



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42021

Entry Year 2023

Acreage: 1,655

County Luce

Management Area: Two Hearted Headwaters

---

**Revision Date:** 2021-12-29

**Stand Examiner:** Jason Tokar

**Legal Description:**

T48N R11W Sections 1, 2, & 3

T49N R10W Section 31

T49N R11W Sections 35 & 36

**Identified Planning Goals:**

To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreation and environmental needs and concerns. Proper silvicultural management will enhance age class diversity and ensure sustainability in all forest cover types.

**Soil and topography:**

The soil type is predominately Rubicon sand. Croswell-Spot complex and Paquin sand are also major soil types. The topography is mostly level to rolling throughout the compartment. Steep sand banks are found along many portions of the Two Hearted River.

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

The compartment is entirely State owned. State land borders the compartment to the north, and most of the west and south. There are a few private cabins on Long Lake just to the west of the compartment a scattered camps/cabins along the Two Hearted River. The area is used heavily for recreation activity such as camping, hiking, canoeing, fishing, ORV riding and some hunting.

**Unique Natural Features:**

The compartment falls within the boundaries of the Two Hearted River watershed. The Two Hearted River system is designated as a Natural River. The Pretty Lakes Quiet Area lies adjacent to the west of the compartment. MNFI has also identified the area as The Pretty Lakes dry-mesic northern forest community.

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

Potential archeological site listed within the compartment boundary.

**Special Management Designations or Considerations:**

The entire compartment falls within the boundaries of the Two Hearted River watershed. The Two Hearted River system is designated as a Natural River. Management consideration will follow the corresponding Two Hearted River Natural River Plan.

**Watershed and Fisheries Considerations:**

The North Branch Two-Hearted River joins the mainstem Two-Hearted River just outside this compartment. The North Branch Two-Hearted River is a designated trout stream and supports a native brook trout population. The Two Hearted River is a Natural River and any treatments or activities planned in this compartment should comply to the recommendations in the Two Hearted River Natural River Plan.

**Wildlife Habitat Considerations:**

Compartment 21 is situated in northern Luce county, east and south of the Pretty Lakes complex and is in the Seney Sand Lake Plain ecological sub-subsection and lies in the Deer Park Management Area with Kirtland's warbler, red crossbill and American marten as featured species. The compartment is a mixture of white and red pine stands with some mixed conifer, aspen and northern hardwood stands scattered throughout. The North branch of the Two Hearted river borders the southern edge of the compartment serving as an excellent east-west wildlife travel corridor. The compartment is a transitional zone between predominately pine types to the north and more deciduous types to the south and therefore, the within stand species diversity of most all stands is quite high.

Wildlife species needs will be met by leaving scattered aspen or birch on stand borders to provide food sources (ruffed grouse, redpolls, and grosbeaks) as well as snags and den trees for wildlife species such as saw-whet owls, flycatchers, chickadees. Pileated woodpecker and marten will utilize snags as well as nesting locations. Large diameter hemlock will

be retained to provide future nest trees and black bear refuge trees. Retained trees will eventually die and fall over providing hunting and travel corridors for fisher and marten and habitat for small mammals. A component of oak will be retained in harvests for mast production

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

Section 31, T49N-R10W, sections 1-4, T48N-R11W, and sections 35-36, T49N-R11W, Luce County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The nearest active sand/gravel pit is one mile to the northeast. There may be some limited potential for sand & gravel (primarily sand) within the compartment on the uplands. No current mineral leasing activity exists in the area. 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:**

The compartment can be accessed via County Road 418 as well as Long Lake Trail. Co Rd 418 is maintained by the Luce County Road Commission as a seasonal county road. Long Lake Trail is a dirt road which runs through most of the compartment and provides access for a few private land owners on the south side of Long Lake. Several two track roads provide access to most areas in the compartment.

### **Survey Needs:**

No survey work is needed to complete the prescribed treatments.

### **Recreational Facilities and Opportunities:**

There are no designated facilities within the compartment. The new equestrian trail uses the fire lane bordering the northwest compartment boundary. Recreational opportunities would include fishing and canoeing along the various branches of the Two Hearted River, hunting, ORV riding, horseback riding, snowmobiling, dog sledding, and wildlife viewing. The High Bridge SF Campground is located just east of the compartment and the Pretty Lakes SF Campground and proposed quiet area is adjacent to the west.

