422 - Natural Pines 429 - Mixed Upland Conifers 611 - Lowland Deciduous Forest 613 - Lowland Mixed Forest 330 - Low Density Trees 500 - Water 710 - Sand/Soil — Lakes |
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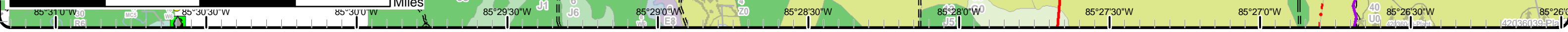
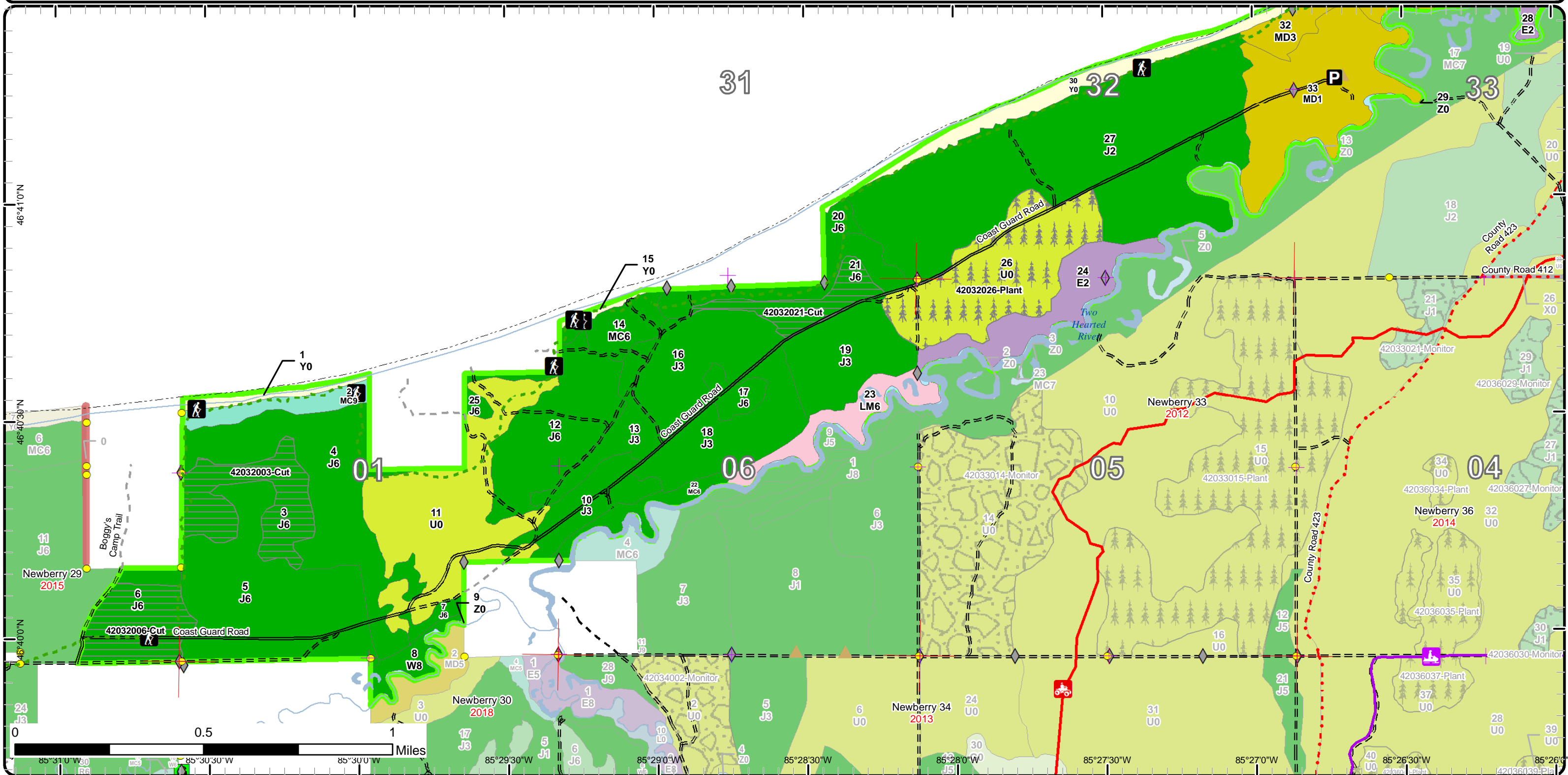


