



# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 42037

Entry Year 2021

Acreage: 3,761

County Luce

Management Area: Deer Park

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**Revision Date:** 2019-08-13

**Stand Examiner:** Amy Douglass

**Legal Description:**

T49N R09W Sections 19-22, 27-30 & 32-33

**Identified Planning Goals:**

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

**Soil and topography:**

Several soil types are present within the compartment. The main topography is level to rolling uplands and lowlands. Rubicon sand, AuGres-Dawson-Rubicon complex and Rubicon-Spot complex dominate the area. Lesser soils include Kinross-AuGres complex, Crowell-AuGres sands, Tawas-Spot-Finch complex, Rousseau fine sand, Dawson, Greenwood, and Loxley soils, Rousseau-Spot complex, Crowell-Deford complex and Liminga fine sand.

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

State lands predominate the compartment with scattered 40 to 120 acre parcels within and adjacent to the west and east. State lands border to the north. State and private border to the west. The Nature Conservancy borders to the east and the East Branch Club borders to the south. Not much in the way of development within or adjacent to the compartment. A recent land exchange (2018) with The Nature Conservancy was completed in Sections 21, 27 and 28. There are a couple 120 acre parcels of Hancock lands adjacent to, and within, the compartment.

**Unique Natural Features:**

The potential exists for several threatened and endangered flora and fauna.

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

None noted.

**Special Management Designations or Considerations:**

The East Branch Two-Hearted River falls under the Two-Hearted Natural River Plan.

**Watershed and Fisheries Considerations:**

Fisheries Values: Good

Located in this compartment are the East Branch Two Hearted River, Homestead Lake, and a few scattered potholes lakes. The East Branch Two-Hearted River provides a native brook trout fishery along with a fall and spring run of steelhead (seasonal). The East Branch Two Hearted River falls in the Natural River designated and is subject to the guidelines established in the Natural River Plan. Homestead Lake is a marginal fishery at best with some history of Fisheries Division practices here. The pothole lakes in this area are very likely subject to frequent winterkills. Any proposed treatments should adhere to the Natural River Plan and standard BMP's near any surface water.

**Wildlife Habitat Considerations:**

Compartment 37 lies in northcentral Luce county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and lies within the Deer Park Management Area with American marten, Kirtland's warbler, and red crossbill as featured species. The compartment has numerous small lakes scattered throughout the area and is bordered in part along the west side by the East Branch of the Two-Hearted River. The compartment is a mix of pine types surrounded by pockets of treed bogs with small amounts of aspen or hardwood. Prescribed stands are scattered through the compartment and therefore wildlife travel corridors will be maintained adequately.

Wildlife objectives for this compartment will be met by retaining of hard and soft mast producing trees, wildlife den and nest trees and snags in harvested stands. Structural diversity of stands will be retained by preserving understory spruce and maple in harvested pine stands and species diversity will be maintained by protecting non-pine species in pine dominated stands. Marshes will be buffered and low ground leatherleaf areas will be avoided during harvest to preserve wetland wildlife values and habitats. Wildlife species potentially using this compartment include white-tailed deer, moose, black bear, gray wolves, coyote, marten, fisher, ruffed and spruce grouse.

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

No active sand/gravel pits exist within 6 miles, but there is likely some potential for sand within the compartment. There is no history of mineral leasing in the compartment. There is no known potential for metallic minerals in this area, and no known potential exists economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

## **Vehicle Access:**

Located southwest of Pike Lake, primary access is from the north via County Road 435 and the Swamp Lakes Road. There is limited access from the south via the Widgeon Road. A network of lesser forest roads (two track dirt roads) transects the compartment providing ample vehicle access. However, many of the sand roads contain loose sand or are seasonally (sometimes longer) flooded. The roads within the Duck Lake Fire area still have deadfall across them each year.

## **Survey Needs:**

Survey corners will be needed in Section 20 for proposed treatment (center of section and E1/16 corner).

## **Recreational Facilities and Opportunities:**

Recreational facilities include the Pine Stump Snowmobile Trail (Trail #8) which runs along the northern reaches of the compartment. Recreational opportunities would include camping, hunting, hiking, berry picking, wildlife/nature viewing, snowmobiling and ORV riding. There are campsites used around Homestead Lake.

## **Fire Protection:**

The compartment is part of the Two Hearted Zone Dispatch area. Large fire runs are not likely because of the fragmented hazardous fuel types, but possible because of limited access routes and mixture of upland and lowland cover types limits use of heavy wheeled equipment. However, 3/4 of the compartment was burned in 2012 as part of the Duck Lake Fire.

## **Additional Compartment Information:**

### **The following reports from the Inventory are attached:**

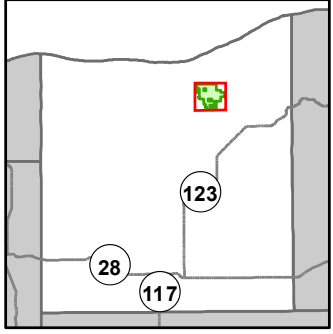
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

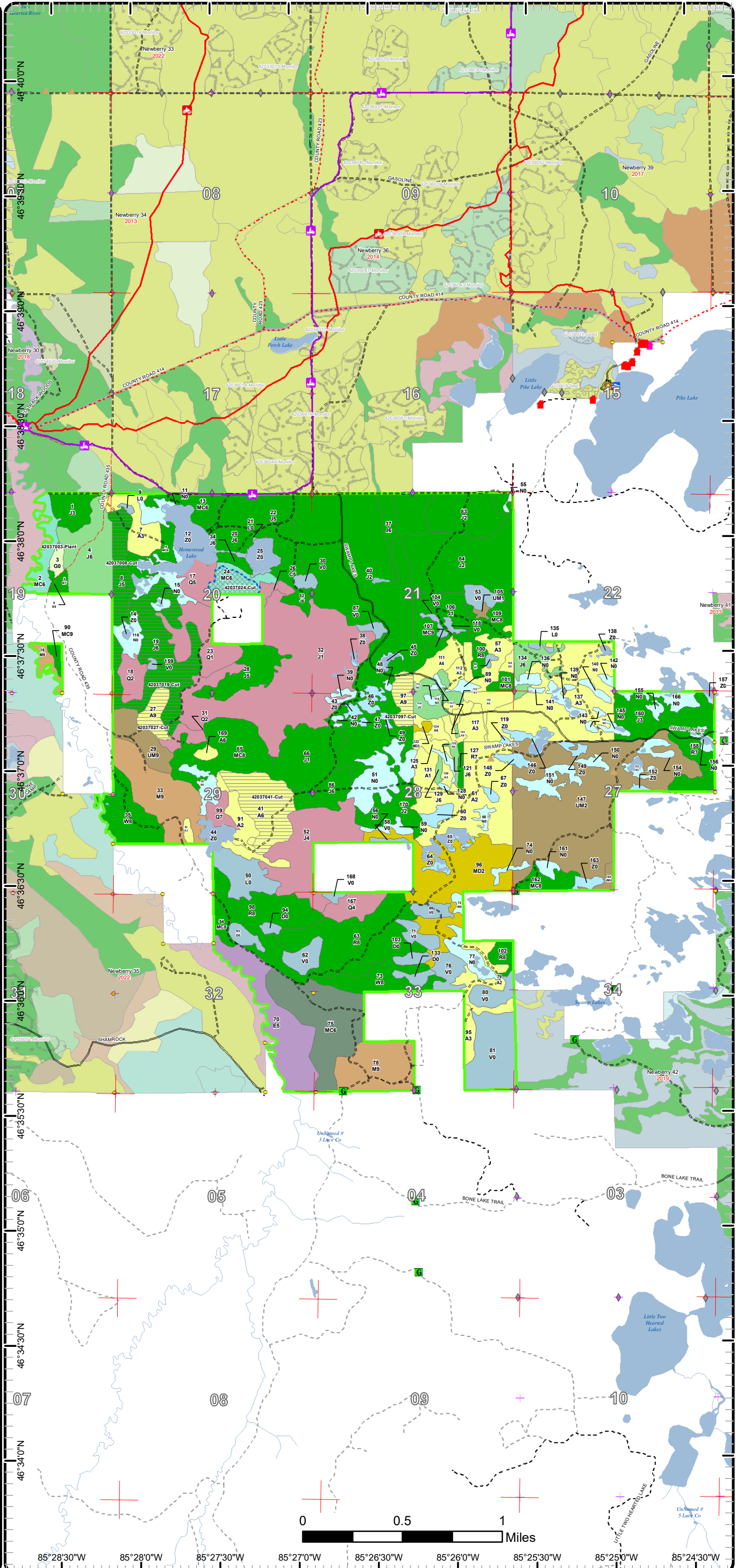
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 37  
 T49N, R09W, Sec. 19-22, 27-30, 32, 33  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Deer Park  
 YOE: 2021  
 Acres: 3,761 GIS Calculated  
 Examiner: Amy Douglass  
 Map Revised: 12/19/2019  
 Map Phase: Post-Review



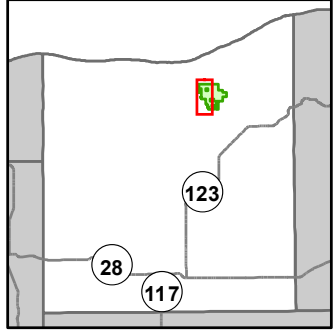
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Gate
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Planting (tree species)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
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- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



