



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42038

Entry Year 2026

Acreage: 2,397

County Luce

Management Area: Grand Marais Moraine Complex

Stand Examiner: Amy Livermore

Legal Description:

T50N, R09W, Sections 23-27, 34-36; T50N, R08W, Section 30

Identified Planning Goals:

Restore overstory species of jack pine and/or red pine, naturally or artificially, within the Duck Lake Fire area, through proper management, while providing for wildlife habitat and recreational opportunities.

Soil and topography:

Rubicon sand and Deer Park sand dominate the compartment. Topography ranges from level to rolling to steep dunes along Lake Superior shoreline and rivers. River bottoms are comprised of Croswell, rarely flooded-Deford, frequently flooded complex; and Carbondale, Lupton, and Tawas soils.

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

State lands border the west, south and east. Private land borders the north surrounding Little Lake. Three private 40's are within the compartment boundary. The whole compartment and surrounding area were burned in the Duck Lake Fire of 2012. This is the northeastern reaches of the fire. Numerous camps were burned or damaged and are currently being rebuilt. Rainbow Lodge was destroyed by the fire, but a couple cabins survived and canoe rental continues. Three Encroachment Resolution Initiative (ERI) trespasses were resolved in the area. There is a group trying to restore the old airstrip for recreational use.

Unique Natural Features:

Eagles and satiny willow have been observed. Piping plover habitat and high priority trout stream are within the compartment.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

A Luce County Lease forty included within the compartment. The Two-Hearted River is a designated natural river; critical dunes and piping plover habitat parallel the Lake Superior shoreline.

Watershed and Fisheries Considerations:

The Two Hearted River borders the northwest corner of this compartment, while the Little Two Hearted River flows through and borders the eastern portion. Both rivers receive a run of steelhead in the spring, while extremely popular run of Coho salmon occurs in the fall on the Two Hearted River. The Two Hearted River is a Natural River. Brook trout are present in the Little Two-Hearted River, but most likely only use this reach of the river during cooler time periods. For stand 31, in accordance with BMPs, a minimum 100-foot, plus 5 feet per 1% increase in slope, riparian management zone is recommended along the Little Two Hearted River.

Wildlife Habitat Considerations:

Compartment 38 lies along the Lake Superior shoreline and is in the Grand Marais Moraine Complex Management Area. The compartment has been nearly entirely burned in the recent Duck Lake fire and has undergone substantial widespread changes in habitat characteristics. The landscape in the compartment is largely set back to earlier successional stages and focus for this compartment is on regeneration of stands.

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 occurrences of commercial deposits of metallic or critical minerals in this area. No active sand/gravel pits are known to exist in the area. There may be some potential for sand (and perhaps limited amounts of gravel) within the compartment on the uplands, but the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much economic value beyond limited use by the county road commission, logging companies, or DNR for local road maintenance. No current State mineral leasing activity exists in the area.

Vehicle Access:

Access to the area is good. County Road 423 dead-ends at the mouth of the Two-Hearted River. County Road 412 runs along the southern edge and eastern portion of the compartment. These roads are accessed via County Road 500 and County Road 414. There are some sandy two-tracks that also bisect the compartment.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The North Country National Scenic Trail (hiking), snowmobile trail #8 and the Two-Hearted ORV Trail run through the compartment. Two-Hearted State Forest Campground and boat launch is located near the river mouth.

Fire Protection:

Area is in the Two Hearted Zone Dispatch Area. Fires had the potential to become large because of the large acreage of Jack Pine, as witnessed by the Duck Lake Fire in May 2012. The scattering of different age classes in the Jack Pine, simulating fuel breaks, may need to be restored over the years to help suppression efforts. The accessibility for fire suppression is good because of the sandy soils.

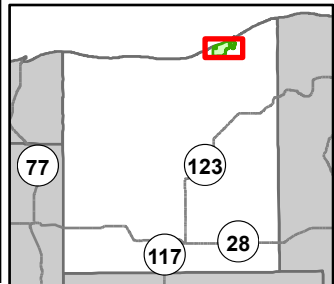
Additional Compartment Information:**The following reports from the Inventory are attached:**

- 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**

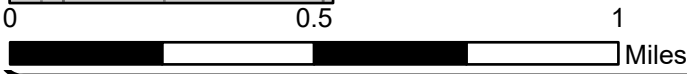
The following information is displayed, where pertinent, on the attached compartment maps:

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

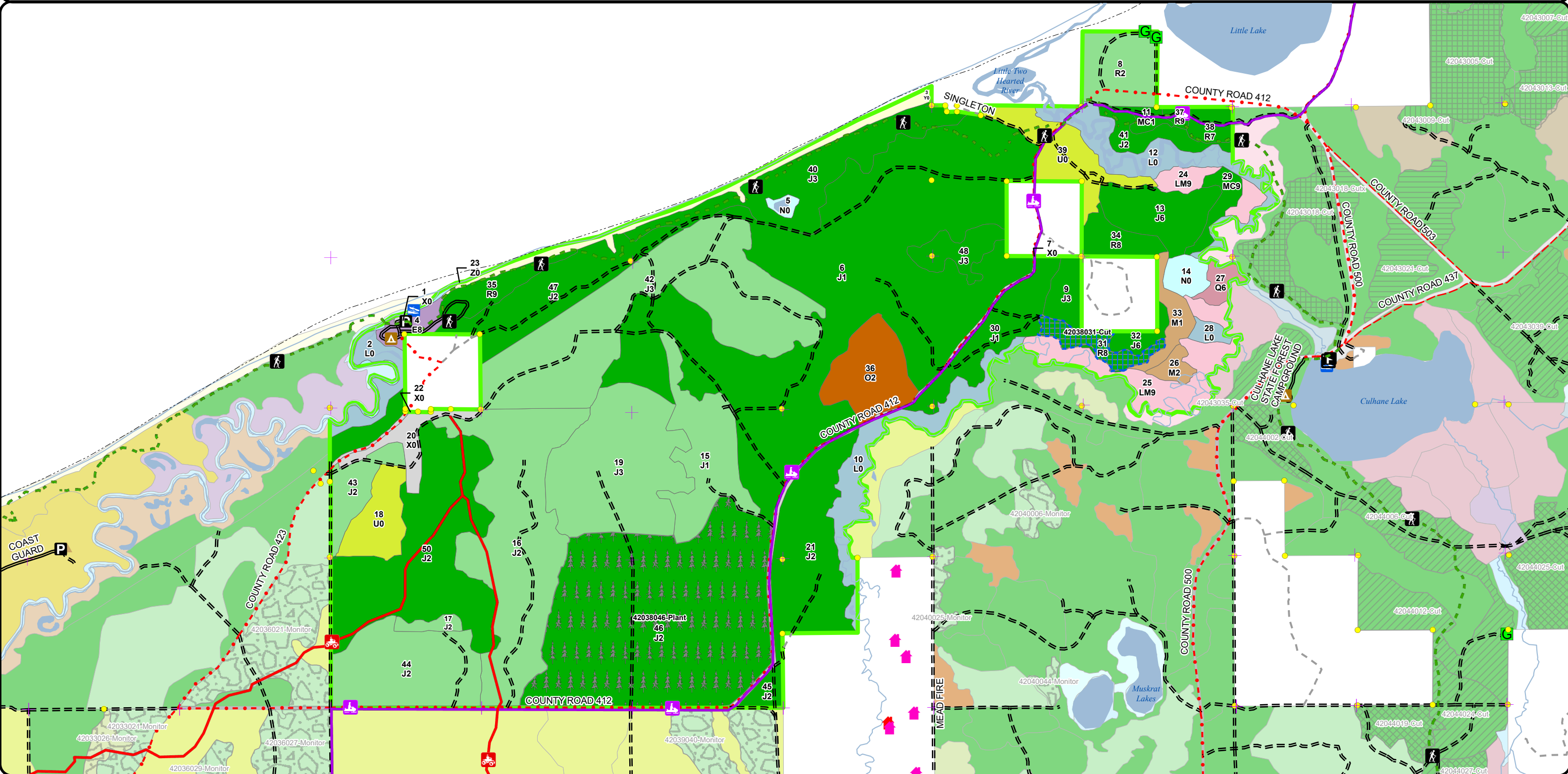
Cover Type & Treatments Map



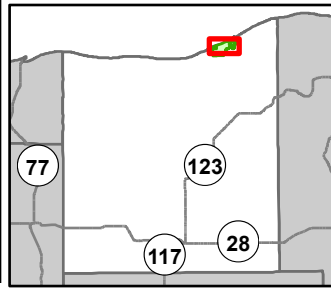
Compartment: 42038
 T50N, R09W, Sec: 24-27, 34, 35
 County: Luce
 Unit: Newberry
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2026
 Acres: 2396.6 GIS Calculated
 Examiner: Amy Livermore
 Map Revised: 08/23/2024
 Map Phase: Web Post



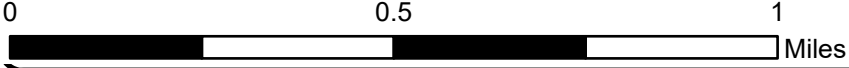
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|------------------------------|------------------------------|-------------------------------|---------------------------------|---------------------------------|
| Cabin | Survey Grade Corners | DNR - Forest Access Route | Treatments with Site Conditions | 613 - Lowland Mixed Forest |
| Toilet | Remonumented Section Corners | County - Gravel Road | Planting (Tree Species) | 110 - Low Intensity Urban |
| Structure, Seasonal Dwelling | Hiking Trails | County - Dirt Road (Seasonal) | Seed Tree (w/Reserves) | 330 - Low Density Trees |
| Berms | ORV Trails | Private - Dirt / Gravel Road | 411 - Northern Hardwood | 500 - Water |
| Gate | Snowmobile Trails | Lake/Pond | 412 - Oak Types | 622 - Lowland Shrub |
| Boating Access Site | Designated Hiking Pathways | Perennial River | 421 - Planted Pines | 623 - Emergent Wetland |
| Bridges | Designated Snowmobile Trails | Shoreline | 422 - Natural Pines | 710 - Sand/Soil |
| Campground | Designated ATV Trails | Lakes and Rivers | 611 - Lowland Deciduous Forest | 612 - Lowland Coniferous Forest |
| Parking Lot | DNR - Secondary Forest Road | Compartment Boundary | | |