Cover Type & Treatments Map



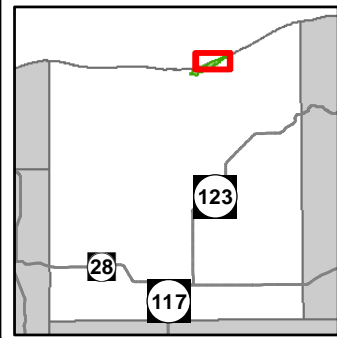
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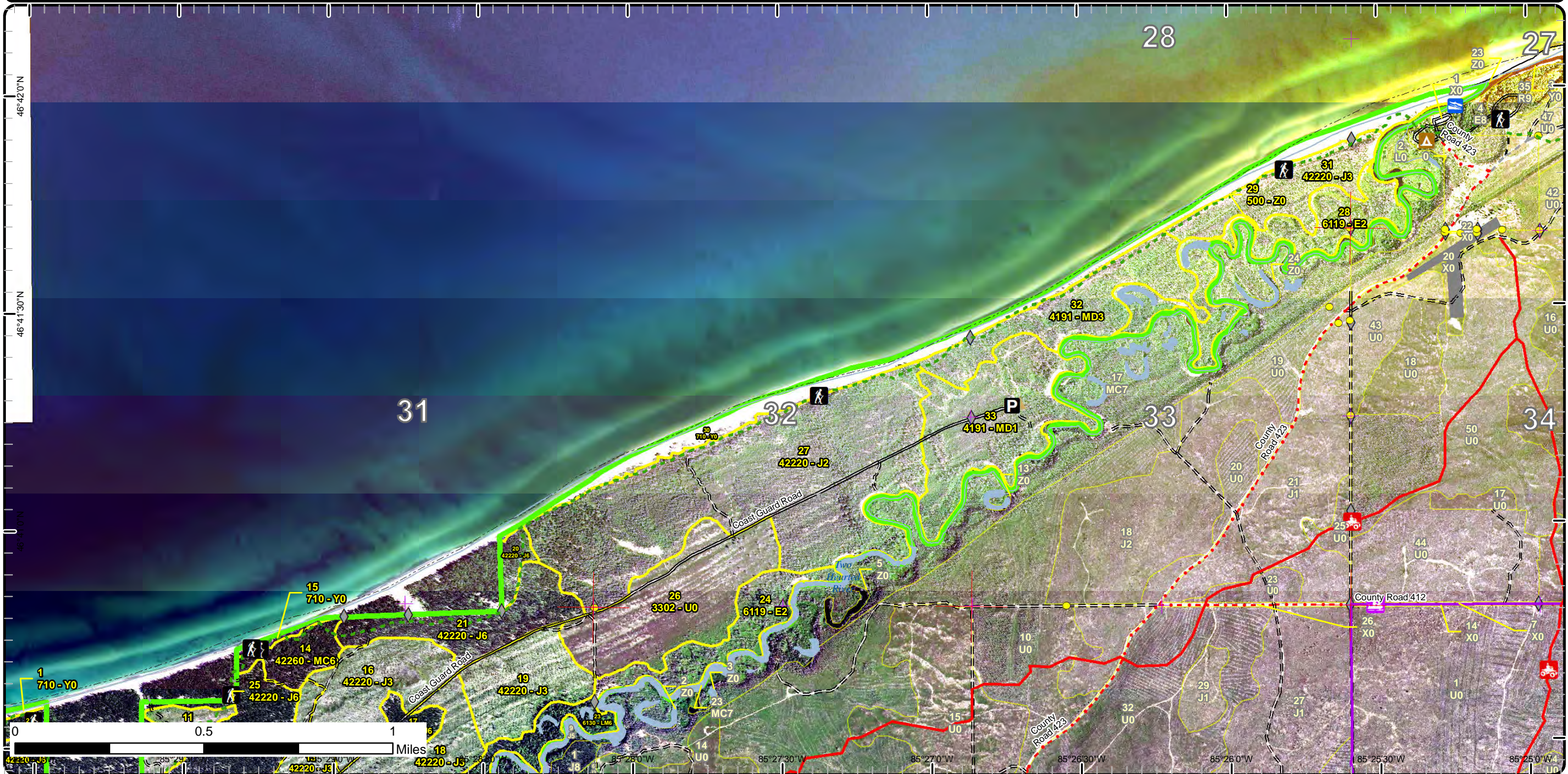