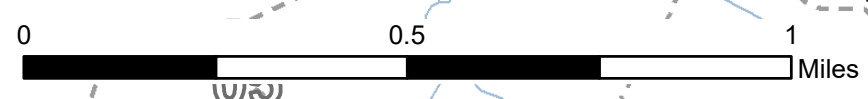
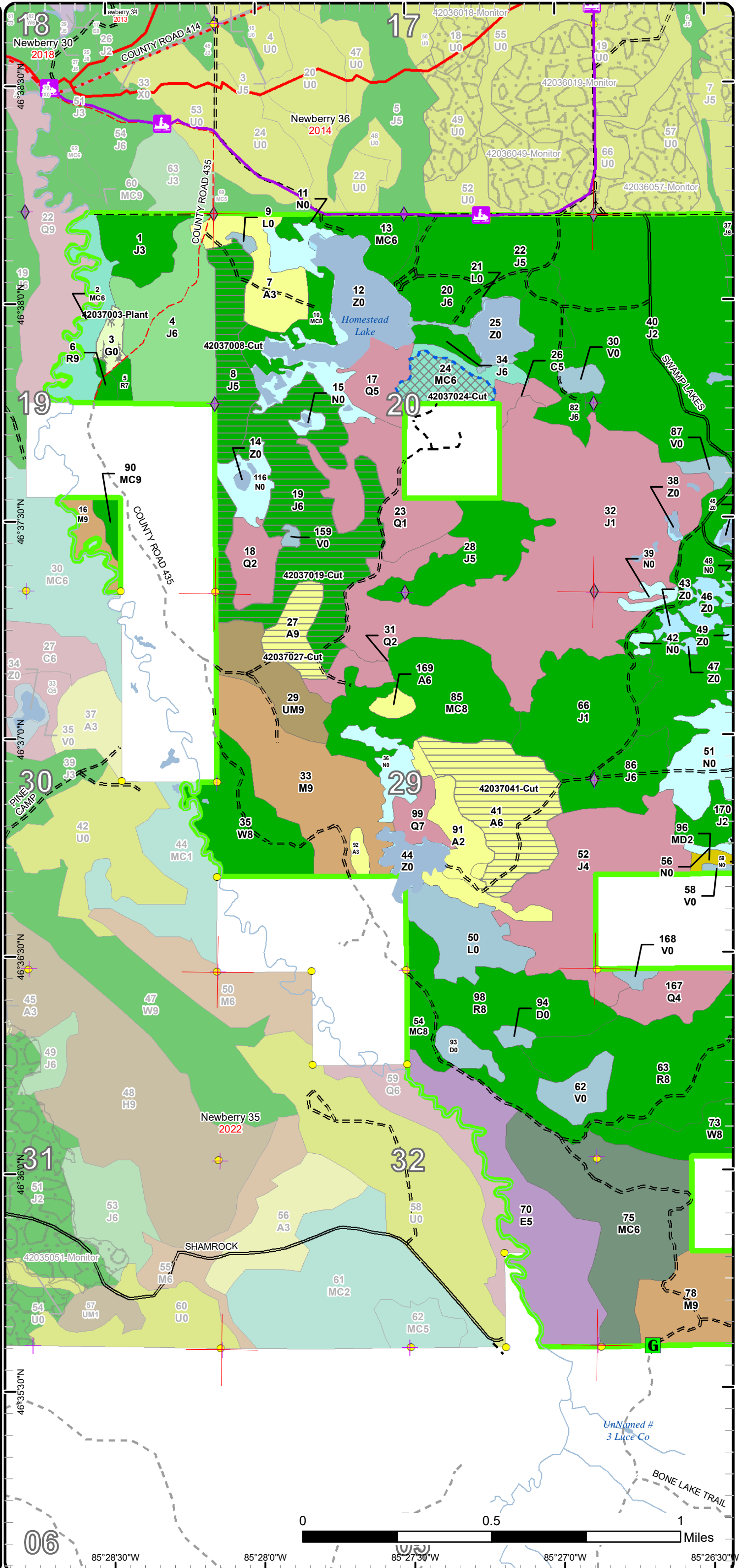


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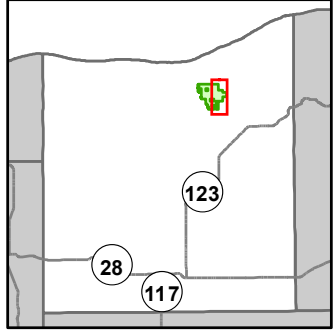
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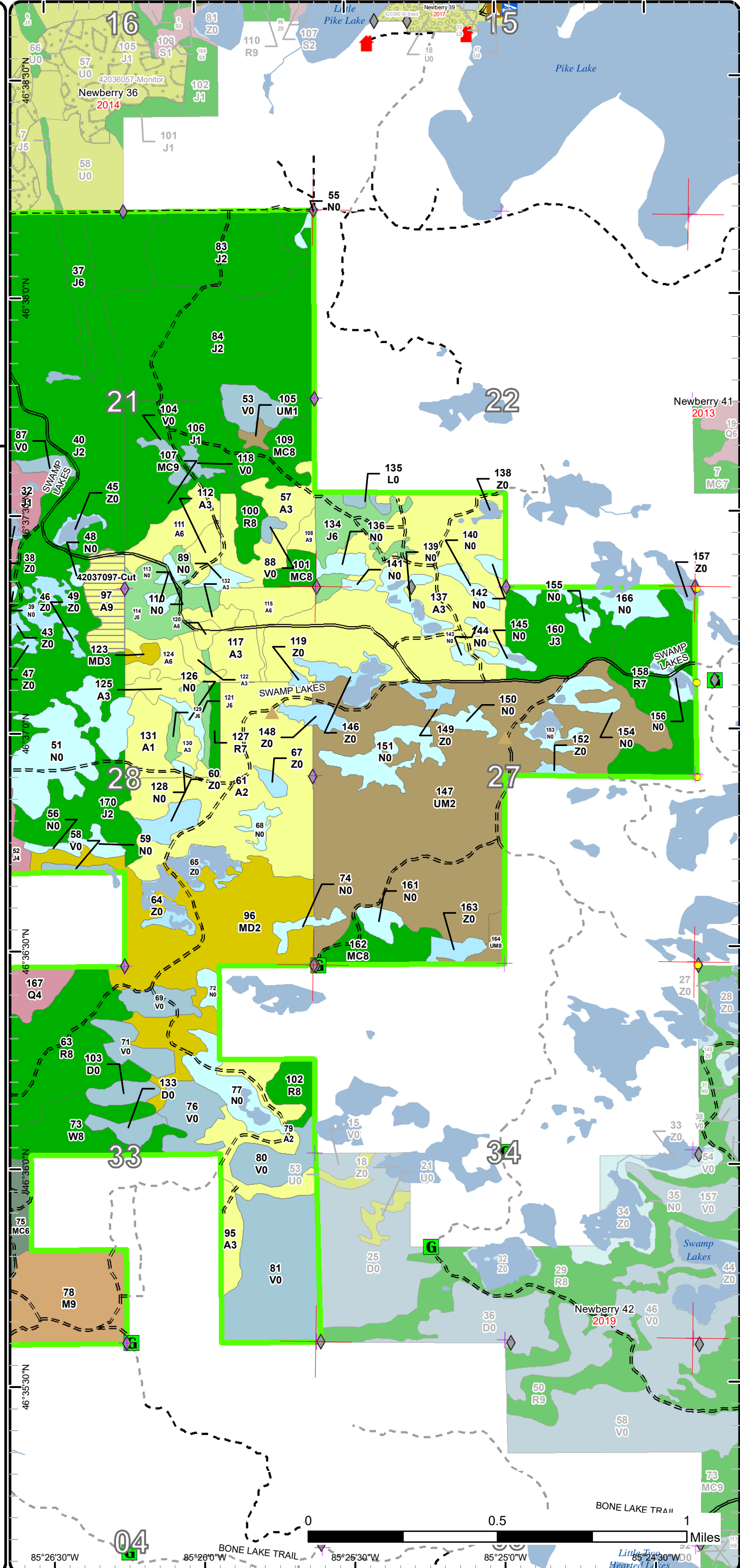
06 85°28'30"W 85°28'0"W 85°27'30"W 85°27'0"W 85°26'30"W

