

# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42026

Entry Year: 2027

Acreage: 1,651

County: Luce

Management Area: Grand Marais Moraine Complex

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**Stand Examiner:** Anthony Ciaramitaro

## **Legal Description:**

T49N R10W Sections 19-22, 29 & 30

## **Identified Planning Goals:**

To maintain and enhance forest health and diversity while incorporating recreational and wildlife concerns.

## **Soil and topography:**

The majority of the compartment is rolling uplands on Rubicon sand. Other minor associated soils are Wallace sand; Carbondale, Lupton, and Tawas soils; and Croswell-Spot complex. The low bog areas are predominantly Dawson, Greenwood, and Loxley soils.

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

The compartment is wholly State owned lands. State lands surround most of the compartment with the exception of small private parcels on the north side of Perch Lake, and private parcels along the southern border. Larger ownerships include The Nature Conservancy, Escanaba Timberlands and Heartwood Forestlands.

## **Unique Natural Features:**

MNFI has identified the potential for several species of threatened and endangered flora and fauna.

## **Archeological, Historical, and Cultural Features:**

Several historical and prehistorical sites exist, see locked comments and compartment file for more information.

## **Special Management Designations or Considerations:**

The Two-Hearted River is designated as a Natural River with special management guidelines to follow. Some adjacent acreage is covered by a conservation easement.

## **Watershed and Fisheries Considerations:**

Fisheries Concerns: The Two-Hearted River flows through this compartment along its southern edges. The Two-Hearted is designated as a Natural River, and contains runs of Steelhead, Chinook and Coho Salmon, and also contains a resident native Brook Trout population. This waterbody is one of the most popular fisheries in the Eastern Lake Superior watershed, and the all Natural River Plan best management practices should apply to any treatments considered along the river corridor. A natural vegetation strip 100 feet wide bordering each side of the river shall be adhered to.

## **Wildlife Habitat Considerations:**

Compartment 26- This compartment is located in northern Luce county and is in the Grand Marais Moraine Complex Management Area. The Two-hearted river makes up portions of the southern boundary of the compartment. The eastern portion of this compartment has excellent vegetative diversity and is comprised of red and white pine, aspen, hardwoods, hemlock and spruce along the river corridor. The western portion is less diverse and is largely red and jack pine. There is an oak component throughout much of the pine stands in the compartment. Hemlock will be left in harvested stands to promote structural and habitat diversity of stands and retention and promotion of oak as a mast source will aid in achieving wildlife objectives. Wildlife travel corridors in this compartment should be abundant. Wildlife species likely to use this compartment include black bear, white-tailed deer, moose, gray wolf, fisher, marten, and otter and mink. Featured species include Blackburnian warbler, black throated blue warbler, American marten, Kirtland's warbler, red crossbill, spruce grouse, ruffed grouse and white-tailed deer.

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

Surface sediments consist of lacustrine sand and gravel and minor end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness (~ >50 feet). The Cambrian Munising Group and Precambrian Jacobsville Sandstone subcrop below the glacial drift. The Jacobsville has been used as a building stone in the past. There are no gravel pits in the area, but there may be some potential. There is no economic oil and gas production in the UP.

## **Vehicle Access:**

The compartment borders County Road 407, an all season road, and County Road 410, a good gravel road. Interior roads

are mostly poor sand two-tracks.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

High Bridge State Forest Campground is located in the southwest corner of the compartment. The Two-Hearted ORV trail and snowmobile trail #8 cross the compartment.

**Fire Protection:**

The Compartment is part of the Two Hearted Zone Dispatch Area. The road and fire lane system provides adequate access for fire suppression activities. The scattered marsh, bog and lowland brush areas may impact fire suppression efforts. Private property in section 29 could be at risk because of continuous Jack Pine cover type in sections 29 and 30.

**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**



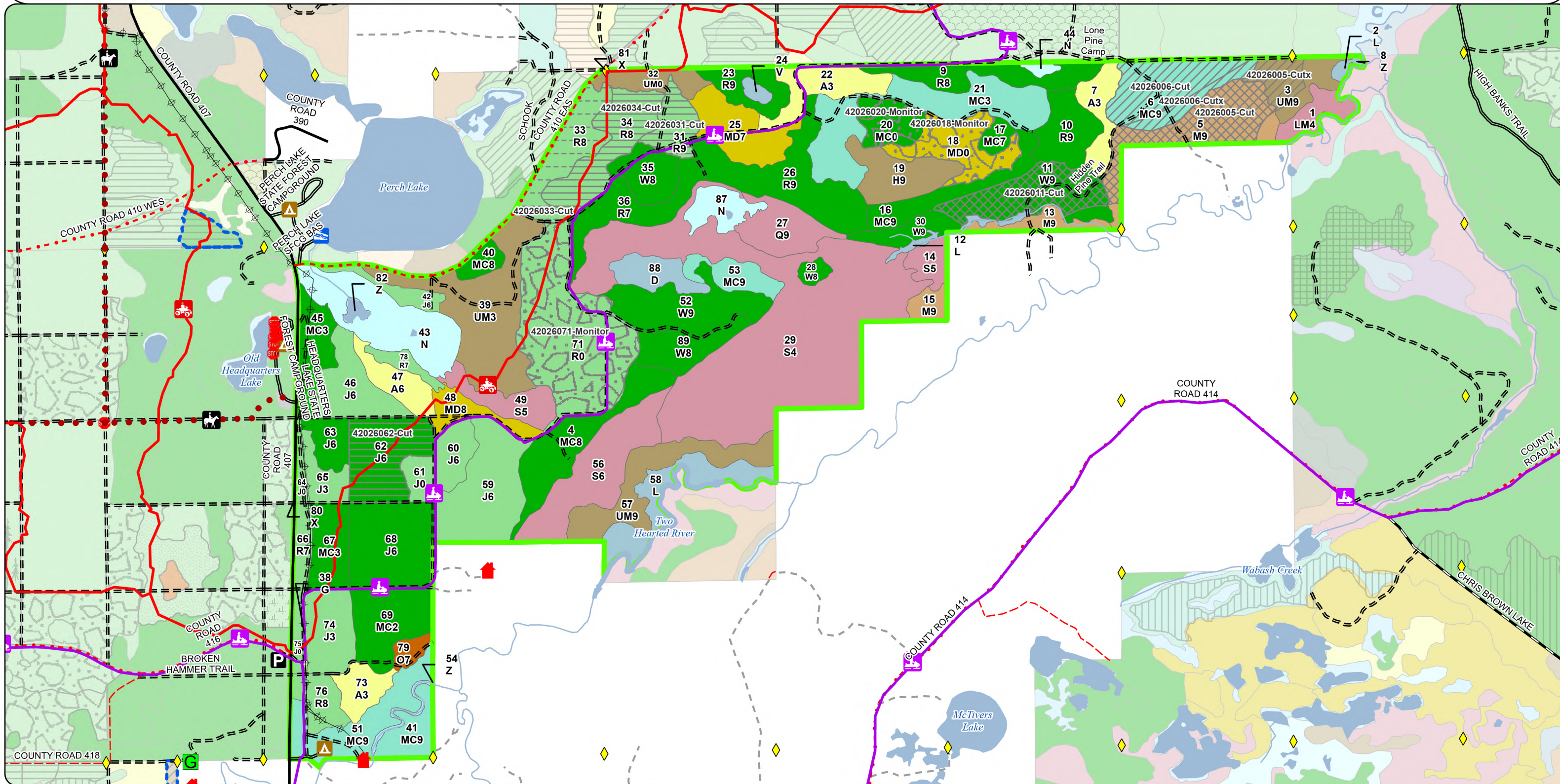
# Cover Type & Treatments Map

Compartment: 42026  
T49N R10W 19-22, 29,30  
County: Luce  
Unit: Newberry  
Mgmt. Area: Grand Marais Moraine Complex  
YOE: 2027  
Acres: 1,651 GIS Calculated  
Examiner: Anthony Ciaramitaro  
Date Exported: 08/19/2025  
Map Phase: Web Post



0 0.5 1 Miles

- |  |  |   |  |  |
|--|--|---|--|--|
| <ul style="list-style-type: none"><li>Survey Grade Corners</li><li>Cabin</li><li>Gate</li><li>Boating Access Site</li><li>Campground</li><li>Parking Lot</li><li>Sign</li><li>Designated Equestrian Trails</li></ul> | <ul style="list-style-type: none"><li>Designated Snowmobile Trails</li><li>Designated ATV Trails</li><li>DNR - Primary Forest Road</li><li>DNR - Secondary Forest Road</li><li>DNR - Forest Access Route</li><li>Federal / State / County - Paved Road</li><li>Federal / State - Dirt / Gravel Road</li><li>County - Gravel Road</li><li>County - Dirt Road (Seasonal)</li></ul> | <ul style="list-style-type: none"><li>Private - Dirt / Gravel Road</li><li>Perennial River</li><li>Powerline</li><li>Lakes and Rivers</li><li>Counties</li><li>Compartment Boundary</li><li>Clearcut</li><li>Selection</li><li>Thinning</li></ul> | <ul style="list-style-type: none"><li>Overstory Removal</li><li>Monitoring - Regeneration</li><li>Treatments with Site Conditions</li><li>411 - Northern Hardwood</li><li>412 - Oak Types</li><li>413 - Aspen</li><li>419 - Mixed Upland Deciduous</li><li>421 - Planted Pines</li><li>422 - Natural Pines</li></ul> | <ul style="list-style-type: none"><li>429 - Mixed Upland Conifers</li><li>430 - Upland Mixed Forest</li><li>500 - Water</li><li>612 - Lowland Coniferous Forest</li><li>613 - Lowland Mixed Forest</li><li>122 - Road/Parking Lot</li><li>310 - Herbaceous Openland</li><li>622 - Lowland Shrub</li><li>623 - Emergent Wetland</li></ul> |
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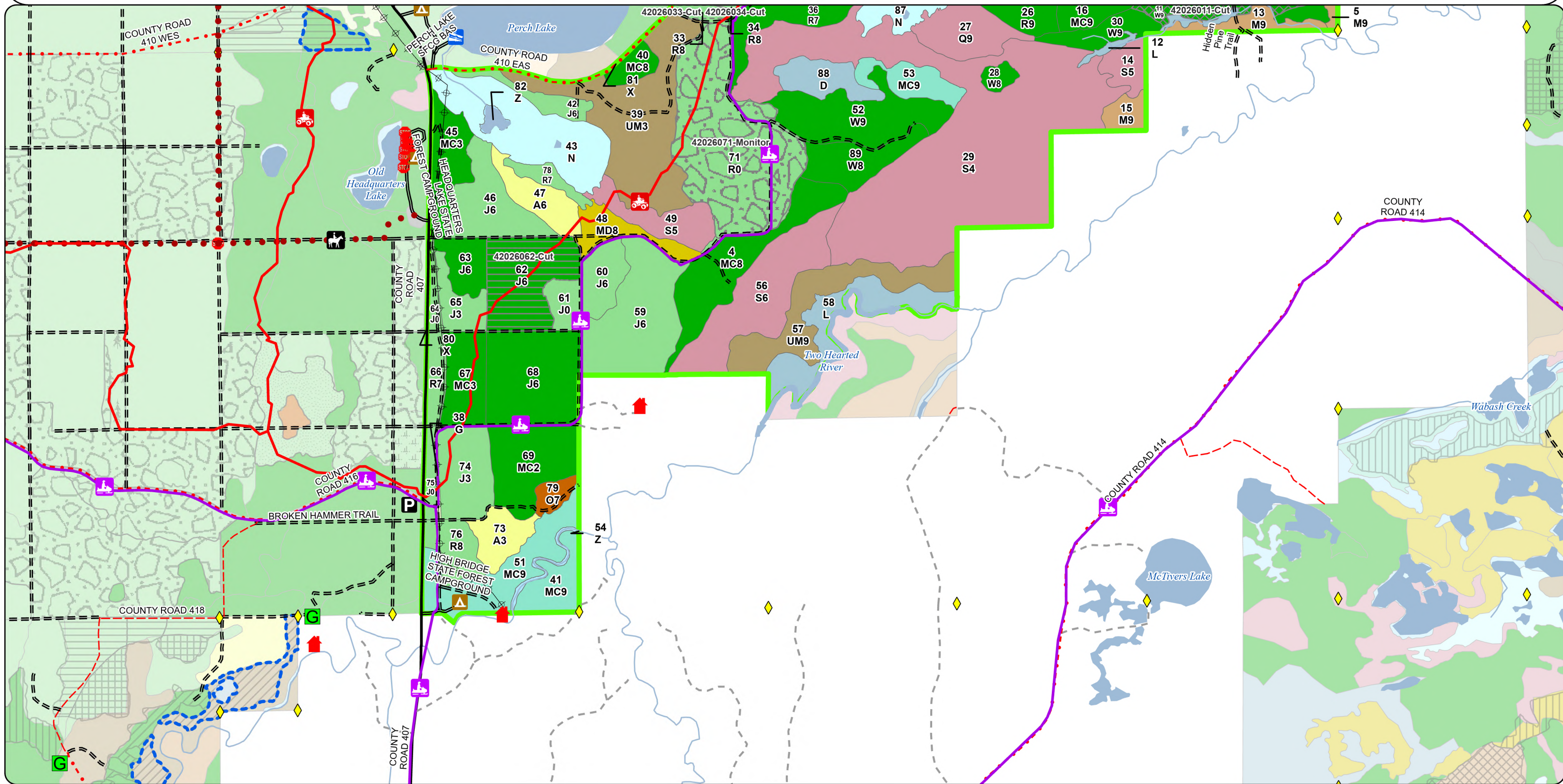
- Survey Grade Corners
- Cabin
- Gate
- Boating Access Site
- Campground
- Parking Lot
- Sign
- Designated Equestrian Trails