Stand Boundary Map

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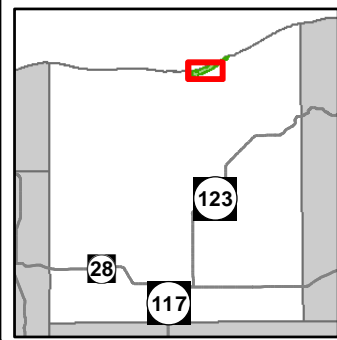


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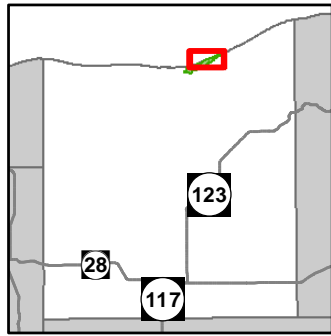
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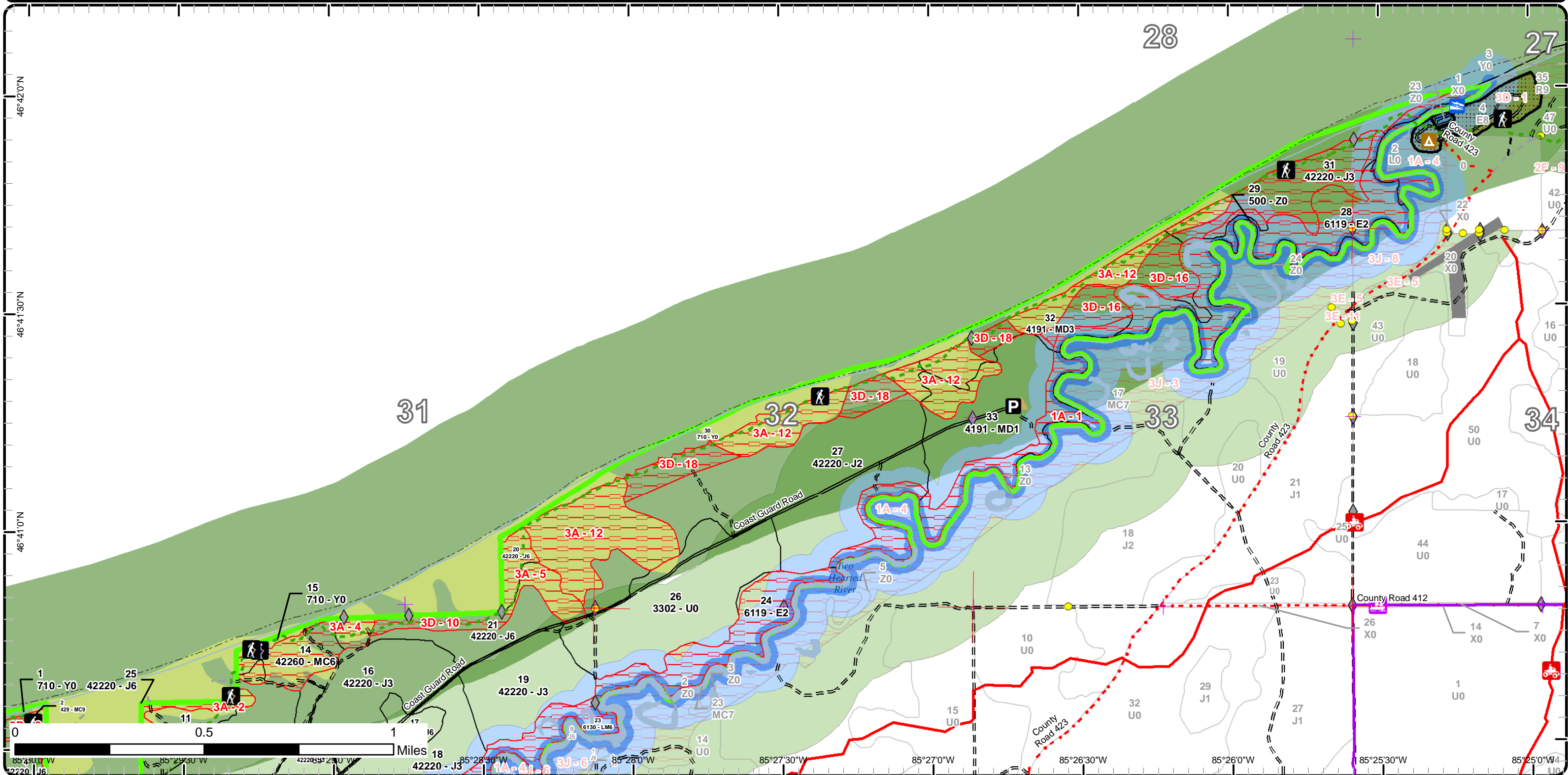