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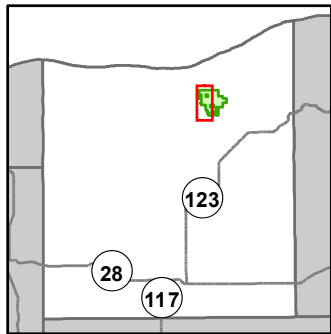
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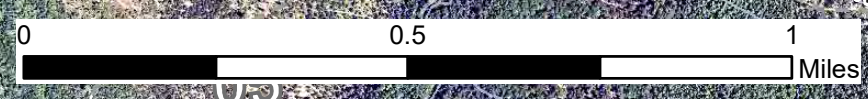
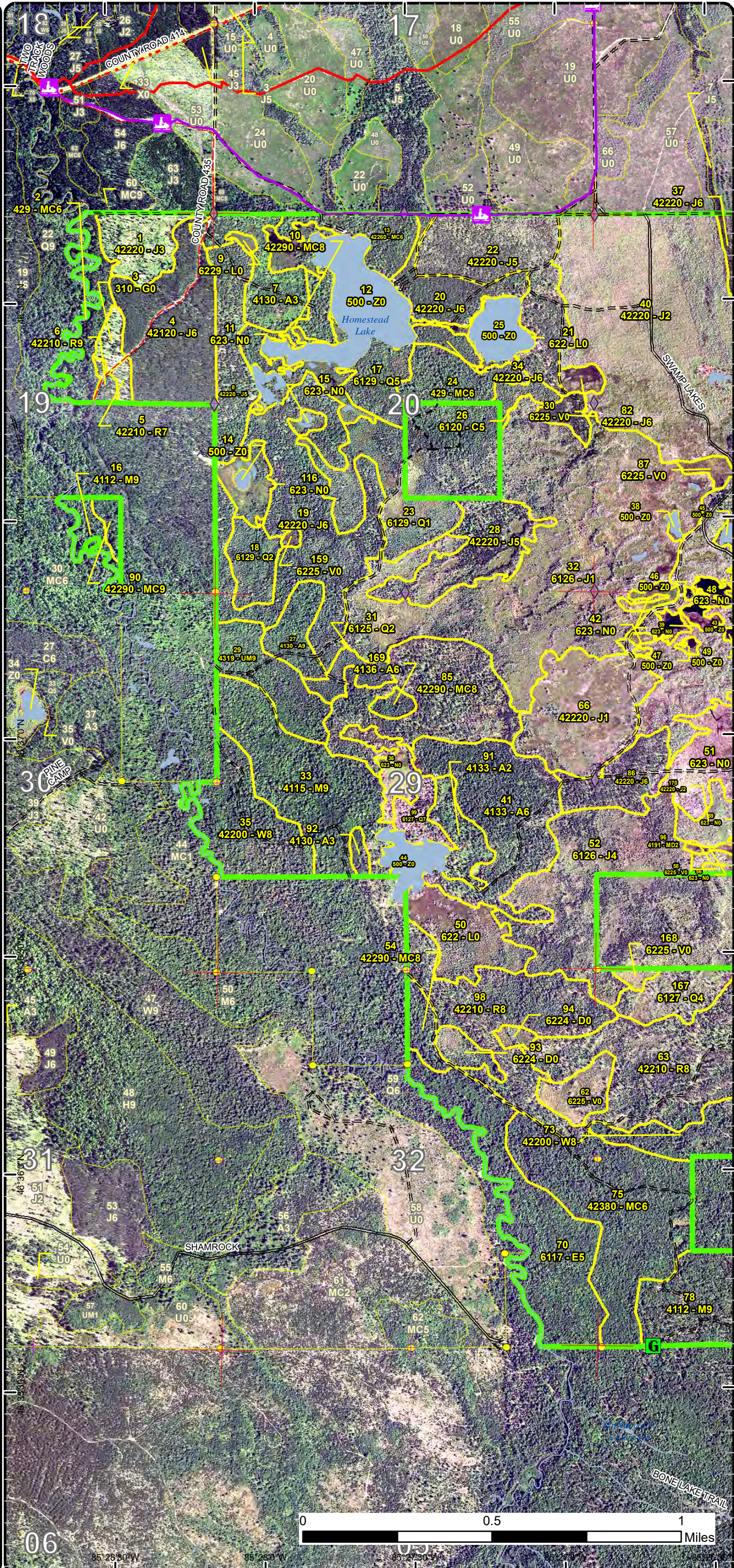


# Stand Boundary Map

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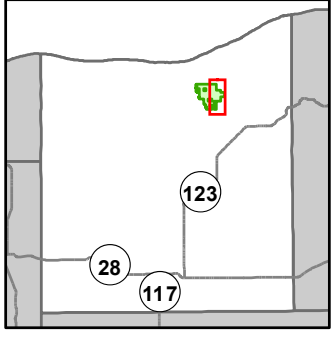
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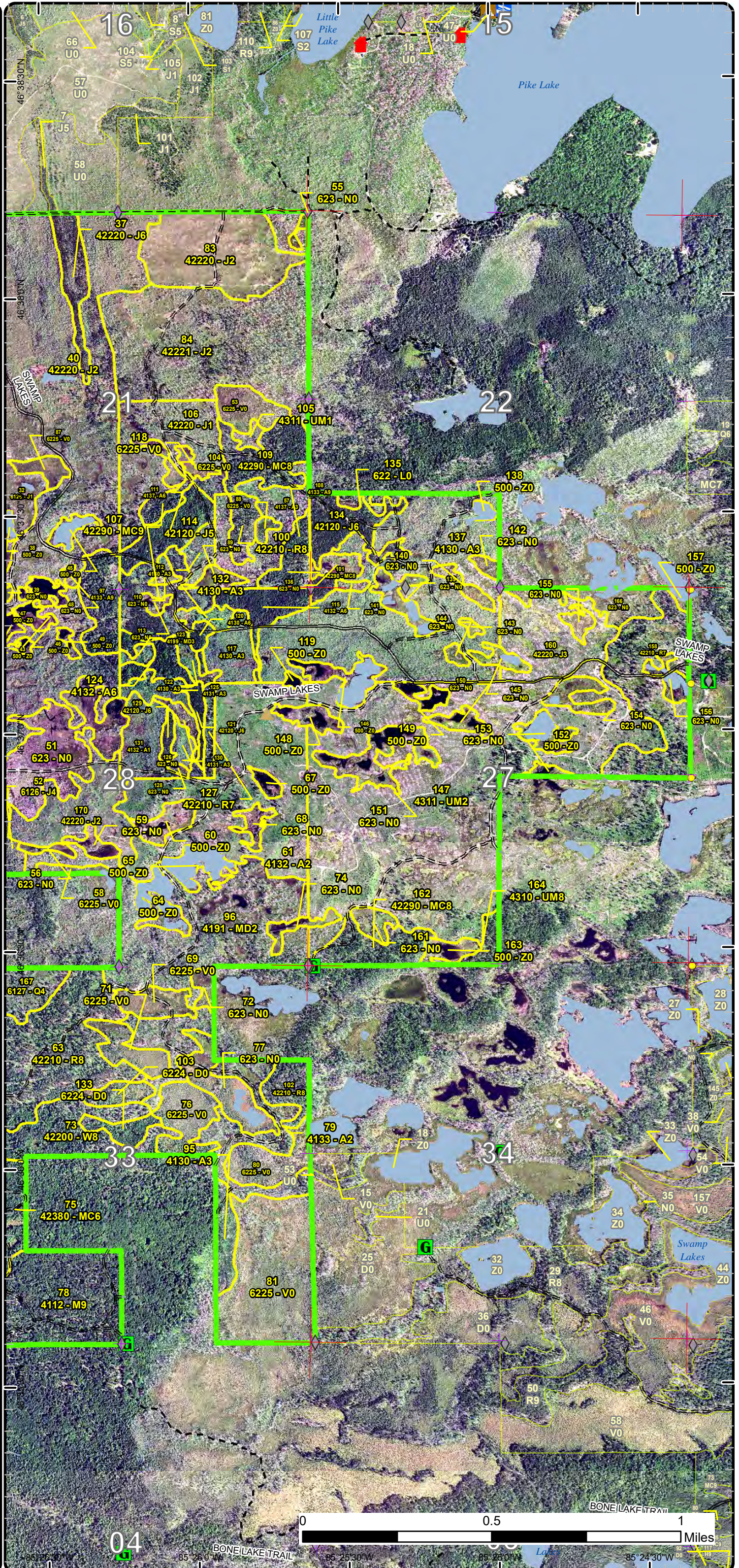