- Designated Snowmobile Trails
- Designated ATV Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
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- Private - Dirt / Gravel Road

- Perennial River
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- Compartment Boundary
- Clearcut
- Selection
- Overstory Removal

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- 412 - Oak Types
- 413 - Aspen
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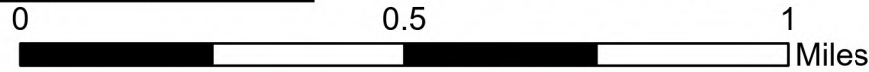
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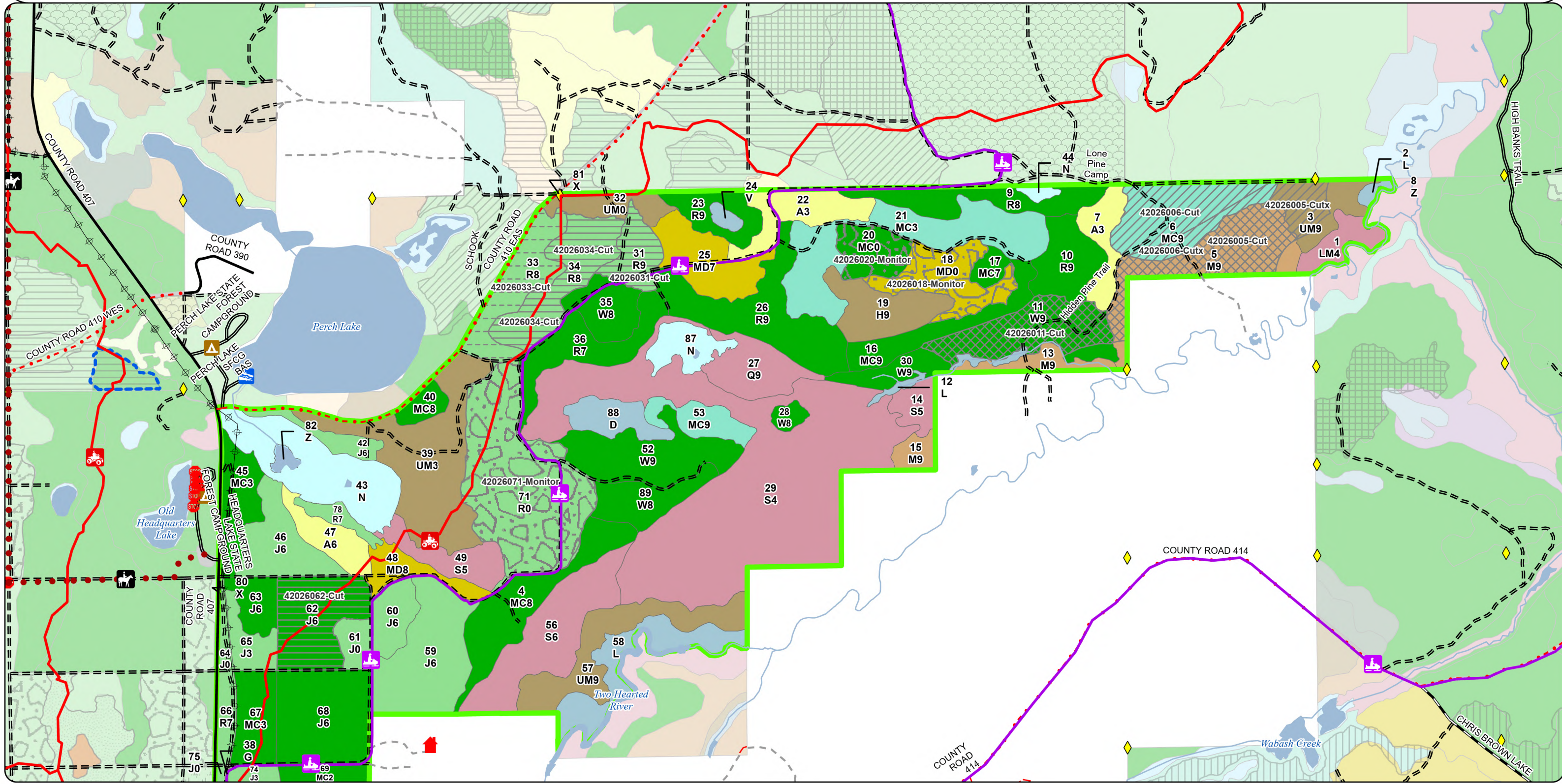
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# Stand Boundary Map

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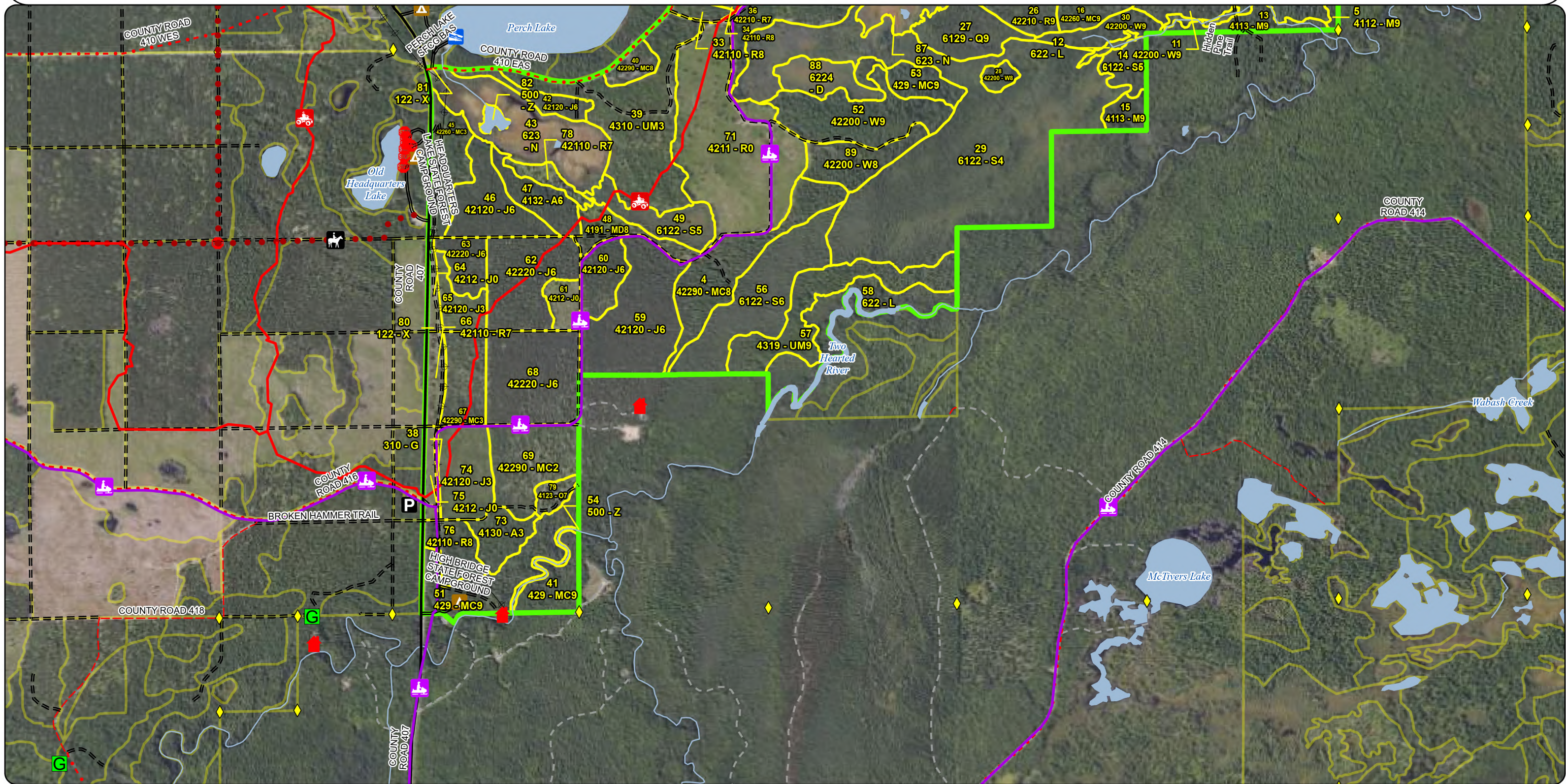
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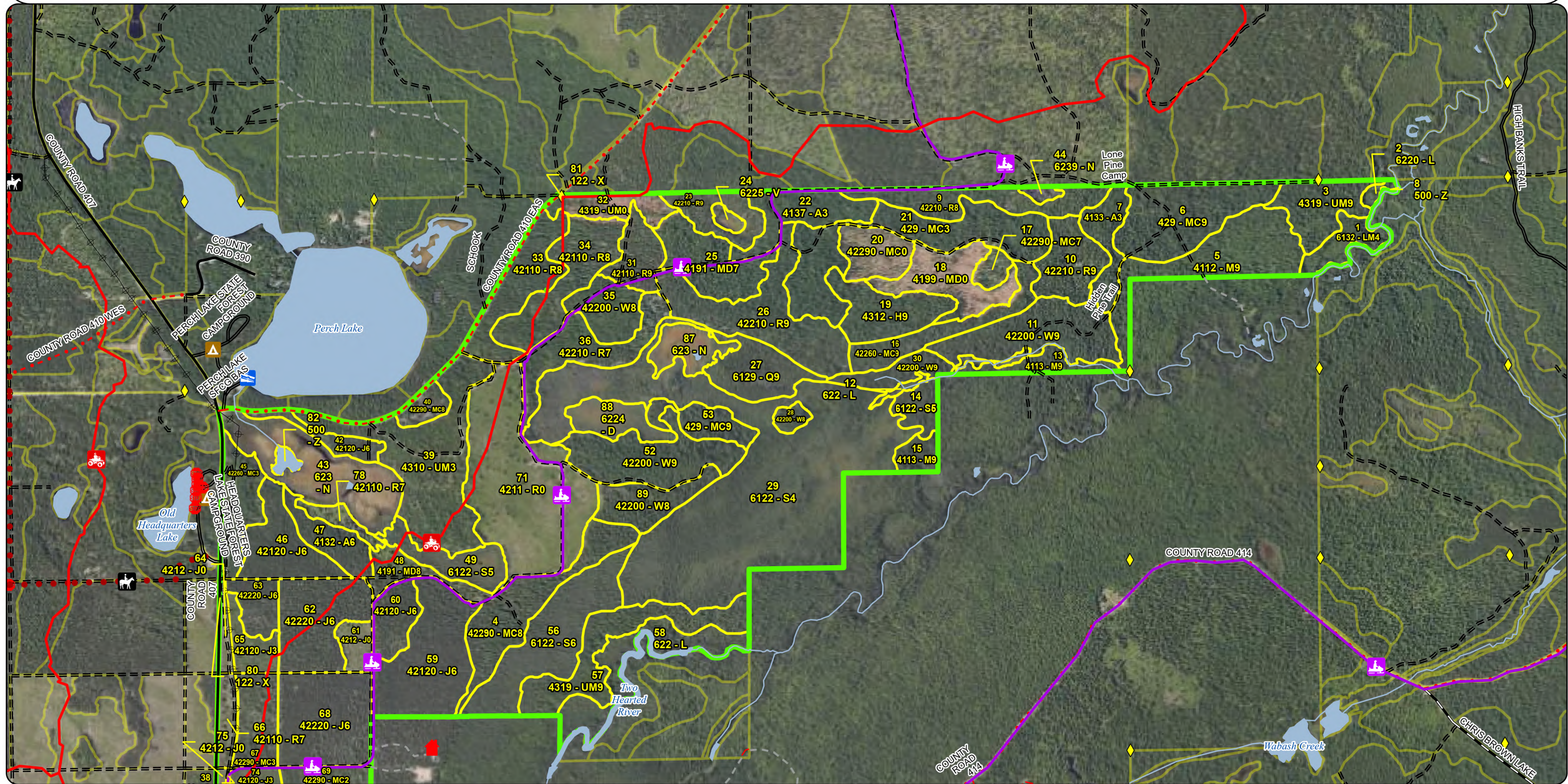