Special Conservation Areas & Site Conditions Map

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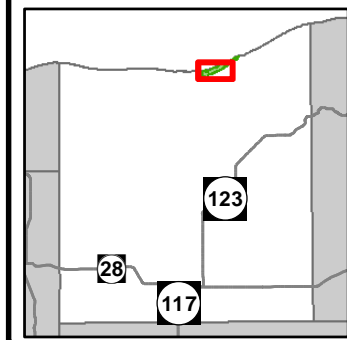


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|---|---|---|

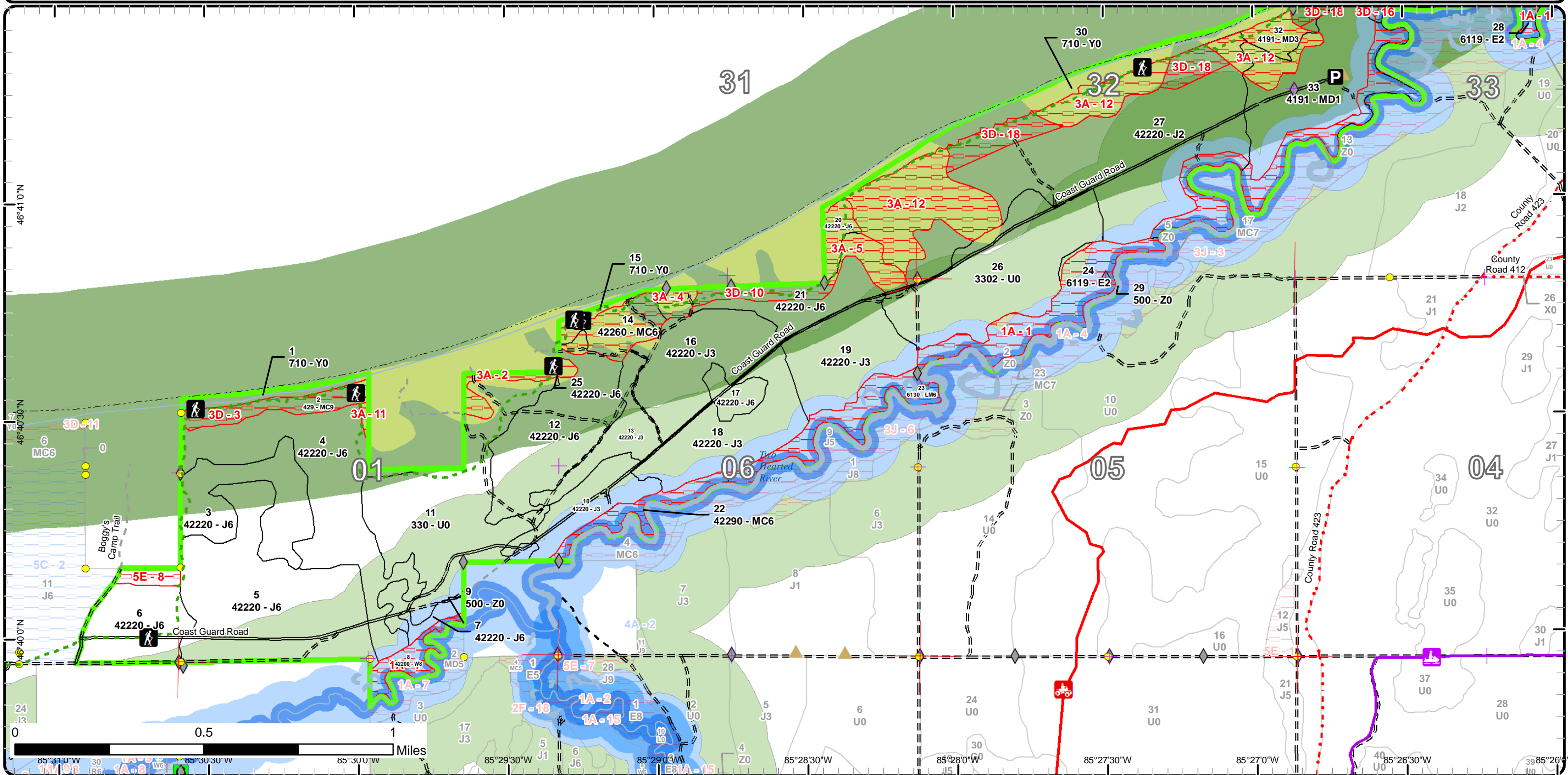


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- Compartment Boundary
- Unavailable
- 1A: Federal/State/Local Law
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- Critical Dunes
- Natural Rivers Vegetative 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