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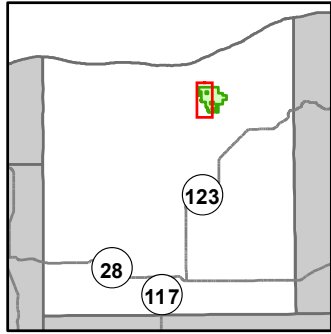
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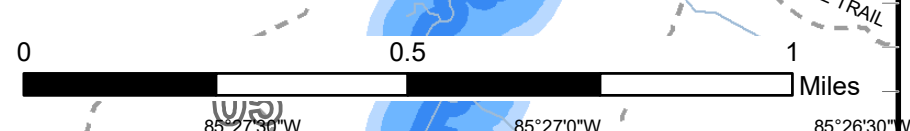
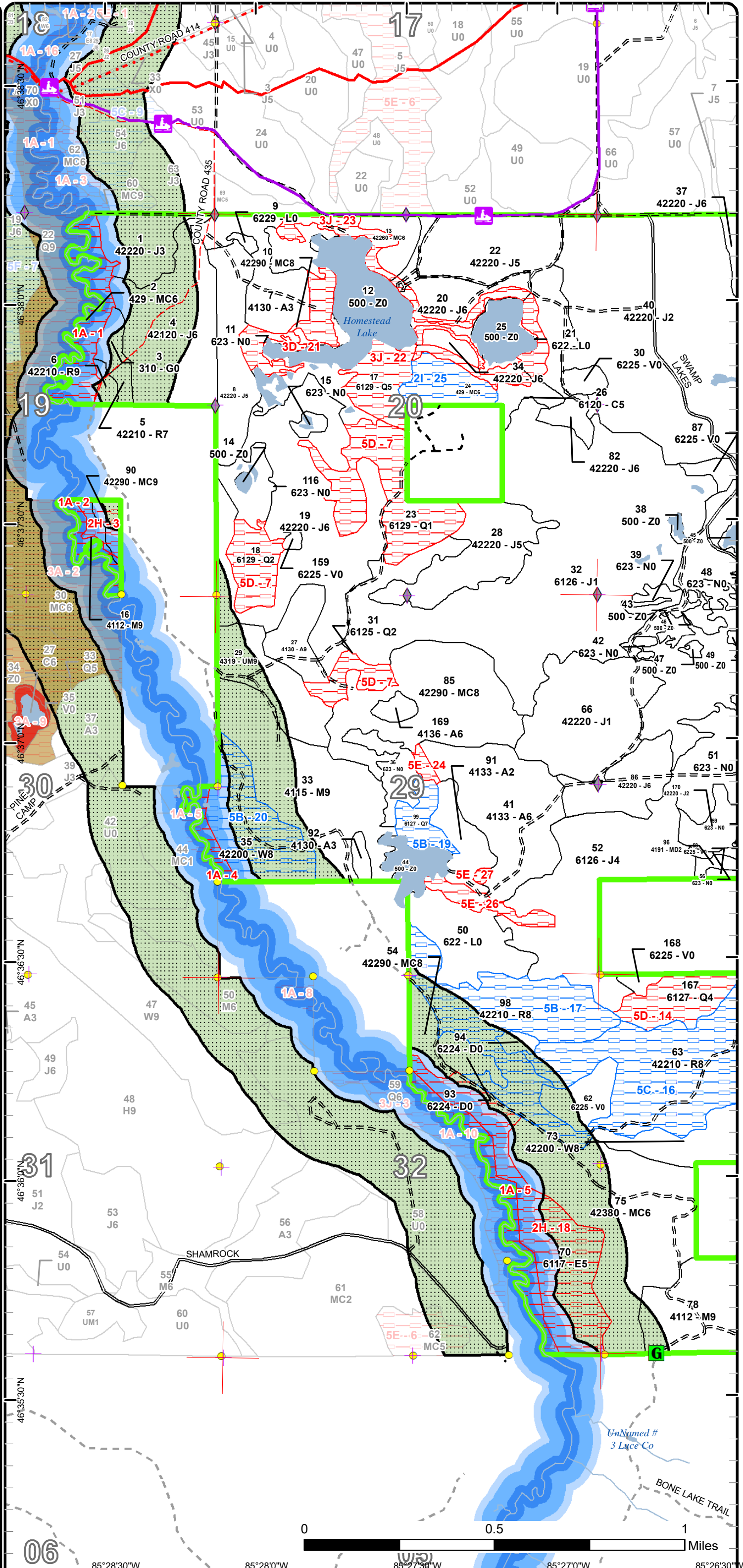


# Special Conservation Areas & Site Conditions Map

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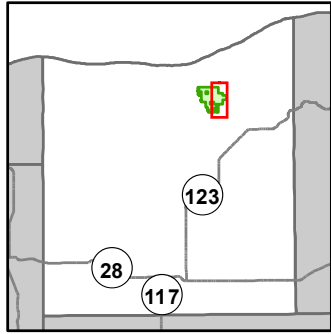
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



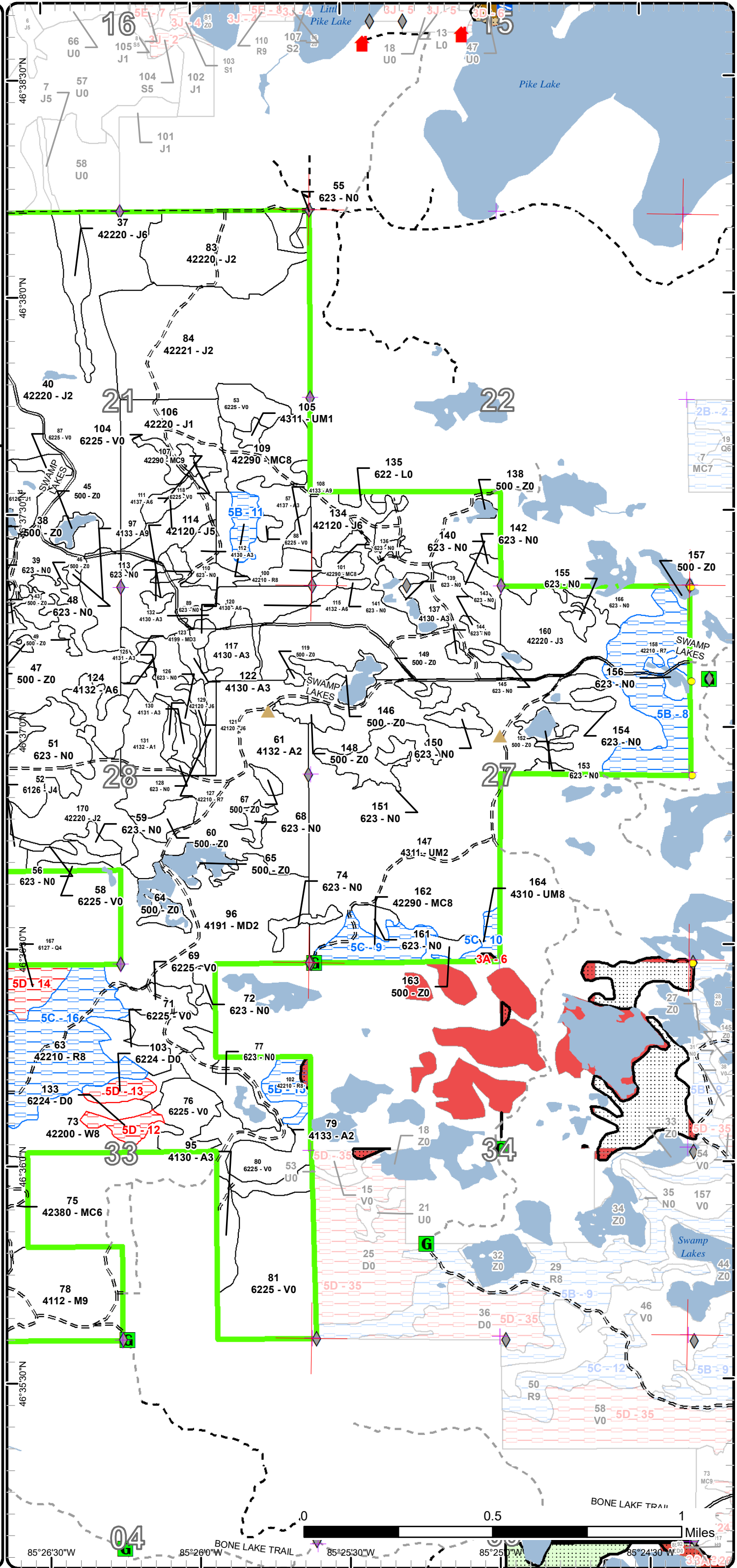


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- Available w/ Constraints
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- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Conservation Values incompatible with harvest at this time
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Lakes
- State Forest Campground
- Possible Type 1 Old Growth





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

Newberry Mgt. Unit

Compartment 37

Year of Entry 2021

Amy Douglass : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	323	0	45	40	71	19	16	0	0	0	0	0	0	0	0	0	0	514
Bog	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
Cedar	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	6
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Jack Pine	0	845	22	0	48	306	31	97	0	0	0	0	0	0	0	0	0	0	1349
Lowland Conifers	0	0	0	0	0	0	0	68	0	0	49	0	0	0	0	0	0	0	116
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	77
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Marsh	226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	226
Mixed Upland Deciduous	0	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	127	16	0	0	0	0	0	20	163
Northern Hardwood	0	0	0	0	0	0	0	0	0	58	9	0	0	0	0	0	0	71	138
Red Pine	0	0	0	0	0	0	0	0	0	6	80	153	0	0	0	0	0	0	239
Treed Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Upland Conifers	0	0	0	0	0	0	0	23	0	92	0	0	0	0	0	0	0	22	137
Upland Mixed Forest	0	229	0	0	0	0	0	0	0	28	5	0	0	0	0	0	0	0	262
Water	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
White Pine	0	0	0	0	0	0	0	0	0	36	0	45	0	0	0	0	0	0	81
<b>Total</b>	<b>576</b>	<b>1499</b>	<b>22</b>	<b>45</b>	<b>88</b>	<b>377</b>	<b>50</b>	<b>204</b>	<b>0</b>	<b>220</b>	<b>277</b>	<b>214</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>190</b>	<b>3760</b>





## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 37

Total Compartment Acres: 3,761

Commercial Harvest - 216  
 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	Overstory Removal	Salvage	Other	Total Acres
Aspen	88	0	0	0	0	0	0	0	0	88
Jack Pine	128	0	0	0	0	0	0	0	0	128
Upland Conifers	0	16	0	0	0	0	0	0	0	16
<b>Total</b>	<b>216</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>231</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	231	0	6	0	0	0	0	0	0	237
Next Step	0	159	31	97	0	0	243	0	0	530
<b>Total</b>	<b>231</b>	<b>159</b>	<b>37</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>243</b>	<b>0</b>	<b>0</b>	<b>767</b>





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

<b>3</b>	<b>42037003-Plant</b>	5.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	Initial Plant	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Plant without trenches to jack pine.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  <u>Treatments:</u>  <u>Acceptable</u> Jack pine with red pine and white pine.  <u>Regen:</u>  <u>Other</u> Failed jack pine scarification site.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2019</p>											
<b>8</b>	<b>42037008-Cut</b>	31.3	42220 - Natural Jack Pine	Poletimber Medium	58	Unspecified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees, except oak if present. Retention patches should include areas of maximum diversity. Leave some mature aspen or birch in the red line.  <u>Specs:</u>  <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant  <u>Treatments:</u>  <u>Acceptable</u> Jack pine with mixed pine and aspen.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>19</b>	<b>42037019-Cut</b>	96.7	42220 - Natural Jack Pine	Poletimber Well	60	Unspecified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees, leaving patch retention in areas of maximum diversity. Leave oak and hemlock, if present.  <u>Specs:</u>  <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); Seeding, Hand Seed  <u>Treatments:</u>  <u>Acceptable</u> Jack pine with mixed pine, spruce and aspen.  <u>Regen:</u>  <u>Other</u> Treatment area may change due to low areas and ridges.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>24</b>	<b>42037024-Cut</b>	15.6	429 - Mixed Upland Conifers	Poletimber Well	101	111-140	Harvest	Group Selection	429 - Mixed Upland Conifers	Uneven-Aged	No
-----------	---------------------	------	-----------------------------	-----------------	-----	---------	---------	-----------------	-----------------------------	-------------	----

Prescription Cut trees in groups approximately twice the height of mature trees. Using the femelschlag method, cut expanding gaps every 10-20 years cutting approximately 20% of the stand each time and leaving up to 10% retention within the cut patches. Harvest area will be reduced due to gap cuts.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable All species present.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2020

<b>27</b>	<b>42037027-Cut</b>	16.0	4130 - Aspen	Sawtimber Well	57	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	--------------	----------------	----	-------------	---------	-------------------------	-------------	-----------	----

Prescription Cut all trees, except oak, if present. Leave a component of red pine and white pine (varying sizes), if present. Leave some mature aspen/diversity in the red line.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with mixed deciduous and mixed pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>41</b>	<b>42037041-Cut</b>	55.5	4133 - Aspen, Mixed Pine	Poletimber Well	48		Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	--	---------	-------------------------	--------------------------	-----------	----

Prescription Cut all trees, except oak, if present. Leave a component of red pine and white pine. Leave some mature aspen in the red line. Buffer "lake" as appropriate. Patch retention on edges, as shown, but may include low or heavier burned areas within the treatment shape.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with mixed deciduous, red pine, white pine and jack pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>97</b>	<b>42037097-Cut</b>	16.1	4133 - Aspen, Mixed Pine	Sawtimber Well	65	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	--------------------------	----------------	----	-------------	---------	-------------------------	-------------	-----------	----

Prescription Cut all mixed softwood (including pine), red maple, beech, paper birch and aspen trees. Leave hemlock, yellow birch, cedar and oak, as well as a mix of the other trees marked in green. Leave trees will be considered retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen mixed with white birch, red maple, oak, red pine, white pine and jack pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020





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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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Total Treatment  
Acreage Proposed: 236.9



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 37  
Year of Entry: 2021



### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions											
		With Condition				2I	5B	5C	1A	2H	3A	3D	3J	5D	5E		
514	502	0		12	Aspen												12
152	152	0		0	Bog												
6	6	0		0	Cedar												
6	6	0		0	Herbaceous Openland												
1347	1334	0		14	Jack Pine			0						14			
116	0	11		106	Lowland Conifers		11							18	87		
77	0	0		77	Lowland Deciduous				18	59							
39	39	0		0	Lowland Shrub												
226	226	0		0	Marsh												
102	102	0		0	Mixed Upland Deciduous												
163	116	16		31	Natural Mixed Pines			16	0	5		16	10				
138	129	0		9	Northern Hardwood				6	3							
240	11	229		0	Red Pine		131	98									
23	11	0		12	Treed Bog											12	
136	92	16		29	Upland Conifers	16			23				6				
263	258	5		1	Upland Mixed Forest			5			1						
131	131	0		0	Water												
81	36	39		6	White Pine		39		6								
3,761	3,151	315		295	Total Forested Acres	16	181	119	53	67	1	16	49	99	12		
	84%	8%		8%	Relative Percent												

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	1A: Federal/State/Local Law	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River zone							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 37  
Year of Entry: 2021



2	Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River zone							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	2I: Survey needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
<b>Comments:</b> Area is located below steep bluff.							
4	Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River - two hearted							
5	Unavailable	1A: Federal/State/Local Law	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River management zone							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
7	Unavailable	5D: Unproductive Forest Land	67	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 37  
Year of Entry: 2021



8	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 37  
Year of Entry: 2021



14	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	98	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	69	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	59	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Below bluff.							
19	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 37  
Year of Entry: 2021



20	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Follow Two Hearted River Natural River Plan							
21	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	16	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Along Homestead Lake. Remote campsite.							
22	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	18	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lowland along Homestead Lake. Difficult access.							
23	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	30	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer around Homestead Lake and adjacent lake/drainages. Remote campsites.							
24	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Proposed retention/buffer for stand 41.							
25	<b>Available</b>	<b>2I: Survey needed</b>	16	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
<b>Comments:</b> Will need some sort of crossing to the north. A portable bridge may work, but would have to check length needed. Currently a beaver dam backing up water. The other alternative would be to access from the south, crossing private property.							



26	Unavailable	5E: Long-Term Retention	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Proposed retention/buffer for stand 41.</p>							
27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Bog inclusion/retention.</p>							



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
<b>Comments</b>				



## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
1	42220 - Natural Jack Pine	Sapling Well	21.5	14		N/A	Cut as part of 6 Island Jack Pine #028-01. Scarified in 2004. 2008 = 456t/ac. 2019: fully stocked.																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>9</td> <td>Log/Pole/Sap</td> <td>14</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>84</td> <td>Sapling</td> <td>2</td> <td>14</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	9	Log/Pole/Sap	14		Jack Pine	84	Sapling	2	14																															
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White Pine	9	Log/Pole/Sap	14																																												
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2	429 - Mixed Upland Conifers	Poletimber Well	22.8	62	81-110	N/A	River corridor.																																								
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Red Maple	Low	Variable	Sapling																																												
3	310 - Herbaceous Openland	Nonstocked	5.7	0	Unspecified	4212 - Planted Jack Pine	Clearcut in 2012 as part of CR 435 Pine (#030-11). Scarified in 2014 under FTP 42-792. No JP regen present in 2019.																																								
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4	42120 - Planted Jack Pine	Poletimber Well	59.9	48	Unspecified	N/A	Occasional aspen. Ownership cards show a harvest 24-61A? and 7-69A, followed by scarification in 1970 (FTP 55). Appears to be planted, but found no planting record.																																								
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5	42210 - Natural Red Pine	Sawtimber Poor	3.0	86	1-50	N/A	Clearcut in 2012 as part of CR 435 Pine. Scarified in 2014 under FTP 42-792. No JP regen present in 2019. Overstory too thick for planting jack pine.																																								
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6	42210 - Natural Red Pine	Sawtimber Well	3.2	84	81-110	N/A	Thinned in 2012 as part of CR 435 Pine, #30-11.																																								
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7	4130 - Aspen	Sapling Well	26.6	27	Immature	N/A	Harvested in 1991, Homestead Lake Birch, #23-91. Thick regen in many areas but more open around edges. Some small pole size trees too.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
8	42220 - Natural Jack Pine	Poletimber Medium	31.3	58	Unspecified	N/A																																																			
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9	6229 - Mixed lowland shrub	Nonstocked	1.4	0	Unspecified	No																																																			
10	42290 - Natural Mixed Pine	Sawtimber Medium	15.7	100	51-80	N/A	Campsite at lake.																																																		
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11	623 - Emergent Wetland	Nonstocked	26.7		Unspecified	No	Seasonally flooded.																																																		
12	500 - Water	Nonstocked	35.8			No	Homestead Lake. Several camping sites located around the edge.																																																		
13	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	19.8	78	51-80	N/A	Some marsh ground within. Area of JP salvaged July 1978 (#10-78A - 6 Ac). RP/WP with oak, JP poles, aspen poles, oak saplings. Inclusion of log size aspen (62 age), but provides good diversity. Variable stand. Campsite on Homestead Lake.																																																		
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15	623 - Emergent Wetland	Nonstocked	2.8		Unspecified	No																																																			
16	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.8	98	111-140	N/A	Stand is located below main bluff and alongside river. Old oxbow located along east stand line.																																																		
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17	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	18.3	95	Unspecified	N/A	Variable stand. Marshy pockets closer to Homestead Lake.																																														
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18	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	16.0	60	Unspecified	N/A	Tamarack, spruce with pole size white pine.																																														
19	42220 - Natural Jack Pine	Poletimber Well	96.7	60	Unspecified	N/A	Ownership cards show harvest #50-59A. JP with black spruce in lowlands. Mostly out of the fire but the fire line weaves on/off the main road.																																														
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20	42220 - Natural Jack Pine	Poletimber Well	22.5	46		N/A	Just outside of Duck Lake Fire. Campsite located within stand on the shore of Homestead Lake. Ownership cards show harvest 3-70A followed by scarification in 1971 (FTP 72).																																														
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21	622 - Lowland Shrub	Nonstocked	4.0			No	Channel connecting Homestead Lake to the lake to the east.																																														
22	42220 - Natural Jack Pine	Poletimber Medium	57.6	46		N/A	This stand mainly sustained an underburn from the Duck Lake Fire 2012. Occasional mortality patches from the fire. Ownership cards show harvest 3-70A followed by scarification in 1971 (FTP 72).																																														
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23	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	41.7	60	Unspecified	N/A																																															
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24	429 - Mixed Upland Conifers	Poletimber Well	21.7	101	111-140	N/A	Large WP and some RP remnants over pole size RM, WB, JP, S and Fb. Lots of 3-5" saps of Fb and WB. Drainage runs E-W thru stand.																																										
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26	6120 - Lowland Cedar	Poletimber Medium	6.5	95	Unspecified	N/A																																											
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27	4130 - Aspen	Sawtimber Well	16.0	57	Unspecified	N/A																																											
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28	42220 - Natural Jack Pine	Poletimber Medium	36.2	46		N/A	Not too affected by the Duck Lake fire. Cut in 1973 under timber sale #3-70A.																																										
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29	4319 - Mixed Upland Forest	Sawtimber Well	28.1	87	111-140	N/A	Heavier to hemlock than adjacent stand.																																										
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30	6225 - Bog	Nonstocked	4.9			No																																											