A horizontal scale bar with a black background and white markings. It is divided into four equal segments by white vertical lines. The first segment is solid black. The second segment is white with a black outline. The third segment is solid black. The fourth segment is white with a black outline. Above the bar, the numbers 0, 0.5, and 1 are placed at the first, second, and third white segments respectively. To the right of the bar, the word "Miles" is written in black.

-  Survey Grade Corners
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- |   |                                       |   |                              |
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# Special Conservation Areas & Site Conditions Map

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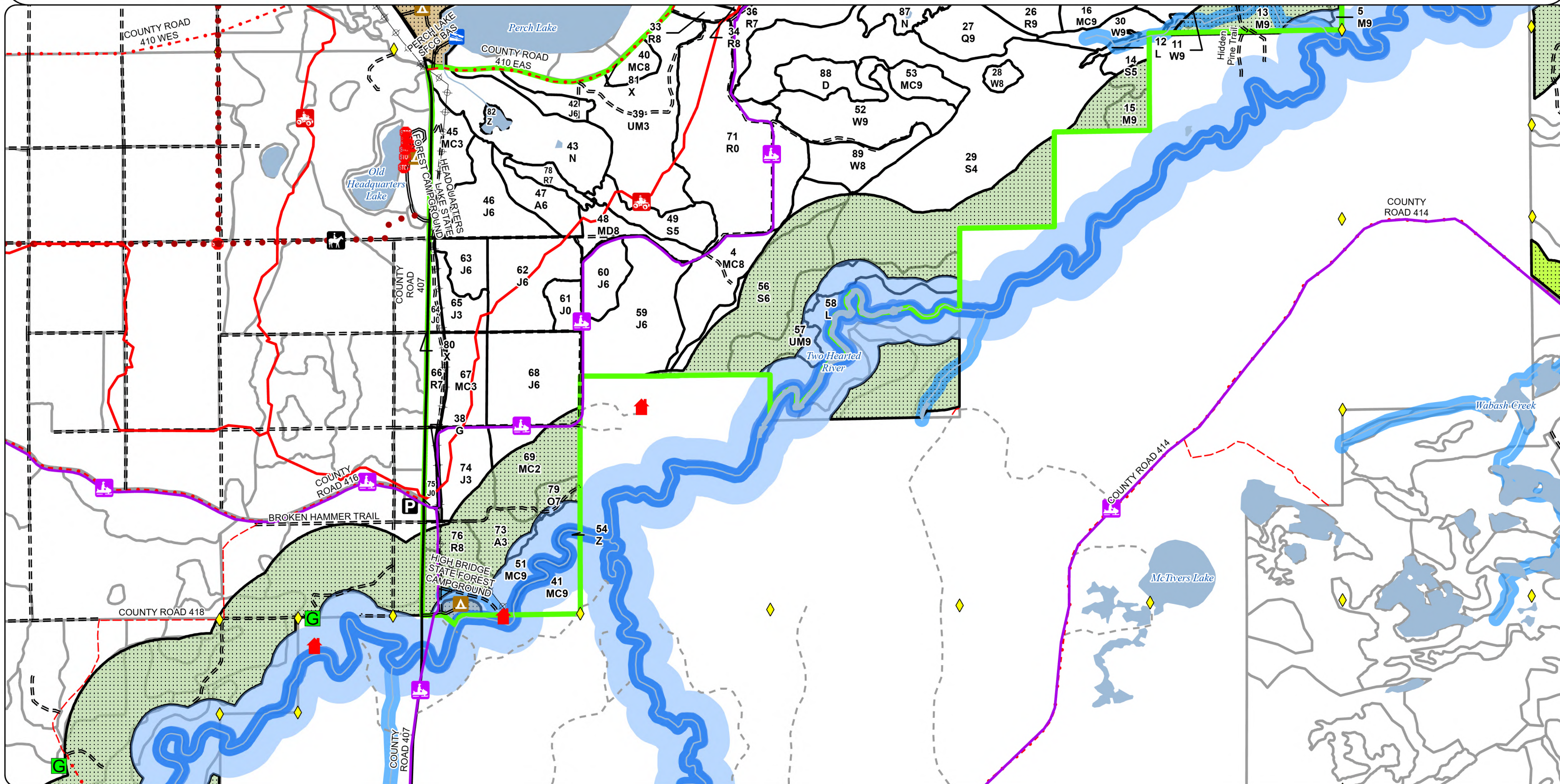
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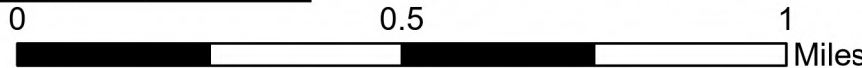
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- Compartment Boundary
- Stand Boundaries
- Natural Rivers Vegetative Buffer









- Natural Rivers Zoning District
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- State Forest Campground
- Recreational/Scenic Value Area
- Possible Type 2 Old Growth









A horizontal scale bar with a black segment on the left and a white segment on the right, separated by a vertical line. The number '1' is centered above the bar, and the word 'Miles' is at the right end.

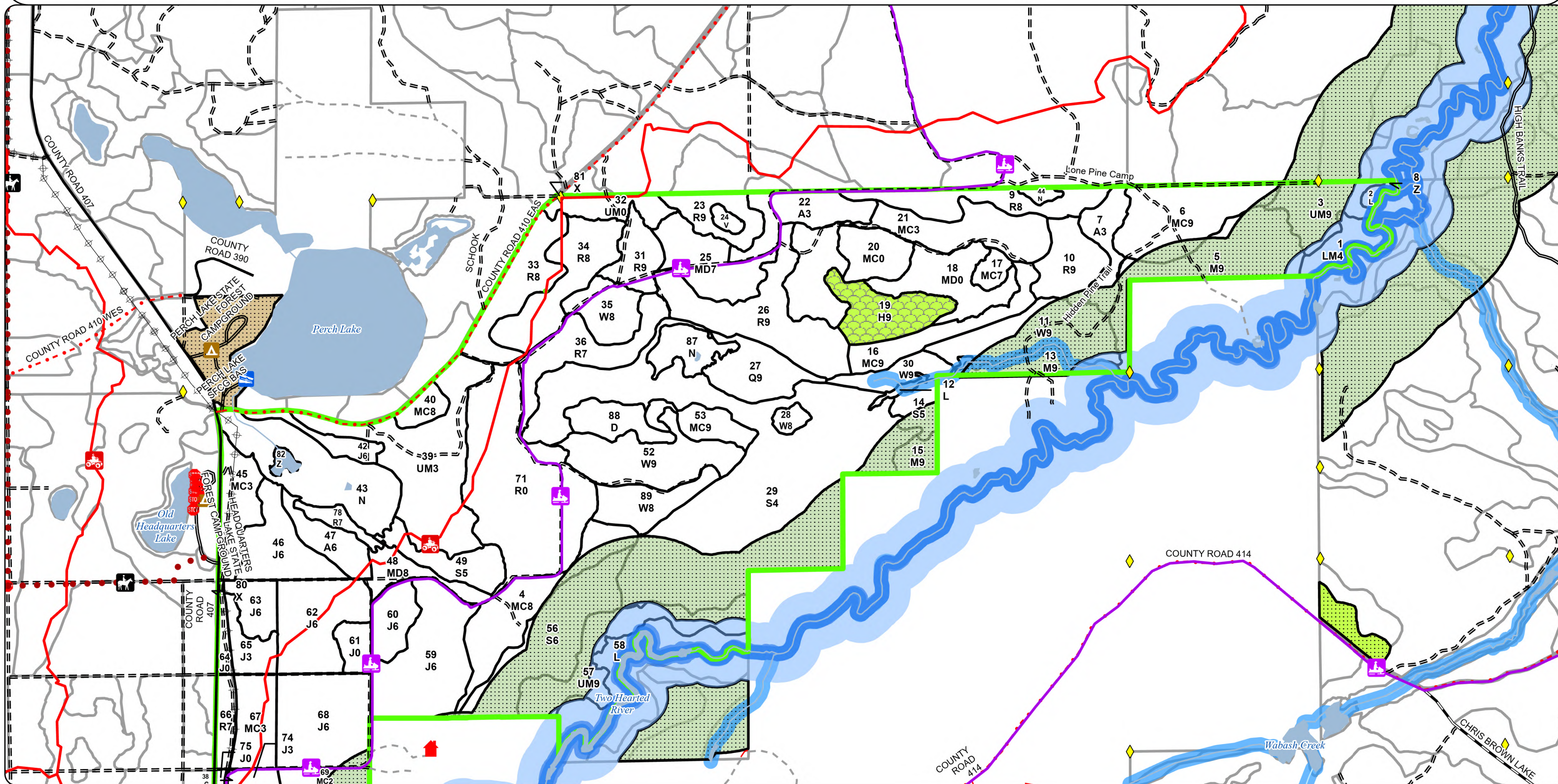


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-  Stand Boundaries
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-  Natural Rivers Zoning District

-  SCA
-  SCA Removal
-  Cold Water Streams
-  High Priority Trout Stream Buffer
-  State Forest Campground
-  Recreational/Scenic Value Area
-  Possible Type 2 Old Growth