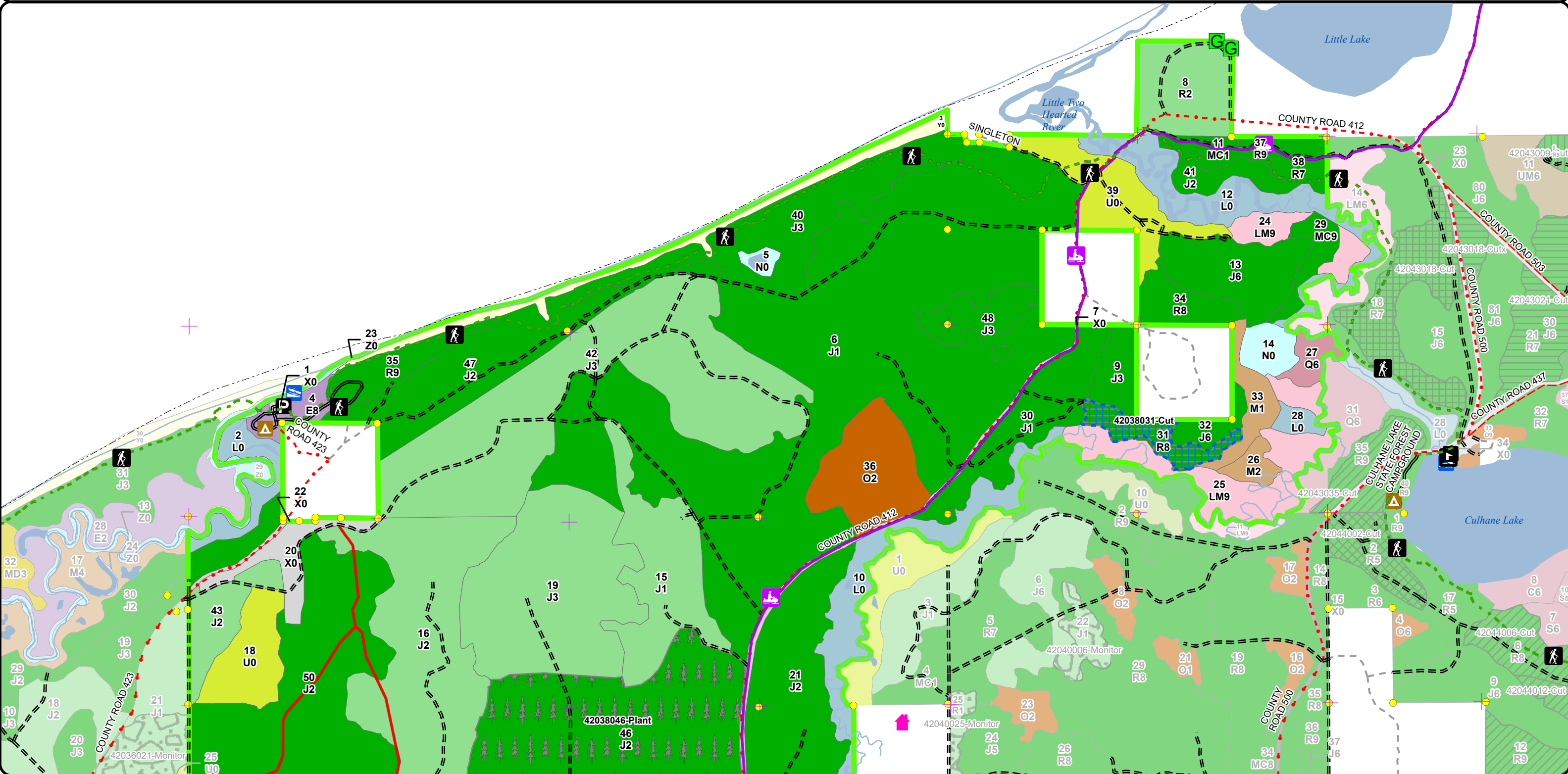
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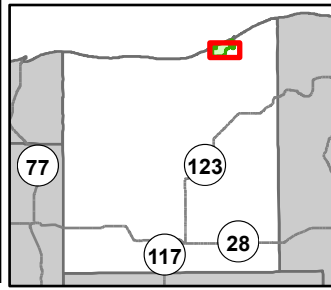
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| Structure, Seasonal Dwelling | Snowmobile Trails | Private - Dirt / Gravel Road | Seed Tree (w/Reserves) | 110 - Low Intensity Urban |
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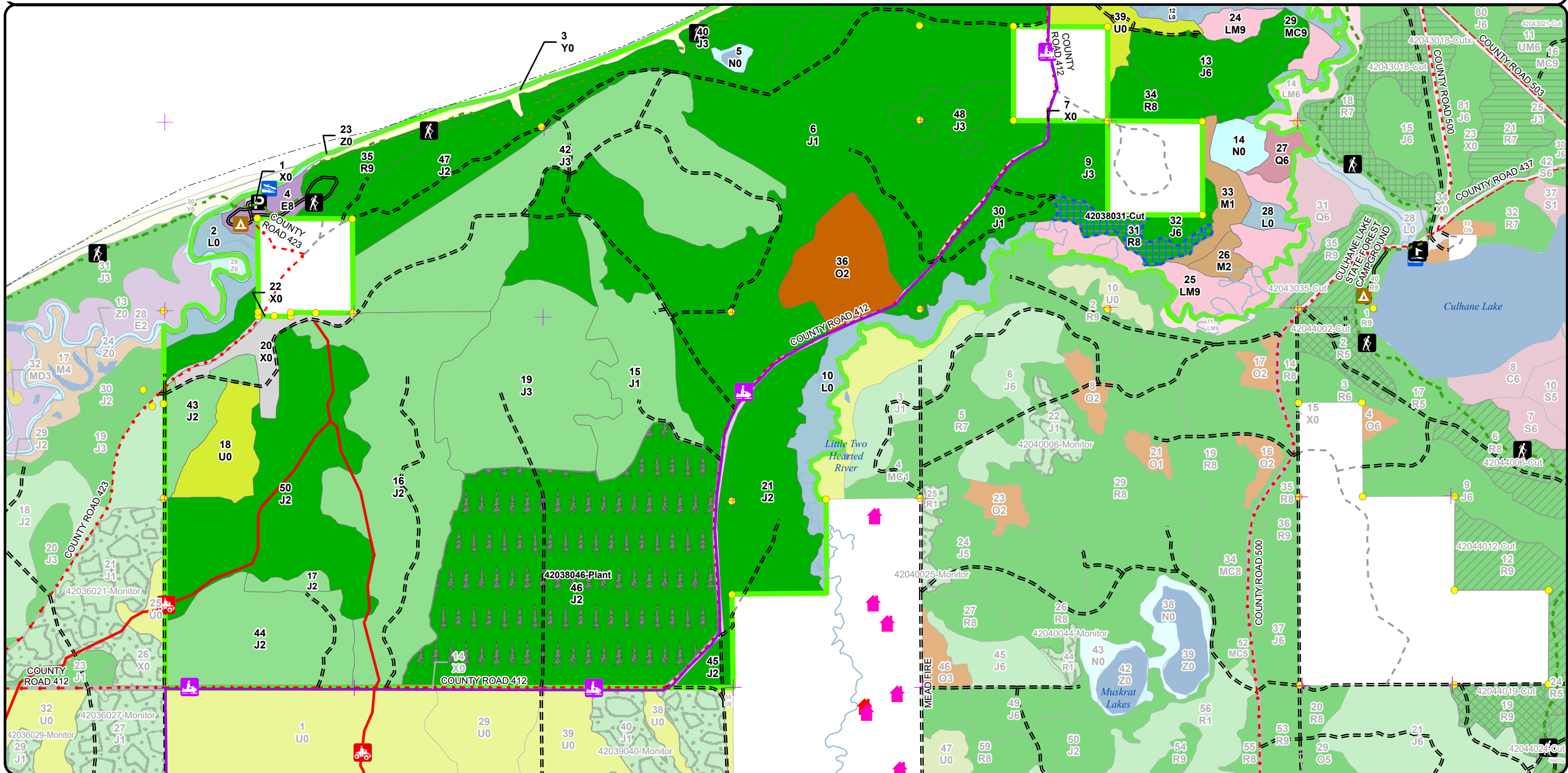
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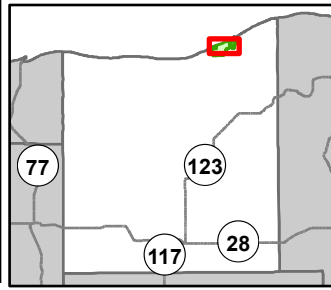
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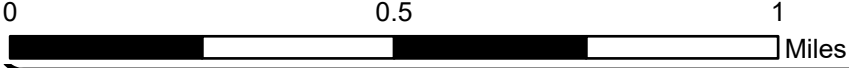
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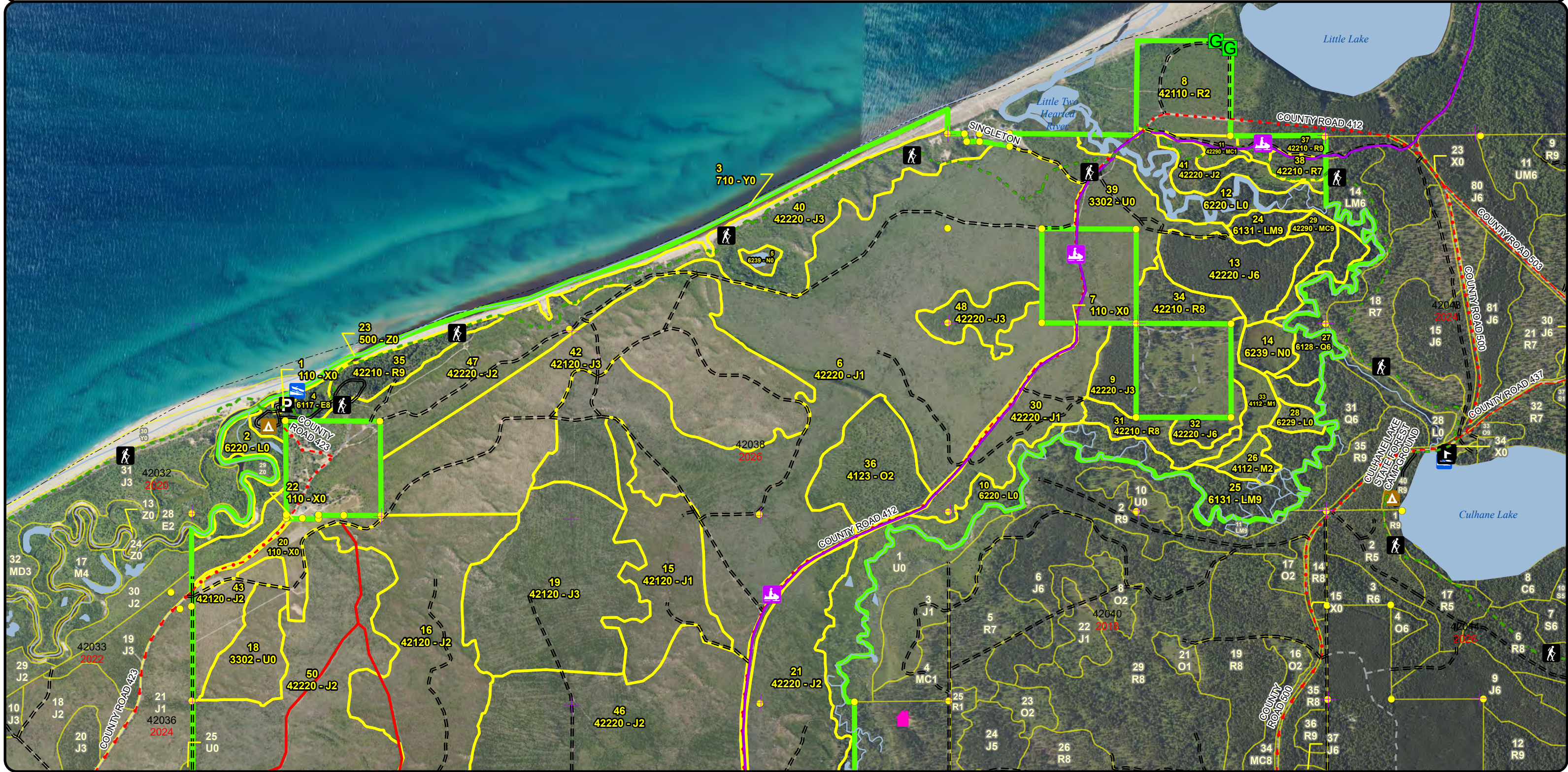
Stand Boundary Map