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31	6125 - Lowland Black Spruce, Jack Pine	Sapling Medium	9.6	63	Unspecified	N/A																																																																									
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32	6126 - Lowland Jack Pine	Sapling Poor	218.0	7	Immature	N/A	Low marsh with scattered narrow upland ridges with JP regen. Scattered live, residual JP, RP, WP, spruce. Burned in Duck Lake Fire 2012.																																																																								
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33	4115 - Y.Birch, Hemlock NH	Sawtimber Well	71.4	82	81-110	N/A	Heavily cut in 1981 & 84 as part of sale #024-81A. Pole/sapling/log stand. All ages. Some beech still alive. Larger logs with various size poles and saplings.																																																																								
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34	42220 - Natural Jack Pine	Poletimber Well	6.1	46	Unspecified	N/A																																																																									
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35	42200 - Natural White Pine	Sawtimber Medium	44.6	100	51-80	N/A	WP with RP over thick understory. Cut in 1981 as part of sale #024-81A. Most regen ranges from 2-5" dbh. Full stocking!																																																																								
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36	623 - Emergent Wetland	Nonstocked	11.6			No	Seasonally flooded.																																																																								
37	42220 - Natural Jack Pine	Poletimber Well	13.6	46		N/A	Retention area within salvage sale. Majority of stand sustained an underburn from Duck Lake Fire 2012. Includes some mortality pockets from the fire.																																																																								
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38	500 - Water	Nonstocked	1.4			No	Seasonally ponded.																			
39	623 - Emergent Wetland	Nonstocked	4.3			No	Seasonally ponded.																			
40	42220 - Natural Jack Pine	Sapling Medium	311.0	7	Immature	N/A	Was part of DLS# 12, but nothing was cut. Regen survey in 2015 by summer students showed variable regeneration, but overall okay. Averages 573 trees/acre. 2019: Most dead timber is on the ground now. A few residual JP and RP are still alive. Good regen following Duck Lake Fire, 2012. Regen ~3' tall. Includes a few aspen and oak regen in places.																			
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41	4133 - Aspen, Mixed Pine	Poletimber Well	67.2	48		N/A	Stand was not surveyed in 2015. It appears to not have had much damage from the Duck Lake fire of 2012. Ownership cards show harvest #3-70A. 2019: some flooding within stand.																			
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42	623 - Emergent Wetland	Nonstocked	1.5			No																				
43	500 - Water	Nonstocked	2.9			No	Seasonally ponded.																			
44	500 - Water	Nonstocked	10.5			No	Seasonally flooded.																			
45	500 - Water	Nonstocked	3.7			No	Seasonally ponded.																			
46	500 - Water	Nonstocked	6.9			No	Seasonally ponded.																			
47	500 - Water	Nonstocked	1.1			No	Seasonally ponded.																			
48	623 - Emergent Wetland	Nonstocked	1.1			No	Seasonally ponded.																			
49	500 - Water	Nonstocked	1.5			No																				
50	622 - Lowland Shrub	Nonstocked	30.8			No	Seasonally ponded. Scattered trees.																			
51	623 - Emergent Wetland	Nonstocked	40.2			No	Seasonally flooded.																			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
52	6126 - Lowland Jack Pine	Poletimber Poor	79.1	46		N/A	Scattered pockets of timber, as well as scattered timber throughout stand.																																													
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53	6225 - Bog	Nonstocked	10.4		Unspecified	No																																														
54	42290 - Natural Mixed Pine	Sawtimber Medium	9.7	91	51-80	N/A	Just outside of the Duck Lake Fire.																																													
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55	623 - Emergent Wetland	Nonstocked	1.2			No																																														
56	623 - Emergent Wetland	Nonstocked	1.9			No	Seasonally ponded.																																													
57	4137 - Aspen, Birch	Sapling Well	23.3	7	Immature	N/A	Was part of DLS #12, but nothing was cut. Standing dead timber with some small patches of live residual pine. 2019: standing snags. Variable regen. Medium to full stocking.																																													
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58	6225 - Bog	Nonstocked	2.6			No																																														
59	623 - Emergent Wetland	Nonstocked	3.7			No	Seasonally ponded.																																													
60	500 - Water	Nonstocked	7.0			No	Seasonally flooded.																																													
61	4132 - Aspen, Jack Pine	Sapling Medium	92.7	7	Immature	N/A	DLS#13. Areas with some RP residual. Regen survey in 2015 by summer students. Varying densities of jack pine, aspen, oak and red pine. Averages 923 trees/acre.2019: patchy regen in spots. Adequate stocking overall. Some scattered log size residual RP and WP. Pockets of good JP regen.																																													
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62	6225 - Bog	Nonstocked	13.9			No																																														



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<b>63</b>	42210 - Natural Red Pine	Sawtimber Medium	98.0	101	81-110	N/A	Regen survey in 2015 by summer students. Not much for regen after the fire. Some areas with aspen regen. Mostly pine (red and white) with black spruce residual. Eastern portion thinned in 2005 as part of See Smoke Red Pine #039-01. Duck Lake fire did not kill much canopy but good under burn, but some mortality in spots. Includes numerous low areas.																																											
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<b>64</b>	500 - Water	Nonstocked	7.4			No	Seasonally flooded.																																											
<b>65</b>	500 - Water	Nonstocked	8.3			No	Seasonally flooded.																																											
<b>66</b>	42220 - Natural Jack Pine	Sapling Poor	57.0	7	Immature	N/A	Regen survey in northern portion of stand in 2015 by summer students. Non stocked to moderately stocked jack pine. 2019: patchy regen ~4-8' tall. scattered small patches of ~16 year old JP. Includes numerous lowland patches.																																											
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<b>67</b>	500 - Water	Nonstocked	2.4			No	Seasonally ponded.																																											
<b>68</b>	623 - Emergent Wetland	Nonstocked	3.7			No	Seasonally ponded.																																											
<b>69</b>	6225 - Bog	Nonstocked	8.6			No																																												
<b>70</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	76.7	92	81-110	N/A	Stand falls primarily below a bluff. This falls within the Two-Hearted Natural River Plan zone.																																											
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<b>71</b>	6225 - Bog	Nonstocked	10.0			No																																												
<b>72</b>	623 - Emergent Wetland	Nonstocked	3.1			No																																												