Newberry Mgt. Unit

Compartment 32

Year of Entry 2020

Amy Douglass : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Jack Pine	0	316	91	0	97	82	98	0	125	0	8	0	0	0	0	0	0	0	817
Low-Density Trees	167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	167
Lowland Deciduous	0	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
Mixed Upland Deciduous	0	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	12	30
Sand, Soil	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Upland Conifers	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	15
Water	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Total	282	534	91	0	97	82	98	0	125	18	23	0	0	0	0	0	0	43	1393



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 32
Total Compartment Acres: 1,389

Commercial Harvest - 92
 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		92	0	0	0	0	0	0	0	0	92
	Total	92	0	0	0	0	0	0	0	0	92

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		92	0	77	0	0	0	0	0	0	169
Next Step		0	184	92	0	0	429	0	0	0	705
	Total	92	184	169	0	0	429	0	0	0	874



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
3	42032003-Cut	39.6	42220 - Natural Jack Pine	Poletimber Well	73	Unspec ified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut jack pine, leaving red pine and white pine, if present. Patch retention 3-5%.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial
Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Jack pine with scattered red pine and/or white pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

6	42032006-Cut	33.2	42220 - Natural Jack Pine	Poletimber Well	73	Unspec ified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut jack pine, leaving red pine and white pine. Retention to be left along newly re-routed NCT at north end (as shown on map).

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial
Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Jack pine with some red pine and white pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

21	42032021-Cut	19.1	42220 - Natural Jack Pine	Poletimber Well	72	Unspec ified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut jack pine, leaving red pine. Retention areas to be covered by Critical Dune designation and NCT buffer (as shown on map).

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial
Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Jack pine with scattered red pine and/or white pine.

Regen:

Other

Cutting up to the NCT is an option if approved.

Comment:

Proposed Start Date: 10/1 /2019

26	42032026- Plant	76.8	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	Planting	Initial Plant	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Plant newly trenched (failed planting) to jack pine.

Specs:

Next Step Monitoring, Artificial Regen(3yr); Monitoring, Artificial Regen(1yr)
Treatments:

Acceptable Jack pine is acceptable regeneration and any red / white pine or oak.

Regen:

Other

Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2018

**Total Treatment
Acreage Proposed: 168.7**

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 32
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	<i>Acres Avail With Condition</i>	Acres Not Available
815	641	0	175
167	167	0	0
87	1	0	86
22	0	0	22
131	50	0	81
29	0	0	29
70	66	0	4
15	0	0	15
45	22	0	22
9	0	0	9
1,389	946	0	443
	68%	0%	32%

Dominant Site Conditions

				Dominant Site Conditions					
				5C	1A	3A	3D	5E	
815	641	0	175	Jack Pine	0	15	97	58	5
167	167	0	0	Low-Density Trees		0	0		
87	1	0	86	Lowland Deciduous		86	0	0	
22	0	0	22	Lowland Mixed Forest		22			
131	50	0	81	Mixed Upland Deciduous		25	30	26	
29	0	0	29	Natural Mixed Pines		12	17		
70	66	0	4	Sand, Soil		4	0	0	
15	0	0	15	Upland Conifers				15	
45	22	0	22	Water		22			
9	0	0	9	White Pine		9			
1,389	946	0	443	Total Forested Acres	0	195	145	99	5
	68%	0%	32%	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	195	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Natural River corridor - at least 100' no cut buffer, plus associated lowlands.							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	5E: Long-Term Retention	3K: Rare or unique landforms	Unspecified	Unspecified
Comments: Critical Dunes designation. Long-term retention for stand 11.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 32
Year of Entry: 2020