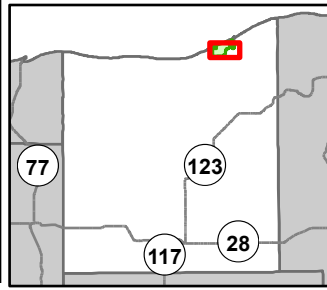
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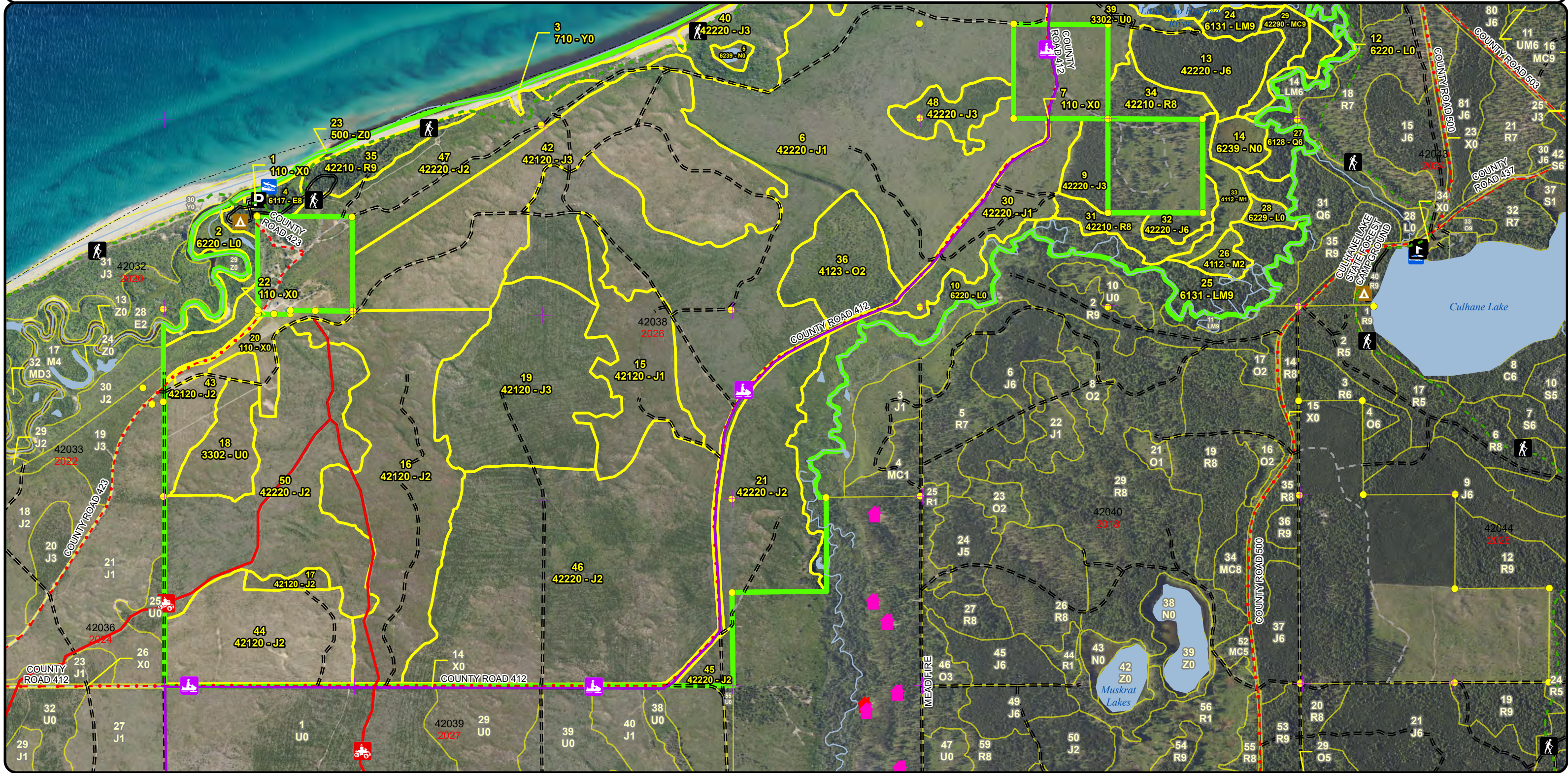
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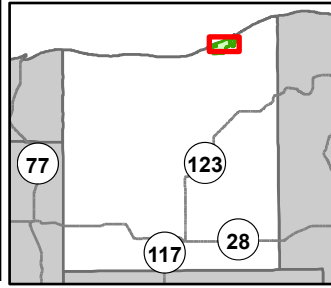
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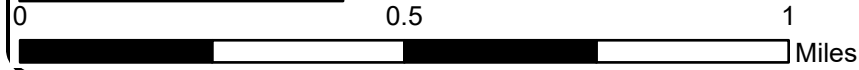
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**Special Conservation Areas
& Site Conditions Map**