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>73</b>	42200 - Natural White Pine	Sawtimber Medium	35.9	87	81-110	N/A	Duck Lake fire didn't touch this stand to much, but some mortality exists from the fire.OIPC notes show that spruce, aspen and birch were removed in 1986.																																																						
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<b>74</b>	623 - Emergent Wetland	Nonstocked	4.0			No	Seasonally ponded.																																																						
<b>75</b>	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	91.6	82	111-140	N/A	Lots of drainages/seeps throughout stand.																																																						
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<b>77</b>	623 - Emergent Wetland	Nonstocked	15.8			No	Seasonally ponded.																																																						
<b>78</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	58.0	87	81-110	N/A	Stand was harvested via selection harvest as sale #42-020-11-01, Widgeon Trail Hardwoods. Completed 09/27/2016. Occasional white birch and spruce.																																																						
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<b>79</b>	4133 - Aspen, Mixed Pine	Sapling Medium	25.2	7	1-50	N/A	Burned in Duck Lake Fire 2012.																																																						
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81	6225 - Bog	Nonstocked	55.5		Unspecified	No																												
82	42220 - Natural Jack Pine	Poletimber Well	6.7	43	Unspecified	N/A	Ownership cards show harvest 3-70A; scarification FTP 90 (8 acres) and planting 1976 (JP @560/ac) 8 acres. Small pocket of dead timber. Overall not affected by Duck Lake fire.																											
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83	42220 - Natural Jack Pine	Sapling Medium	47.3	7	Immature	N/A	Originally scarified in 1995, machine planted in 2000; but burned in Duck Lake Fire in 2012. Not part of regen survey in 2015. Check in spring of 2017. October 2018 - trenching treatment was terminated. Stand has regenerated to 731 trees per acre. Decision with Unit Manager and TMS to remove trenching and allow stand to regenerate as is. 2019: Good natural regeneration ~3' tall.																											
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84	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	105.9	7	Immature	N/A	Was part of DLS# 12, but nothing was cut. Regen survey in 2015 by summer students yielded a mixture of jack pine, aspen and oak with red maple too. Averages 765 trees/acre. 2019: JP regen ~5-15' tall. Thick regen in spots. Scattered RP/WP residual. Pockets thicker to aspen. Some JP poles still alive. Standing snags beginning to fall. Hilly.																											
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85	42290 - Natural Mixed Pine	Sawtimber Medium	65.0	90	81-110	N/A	Burned in 2012 - Duck Lake Fire. Regen survey in northern portion of stand in 2015 by summer students. Stand is non stocked to fully stocked aspen regen with pine overstory. Not all of stand was surveyed due to severity of fire. Occasional oak. Variable burn thru stand. Several low inclusions.																											
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86	42220 - Natural Jack Pine	Poletimber Well	23.9	48	Unspecified	N/A	Stand appears to have not much damage from the Duck Lake fire of 2012, but some mortality exists. Ownership cards show harvest #4-65A. 2019: open JP stand.																											
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90	42290 - Natural Mixed Pine	Sawtimber Well	4.9	98	111-140	N/A	Located below main bluff (no access).																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
<b>91</b>	4133 - Aspen, Mixed Pine	Sapling Medium	15.2	27	Immature	N/A	Stand appears to not have had much damage from the Duck Lake fire of 2012. Cut in 1991 as part of East Branch Birch Sale #027-91. Areas of decent aspen reproduction but also areas of M2 and more open areas.																																				
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<b>92</b>	4130 - Aspen	Sapling Well	3.3	24	Immature	N/A	Cut in 1992 as part of East Branch Birch Sale #027-91. Ridge top. Duck Lake fireline goes thru stand. Thick regen.																																				
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<b>93</b>	6224 - Treed Bog	Nonstocked	8.1	0	Unspecified	No																																					
<b>94</b>	6224 - Treed Bog	Nonstocked	3.1	0	Unspecified	No																																					
<b>95</b>	4130 - Aspen	Sapling Well	9.1	7	Immature	N/A	Cut in 1987 under permit 8-85. Burned in Duck Lake Fire 2012.																																				
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<b>96</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	99.9	7	1-50	N/A	Regen survey in 2015 by summer students. Not much for regen after the fire. Some areas with aspen regen. Mostly pine (red and white) with black spruce residual. 2019: Lots of standing log size snags; variable regeneration. Several low inclusions.																																				
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<b>97</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	16.1	65	Unspecified	N/A	Was part of DLS# 12, but nothing was cut. Regen survey in 2015 by summer students showed variable regeneration. 2019: steep ridge to get on top of. Hodgepodge stand (variable). Green marked trees (including RP, aspen, WP). Thick balsam understory in places but opens up in middle of stand.																																				
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Bigtooth Aspen	55	Log	14	65																																							
<b>98</b>	42210 - Natural Red Pine	Sawtimber Medium	69.1	90	81-110	N/A	Regen survey in 2015 by summer students. Not much for regen after the fire. Some areas with aspen regen. Mostly pine (red and white) with black spruce residual. Recheck during next inventory cycle. Cut in 1988 - #21-87 (removal cut). Southern/western portion thinned in 2005 as part of See Smoke Red Pine, #039-01.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
<b>99</b>	6127 - Lowland Pine	Sawtimber Poor	10.5	90	81-110	N/A	2019: Mostly flooded now. Fire killed most of stand. Some standing residual.																																
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<b>100</b>	42210 - Natural Red Pine	Sawtimber Medium	7.3	95	51-80	N/A	Was part of DLS #12, but nothing was cut. Burned in Duck Lake Fire 2012, but did not kill all overstory. Some standing dead. Aspen understory flushed from the fire.																																
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<b>101</b>	42290 - Natural Mixed Pine	Sawtimber Medium	6.4	90	51-80	N/A	Was part of DLS #12, but nothing was cut. Burned in Duck Lake Fire 2012.																																
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<b>102</b>	42210 - Natural Red Pine	Sawtimber Medium	9.6	100	81-110	N/A																																	
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<b>103</b>	6224 - Treed Bog	Nonstocked	6.1	0		No																																	
<b>104</b>	6225 - Bog	Nonstocked	3.1	0	Unspecified	No	Seasonally ponded.																																
<b>105</b>	4311 - Pine, Aspen Mix	Sapling Poor	2.3	7	Immature	N/A																																	
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<b>106</b>	42220 - Natural Jack Pine	Sapling Poor	41.7	7	Immature	N/A	Acquired in 2018 - TNC trade. JP ~3-10' tall. Hilly intermixed with bogs. Burned in Duck Lake Fire 2012.																																
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<b>107</b>	42290 - Natural Mixed Pine	Sawtimber Well	4.6	95	81-110	N/A	Burned in Duck Lake Fire 2012. Acquired in 2018 - TNC trade.																																																						
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<b>108</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	3.3	50	51-80	N/A	Was part of DLS #12, but nothing was cut. Fairly untouched by the Duck Lake fire in 2012.																																																						
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<b>109</b>	42290 - Natural Mixed Pine	Sawtimber Medium	20.4	90	51-80	N/A	Duck Lake fire was variable intensity through stand. Land acquired in 2018 - TNC trade.																																																						
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<b>110</b>	623 - Emergent Wetland	Nonstocked	1.9		Unspecified	No	Seasonally ponded. Land acquired in 2018 - TNC trade.																																																						
<b>111</b>	4137 - Aspen, Birch	Poletimber Well	15.2	30	Immature	N/A	Land acquired in 2018 - TNC trade. Just coming into pole size.																																																						
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Red Maple	20	Pole/Sapling	5																																																										
<b>112</b>	4130 - Aspen	Sapling Well	6.0	7	Immature	N/A	Land acquired in 2018 - TNC trade. Regen ~10-20' tall.																																																						
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Bigtooth Aspen	50	Sapling	1	7																																																									
Paper Birch	10	Sapling	1																																																										
Quaking Aspen	20	Sapling	1																																																										
Red Maple	15	Sapling	1																																																										
<b>113</b>	623 - Emergent Wetland	Nonstocked	1.9		Unspecified	No	Seasonally ponded.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>114</b>	42120 - Planted Jack Pine	Poletimber Medium	21.1	30	Immature	N/A	Land acquired in 2018 - TNC trade. Former Mead land. Plantation is thicker in spots. Variable regen thickness.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Jack Pine		100	Pole	6	30	Paper Birch	Sapling
						Red Maple	Sapling
						Red Oak	Sapling
						Density	Avg. Height
						Medium	10 - 20 feet
						Medium	5 - 10 feet
						Low	5 - 10 feet
							Size
							Sapling
<b>115</b>	4132 - Aspen, Jack Pine	Poletimber Well	12.8	30	Immature	N/A	Land acquired in 2018 - TNC trade. Planted JP with aspen mixed in.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Jack Pine		28	Pole	6	30	Red Maple	Sapling
Quaking Aspen		65	Pole	8	30		
						Density	Avg. Height
						Medium	5 - 10 feet
							Size
							Sapling
<b>116</b>	623 - Emergent Wetland	Nonstocked	12.1		Unspecified	No	
<b>117</b>	4130 - Aspen	Sapling Well	12.3	7	Immature	N/A	Land acquired in 2018 - TNC trade. Former Mead land - pine plantation. Burned in Duck Lake Fire 2012. Some standing snags. Occasional oak.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		75	Sapling	1	7		