### **Fire Protection:**

The mixed pine types doesn't lend itself to large fires except in extreme conditions. Access is limited in some areas and may challenge suppression capabilities. The compartment borders the Two Hearted Zone Dispatch Area.

### **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:**

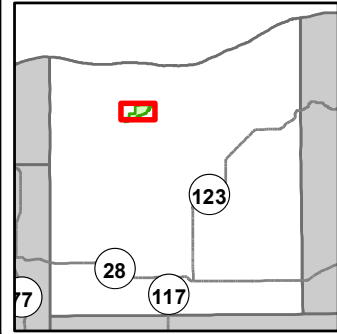
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**



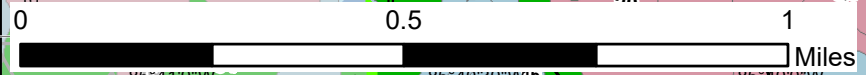
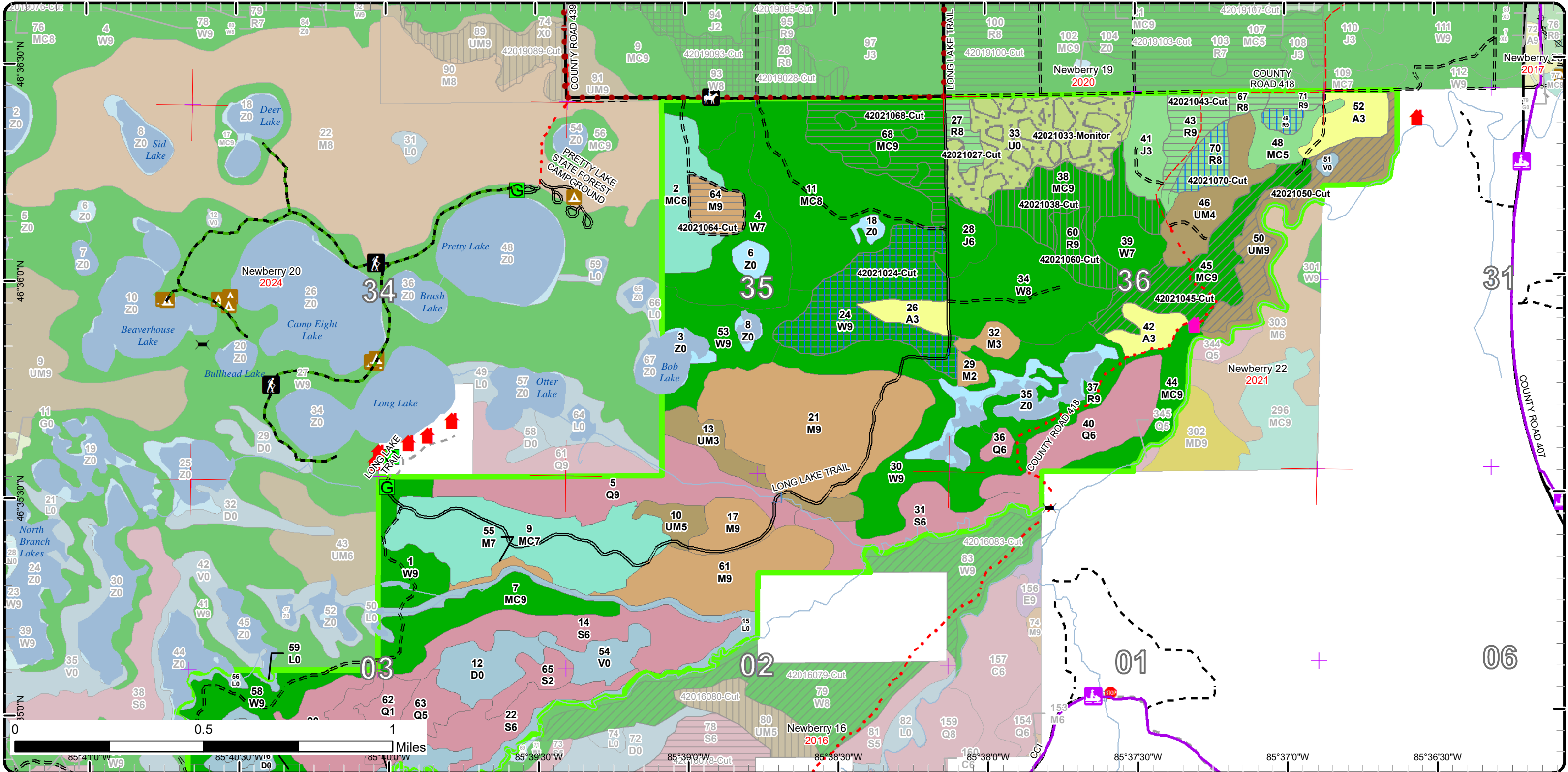