3	Unavailable	3D: Recreational / Scenic values	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Along Lake Superior shoreline.							
4	Unavailable	3A: Conservation Values incompatible with harvest at this time	24	3D: Recreational / Scenic values	3J: Water quality / BMPs (stream, river, or lake)	3K: Rare or unique landforms	3I: Historical / archeological (add locked comments)
Comments: Critical Dunes designation. Along Lake Superior shoreline.							
5	Unavailable	3A: Conservation Values incompatible with harvest at this time	16	3D: Recreational / Scenic values	3J: Water quality / BMPs (stream, river, or lake)	3K: Rare or unique landforms	Unspecified
Comments: Critical Dunes designation. Portion is along Lake Superior shoreline.							
8	Unavailable	5E: Long-Term Retention	5	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3D: Recreational / Scenic values	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Buffer along NCT							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	3K: Rare or unique landforms	Unspecified	Unspecified	Unspecified
Comments: Critical Dune designation.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

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12	Unavailable	3A: Conservation Values incompatible with harvest at this time	96	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values	3K: Rare or unique landforms	Unspecified
Comments: Critical Dune designation. Along Lake Superior shoreline. Burned during Duck Lake Fire 2012.							
16	Unavailable	3D: Recreational / Scenic values	52	1A: Federal/State/Local Law	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Last spit of land at the end of Coast Guard Road, between Two Hearted River and Lake Superior. Most falls under Two-Hearted Natural River zone. Burned during Duck Lake Fire 2012.							
18	Unavailable	3D: Recreational / Scenic values	23	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Along Lake Superior shoreline. Burned in Duck Lake Fire 2012.							