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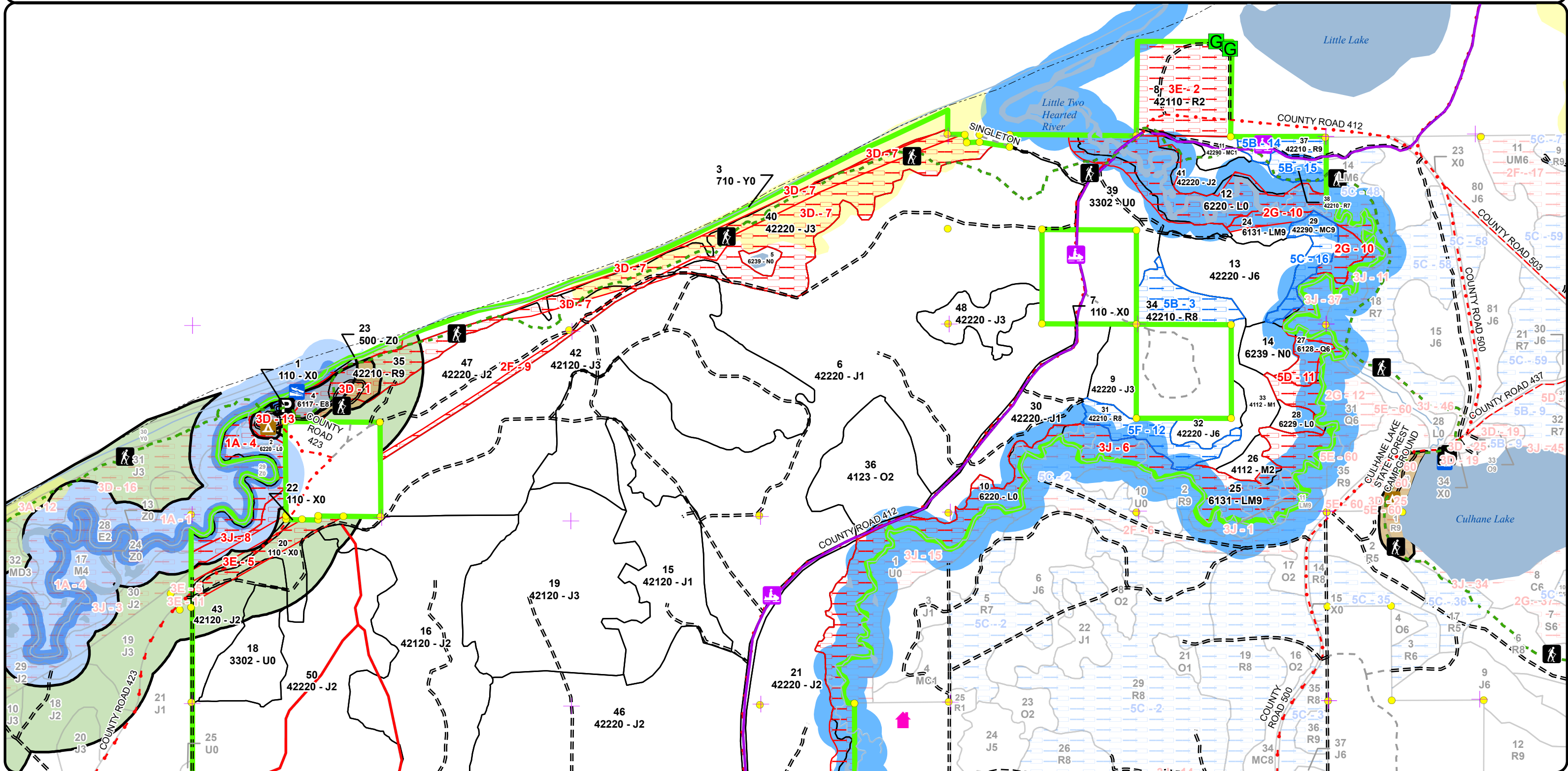
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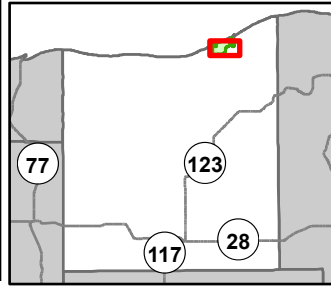
- Lakes and Rivers
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable

- Stand Boundaries
- Critical Dunes
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Boat Access Site
- State Forest Campground
- Recreational/Scenic Value Area

- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)