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

Newberry Mgt. Unit

Compartment 26

Year of Entry 2027

Anthony Ciaramitaro: 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
Aspen	0	0	12	34	0	0	13	0	0	0	0	0	0	0	0	0	0	0	59
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	16	0	32	0	13	125	32	0	0	0	0	0	0	0	0	0	0	0	218
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	21
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Lowland Shrub	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	51	206	0	0	0	0	0	0	0	0	256
Marsh	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Mixed Upland Deciduous	25	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	61
Natural Mixed Pines	15	0	0	64	0	0	0	0	6	38	19	0	0	0	0	0	0	0	142
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	39	0	16	0	0	0	0	0	55
Oak	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Red Pine	80	0	0	0	0	0	0	0	0	182	34	6	0	0	0	0	0	0	302
Treed Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Conifers	0	0	0	0	50	0	0	0	0	37	0	43	12	0	0	0	0	0	142
Upland Mixed Forest	12	0	0	58	0	0	0	0	0	0	0	0	20	0	0	0	0	34	124
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	0	0	0	34	0	21	45	0	0	0	0	16	116
Total	267	0	44	156	63	125	45	0	57	533	102	96	93	0	0	0	0	73	1653



## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2027

Acres of Harvest

Compartment 26

Total Compartment Acres: 1,651

Commercial Harvest - 814

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	Oversory Removal	Salvage	Other	Total Acres
Jack Pine	32	0	0	0	0	0	0	0	0	32
Northern Hardwood	0	35	0	0	0	11	0	0	0	46
Red Pine	44	0	0	0	0	0	26	0	0	69
Upland Conifers	0	0	0	0	0	37	0	0	0	37
White Pine	0	31	0	0	0	0	0	0	0	31
Total	76	66	0	0	0	48	26	0	0	216

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	216	0	0	0	0	0	117	0	0	333
Next Step	0	135	117	0	26	76	350	0	0	704
Total	216	135	117	0	26	76	467	0	0	1037



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

<b>5</b>	<b>42026005-Cut</b>	35.1	4112 - Maple, Beech, Cherry Association	9	95	81-110	Harvest	Selection	4319 - Mixed Upland Forest	Cutting Record	No
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Prescription Specs: Harvest to The Two Hearted Natural River Plan spec's. Remove merchantable aspen, spruce, fir and paper birch, and beech. Mark remaining maple, and pine down to a total stand BA of 70 for saw log management per the plan. Remove older pulp maple and retain

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: All species present.

Other Comment: 400 ft NRP buffer applied to Rx. Rx includes 2 stands as they will fall under the same Natural River Plan spec.

Site Condition:

Proposed Start Date: 10/01/2026

<b>5</b>	<b>42026005-Cutx</b>	10.9	4112 - Maple, Beech, Cherry Association	9	95	81-110	Harvest	Thinning	4319 - Mixed Upland Forest	Cutting Record	No
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Prescription Specs: Harvest to the The Two Hearted Natural River Plan spec's. Remove merchantable aspen, spruce, fir and paper birch, and beech. Mark remaining maple, and pine down to a total stand BA of 70 for saw log management per the plan. Remove older pulp maple and r

Next Step Treatments:

Acceptable Regen:

Other Comment: 400 ft Two Hearted Natural River Plan buffer applied to Rx. Rx includes 2 stands as they will fall under the same Natural River Plan spec.

Site Condition:

Proposed Start Date: 10/01/2026

<b>6</b>	<b>42026006-Cut</b>	28.6	429 - Mixed Upland Conifers	9	85	81-110	Harvest	Thinning	429 - Mixed Upland Conifers	Planting Record	No
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Prescription Specs: Harvest to The Two Hearted Natural River Plan spec's. Remove all merchantable aspen spruce, fir and maple. Protect areas of dense regeneration of maple if present. If needed, mark remaining red and white pine and maple to meet 70 total stand BA. leave a

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: All

Other Comment: May not need to mark much, mark to cut. Use caution nearing the slopes near the road.

Site Condition:

Proposed Start Date: 10/01/2026



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>6 42026006-Cutx</b>	8.7	429 - Mixed Upland Conifers	9	85	81-110	Harvest	Thinning	429 - Mixed Upland Conifers	Planting Record	No
<u>Prescription</u> Harvest to The Two Hearted Natural River Plan spec's quarter mile buffer. Remove all merchantable aspen spruce, fir and maple. Protect areas of dense regeneration of maple if present. If needed, mark remaining red and white pine and maple to meet 100 tota <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> All <u>Regen:</u> <u>Other</u> May not need to mark much, mark to cut. Use caution nearing the slopes near the road. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>11 42026011-Cut</b>	31.2	42200 - Natural White Pine	9	110	141-170	Harvest	Selection	4220 - Natural White Pine	Cutting Record	No
<u>Prescription</u> Remove all merchantable balsam fir, aspen and spruce and maple where present. Try to protect areas of thick maple regeneration if found. If needed mark the pine down to 100 total stand BA per The Two Hearted Natural River Plan. Thin from below to remove <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> All species present. <u>Regen:</u> <u>Other</u> <u>Comment:</u> Smaller size class of WP appear to not be doing very well, have low live crown ratios and are showing decline. Larger 20 in WP are doing well. 400 ft NRP buffer built into Rx shape. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>18 42026018-Monitor</b>	23.9	4199 - Other Mixed Upland Deciduous	0	1	Immature	Monitoring	Monitoring - Regeneration	429 - Mixed Upland Conifers	Cutting Record	No
<u>Prescription</u> Monitor for mixed upland conifer. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Red pine white pine, black spruce, aspen, maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2028										
<b>31 42026031-Cut</b>	13.6	42110 - Planted Red Pine	9	85	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut, trench and plant back to red pine with adjoining stand. Leave retention in the northern tip where the topography is and south across the road. Try to leave oak in the red line for wildlife mast-food source. <u>Specs:</u> <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen (3yr) <u>Acceptable</u> Planted red pine with red and white pine volunteers. <u>Regen:</u> <u>Other</u> Plantation is nearing 90 years old. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>33 42026033-Cut</b>	25.6	42110 - Planted Red Pine	8	85	81-110	Harvest	Overstory Removal	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Remove the pine overstory, leaving, advanced regeneration, smaller diameter pine, and overstory oak. Leave the intermediate red pine for future management. Follow up with a burn if possible or re-evaluate the deciduous competition, if current regeneration <u>Specs:</u> <u>Next Step</u> Burn, Prescribed Fire; Monitoring, Natural Regen (Intermediate); Planting, Interplant <u>Treatments:</u> <u>Acceptable</u> Planted red pine with red and white pine volunteers <u>Regen:</u> <u>Other</u> Current plantation reaching 90 years. This stand has much more viable regeneration and intermediates than the stands to the east. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>34 42026034-Cut</b>	30.2	42110 - Planted Red Pine	8	85	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut, trench and plant back to red pine with adjoining stands. For retention, leave a patch near the southern tip in the intersection of the roads for aesthetics and helicopter safety. Also if retention is needed in the north, use the more dense area <u>Specs:</u> <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen (3yr) <u>Acceptable</u> Planted red pine, with red and white pine volunteers . <u>Regen:</u> <u>Other</u> Plantation is nearing 90 years old. Appears to be the same stand as the one to the west. differing in understory densities and deciduous competition. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>62 42026062-Cut</b>	32.0	42220 - Natural Jack Pine	6	51	141-170	Harvest	Clearcut	4212 - Planted Jack Pine	Planting Record	No
<u>Prescription</u> Clearcut with an objective of planted jackpine with the cultivation suite. Keep retention in patches along stand 65 and 61 to the south, and/or a patch on the trail for trail aesthetics. Standard trail protections, signage etc. Following harvest trench an <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr) <u>Treatments:</u> <u>Acceptable</u> Jack Pine <u>Regen:</u> <u>Other</u> scotch pine and aspen competition may be an issue here as seen with nearby stands. Scotch pine volunteers appear frequently here. I.E. no scarification <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

**Approved Treatments:**

<b>20 42026020-Monitor</b>	15.8	42290 - Natural Mixed Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	429 - Mixed Upland Conifers	Cutting Record	No
<u>Prescription</u> Monitor for natural regeneration. Frost pocket may be an issue with regeneration. <u>Specs:</u> <u>Next Step</u> ; ; SitePrep, Trenching; Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Red/white pine with aspen. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
71 42026071-Monitor	77.4	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<u>Prescription</u>										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Artificial Regen (3yr)										
<u>Treatments:</u>										
<u>Acceptable</u> Red pine, white pine, jack pine, oak, aspen										
<u>Regen:</u>										
<u>Other</u> Percent to Treat = 100%										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2024										

Total Treatment  
Acreage Proposed: 333



# Report 4 – Site Conditions

Newberry Mgt. Unit  
Anthony Ciaramitaro: Examiner

Compartment: 26  
Year of Entry: 2027



## Availability for Management

Total	Acres	Acres Avail	Acres	Dominant Site Conditions												
Acres	Available	With Condition	Not Available		2B	5B	1A	1C	2F	2G	2H	3A	3D	3J	5D	5E
60	60	0	0	Aspen												
3	3	0	0	Bog												
23	0	0	23	Hemlock								23				
1	1	0	0	Herbaceous Openland												
218	218	0	0	Jack Pine												
21	0	0	21	Lowland Conifers						21						
10	0	0	10	Lowland Mixed Forest			10									
26	4	0	22	Lowland Shrub			22									
256	42	0	214	Lowland Spruce/Fir						9				3	202	
57	57	0	0	Marsh												
61	61	0	0	Mixed Upland Deciduous												
113	84	0	29	Natural Mixed Pines				6	19							3
18	0	0	18	Northern Hardwood			3				6			9		
1	0	0	1	Oak			1									
278	263	12	3	Red Pine		12										3
13	0	0	13	Treed Bog											13	
141	87	13	41	Upland Conifers	13		25				12		3			
102	58	0	43	Upland Mixed Forest			42									1
5	5	0	0	Urban												
6	6	0	0	Water												
84	81	0	3	White Pine										3		
1,496	1,030	25	440	Total Forested Acres	13	12	103	6	19	29	19	23	3	15	215	7
	69%	2%	29%	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		1C: Other Dept. or Div. process	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								



## Report 4 – Site Conditions

Newberry Mgt. Unit  
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2	Unavailable	1A: Federal/State/Local Law	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> BMP's and HCVA @ heart Nat'l River Plan							
3	Unavailable	3A: Conservation values incompatible with harvest at this time	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> T2 Old Growth Consideration							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	5E: Long-Term Retention	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							
5	Unavailable	5D: Unproductive forest land	190	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5D: Unproductive forest land	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							



## Report 4 – Site Conditions

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Year of Entry: 2027



8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Falls within Natural River corridor. Too small to treat otherwise.							
10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand with gullies to feeder stream to Two-Hearted River.							
12	Unavailable	2F: Too steep	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: May be able to harvest small portions with adjacent stands, but is too steep for the most part.							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



# Report 4 – Site Conditions

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16	Unavailable	1A: Federal/State/Local Law	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Within Two-Hearted River Natural River corridor.							
17	Unavailable	3D: Recreational/scenic values	3	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
<b>Comments:</b> High Bridge Campground. Within the Two-Hearted River Natural River corridor.							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> General vicinity of possible retention pocket.							
20	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from Final Trail Pine: 42-027-17.							
21	Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Within Two-Hearted River Natural River corridor.							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	1A: Federal/State/Local Law	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River management zone							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Anthony Ciaramitaro: Examiner