# Cover Type & Treatments Map

Compartment: 21  
 T48N, R11W, Sec. 1-4  
 T49N, R11W, Sec. 35, 36  
 T49N, R10W, Sec. 31  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Two Hearted  
 Headwaters  
 YOE: 2023  
 Acres: 1654.7 GIS Calculated  
 Examiner: Jason Tokar  
 Map Revised: 12/29/2021  
 Map Phase: Post-Review



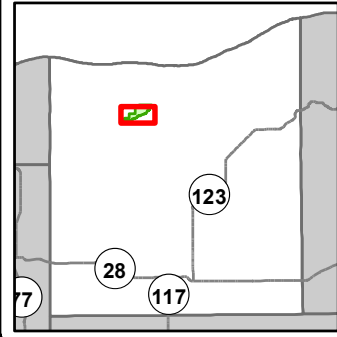
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- - - Designated Hiking Trails
- • • Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- ▲ Cabin
- Structure, Seasonal Dwelling
- Gate
- Bridges
- Culvert
- Campground
- Sign
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub



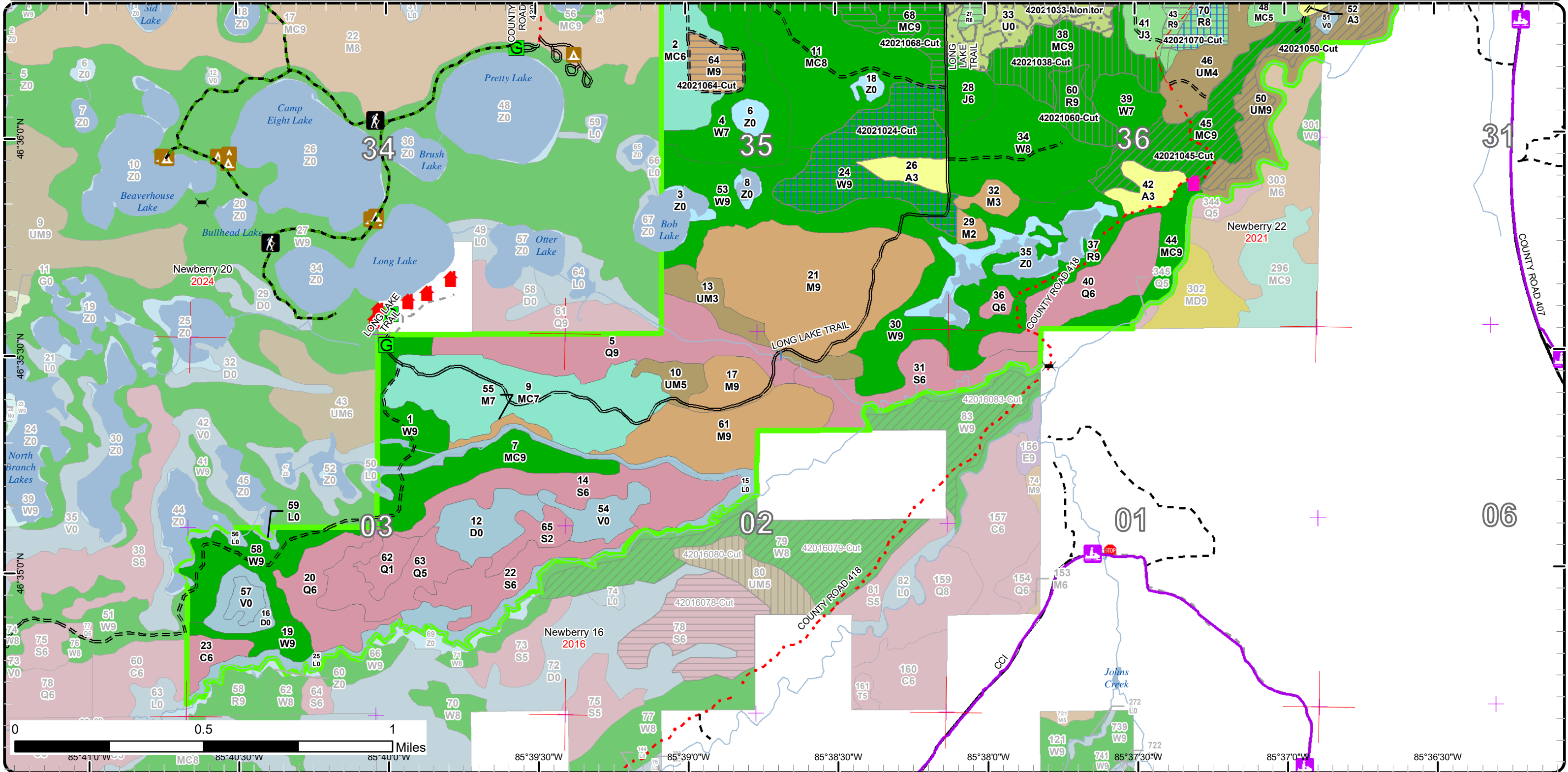
0 0.5 1 Miles

# Cover Type & Treatments Map

Compartment: 21  
 T48N, R11W, Sec. 1-4  
 T49N, R11W, Sec. 35, 36  
 T49N, R10W, Sec. 31  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Two Hearted  