Special Conservation Areas & Site Conditions Map



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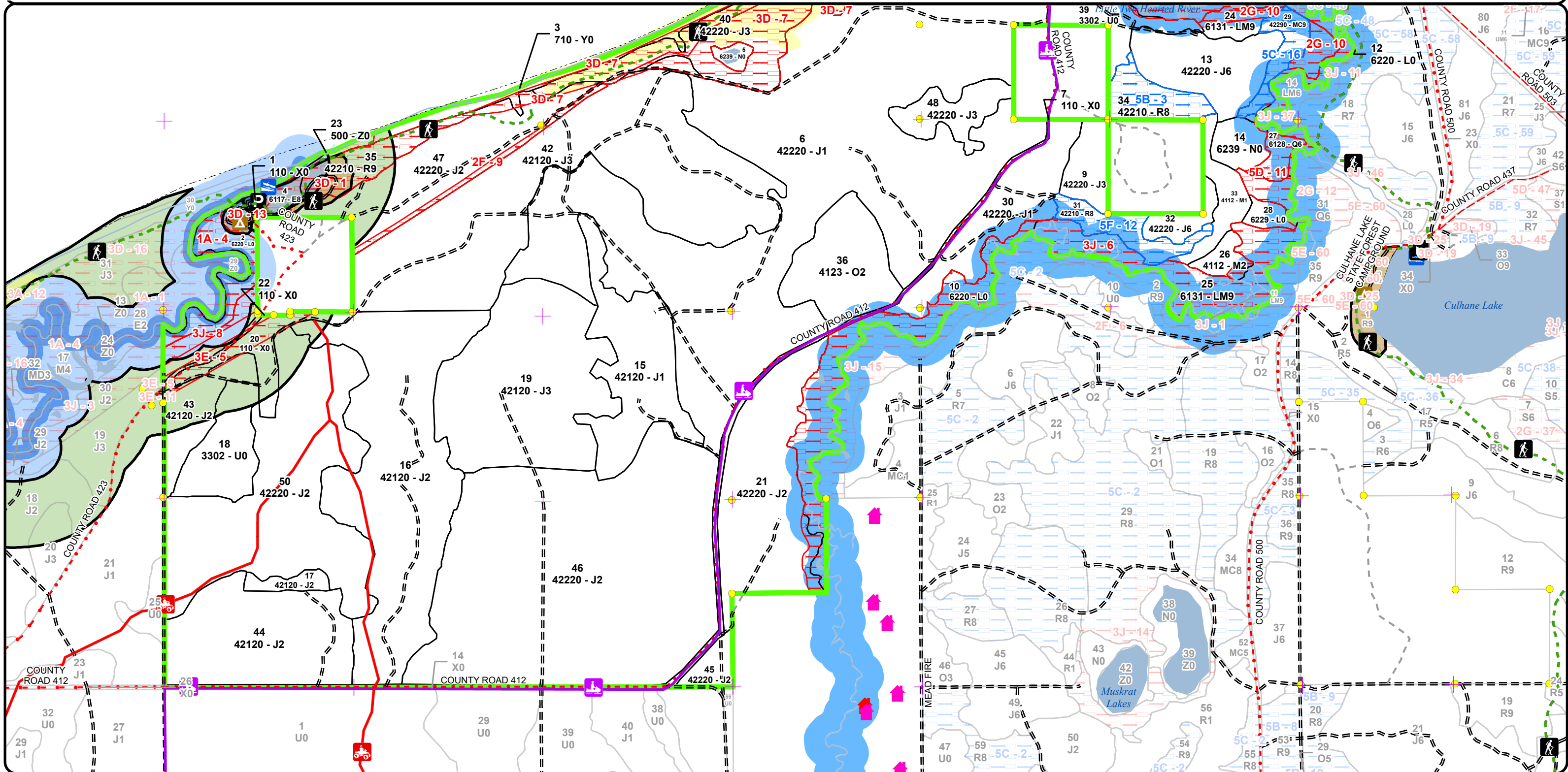
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- Shoreline
- Lakes and Rivers
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- 5B: Maintain for regeneration purposes
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- 2F: Too steep
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- 3D: Recreational / Scenic values
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)

- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Critical Dunes
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Boat Access Site
- State Forest Campground
- Recreational/Scenic Value Area



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 38

Year of Entry 2026

Amy Livermore : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Jack Pine	0	466	1331	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0	1859
Low-Density Trees	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Lowland Conifers	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Lowland Deciduous	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	63
Lowland Shrub	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Natural Mixed Pines	0	0	7	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Oak	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Red Pine	0	0	39	0	0	0	0	0	17	0	30	0	0	19	0	0	0	0	105
Sand, Soil	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Urban	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	265	466	1442	0	0	62	0	0	10	17	9	104	0	0	19	0	0	0	2394



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 38
Total Compartment Acres: 2,397

Commercial Harvest -
 Harvests with Site Condition - 16
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshory Removal	Salvage	Other	Total Acres
Red Pine		0	0	0	16	0	0	0	0	0	16
	Total	0	0	0	16	0	0	0	0	0	16

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		16	0	273	0	0	0	0	0	0	289
Next Step		0	0	0	0	0	289	0	0	0	289
	Total	16	0	273	0	0	289	0	0	0	577



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Proposed Treatments:

31	42038031-Cut	15.5	42210 - Natural Red Pine	Sawtimber Medium	106	51-80	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> leave 10-20 BA. Keep red and white pine in the red line. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> red pine, white pine <u>Regen:</u> <u>Other</u> Maintain a 100' buffer along the Little Two Heart (built into treatment shape). <u>Comment:</u> <u>Site Condition</u> Evaluated for Forest Health <u>Proposed Start Date:</u> 10/1 /2025</p>											
46	42038046-Plant	273.0	42220 - Natural Jack Pine	Sapling Medium	12	Immature	Planting	Interplant	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Interplant jack pine seedlings if there is a surplus <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> jack pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											

Total Treatment Acreage Proposed: 288.5

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 38
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
1859	1761	0	98

Dominant Site Conditions

	Acres	Available	With Condition	Not Available	Dominant Site Conditions									
					5B	5C	5F	1A	2F	2G	3D	3E	3J	5D
1859	1761	0	98	Jack Pine				0	6		78	3	11	
69	64	0	5	Low-Density Trees									5	
9	0	0	9	Lowland Conifers									3	6
10	0	0	10	Lowland Deciduous							10			
63	4	0	59	Lowland Mixed Forest						10			49	
111	6	0	105	Lowland Shrub				16				0	89	
14	14	0	0	Marsh									0	
18	6	11	1	Natural Mixed Pines		11						0	0	
21	20	0	1	Northern Hardwood									1	
44	44	0	0	Oak										
106	0	47	59	Red Pine	31		16				19	39		
26	21	0	5	Sand, Soil				2			3			
40	29	0	11	Urban				0			1	10		
6	0	0	6	Water				6						
2,397	1,970	58	368	Total Forested Acres	31	11	16	24	6	10	112	52	158	6
	82%	2%	15%	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	3D: Recreational / Scenic values	55	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: Lake Superior shoreline							
2	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Luce County Lease 40							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 38
Year of Entry: 2026

3	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Live red pine stands after salvage cutting completed from Duck Lake Fire.							
4	Unavailable	1A: Federal/State/Local Law	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River zone							
5	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two-Hearted River Airstrip lease							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	152	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3D: Recreational / Scenic values	51	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Below bluff along river corridor.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 38
Year of Entry: 2026

9	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5D: Unproductive Forest Land	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5F: Evaluated for Forest Health Considerations	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 5F: diploidia concerns in regeneration							
13	Unavailable	3D: Recreational / Scenic values	6	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Mouth of the Two Heart State Forest Campground							
14	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Live red pine stands after salvage cutting completed from Duck Lake Fire.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 38
Year of Entry: 2026

15	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	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.