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Year of Entry: 2027



26	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	3	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	1A: Federal/State/Local Law	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River management zone.							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Two Hearted River Visual Management Area</b>	Visual Management Areas	Recreational/Scenic Value Area	<b>SCA</b>	7110
<b>Comments</b> 400' to 1/4 mile recreational and scenic value area along the Two Hearted River.				
<b>High Bridge State Forest Campground</b>	Concentrated Recreational Area	State Forest Campground	<b>SCA</b>	3
<b>Comments</b> High Bridge State Forest Campground				
<b>Hidden Giants</b>	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth	<b>SCA Removal</b>	23
<b>Comments</b> Stand examiner flagging for removal - does not meet old growth criteria				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
1	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	10.4	90	1-50	N/A	Low stand which borders the Two-Hearted River (HCVA). Portions of stand are steep sidehills with small balsam fir, pole-sized (and some larger) red maple and paper birch, dropping into river bottomlands with tagalder, spruce and cedar.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Black Spruce		7	Seedling	6		Tag Alder		Full	5 - 10 feet	5 - 10 feet	
Balsam Fir		8	Seedling	6							
Paper Birch		20	Seedling	8							
Red Maple		25	Seedling	8	90						
White Pine		10		16							
Northern White Cedar		25	Seedling	6	90						
Black Ash		5	Sapling	6							
2	6220 - Alder/Willow	None	2.0			No	Low stand which borders the Two-Hearted River (HCVA). Includes old oxbow.				
3	4319 - Mixed Upland Forest	Sawtimber Well	19.8	114	81-110	N/A	Variable stand. White birch and aspen dying back. Some white spruce dying also. Low quality red maple. Large diameter red and white pine within with heavy fir understory. Stand falls under Two-Hearted Nat'l River guidelines for management (HCVA). 11/24 Low quality overall. Removing hardwood species and thinning through pine to plan spec's. Was previously set up and never cut. Some yellow paint still visible in spots.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
White Pine		20		20	114	White Pine	Low	Variable	Variable		
Quaking Aspen		20		14		Red Maple	Low	Variable	Variable		
Balsam Fir		5	Seedling	8		Balsam Fir	Full	Variable	Variable		
Red Maple		20		12	114	White Spruce	High	Variable	Variable		
White Spruce		15		9							
Paper Birch		10		12							
Red Pine		10		20							
4	42290 - Natural Mixed Pine	Sawtimber Medium	33.0	81	81-110	N/A	Northern portion by the snowmobile trail was originally part of the northern stand (51) and was not treated. Harvest just followed the road. 3.3 acres of pine plantation was left with mixed pine/deciduous understory, transitioning into low ground as you go down the trail.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>						
White Pine		35		14	81						
Red Pine		35		14	51						
Balsam Fir		5	Sapling	5							
Red Maple		10	Seedling	8	31						
Bigtooth Aspen		15	Seedling	6							
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	39.1	95	81-110	N/A	Stand was marked and put up for sale in 1997 as #03-97 "Perch Lake Hardwoods" - sale never sold. Yellow paint is still visible in 2024! Beech has mostly died out and fallen over. Poor quality red maple. Occasional yellow birch. Regeneration of beech in understory, as well as balsam fir. Some co-dominant white pine within. At stand edges, there is more of a paper birch/aspen component. East end of stand would fall under the Two-Hearted Nat'l River Plan (HCVA).				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
Hemlock		3		12		Beech	High	>20 feet	>20 feet		
White Spruce		2		14		White Spruce	Low	Variable	Variable		
White Pine		5		18		Balsam Fir	High	Variable	Variable		
Balsam Fir		5		8		Hemlock	Low	Variable	Variable		
Red Maple		85		12	95	Red Maple	Medium	10 - 20 feet	10 - 20 feet		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
6	429 - Mixed Upland Conifers	Sawtimber Well	37.3	85	81-110	N/A	Patches heavy to RP, mainly on north end. Open-grown stand from the late 1930's; larger white pine is heavily weeviled. Harvesting to the River Plan Spec's. Some fairly steep topography on the first 100 ft of road. Old skid trails or roads were evident on the slopes.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>25</td><td></td><td>10</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>25</td><td></td><td>12</td><td></td></tr><tr><td>White Spruce</td><td>15</td><td></td><td>12</td><td></td></tr><tr><td>White Pine</td><td>30</td><td></td><td>12</td><td>85</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	25		10		Red Maple	5	Seedling	8		Red Pine	25		12		White Spruce	15		12		White Pine	30		12	85	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Balsam Fir</td><td>Full</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Beech	Low	Variable	Variable	Balsam Fir	Full	Variable	Variable
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7	4133 - Aspen, Mixed Pine	Sapling Well	13.9	25	Immature	N/A	Very hilly. Majority of stand sits on a high ridge and slopes downward on all sides. Skid trails within stand; main roads below hills. T. sale #19-97 "Ridge High Aspen", cut Nov - Dec, 1998. Red and white pine were left - also, some hemlock is present.																																													
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Bigtooth Aspen	60	Log	2	25																																																
Balsam Fir	5	Pole	3																																																	
8	500 - Water	None	1.6			No	The 2 Hearted River.																																													
9	42210 - Natural Red Pine	Sawtimber Medium	23.6	85	51-80	N/A	Stand runs along snowmobile trail route. There is a component of larger, older red pine within from pre-1930's logging. Some of the stand appears to have been planted, although there is no record of this. This may have occurred, though, since entire 40's to the north were planted in 1940. Several ridges to contend with. Inclusion of small bog stand. Stand harvested as "Ridgeline Pine", sale #026-07-01. Complete 12/08/09. Regeneration survey in 2014 (trees/acre): RP-245, WP-391, A-391, RM-758, S-196, RO-49, JP-49.Lots of natural pine regeneration coming in. Thick white pine and occasional red pine regeneration coming up. Lots of red pine pole intermediates scattered throughout as well. Decided no to thin the canopy as it's a good example of true multi-age class, pre-logging mixed pine. Also some challenging terrain. Overall a great example stand!																																													
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White Pine	Medium	Variable	Variable																																																	
Red Pine	Low	Variable	Variable																																																	
10	42210 - Natural Red Pine	Sawtimber Well	19.5	84	1-50	N/A	Stand harvested as "Ridgeline Pine", sale #026-07-01. Complete 12/08/09. Cannot find FTP (42-703) for this sale. Does not appear to have been scarified. Only noticed 1 JP seedling in walk through. A few areas with no regeneration. Regen check in 2014: 1791 TPA - aspen (948), red maple (316), white pine (263), oak (105), spruce (105) and red pine (52).Lots of hilly topography. Canopy is relatively close closer to the 75%. Still very few areas of regeneration in some areas of no regeneration evidence of side by sides running through lighting campfires etc.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
11	42200 - Natural White Pine		Sawtimber Well	34.4	110	141-170	N/A	Heavier understory and more hardwood on East half of stand. OPIC - FMD: Primarily a nice, tall patch of white pine ( ` 65-70' heights), although some red pine is present. Along uphill slope line (north boundary of stand), there is a component of oak, M and PB. Farthest west end of stand transitions into more spruce as ground gradually slopes into V/D type. The east end of the stand would fall under the Two-Hearted Nat'l River guidelines (HCVA).Much of the older white pine that are over 20 in appear to be healthy. Log sized white pine with average diameters are around 12 to 18 in. appear to be dying with very few needles wispy branches and weevil damage. Aspen has about died out of the stand under story is very thick with balsam regeneration.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Red Pine	15		18		White Spruce	Low		Variable	Variable
	White Spruce	3	Seedling	8		Balsam Fir	Full		Variable	Variable
	Red Maple	2	Seedling	8		Red Maple	Low		Variable	Variable
	White Pine	75		18	110					
	Quaking Aspen	5		10						
12	622 - Lowland Shrub		None	4.2		No	Low drainage (currently with standing water, flooded timber) with some cedar, spruce and tag alder. Two-Hearted plan (HCVA).			
13	4113 - R.Maple, Conifer		Sawtimber Well	9.2	115	111-140	N/A	Stand contains beech and white birch snags. Some beech still alive, but most have died and fallen down. Large diameter, poor quality wood. Small hardwood stand across drainage - falls under Two-Hearted Nat'l River guidelines (HCVA). Stand adjoins private lands of two separate owners, and an open-ended "pipe" was found in the ground, just off trail road fork, which would be the approximate property line. 5/25Not much for management in the area and proximity to river working against treating stand. The earthen "bridge" or pipe has completely failed and the road is no longer passable a new bridge would need to be built to access this from state forest lands.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Balsam Fir	3	Seedling	8		White Spruce	Low		Variable	Variable
	Red Maple	62		15	115	Hemlock	Low		Variable	Variable
	Beech	2		15		Red Maple	Low		Variable	Variable
	White Spruce	2		10		Balsam Fir	Medium		Variable	Variable
	Yellow Birch	5		12						
	Northern White Cedar	15		15						
	White Pine	2		14						
	Hemlock	8		15						
	Quaking Aspen	1		15						
	14	6122 - Black Spruce		Poletimber Medium	8.5	75	N/A		Stand feeds directly into D/V type and is very wet, spruce bog. Two-Hearted plan guidelines (HCVA) - extreme south tip of stand only.	
	Canopy Species	% Cover	Size Class	DBH	Age					
Black Spruce	100	Seedling	6	75						
15	4113 - R.Maple, Conifer		Sawtimber Well	6.3	115	111-140	N/A	Small hardwood stand across drainage - falls under Two-Hearted Nat'l River guidelines (HCVA). Lower quality red maple with hemlock, and hemlock regeneration present, in places. Misc. spp include: beech, cedar, white pine, aspen. Stand adjoins private corporate lands, and this would be the only access to the stand. ALso surrounded by spruce bog and seasonal drainages. The corporate lands have been thinned previously. Beech and aspen falling out of stand.		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
16	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	19.1	93	111-140	N/A	Stand encompasses a ridgeline and side slope to the south, which is fairly steep, in places. Will be a difficult stand to harvest. Also in 2 hearted river plan area.																																																													
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17	42290 - Natural Mixed Pine	Sawtimber Poor	4.9	85	1-50	N/A	Stand is located in a depression/frost pocket. Stand harvested as "Ridgeline Pine", sale #026-07-01. Complete 12/08/09. Scarification of site yet to be done as of 01/26/10. Cannot find FTP (42-703) for this sale. Does not appear to have been scarified. Regeneration survey in 2014 (trees/acre): WP-514, RM-342, RO-171.Still regenerating with adjacent stand, more retention here. Accessable from Old logging road, ATV traffic are opening trails in the area.																																																													
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18	4199 - Other Mixed Upland Deciduous	Unspecified	24.7	1	Immature		Stand harvested via Clearcut with retention in summer of 2022: Bits & Pieces Mix 42-028-17. Marked some red and white pine for retention and left any hemlock, and oak.Does not pass regen check in fall of 2024. Only two growing seasons since harvest. Advancing to 2028. Other half of original stand to the west was scarified. Variable stand. Occasional spruce, oak and hemlock.																																																													
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19	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	22.7	180	51-80	N/A	Possible type 2 old growth. Beech mostly dead and fallen over. Some still hanging on. Hemlock of varying sizes (saplings to 28"+ dbh). Low quality hardwoods. Lots of downed woody debris. Occasional WB and YB. Stand was previously set up as "Perch Lake Hardwoods" sale # 03-97, but was never cut. Red painted sale boundary lines, and yellow marked to cut trees, are still visible. A couple of 40" + WP were observed.Paint still visible, stand has some low quality HW that is dying off likely because it is seasonally wet. Many 40-50 inch hemlock and super canopy white pine legacy trees observed and measured. Would consider T2 old growth, evidence of rotten stumps from some minor cutting a long time ago. Majority of stand is multi aged hemlock which is showing prolific regeneration in the natural canopy gaps and along the old road. A harvest here would not likely benefit anything.																																																													
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20	42290 - Natural Mixed Pine	Unspecified	15.0	1	Immature		Scarified in fall of 2023 (11/17/2023) by Holli Forest Products. - JATStand harvested via Shelterwood with Retention in summer of 2022: Bits & Pieces Mix 42-028-17. Retained 30-50 BA of red and white pine.Stand encompasses a depression/frost pocket, especially on the west end. Residual spruce fir and maple whips throughout. East end of stand contains more WP. Large, remnant RP and WP throughout.																																																													



Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
21	429 - Mixed Upland Conifers	Sapling Well			49.8	32	Immature	N/A	Mix of species - variable throughout. Pockets/individuals of large white pine, red pine and hemlock. T. sale # 13-90 "East Snow Birch" - cut as of 10/1992. Many grown closed roads run through out.																																																															
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22	4137 - Aspen, Birch	Sapling Well			20.4	27	Immature	N/A	TS# 11-97-01 "Birch Curve" sale - cut 8-97. Red and white pine, and hemlock were left. The snowmobile trail runs through, and along the north boundary, of the stand. Very thick with regeneration from Birch balsam fir beach white spruce and Aspen.																																																															
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23	42210 - Natural Red Pine	Sawtimber Well			13.8	90	111-140	N/A	Stand harvested via Crown Thinning in summer of 2022: Bits & Pieces Mix 42-028-17. Stand is along sloping ground around marsh depression. Large 20+" dbh RP and WP present. Occasional hemlock. Some steep slopes. Variable BA and understory. Old charred WP stump remnants within; west portion of stand is heavier to WP. Unlikely to treat this entry with other stands due to recent harvest and new pine guidance.																																																															
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24	6225 - Bog	None			2.6			No	Marsh depression which contains leatherleaf, grass, and blueberry.																																																															
25	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor			24.9	85	1-50	N/A	Most beech had died and fallen over. Many patches of advanced regeneration from holes. Diverse stand. Very low quality - lots of twisted, large diameter stems. Most of the PB is old and dead/dying also. The snowmobile trail bisects the stand. Birch has aged out of the stand, which is still of very poor quality. Beech regen is taking over the under story with a lower quantity of mixed hardwood. Combined stand with adjacent Birch stand that was no longer relevant.																																																															
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Hemlock	5		12		Balsam Fir	Full	Variable	Variable																																																																
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Balsam Fir	20	Seedling	8		White Pine	Low	10 - 20 feet	10 - 20 feet																																																																

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
26	42210 - Natural Red Pine	Sawtimber Well	43.6	85	111-140	N/A	Stand was set-up as T. sale # 52-97 "Red Ridge Pine", which was never sold (no red pine was marked to cut, only misc. spp.s removal planned - too thick for that). Most of the southern boundary of stand is along a S/SW facing slope, and will make for difficult treatment. Old road follows the bottom of this side hill/edge of low ground. Some large, remnant RP and WP within stand. East N-S finger has lower RP Ba and more understory of RM and Fb.Some trees were cut including Birch and Aspen along the road. Most of the pine is larger and the stand had some sloping topography with a wet "valley". Maybe possible to treat in the future. Decided not to Rx at this entry.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce		1	Seedling	8		White Pine		Low	Variable	Variable
Red Oak		2		10		White Spruce		Low	Variable	Variable
Bigtooth Aspen		8		12		Red Maple		Low	Variable	Variable
Red Pine		60		12	85	Balsam Fir		Low	Variable	Variable
Paper Birch		8	Seedling	8						
White Pine		19		12						
Red Maple		2	Seedling	8						
27	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	20.7	105		N/A	Wet stand even in dry years feathering into surrounding V/D type. Large, remnant white pine found occasionally in stand. Older cedar over balsam, spruce and tamarack. The old "jeep trail" north of the stand has been cut before but this area was likely too wet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		5	Seedling	6		Tag Alder		Low	5 - 10 feet	5 - 10 feet
White Pine		5		20		Northern White Cedar		Low	Variable	Variable
Northern White Cedar		33		13	105	Balsam Fir		Medium	Variable	Variable
Black Spruce		15	Sapling	6						
Paper Birch		10		14						
Balsam Fir		32	Seedling	6						
28	42200 - Natural White Pine	Sawtimber Medium	3.5	100	81-110	N/A	Stand is island out in treed bog/marsh. White pine island in marsh. Black bear habitat.Walked to stand from the road leading down to the marsh from the west. just an island, trees are not as big as you would expect. Likely stunted by water.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		100		20	100					
29	6122 - Black Spruce	Poletimber Poor	189.6	80		N/A	Some spruce, tamarack and cedar. HCVA - Two Hearted mgmt plan.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		85	Pole	4	80	Bog Birch		High	5 - 10 feet	5 - 10 feet
Tamarack		10	Pole	4						
Northern White Cedar		5	Seedling	7						
30	42200 - Natural White Pine	Sawtimber Well	10.6	110	51-80	N/A	Split off of WP9 stand to the NE, this section slopes down to a lowland WP stand that is winter ground and much less dense.  Heavier understory and more hardwood on East half of stand. OPIC - FMD: Primarily a nice, tall patch of white pine (ˆ 65-70' heights), although some red pine is present. Along uphill slope line (north boundary of stand), there is a component of oak, M and PB. Farthest west end of stand transitions into more spruce as ground gradually slopes into V/D type. The east end of the stand would fall under the Two-Hearted Nat'l River guidelines (HCVA).Much of the older white pine that are over 20 in appear to be healthy. Log sized white pine with average diameters are around 12 to 18 in. appear to be dying with very few needles wispy branches and weevil damage. Aspen has about died out of the stand under story is very thick with balsam regeneration.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		30		18		Red Maple		Low	Variable	Variable
White Pine		60		18	110	White Spruce		Low	Variable	Variable
White Spruce		3	Seedling	8		Balsam Fir		Full	Variable	Variable
Red Maple		2	Seedling	8						
Quaking Aspen		5		10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>31</b>	42110 - Planted Red Pine	Sawtimber Well	13.6	85	81-110	N/A	Stand harvested via Crown Thinning in summer of 2022: Bits & Pieces Mix 42-028-17.Planted S, 1940 with 3 - 0 R and 2- 0 W,J. "Perch Lake Pine" sale #002-97-01 - sale never sold. Old yellow and red paint still visible, in places. The snowmobile trail runs through the stand.
<b>32</b>	4319 - Mixed Upland Forest	Unspecified	12.4	2	Immature		Stand harvested via Clearcut with Retention in summer of 2022: Bits & Pieces Mix 42-028-17.Monitor treatment passes with deciduous regen alone, aspen and red maple accounting for the majority of stems. Below, mixed R/W pine are beginning to show up with hemlock balsam and spruce in pockets. Some 1 yr pine seedlings beginning to germinate. Should be fully stocked next inventory. Residual fir and mixed species left from harvest. Old road access from snowmobile trail north to ORV trail, and continues north into next compartment. Some side slopes may be difficult to log. Beech component has dies out and fallen ver. Birch is dying. Aspen is of age to cut. Some larger WP and RP present. Stand runs along north-facing slope. The ORV trail runs along the north stand line.Retention pocket from stand this stand to the west.
<b>33</b>	42110 - Planted Red Pine	Sawtimber Medium	25.6	85	81-110	N/A	11-2024 Stand contains heavy deciduous regeneration in parts. With some 20 inch oaks found. There is also a fair amount of red pine intermediates and regen. Consider an overstory removal and flat plant. Burn understory if possible following harvest. Will depend on remaining regen and slash content. Otherwise reevaluate deciduous competition on re-entry. Stand harvested in 2008 "Schook Drive Pine" #011-07-01. Regeneration survey in 2012 (trees/acre): RP- 86, WP-68, JP-24. Stand contains two different original planting years: N1/2 of stand was planted S, 1940 with 2 - 0 J,W and 3 - 0 R; S1/2 planted F, 1949 with 2 - 0 R,J. The ORV trail runs along a portion of the east stand boundary.
<b>34</b>	42110 - Planted Red Pine	Sawtimber Medium	30.2	85	1-50	N/A	11-24 Less regen then adjacent stand. This site WAS planted same year as adjacent stand. 1940. per the planting record. Good JP regen in areas. Semi-open areas mostly JP, but pockets of aspen/maple/oak. Pockets of residual RP logs - not much different than adjacent stand (just bisected by ORV trail). Variable stand. Majority of stand is in a bowl. Sale #10-97-01 "ORV Trail Jack Pine". Harvest completed 1/00. Some residual red and white pine were left, per OI instructions. FTP42-480: scarification completed 8/01 and regeneration check was completed 2004 with stocking of 1,249 t/ac. Stand boundary runs along ORV trail.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
35	42200 - Natural White Pine	Sawtimber Medium	16.0	51	51-80	N/A	Sale #002-97-01 "Perch Lake Pine", set up but never sold. Old yellow paint still visible. Beech is dead and fallen over. Birch is dying. Thick understory. Occasional WP and RP. There is so much dead now that it would be difficult to cut. The snowmobile trail runs through the stand. White pine now dominate with mixed decid and balsam shading out oak and other seedlings																																																												
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36	42210 - Natural Red Pine	Sawtimber Poor	25.3	85	1-50	N/A	Portion of the stand (W. end) planted F, 1949 w/2 - 0 R,J. ORV and snowmobile trail influence. Remove jack pine and thin red pine, where needed. Stand harvested via shelterwood as "CCC Camp Pine", sale #015-07-01. Complete 10/5/09. Regeneration check in 2014 (trees/acre): RO-913, A-314, RM-400, Fx-143, WP-57 and S-57.11-24 Aspen and oak regen has taken over understory. Will likely cheese out and give way to pine seedlings in due time based on the sandy soil types. A small sliver of the adjacent RP planation in stand 51 was left not cut and the harvest followed the road. This sliver was joined with this stand.																																																												
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38	310 - Herbaceous Openland	None	1.4			No	Power line and trail road.																																																												
39	4310 - Pine, Oak Mix	Sapling Well	58.1	23	Immature	N/A	Nice diverse stand! Sale# 009-97-01 "Dragging Otter Jack Pine" completed 2000 (a combination of 3 different stands last entry). FTP42-478: scarification completed 8/2001 with regeneration check done 5/04. Stocking of 1,939 t/ac of mixed regen. Continue to manage for mixed species diversity. Some oak and white pine residual within the stand, and associated reproduction is present.  Older stand is being replaced by younger stand. Aspen, white pine red maple white birch, red pine saps looking good. Some jack pine and aspen could be cut, but so little quantity. Small roadside stand of aspen, paper birch, maple and beech - both birch and beech are dying. Low quality and small diameters - best left for visual purposes along County Road.11-24 previous inventory good																																																												
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40	42290 - Natural Mixed Pine	Sawtimber Medium	6.3	77	1-50	N/A	Sand and reindeer moss with little grass. Small PB clumps within as well as some older R,W. Limby jack and white pine. Occasional oak.																																																												
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41	429 - Mixed Upland Conifers	Sawtimber Well	13.4	100	111-140	N/A	New stand added from LOTS review of DNR owned 40. Lies on the 2 Hearted River and contains a mix of conifer and deciduous based on Nearmap imagery. Some legacy white pines visible on river's edge. Stand info was a remote call based on available data and imagery. Does not appear to have been harvested as far back as 1998 or further. No evident signs of logging. There is no current ground access without crossing the river or doing "survey work". Some rapids on this part of the river. Several private camps lie to the east along the access road. The road crosses briefly into state near a survey grade corner.																																												
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42	42120 - Planted Jack Pine	Poletimber Well	8.0	49		N/A																																													
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43	623 - Emergent Wetland	None	42.8			No	Water and bog/fen.																																												
44	6239 - Mixed Emergent Wetland	None	2.2	0	Unspecified	No	Vernal pool from imagery.																																												
45	42260 - Natural Pine, Mixed Deciduous	Sapling Well	18.3	24	Immature	N/A	Stand was harvested in 1999 under sale #14-97 "407 Jack Pine" (Unit 1). FTP42-479: scarification completed 11/00, and regeneration check in 5/04 indicated stocking of 1,713 t/ac (mixed). More of an aspen stand to the north with pine throughout. Some RP as seedlings under the aspen. Combined with stand 44 across the road to the west. "Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. All paper birch and red/white pine left for visual purposes. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584, Aspen=222, RP=81, WP=20 TPA = 907. Patchy aspen regeneration."Large Aspen clone creating pockets of pure Aspen and in other spots thick scotc pine is overtaking everything and regenerating .																																												
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46	42120 - Planted Jack Pine	Poletimber Well	23.8	48	141-170	N/A																																													
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					Bigtooth Aspen	Low	>20 feet	>20 feet																																											