 Headwaters  
 YOE: 2023  
 Acres: 1654.7 GIS Calculated  
 Examiner: Jason Tokar  
 Map Revised: 12/29/2021  
 Map Phase: Post-Review



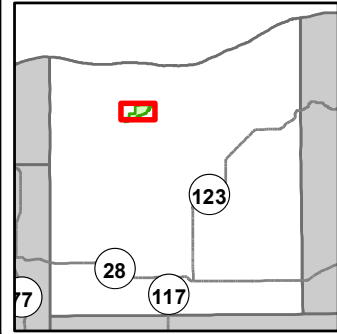
- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- 🏠 Cabin
- 🏠 Structure, Seasonal Dwelling
- 🚪 Gate
- 🌉 Bridges
- 🚰 Culvert
- 🏕 Campground
- 🛑 Sign
- 🏝 Island in Lake or River
- 🌊 Lake/Pond
- 🌊 Perennial River
- 🌊 Lakes and Rivers
- 🟩 Compartment Boundary
- 🏠 Clearcut (w/Reserves)
- 🏠 Seed Tree (w/Reserves)
- 🏠 Thinning (Crown, Low, Systematic)
- 🏠 Regeneration Survey
- 🏠 Shelter Wood (w/Reserves)
- 🌲 411 - Northern Hardwood
- 🌲 413 - Aspen
- 🌲 421 - Planted Pines
- 🌲 422 - Natural Pines
- 🌲 429 - Mixed Upland Conifers
- 🌲 430 - Upland Mixed Forest
- 🌲 612 - Lowland Coniferous Forest
- 🌲 320 - Upland Shrub
- 🌊 500 - Water
- 🌲 622 - Lowland Shrub