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	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.

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	110 - Low Intensity Urban	Nonstocked	1.2			Managed Opening	PRD Boating Access Site. Tahquamenon Falls State Park manages this facility.																																														
2	6220 - Alder/willow	Nonstocked	16.0			No	Lowland along Two Hearted River.																																														
3	710 - Sand, Soil	Nonstocked	26.4			No	Lake Superior shoreline.																																														
4	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	10.3	75	51-80	N/A	Burned through from Duck Lake Fire, May 2012. Areas of tag alder along with upland areas of western campground loop. Mouth of two Hearted River State Forest Campground. Facility is managed by Tahquamenon Falls State Park.																																														
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5	6239 - Mixed Emergent Wetland	Nonstocked	3.4			No																																															
6	42220 - Natural Jack Pine	Sapling Poor	441.3	12	Immature	N/A	Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12-01. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre.																																														
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7	110 - Low Intensity Urban	Nonstocked	19.7			Managed Opening	County Road 412.																																														
8	42110 - Planted Red Pine	Sapling Medium	39.3	12	Immature	N/A	Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by summer students. Average 365 trees/acre of red pine. Scattered birch and red maple throughout stand.																																														
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9	42220 - Natural Jack Pine	Sapling Well	14.7	44	1-50	N/A	Retention area for salvage sale. Somewhat burned through by Duck Lake Fire, May 2012.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
10	6220 - Alder/willow	Nonstocked	45.7			No	Lowland along Little Two Hearted River. Areas of tag alder and areas of marsh grass. Burned by Duck Lake Fire, May 2012.																																
11	42290 - Natural Mixed Pine	Sapling Poor	6.6	11	Immature	N/A	Burned by Duck Lake Fire, May 2012. Salvage cut 2012, DLS#3, 42-026-12-01. Regen survey in 2015 by summer students. Variable regen densities established of jack pine and red maple (400 trees/acre).																																
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12	6220 - Alder/willow	Nonstocked	44.3			No	Little Two Hearted River corridor. Burned by Duck Lake Fire, May 2012.																																
13	42220 - Natural Jack Pine	Poletimber Well	38.7	48	51-80	N/A	Excluded from salvage sale. Some underburning from Duck Lake Fire, May 2012.																																
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14	6239 - Mixed Emergent Wetland	Nonstocked	10.9			No																																	
15	42120 - Planted Jack Pine	Sapling Poor	60.7	9	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #4 sale #42-027-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-825. Failed regen check in fall 2013/spring 2014. Was planned to replant spring of 2014, but ran out of trees. Regen survey summer 2017: 660 Trees per acre.																																
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16	42120 - Planted Jack Pine	Sapling Medium	153.8	10	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #4 sale #42-027-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-826. Failed regen check fall 2013/spring 2014. Replanted May 2014, 4 x 10 spacing, KW funded. Passed regeneration check 5/23/2016 - 622 trees/acre (545 planted, 40 volunteers).																																
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18	3302 - Low Density Conifer Trees	Nonstocked	28.4			4212 - Planted Jack Pine	Duck Lake fire May 2012. Salvage cut 2012 DLS #4 sale #42-027-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-827. Failed regen survey in fall 2013. Planned on replanting in spring 2014, but ran out of trees. Never replanted, but survival is better than originally thought. Average 550 trees/acre in 2015 regen survey by summer students. Regen check summer 2017: 470 trees/acre.																																
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19	42120 - Planted Jack Pine	Sapling Well	117.2	7	Immature	N/A	Very dense with some more open areas.																																																		
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20	110 - Low Intensity Urban	Nonstocked	17.4			Managed Opening	Old airstrip																																																		
21	42220 - Natural Jack Pine	Sapling Medium	83.1	11	Immature	N/A	Good regen in most of the stand. The steep hillsides have little regen. Lots of slash remaining.																																																		
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22	110 - Low Intensity Urban	Nonstocked	1.9			Managed Opening	County Road 423.																																																		
23	500 - Water	Nonstocked	6.4			No	Two Hearted River.																																																		
24	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	14.2	105	81-110	N/A	Lower ground along Little Two Hearted River. Some burn through from Duck Lake Fire, May 2012. Mostly floodplain.																																																		
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25	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	48.5	100	51-80	N/A	Upland/lowland transition along Little Two Hearted River. Burned through by Duck Lake Fire, May 2012. Did not burn hot through this stand, mostly underburn.																																																		
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26	4112 - Maple, Beech, Cherry Association	Sapling Medium	7.1	11	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12-01. Regen survey in 2015 by summer students. Red maple regen is acceptable regen in this stand. Averages 1650 trees/acre of red maple.																																													
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27	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.6	90	51-80	N/A	Lowland along Little Two Hearted River. Burned by Duck Lake Fire, May 2012.																																													
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28	6229 - Mixed lowland shrub	Nonstocked	5.0		Unspecified	613 - Lowland Mixed Forest	Low ground bordering Little Two Hearted River. Burned by Duck Lake Fire, May 2012. Previously mix of maple, birch and white pine. Regen survey in 2015 by summer students. Red maple white spruce and birch regenerating. Lots of pole sized snags.																																													
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29	42290 - Natural Mixed Pine	Sawtimber Well	11.3	108	111-140	N/A	Upland mixed pine bordering Little Two Hearted River. Some underburn from Duck Lake Fire, May 2012. Occasional oak, white birch, red maple and spruce.																																													
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30	42220 - Natural Jack Pine	Sapling Poor	43.9	12	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12-01. Regen survey in 2015 by summer students. Variable regen densities established. Averages 283 trees/acre.																																													
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31	42210 - Natural Red Pine	Sawtimber Medium	16.0	106	51-80	N/A	Burned through from Duck Lake Fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12-01. Western portion was mostly underburned and thinned by salvage cut (70 BA residual), while eastern portion burned heavier and had more cut (30 BA residual). Combined into one stand. Decent red pine regeneration in more open areas of the stand.																																													