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
47	4132 - Aspen, Jack Pine	Poletimber Well	13.3	58	141-170	N/A	10/20/24 Inventory remains accurate. JP/WB/A on southeast corner. Most of stand is aspen (with other species) on edge between pole and log size. Sale # 2-65? Stand slopes towards marsh type. Heavier aspen regeneration on sidehill (~ 2" dbh and 24' tall). Some white pine spruce and oak regen present in the understory. The ORV trail crosses stand at the south end.Stand is overall dense with aspen and jackpine with some mixed deciduous coming up in understory. Large pocket of older pine in center of stand.																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>60</td><td>Sapling</td><td>5</td><td>58</td></tr><tr><td>White Pine</td><td>2</td><td></td><td>16</td><td></td></tr><tr><td>Red Pine</td><td>2</td><td></td><td>16</td><td></td></tr><tr><td>Jack Pine</td><td>26</td><td>Seedling</td><td>8</td><td>75</td></tr><tr><td>Paper Birch</td><td>10</td><td>Seedling</td><td>8</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	60	Sapling	5	58	White Pine	2		16		Red Pine	2		16		Jack Pine	26	Seedling	8	75	Paper Birch	10	Seedling	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Oak</td><td>Medium</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr><tr><td>White Spruce</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	White Pine	Medium	Variable	Variable	Red Pine	Low	5 - 10 feet	5 - 10 feet	Red Oak	Medium	< 5 feet	< 5 feet	White Spruce	Low	5 - 10 feet	5 - 10 feet
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48	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	11.2	81	51-80	N/A	10/20/24 Inventory remains accurate. Highly variable stand, southern portion contains mature red oak with extremely dense seedling layer of seedlings and saplings. Younger aspen and mixed natural pine throughout as well. The ORV trail crosses stand. This part of cutting has regenerated best, mainly to aspen. Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907planted jp 6ft doing well. lots of residual wp rp rm pine are 20 plus in. mixed pine and spruce intermediates moderate coverage 14 ftRegen Check: 11/9/2021 - 640 TPA JPRegen Check: 10/16/2019 - 833 TPA6/9/19 Stand 90 - Planted 636 trees/ac, 933 trees/ac plot data, 1054 trees/ac linear data. 06/12/18- Jackpine regeneration TPA is 460, basal area ranges from 10-40.RP, WP, WB residual. Aspen approx. 10' tall. Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907. The snowmobile trail runs along portion of stand boundary.Trenched in 2016. FTP # 42-689. Planted to JP in trenches 5/9/2017.																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>45</td><td></td><td>12</td><td>81</td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>14</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>25</td><td>Seedling</td><td>5</td><td>15</td></tr><tr><td>Jack Pine</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td></td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	45		12	81	Red Pine	5		14		Bigtooth Aspen	25	Seedling	5	15	Jack Pine	10	Seedling	7		White Pine	10		12		Paper Birch	5		10																						
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49	6122 - Black Spruce	Poletimber Medium	15.8	85		N/A	Small spruce bog connecting two wet areas with natural springs. ORV trail running through (corduroy planking bridge present).																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Tamarack</td><td>33</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>White Pine</td><td>3</td><td></td><td>14</td><td></td></tr><tr><td>Jack Pine</td><td>3</td><td></td><td>12</td><td></td></tr><tr><td>Red Pine</td><td>1</td><td></td><td>14</td><td></td></tr><tr><td>Black Spruce</td><td>60</td><td>Seedling</td><td>6</td><td>85</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Tamarack	33	Seedling	6		White Pine	3		14		Jack Pine	3		12		Red Pine	1		14		Black Spruce	60	Seedling	6	85																										
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51	429 - Mixed Upland Conifers	Sawtimber Well			29.6	100	111-140	N/A	Stand contains the High Bridge State forest campground. See notes below. Stand is a mixed upland pine site with dominate overstory red and white pine. Intermixed are low quality stunted red maple, aspen pocket inclusions and individual mature trees on the slopes near the river, occasional oak and jack pine. Regen is variable but present across the stand. Pine regen and intermediates exists but is heavy to white pine. Soils are Rubicon and kalkaska sands and Kinross mucks in the riverbed. The campground is maintained by parks. Several trees are removed for hazard work yearly. Many individual trees show damage from campers and firewood gathering.  The stand also encompasses the foundations of the "old bridge" next to the campground. Several private parcels also have easements through the campground to their river property, one in particular is a very small sliver parcel to the south west and has private road postings on the state forest road leading to the camp to dissuade campers from trespassing.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>20</td><td>Sapling</td><td>6</td><td>25</td></tr><tr><td>Quaking Aspen</td><td>5</td><td></td><td>12</td><td>50</td></tr><tr><td>Red Maple</td><td>5</td><td></td><td>15</td><td>50</td></tr><tr><td>Red Pine</td><td>25</td><td></td><td>16</td><td>90</td></tr><tr><td>Hemlock</td><td>20</td><td></td><td>20</td><td>100</td></tr><tr><td>White Pine</td><td>25</td><td></td><td>25</td><td>100</td></tr></table>					Canopy Species	% Cover	Size Class	DBH		Age	Balsam Fir	20	Sapling	6	25	Quaking Aspen	5		12	50	Red Maple	5		15	50	Red Pine	25		16	90	Hemlock	20		20	100	White Pine	25		25	100	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	10 - 20 feet	10 - 20 feet							
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52	42200 - Natural White Pine	Sawtimber Well			34.0	85	51-80	N/A	Stand part of "Long Ridge Aspen" sale, #16-97-01. Cutting completed 8/98 - 9/98 (Units 2 and 3). No pine marking was done with sale harvest. Stand still contains a mixed pine overstory. large overstory pine regening to more whitepine like stand to the south. Aspen coming in from North. Slight hill surrounded by wet marsh ground.																																																		
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53	429 - Mixed Upland Conifers	Sawtimber Well			12.2	110	51-80	N/A	Stand has quite a bit of variability. 11-24 large legacy wp was not previously cut. Mixed decid saplings coming up with wp regen. Great bear habitat!																																																		
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54	500 - Water	None			2.5			No	The Two Hearted River, made famous by Ernest Hemingway's poem of the same moniker. New stand added from LOTS review of DNR owned 40.																																																		
56	6122 - Black Spruce	Poletimber Well			42.3	78		N/A	Old road bisects stand and splits to run along far edges. Road is in poor shape then turns into strictly a winter road and bog. Evidence of harvesting in field and from old photos. Stand falls under Two-Hearted Nat'l River guidelines (HCVA).																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
62	42220 - Natural Jack Pine	Poletimber Well	32.0	51	141-170	N/A	Occasional scotch pine. T. sale # 14-72A - cut August-Oct., 1972. Scarification completed 8/73 (FTP # 91/V-3). Some Oak, PB and red maple within. The ORV trail runs through the entire stand.10/20/24 Inventory remains accurate. Stand's JP is mature and begging to die, several broken tops throughout the stand. lower density than other nearby JP stands.																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>97</td><td>Seedling</td><td>7</td><td>51</td></tr><tr><td>Red Oak</td><td>3</td><td></td><td>14</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	97	Seedling	7	51	Red Oak	3		14											
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63	42220 - Natural Jack Pine	Poletimber Well	10.6	42	81-110	N/A	On edge between sapling/pole. Scattered scotch pine logs throughout stand (riddled with sapsucker holes). Scarification complete in 1981 FTP 42-94 (Sale #50-79A. Stand removed in preparation for scotch pine fertilization project).Stand to the south was cut, retaining for green up requirements and landscape diversity. Cutting adjacent stand this entry. Slight budworm damage on all of the jack pine on this area. Mixed densities of jack and scotch pine.																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>70</td><td>Pole</td><td>4</td><td>42</td></tr><tr><td>Scotch Pine</td><td>30</td><td></td><td>4</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	70	Pole	4	42	Scotch Pine	30		4											
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64	4212 - Planted Jack Pine	Unspecified	4.1	3	Unspecified		Stand harvested winter of 2019/20 - Final Trial Pine 42-27-17. Final harvest. 07/15/2020 - herbicide site prep spray treatment removed (originally on 2020 POW) due to time constraints, prioritization and budgets resulting from COVID-19 impacts.Site trenched summer of 2020.Site planted spring of 2021 at 600 TPA of Jack pine; regen check in fall of 2021.Regen survey fall of 2021 (contractor): Jack Pine 920 TPA.Regen checked 9/26/23Planted Jack Pine 840 TPA Non target 380 TPA Heavy fern competition. NOTE: Stand PCT occurred 9/2024, no treatment report generated. NON POW treatment. Brush saw release of planted spp. Removal of all scotch pine and competing vegetation. Doc's added to stand data.																									
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Jack Pine	High	< 5 feet	< 5 feet																													
65	42120 - Planted Jack Pine	Sapling Well	9.9	15	Immature	N/A	Trenched and planted (FTP 42-690). JP 2-4'tall. Scotch pine 4-10' tall. Stand harvested as "High Bridge Patches", sale #101-07-01. Completed 5/29/08. Planted to JP in spring 2009. Replant in spring 2011. Regeneration check summer 2012: JP = 629 TPA = 629.																									
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Jack Pine	65	Log	1	15																												
Scotch Pine	30	Log	1																													

10/20/24 Inventory remains accurate. JP now 15 to 20ft. Doing well. Some entering pole size class. WP natural regen scattered throughout from same time period as plant.