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	General Comments:
2	429 - Mixed Upland Conifers	Sawtimber Well	15.1	91	81-110	NCT runs along the lakeshore. Jack pine is large, old, dead and dying. White pine and oak - large. White pine in all size classes. NCT follows road to beach. The lakeshore holds just that bit of moisture to create a diverse stand. Old road with turn around near beach. No ORV issues along the beach at this time (7/25/18).
3	42220 - Natural Jack Pine	Poletimber Well	39.6	73	Unspecified	Jack pine is dying out. Very rolling terrain E-W. Some open ridge tops. Old roads are evidenced within stand. NCT runs N-S along PVT on west side of stand. Occasional RP/WP.
4	42220 - Natural Jack Pine	Poletimber Well	81.8	46	Unspecified	Clearcut in 1972-73. Scarification (FTP 104 V-1) cancelled in 1974 - on site observations indicated that adequate natural regen has already become established. NCT runs N-S along west line against PVT and hits a N-S road just north of the corner. It also runs N-S along east line against PVT and rounds the corner to the east. Old road evidenced through stand. Patches of ground juniper. Semi-open to thick patches.
5	42220 - Natural Jack Pine	Poletimber Well	97.6	55	Unspecified	2018: smaller diameter than adjacent stands 6 & 3. Thick small diameter portions of the stand, varying to more open with 7"-8" diameter. Occasional white pine/red pine. Cut over in 1963 (permit IV) and 1958 (permit #19-56). NCT runs N-S along PVT on west side of stand. 2008: Inclusion of mature jack pine on ridge tops - left as submerch from previous cut? Rolling ridges E-W. Stand just moved into pole size class. South part in Two Hearted Natural River Zone.
6	42220 - Natural Jack Pine	Poletimber Well	38.0	73	Unspecified	2018: NCT to be re-routed to follow old road along north end of stand, just south of PVT. Pretty good E-W valley to the south of the PVT ~2-3 chains. This would make a good break for cutting. Occasional red pine and/or white pine present. 2008: areas of J6 and areas of low stocking. N to NW end of the stand is smaller dbh. S end has prevalent wispy tops from JPBW. N Country Trail. Very SE corner is in HCVA Two Hearted Nat R zone. Hold for one more inventory cycle to avoid green up adjacency issues with the open timber sale to the immediate west.
7	42220 - Natural Jack Pine	Poletimber Well	4.4	36	Unspecified	Clearcut in 1981-82 as part of sale #001-80-01. Scarified in August, 1982 (C42-69). Just coming into pole size.
8	42200 - Natural White Pine	Sawtimber Medium	9.2	61	51-80	2008: White pine pole with scattered large dbh white pine. Associated red maple poles and sapls. Heavy fir sapls 6-10' tall with white pine sapls. Areas of bare sand slopes along high bank of river. HCVA Two Hearted Nat R zone.
10	42220 - Natural Jack Pine	Sapling Well	25.5	36	Unspecified	2018: just coming into pole size. Clearcut in 1981-82 as part of sale #001-80-01. Scarified in August, 1982 (C42-69). 2008: low quality j pine 1-3" dbh with scattered 1 merchantable stick j pine. Part of stand is in HCVA Two Hearted Nat R zone.
12	42220 - Natural Jack Pine	Poletimber Well	57.8	36	Unspecified	2008: low quality j pine 1-3" dbh with scattered 1 merchantable stick j pine. Rolling hills/ridges in N half of stand oriented E-W. Very N end has crit dunes 2018: just coming into pole size. Clearcut in 1981-82 as part of sale #001-80-01. Scarified in August, 1982 (C42-70).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	42220 - Natural Jack Pine	Sapling Well	20.0	9	Immature	Cut (Coast Guard Road JP #016-03-01) and scarified (C42-523) in 2009. Slightly smaller than adjacent stand scarified in 2004.
14	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	17.5	81	81-110	Entire stand is within critical dunes. Jack pine is dying out. Some areas heavier to jack pine and some areas more diverse. NCT follows the lakeshore.
16	42220 - Natural Jack Pine	Sapling Well	48.6	13	Immature	Occasional red pine residual. Cut in 2004 (Jan and Dec) under Coast Guard Road JP #016-03-01. Scarified in 7/04 (eastern portion = Unit 1) and 10/05 (western portion = 1/2 Unit 2) under C42-523. 2008 regen count: unit 1: 556 tr/ac. Regen 2013: Jack pine 805 TPA in unit 2.
17	42220 - Natural Jack Pine	Poletimber Well	9.2	36	Unspecified	Clearcut in 1982 as part of sale #001-80-01. Scarified in August, 1982 (C42-71).
18	42220 - Natural Jack Pine	Sapling Well	44.5	8	Immature	Occasional RP residual and JP saps from original scarification. Cut in 12/03 under Coast Guard Road JP (#016-03-01). Scarified in 7/04 (FTP C42-523). 2008 regen count: unit 3 - 188 tr/ac. Unit 3 planted in spring 2011 after failed scarification, trenched fall 2010 by Holli Forest Products. 2007 regen count 518tr/ac. W part of stand (new units 1-3 under T sale #016-03) units 1, 3 cut 12/03, scarif 7/04. 2008 regen count: unit 1 556 tr/ac. Unit 3 188 tr/ac. E part of stand (new units 4, 5 under T sale #016-03) cut 2004, scarif 10/05. FTP 523. J pine seedlings 6" - 1' high. HCVA Two Hearted Nat. R Zone, N edge of stand is also in piping plover habitat area. Coast Guard Rd. Jack Pine 16-03, Regen 2013: Jack pine 805 TPA in unit 2.
19	42220 - Natural Jack Pine	Sapling Well	42.7	16	Immature	Cut in 12/01 under original Coast Guard Road JP, #015-00-01 (old Unit 4 in original T/S #015-00). Scarified in 8/02 (FTP C42-523). 2007 regen count 518 tr/ac.
20	42220 - Natural Jack Pine	Poletimber Well	7.5	94	Unspecified	Slightly more diverse than adjacent J6 stand. Entire stand is within critical dunes. NCT runs north along the east edge of stand. Open dune on southern tip of stand. Occasional ground juniper.
21	42220 - Natural Jack Pine	Poletimber Well	41.4	72	Unspecified	NCT runs along the north part of stand. Corners are located along PVT. Occasional red pine and ground juniper. Portions of stand are within the critical dunes.
22	42290 - Natural Mixed Pine	Poletimber Well	11.8	67	81-110	2008: Red pine, white pine buffer along Two Hearted River. Inclusions of mature jack pine and white pine. West end of stand has heavy balsam fir understory. Two Hearted Natural River Zone.
23	6130 - Fir, Aspen, Maple	Poletimber Well	22.0	61	81-110	Small jack pine, white pine, red pine inclusions along bank top, left as buffer. Red maple, balsam fir, tag alder in river bottom. Old oxbow inclusions. Two Hearted Natural River Zone.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	33.7	6	Immature	The entire stand was burned in the Duck Lake Fire in May of 2012. Timber was burned. No salvage due to river corridor. Burned timber is now mostly standing snags. Old oxbow inclusions.
25	42220 - Natural Jack Pine	Poletimber Well	5.7	73	Unspecified	Stand falls in Critical Dunes. Older JP on steep topography. Stand was not treated with nearby sale because of designation and the related topography.
27	42220 - Natural Jack Pine	Sapling Medium	213.7	6	Immature	Several old stands lumped together after the fire. Fairly open with JP and occasional oak, white birch, red maple. Patchy JP regen. On edge of 50% canopy closure. JP 3-5' tall. Small inclusion of live JP poles along road. The entire stand was burned in the Duck Lake Fire in May of 2012. Timber was burned and too difficult to salvage due to sandy nature of the area as well as the steep and varied topography. Burned timber is now mostly standing snags. Timber prior to fire was mainly jack pine of various age classes with red pine inclusions. Regeneration survey in 2014 showed many areas with jack pine, some areas with red pine, with some areas also mixed with oak and birch. Areas with steep ridges and portions with critical dune designation. Piping plover habitat along the lakeshore. NCT follows the lakeshore. 7/25/18: Posted "No ORV" signs on sand hill climb just north of new trenches (std 26).
28	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	53.0	6	Immature	The entire stand was burned in the Duck Lake Fire in May of 2012. No salvage due to river corridor. Stand is lowland with upland and contains many old oxbows. Burned timber is now mostly standing snags.
31	42220 - Natural Jack Pine	Sapling Well	37.3	6	Immature	JP is ~3-6' tall; oak ~5-10' tall. The entire stand was burned in the Duck Lake Fire in May of 2012. Timber was burned and too difficult to salvage due to sandy nature of the area as well as the steep and varied topography. Burned timber is now mostly standing snags. Timber prior to fire was mainly jack pine of various age classes with red pine inclusions. Regeneration survey in 2014 showed many areas with jack pine, some areas with red pine, with some areas also mixed with oak and birch. Areas with steep ridges and portions with critical dune designation. Piping plover habitat along the lakeshore. NCT follows the lakeshore.
32	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	53.5	6	Immature	Not quite as thick as adjacent stand to the east. Areas heavier to JP. Large, steep dunes. JP 3-6' tall; WB and oak 10-20' tall. The entire stand was burned in the Duck Lake Fire in May of 2012. Timber was burned and too difficult to salvage due to sandy nature of the area as well as the steep and varied topography. Burned timber is now mostly standing snags. Timber prior to fire was mainly jack pine of various age classes with red pine inclusions. Regeneration survey in 2014 showed many areas with jack pine, some areas with red pine, with some areas also mixed with oak and birch. Areas with steep ridges and portions with critical dune designation. Piping plover habitat along the lakeshore. NCT follows the lakeshore.