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32	42220 - Natural Jack Pine	Poletimber Well	9.0	46	1-50	N/A	Burned through from Duck Lake Fire, May 2012. Part of salvage sale 2012 DLS #3, sale #42-026-12-01, but not really cut through due to smaller diameter.																																					
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33	4112 - Maple, Beech, Cherry Association	Sapling Poor	14.4	12	Immature	N/A	Duck Lake Fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12-01. Regen survey in 2015 by summer students. Variable species and densities. Mainly red maple, averaging 1000 trees/acre; thicker regen on edges. North side has very good jp regen and some rp all 1" 10'+ tall																																					
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34	42210 - Natural Red Pine	Sawtimber Medium	17.3	88	51-80	N/A	Burned through from Duck Lake Fire, May 2012. Partially salvage cut 2012 DLS #3, sale #42-026-12-01. RP with scattered small JP pole/sap patches. Red pine saplings regenerating in patches.																																					
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35	42210 - Natural Red Pine	Sawtimber Well	19.3	134	81-110	N/A	Burned through by Duck Lake Fire, May 2012. Partially salvage cut 2012 Duck Lake Campgrounds, sale #42-040-12-02. Mostly underburned. Most balsam understory burned. Occasional oak within stand. Mouth-of-Two-Hearted River state forest campground. Facility is managed by Tahquamenon Falls State Park. Small drainage runs through stand																																					
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36	4123 - Red Oak	Sapling Medium	44.2	11	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12-01. Some nice oak stump sprouts as well as seedlings coming back, along with birch, maple and jack pine. Regen survey in 2015 by summer students. Averages 1725 trees/acre of oak, jack pine and aspen. Scattered red maple and birch within stand.																																					
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37	42210 - Natural Red Pine	Sawtimber Well	7.9	108	81-110	N/A	Burned from Duck Lake Fire, May 2012. Retention from salvage cuts. Some underburned from fire. Decent red pine regen																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
38	42210 - Natural Red Pine	Sawtimber Poor	6.2	108	1-50	N/A	Burned from Duck Lake Fire, May 2012. Salvage cut in 2012, DLS #3, 42-026-12-01. Residual BA a bit thicker to the west. Regen survey in 2015 by summer students revealed approx. 200 trees/acre of jack pine, as well as 300 trees/acre birch, regen under residual RP. Re-evaluate at a later date.																																																		
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39	3302 - Low Density Conifer Trees	Nonstocked	40.1		Immature	42290 - Natural Mixed Pine	Young jack/ red pine regenerating after Duck Lake fire. Some log sized red pine on the SE edge of the stand that survived the fire. Duck Lake fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12-01 & DLS #4, sale #42-027-12-01. Regen survey in 2015 by summer students. Mix of species (red pine, jack pine, aspen, red maple and birch) and densities. Averages 470 trees/acre.																																																		
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40	42220 - Natural Jack Pine	Sapling Well	71.4	11	Immature	N/A	Duck Lake fire May 2012. Not part of salvage sales. Includes steep hillsides. Regen survey in 2015 by summer students. Variable densities and species (red pine, jack pine, oak, red maple, birch and cherry). Averages 1200 trees/acre of all species combined.																																																		
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41	42220 - Natural Jack Pine	Sapling Medium	15.8	11	Immature	N/A	Upland to transition ground. Regen survey in 2015 by summer students. Variable regen densities established; mainly birch with some jack pine. Acceptable regen due to location along river corridor. More jack pine may seed in.																																																		
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42	42120 - Planted Jack Pine	Sapling Well	186.3	8	Immature	N/A	Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12-01. Currently under FTP C42-859 for roller chop, plant and monitor. Roller chopped in 2015. Hand planted without furrows in May 2016. Regen survey summer 2017: 220 Trees per acre. FTP 42-859: Trenching complete 8/11/18. To be planted to JP in spring 2019. 5/20/19 FTP C42-859 Planting - Stocking = Planted 1017 trees/ac. 1123 trees/ac plot data, 978 trees/ac linear data. Regen Check: 10/16/19 - JP 800 TPA. Small pockets of brown defoliation. Passed. Regen Survey: Fall of 2021 - 693 TPA Jack Pine.																																																		
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43	42120 - Planted Jack Pine	Sapling Medium	23.4	5	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012, DLS #4, sale #42-027-12-01. Currently under FTP C42-858 for roller chop, plant and monitor. Roller chopped in 2015. Hand planted May 2016 without furrows. Regen check summer 2017: 200 trees/acre. FTP 42-858: Trenching completed 8/8/18. To be planted to JP in spring of 2019. Regen Survey: Fall of 2021 - 436 TPA Jack Pine. Portion of stand is under airport lease agreement. Contractor Data: 5/17/19 Stand 43 - Planted 1109 trees/ac, 1091 trees/ac plot data, 983 trees/ac linear data. Regen Check: 10/16/19 - 833 TPA. Some pocket mortality noticed. Passed.																																			
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44	42120 - Planted Jack Pine	Sapling Medium	77.4	5	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012, DLS #4, sale #42-027-12-01. Currently under FTP 42-858 for roller chop, plant and monitor. Roller chopped in 2015. Hand planted to jack pine 5/18/2016. Regen survey summer 2017: 174 Trees/acre. FTP 42-858: Trenching complete 8/8/18. To be planted to JP in spring 2019. Fully stocked 2/24 Contractor Data: 5/17/19 Stocking = Stand 44 - Planted 1074 trees/ac. 1124 trees/ac plot data, 983 trees/ac linear data Regen Check: 10/16/2019 - JP 733 TPA. Regen Survey: Fall of 2021 - 321 TPA Jack Pine.																																			
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45	42220 - Natural Jack Pine	Sapling Medium	8.3	12	Immature	N/A	Small pocket in the southeast corner of the stand has log sized red pine. Red maple stump sprouts scattered throughout the stand Duck Lake fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12-01. Regen survey in 2015 by summer students. Mixed red pine, jack pine with red maple. Average 430 trees/acre of pine.																																			
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46	42220 - Natural Jack Pine	Sapling Medium	273.0	12	Immature	N/A	Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12-01. Regen survey in 2015 by summer students. Variable densities. Averages 1260 trees/acre. Parts of stand are very dense and others are very open																																			
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47	42220 - Natural Jack Pine	Sapling Medium	63.6	12	Immature	N/A	Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12-01. Regen survey in 2015 by summer students. Mostly jack pine with red pine. Associated red maple, aspen and birch. Averages 1880 trees/acre.																																			
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48	42220 - Natural Jack Pine	Sapling Well	19.7	11	Immature	N/A	Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12-01. Regen survey in 2015 by summer students. Stand is fully stocked with jack pine		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		100	Sapling	2	11	Red Pine	Low	< 5 feet	Seeding
						Jack Pine	Medium	< 5 feet	Seeding
50	42220 - Natural Jack Pine	Sapling Medium	151.3	12	Immature	N/A	Duck Lake fire May 2012. Salvage cut 2012, DLS #4, sale #42-027-12-01. Regen survey completed by summer students in spring 2015. Moderately stocked in variable densities. Regen counts vary from 0-17 trees/plot. Average 403 trees/acre.		
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