Stand	Level 4 Cover Type	Size Density		Acres	Stand Age	BA Range	Managed Site	General Comments			
66	42110 - Planted Red Pine	Sawtimber Poor		7.7	91	1-50	N/A	<p>10/24 inventory: Stand separate from southern rx. Denser residual overstory of rp/wp. Some intermediate 10ft jack pine. Planted with jp.</p> <p>NOTE: Stand PCT occurred 9/2024, no treatment report generated. NON POW treatment. Brush saw release of planted spp. Removal of all scotch pine and competing vegetation. Doc's added to stand data.</p> <p>11/7/22 - 3rd year regen survey shows RP 833TPA. 9/26/20 - Linear survey shows 564 TPA planted RP survival with JP artificial and natural regen. Recommended replant if MO is planted RP. Being now a mixed site, recommending to continue to 3rd year regen check based on current stocking.</p> <p>5/13/20 - Site replanted with RP at 419 TPA for a total TPA of 960 (Previously planted JP, JP volunteers and now red pine seedlings.</p> <p>Regen Check: 10/15/2019 - 450 TPA JP with 50 TPA JP volunteers. RP 50 Volunteer TPA. Scotch Pine approximately 75 TPA; mixture of saplings and seedlings (heavier on east side). Pockets of mortality in new JP stocking. Failed Regen check. Proposed with TMS to hand plant gaps and direction is to possibly use Wyman RP stock to fill gaps next year.</p> <p>6/9/19 Stand 66 - Planted 263 trees/ac, 800 trees/ac plot data, 982 trees/ac linear data</p> <p>06/13/18- Jackpine TPA is approximately 383, basal area ranges from 10-30.</p> <p>Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Red pine (planted in 1934), left as residual for visual and seed source. Scarification completed august 2009 FTP 42-689. Regeneration check summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907. Scotch pine saplings along east edge, lining road Trenched in 2016. FTP # 42-689. Planted to JP in trenches 5/9/2017.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
White Pine		10		20	91	Red Pine			Low	>20 feet	>20 feet
Red Pine		90		15	91	Red Pine			Low	< 5 feet	< 5 feet
						Jack Pine			Low	< 5 feet	< 5 feet
						Scotch Pine			Medium	< 5 feet	< 5 feet
						Jack Pine			Medium	< 5 feet	< 5 feet
						White Pine			Low	>20 feet	>20 feet
67	42290 - Natural Mixed Pine	Sapling Well		17.6	24	Immature	N/A	<p>Regen 10-20' tall. Residual WP and RP. T. sale #14-97, "407 Jack Pine" - harvested 10/99. FTP 42-479 - scarification completed 11/00 and a regeneration check 5/2004 = 1,713 t/ac.</p> <p>10/20/24 Inventory remains accurate. Jack pine now 20 to 30 ft. reaching pole size class; very dense. Large amount of residual Red and White pine intermixed compared to nearby stands.</p>			
Canopy Species		% Cover	Size Class	DBH	Age						
Jack Pine		45	Log	4	24						
Red Pine		5		12							
White Pine		10	Log	1							
Scotch Pine		27	Log	1							
White Pine		10		14							
Red Maple		3	Log	1							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
68	42220 - Natural Jack Pine	Poletimber Well	39.4	47	81-110	N/A	Just growing into pole size. Occasional scotch pine. Thick stand. T/sale # 13-76A, cut summer, 1976. Scarification completed 7/1977 (FTP C-145). 10/20/24 Inventory remains accurate. Some logs, mostly poles and saplings. jp with wp and rp mixed in in medium quantity. A few residual mixed pine natural regen throughout with some deciduous saplings in sw corner. Minor budworm damage simulator to start to the east.																																								
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Red Oak	2		14																																												
69	42290 - Natural Mixed Pine	Sapling Medium	28.2	24	Immature	N/A	OPIC - FMD: TS# 013-97 "High Bridge Jack Pine" - harvested 10/99. All red and white pine were left (approximately 10-20 BA). FTP 42-477 for scarification completed 11/00 and a regeneration check was completed 5/2004 = 533 t/a. Stand falls under Two-Hearted plan (HCVA).  RP, WP and oak left from cutting. Scattered scotch pine volunteers also. Would like to see more regen but may fill in over time. Semi-open stand. Lots of oak seedlings! Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907. The stand falls within the Two-Hearted Nat'l Rivers guidelines for management (HCVA).  10/20/24 Inventory remains accurate. Split off oak stand to the south. Extremely good natural regen of various pine spp. after scarification. "Model stand" Residual pine left from harvest throughout.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>55</td><td>Log</td><td>2</td><td>24</td></tr><tr><td>Bigtooth Aspen</td><td>2</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Oak</td><td>3</td><td>Seedling</td><td>9</td><td></td></tr><tr><td>Red Pine</td><td>15</td><td></td><td>12</td><td></td></tr><tr><td>Scotch Pine</td><td>17</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Maple</td><td>3</td><td>Log</td><td>1</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>8</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	55	Log	2	24	Bigtooth Aspen	2	Log	1		Red Oak	3	Seedling	9		Red Pine	15		12		Scotch Pine	17	Log	2		Red Maple	3	Log	1		White Pine	5		8	
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71	4211 - Planted Red Pine	Unspecified	79.8	1	Immature		5/21/2025 planted red pine 835 TPA, beautiful site wide trenching.Aerial herbicide treatment completed on 7/9/24.Site was trenched on 6/19/2023 - 6/22/2023. Site was rollerchopped on 9/14/2022.Stand was harvested via Clearcut with Retention in 2020: Final Trial Pine - 42-027-17.Planted S, 1940 with 2 -0 W,J and 3 - 0 R. Stand is influenced by both ORV and snowmobile trail. Fairly steep terrain, in places. Stand harvested as "CCC Camp Pine", sale #015-07-01. Complete 10/5/09. Scarification completed 2010 by Holli FTP 42-702. Regeneration check in 2014 (trees/acre): RP-184, WP-396, RO-606, RM-474, A-422, JP-53. Regeneration looked poor during current survey. Previous stand info(Site was trenched on 6/19/2023 - 6/26/2023. Site was rollerchopped on 9/14/22. Ready to be trenched. A very small pocket on the north end of this stand near the road split was not chopped and has some inoperable topography.  Stand was harvested via Clearcut with Retention in 2020: Final Trial Pine - 42-027-17.Stand has quite a bit of variability; along snowmobile trail route, stand contains more mixed red pine. Some planted pine within SESW of section 20 (S,1940). Stand harvested via shelterwood as "CCC Camp Pine", sale #015-07-01. Complete 10/5/09. Regeneration check in 2014 (trees/acre): RO-457, WP-431, A-152, RM-101, RP-76, JP-25, S-177.)																																								

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
73	4130 - Aspen	Sapling Well	11.9	17	Immature	N/A	Nice aspen regeneration. Scattered WP, RP and WS log/pole and WB. Stand affected by Two-Hearted Natural River guidelines (HCVA) when harvest boundaries were placed. Although MO=A, long term management would be better as red or white pine (due to proximity of river and potential beaver issues); maintaining diversity of species within the stand will still be desirable, though, so some aspen clones should still be encouraged to regenerate. 1997: Stand harvested as "High Bridge Patches", sale #101-07-01. Completed 5/29/08. Regeneration check summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907.10/20/24 Inventory remains accurate. Aspen growing well, birch about gone from stand, some various regen. Very good WP regen and saplings. Mixed natural stand with patches of species throughout.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>	
White Pine		5			12		
White Pine		3	Log		1		
White Spruce		2	Log		1		
Bigtooth Aspen		77	Log		1	17	
Red Maple		2	Log		1		
Jack Pine		1	Log		1		
Red Pine		4			12		
White Spruce		3			10		
Paper Birch		3	Log		1		
74	42120 - Planted Jack Pine	Sapling Well	21.8	15	Immature	N/A	Trenched and planted (FTP 42-690) spring 2009. A few WP poles left standing. West edge has scotch pine volunteers. JP 3-5' tall. The ORV trail runs through this stand. 1997: Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Regeneration survey summer 2012: JP = 629 TPA = 629. Replant east 1/2 spring 2011.  10/20/24 Inventory remains accurate. Filling with jack pine(20ish feet), with natural scotch pine regen filling in. Aspen also poking into any gaps in the pine canopy.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>	
Bigtooth Aspen		8	Log		3		
White Pine		5	Pole		3		
Scotch Pine		2	Log		1		
Jack Pine		85	Log		3	15	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>		<b>Size</b>		
Scotch Pine		Medium	< 5 feet		< 5 feet		
Jack Pine		Medium	< 5 feet		< 5 feet		
75	4212 - Planted Jack Pine	Unspecified	4.6	5	Unspecified		10/24 inventory: JP Doing well maple and oak seedlings coming in as well slash from pct minimal. no scotch pine overtopong jp.  NOTE: Stand PCT occurred 9/2024, no treatment report generated. NON POW treatment. Brush saw release of planted spp. Removal of all scotch pine and competing vegetation. Doc's added to stand data. Treatment for herbicide use monitor completed.  Artificial Regen check 9/6/23 Planted Jack Pine 802 TPA Non Target 1120 TPA  Stand harvested via Clearcut - Final Trial Pine 42-27-17: Winter of 2019/2020.  07/15/2020 - herbicide site prep spray treatment removed (originally on 2020 POW) due to time constraints and budgets resulting from COVID-19 impacts. Trenching of site now complete. Site planted spring of 2021 with 540 TPA of Jack pine; regen check in fall of 2021. Regen survey fall of 2021 (contractor): Jack Pine 900 TPA.  Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Summer 2012: JP = 629 TPA = 629. All species except scotch pine has been cut. Scotch pine readily seeds everywhere! Numerous volunteers. Planted F, 1917 with 2 - 0 Scotch pine and 1 - 0 JP. Stand falls along county road influence, as well as adjacent to ORV trail staging area and snowmobile trail route.
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>		<b>Size</b>		
Jack Pine		High	< 5 feet		< 5 feet		
Red Maple		Low	< 5 feet		< 5 feet		
Red Oak		Low	< 5 feet		< 5 feet		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
76	42110 - Planted Red Pine	Sawtimber Medium	12.4	91	51-80	N/A	NW corner doesn't have much in the way of understory, but more aspen is encountered as you head south throughout the stand. Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907. Stand was originally planted F, 1934 with 2 - 0 R, J. Falls under Two-Hearted River guidelines (HCVA).																																											
							10/20/24 Inventory remains accurate. Very good mixed natty pine regen from plantings. Bigtooth aspen has taken over the under story. The NW corner filled with natural pine regen from plantings.																																											
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78	42110 - Planted Red Pine	Sawtimber Poor	5.5	101	1-50	N/A	10/20/24 Inventory remains accurate. Fully stocked jp seedling stand, under mixed rp wp xlogs and birch and maple poles throughout. Some log sized birch dying out. Some seedling mortality but still fully stocked. Some bad form JP seedlings but nothing out of the ordinary given site characteristics and topography. Better regen in patches further in.																																											
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Canopy Species	% Cover	Size Class	DBH	Age																																														
Paper Birch	10		10																																															
Red Maple	5	Seedling	6																																															
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Sub-Canopy Species	Density	Avg. Height	Size																																															
Jack Pine	Full	< 5 feet	< 5 feet																																															
							06/13/18- Jackpine TPA is 450, basal area ranges from 10-30. Aspen component.																																											
							Scattered RP, WP, WB residual trees. JP saps have established in bog edge. Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907 Trenched in 2016. FTP # 42-689. Planted to JP in trenches 5/9/2017.																																											
79	4123 - Red Oak	Sawtimber Poor	4.8	101	1-50	N/A	Stand split from mixed natural pine to the north. Contains the old logging road from the previous '99 sale. Canopy is open with large older red oak scattered around with uncommonly high oak regeneration of variable heights. Various other spp. bleeding in from other stands.																																											
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Sub-Canopy Species	Density	Avg. Height	Size																																															
Red Oak	Full	Variable	Variable																																															
80	122 - Road/Parking Lot	None	3.2			No	County Road 407 and it's R.O.W.																																											
81	122 - Road/Parking Lot	None	1.8			No	County Road 410.																																											
82	500 - Water	None	2.2			No	H2O																																											
87	623 - Emergent Wetland	None	12.2			No																																												



Stand	Level 4 Cover Type			Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
88	6224 - Treed Bog			None	13.0			No	Wet		
89	42200 - Natural White Pine			Sawtimber Medium	17.1	102	51-80	N/A	Stand is more of a white pine type, with ridges and rolling topography that go down to wet boggy areas. Adjacent pine stand to the west. Stand harvested via shelterwood as "CCC Camp Pine", sale #015-07-01. Complete 10/5/09. Regeneration check in 2014 (trees/acre): WP-783, RM-783, A-269, Fs-196, S-73, RO-49. Aspen and Birch are filling in after harvest. Old white pine and some hemlock found leading into the bog		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density		Avg. Height	Size
Red Pine		15		14		Bigtooth Aspen		Medium		10 - 20 feet	10 - 20 feet
Paper Birch		5		10	26	White Pine		Medium		Variable	Variable
White Spruce		10		10		Bigtooth Aspen		Medium		Variable	Variable
White Pine		70		16	102	Black Spruce		Medium		Variable	Variable
						Red Maple		Medium		Variable	Variable