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Newberry Mgt. Unit

Report 7 – Forested Stands

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	77.2	6	Immature	Open JP with clumps of oak, red maple and white birch. Too hilly to trench. Patchy regen. Occasional BT aspen. On the cusp of 50% crown closure. This stand had been cut in 1985. The entire stand was burned in the Duck Lake Fire in May of 2012. Timber was burned and too difficult to salvage due to sandy nature of the area as well as the steep and varied topography. Burned timber is now mostly standing snags. Timber prior to fire was mainly jack pine of various age classes with red pine inclusions. Regeneration survey in 2014 showed many areas with jack pine, some areas with red pine, with some areas also mixed with oak and birch. Areas with steep ridges and portions with critical dune designation. Piping plover habitat along the lakeshore. NCT follows the lakeshore.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	710 - Sand, Soil	7.9	No	Lake Superior beach.
9	500 - Water	2.8	No	Two Hearted River
11	330 - Low-Density Trees	90.1		2018: Stand was treated with TSale# 420341001 - CG Cement Corners Jack Pine TCR 6/23/15. Site was scarified in summer of 2015 (42-772). Carsonite markers mark the NCT through the stand. JP is 6" to 1' tall. 2008: short, rolling ridges running E-W throughout the stand. NCT runs through stand. S1/2 of stand is in HCVA Two Hearted Nat R zone.
15	710 - Sand, Soil	2.7	No	Lake Superior shoreline.
26	3302 - Low Density Conifer Trees	76.8		The entire stand was burned in the Duck Lake Fire in May of 2012. This portion was harvested before the fire in 2004-05 & 2008, under Coast Guard Road JP, #016-03-01 (units 4 & 5), scarified in 10/05 & 9/09. It was planted after the fire in 2015, no trenches. Failed regen survey in 2016 - 177 trees/acre (160 planted/17 volunteers/8 oak). Per TMS - trench and plant. Trenched 6/15/2018. FTP 42-824.
29	500 - Water	41.8	No	Two Hearted River
30	710 - Sand, Soil	58.9	No	Lake Superior shoreline.