Red Maple		15	Sapling	1			
Jack Pine		10	Sapling	1			
<b>118</b>	6225 - Bog	Nonstocked	2.4	0	Unspecified	No	Seasonally ponded.
<b>119</b>	500 - Water	Nonstocked	1.0			No	Seasonally ponded.
<b>120</b>	4130 - Aspen	Poletimber Well	2.4	30	Immature	N/A	Land acquired in 2018 - TNC trade.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		20	Pole	8		Red Maple	Sapling
Quaking Aspen		60	Pole	8	30	Red Oak	Sapling
Paper Birch		10	Pole	8			
						Density	Avg. Height
						High	5 - 10 feet
						Low	10 - 20 feet
							Size
							Sapling
<b>121</b>	42120 - Planted Jack Pine	Poletimber Well	4.5	30	Immature	N/A	Land acquired in 2018 - TNC trade. Formerly Mead land.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		85	Pole	6	30		
Red Pine		13	Log/Pole	10			
<b>122</b>	4130 - Aspen	Sapling Well	4.1	7	Immature	N/A	Land acquired in 2018 - TNC trade. Burned in Duck Lake Fire 2012.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		70	Sapling	1	7		
Red Oak		15	Sapling	1			
Quaking Aspen		10	Sapling	1			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>123</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	2.3	7	Immature	N/A	Land acquired in 2018 - TNC trade. Burned in Duck Lake Fire 2012.																																													
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<b>124</b>	4132 - Aspen, Jack Pine	Poletimber Well	9.4	30	Immature	N/A	Land acquired in 2018 - TNC trade. Former Mead land. Includes semi-failed JP plantation. Pole/sap size.																																													
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<b>125</b>	4131 - Aspen, Oak	Sapling Well	6.2	7	Immature	N/A	Land acquired in 2018 - TNC trade. Burned in Duck Lake Fire 2012. More of a killing fire here. Scattered aspen poles standing.																																													
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Quaking Aspen	49	Sapling	1	7																																																
<b>126</b>	623 - Emergent Wetland	Nonstocked	3.2		Unspecified	No	Seasonally ponded.																																													
<b>127</b>	42210 - Natural Red Pine	Sawtimber Poor	4.4	95	51-80	N/A	Land acquired in 2018 - TNC trade. Semi-open pine stand. Burned in Duck Lake Fire 2012.																																													
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<b>128</b>	623 - Emergent Wetland	Nonstocked	0.9		Unspecified	No	Seasonally ponded.																																													
<b>129</b>	42120 - Planted Jack Pine	Poletimber Well	2.5	30	Immature	N/A	Land acquired in 2018 - TNC trade. Former Mead land. North/south ridge.																																													
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					Bigtooth Aspen	Low	5 - 10 feet	Sapling																																												
<b>130</b>	4131 - Aspen, Oak	Sapling Well	3.5	7	Immature	N/A	Land acquired in 2018 - TNC trade. Former Mead land - pine plantation. Burned in Duck Lake Fire 2012. Mostly on high ridges. Thick regen with very small semi-open spots. Regen mainly 10-20' tall.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>131</b>	4132 - Aspen, Jack Pine	Sapling Poor	16.0	7	Immature	N/A	Land acquired in 2018 - TNC trade. Former Mead land - JP plantation. Lots of dead snags standing. Scattered JP and aspen regen. spotty. JP ~4-8' tall. Aspen ~10-20' tall. Some pockets of standing live poles. Low ground inclusions.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine	40	Sapling	1	7			
Quaking Aspen	45	Sapling	1	7			
Red Oak	15	Sapling	1				
<b>132</b>	4130 - Aspen	Sapling Well	4.2	7	Immature	N/A	Land acquired in 2018 - TNC trade. Burned in Duck Lake Fire 2012. A few residual standing trees.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen	60	Sapling	1	7			
Quaking Aspen	15	Sapling	1				
Red Maple	18	Sapling	1				
<b>133</b>	6224 - Treed Bog	Nonstocked	6.0		Unspecified	No	
<b>134</b>	42120 - Planted Jack Pine	Poletimber Well	19.7	30	Immature	N/A	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012, but more of an underburn here. Former Mead land. Looks to be planted between 1986 and 1998 photos (age is estimate).
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine	90	Pole	7	30			
Quaking Aspen	10	Pole	6				
<b>135</b>	622 - Lowland Shrub	Nonstocked	2.4		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally ponded.
<b>136</b>	623 - Emergent Wetland	Nonstocked	4.3		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally flooded.
<b>137</b>	4130 - Aspen	Sapling Well	120.1	7	Immature	N/A	Land acquired in 2018 from TNC swap. Formerly Mead land - pine plantation. Includes pockets of low ground. Burned in Duck Lake Fire 2012.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen	60	Sapling	1	7			
Paper Birch	15	Sapling	1				
Red Oak	10	Sapling	1				
Jack Pine	10	Sapling	1				
<b>138</b>	500 - Water	Nonstocked	1.4		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally flooded.
<b>139</b>	623 - Emergent Wetland	Nonstocked	8.1		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally flooded.
<b>140</b>	623 - Emergent Wetland	Nonstocked	3.8		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally ponded.
<b>141</b>	623 - Emergent Wetland	Nonstocked	1.4		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally ponded.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
142	623 - Emergent Wetland	Nonstocked	3.3		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally ponded.																				
143	623 - Emergent Wetland	Nonstocked	1.1		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally ponded.																				
144	623 - Emergent Wetland	Nonstocked	1.5		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally ponded.																				
145	623 - Emergent Wetland	Nonstocked	3.7		Unspecified	No	Land acquired in 2018 from TNC swap. Burned in Duck Lake Fire 2012. Seasonally ponded.																				
146	500 - Water	Nonstocked	9.3		Unspecified	No	Seasonally flooded.																				
147	4311 - Pine, Aspen Mix	Sapling Medium	227.3	6	Immature	N/A	Duck Lake Fire 2012. Part of DLS #13 & #14 sales. Few residual pine left. Regen count from 2015 (TPA): JP-56, RP-22, A-349, Oak-411, WB-38, RM-451, Beech-49, CH-9, WP-38. Variable regen. Pines generally < 5' tall. 2019: Highly variable stand. Clumpy oak regen. Good jack pine regen in spots, scattered elsewhere. Some residual WP, Oak, etc.																				
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Canopy Species	% Cover	Size Class	DBH	Age																							
Jack Pine	55	Sapling	1	6																							
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148	500 - Water	Nonstocked	5.4			No	Seasonally ponded.																				
149	500 - Water	Nonstocked	3.7		Unspecified	No	Seasonally flooded/dry.																				
150	623 - Emergent Wetland	Nonstocked	4.3			No	Seasonally ponded.																				
151	623 - Emergent Wetland	Nonstocked	14.7			No	Seasonally ponded.																				
152	500 - Water	Nonstocked	1.9			No	Seasonally ponded.																				
153	623 - Emergent Wetland	Nonstocked	5.6			No	Seasonally ponded.																				
154	623 - Emergent Wetland	Nonstocked	6.5			No	Seasonally ponded.																				
155	623 - Emergent Wetland	Nonstocked	2.9	0	Unspecified	No	Seasonally ponded.																				
156	623 - Emergent Wetland	Nonstocked	4.8			No	Seasonally ponded.																				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
157	500 - Water	Nonstocked	1.6	0		No																																				
158	42210 - Natural Red Pine	Sawtimber Poor	45.3	108	1-50	N/A	Duck Lake Fire May 2012. Rolling topography throughout the stand with scattered lowland pockets. Scattered residual red and white pine left from salvage cut (Duck Lake Salvage #13/14).																																			
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Sub-Canopy Species	Density	Avg. Height	Size																																							
Bigtooth Aspen	Medium	10 - 20 feet	Sapling																																							
Red Oak	Low	10 - 20 feet	Sapling																																							
Red Maple	Low	10 - 20 feet	Sapling																																							
Paper Birch	Low	10 - 20 feet	Sapling																																							
Red Pine	Low	< 5 feet	Sapling																																							
159	6225 - Bog	Nonstocked	1.5		Unspecified	No																																				
160	42220 - Natural Jack Pine	Sapling Well	32.4	7	Immature	N/A	Duck Lake fire May 2012. Rolling topography throughout the stand with scattered lowland pockets.																																			
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161	623 - Emergent Wetland	Nonstocked	4.6			No	Seasonally ponded. Includes scattered pine.																																			
162	42290 - Natural Mixed Pine	Sawtimber Medium	16.1	98	81-110	N/A	Burned in Duck Lake Fire 2012. Not part of salvage sales. Rolling topography.																																			
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163	500 - Water	Nonstocked	4.8			No	Seasonally ponded.																																			
164	4310 - Pine, Oak Mix	Sawtimber Medium	5.3	98	51-80	N/A	Burned in Duck Lake Fire 2012. OIPC comments: Stand is situated on the back of a ridge with a steep south facing slope. Stand is mostly oak/pine/birch mix. WP/oak regeneration.																																			
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166	623 - Emergent Wetland	Nonstocked	10.7	0		No	Duck Lake fire May 2012. Lowland topography throughout the stand with scattered upland pockets.																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
<b>167</b>	6127 - Lowland Pine	Poletimber Poor	20.1	90	51-80	N/A	Burned in Duck Lake Fire 2012. Tamarack and spruce in lowlands; RP, WP in uplands.																									
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<b>168</b>	6225 - Bog	Nonstocked	2.7	0		No																										
<b>169</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	4.0	45	81-110	N/A	Originally part of stand 41.																									
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<b>170</b>	42220 - Natural Jack Pine	Sapling Medium	31.3	7	Immature	N/A	Burned in Duck Lake Fire 2012. DLS#13. Areas with some RP residual. Regen survey in 2015 by summer students. Varying densities of jack pine, aspen, oak and red pine. Averages 923 trees/acre. 2019: patchy regen in spots. Adequate stocking overall. Some scattered log size residual RP and WP. Pockets of good JP regen.																									
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