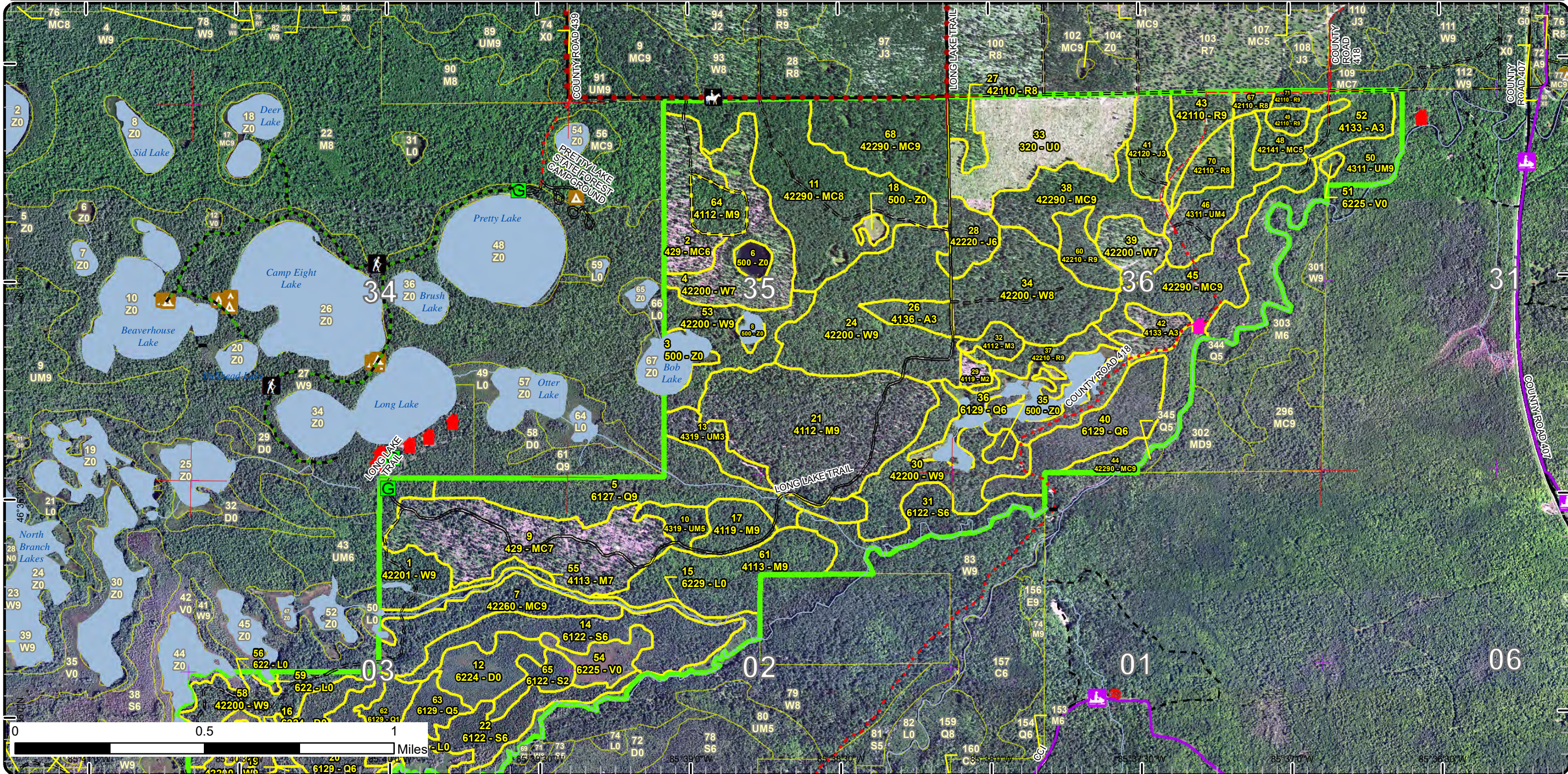
# Stand Boundary Map

Compartment: 21  
 T48N, R11W, Sec. 1-4  
 T49N, R11W, Sec. 35, 36  
 T49N, R10W, Sec. 31  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Two Hearted  
 Headwaters  
 YOE: 2023  
 Acres: 1654.7 GIS Calculated  
 Examiner: Jason Tokar  
 Map Revised: 12/29/2021  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- ▲ Cabin
- ▲ Structure, Seasonal Dwelling
- G Gate
- Bridges
- Culvert
- ▲ Campground
- STOP Sign
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 500 - Water

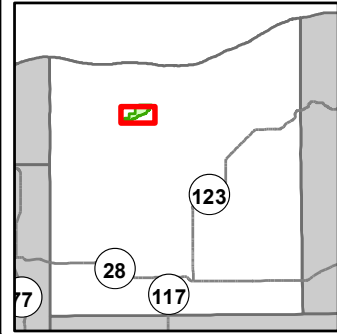
622 - Lowland Shrub



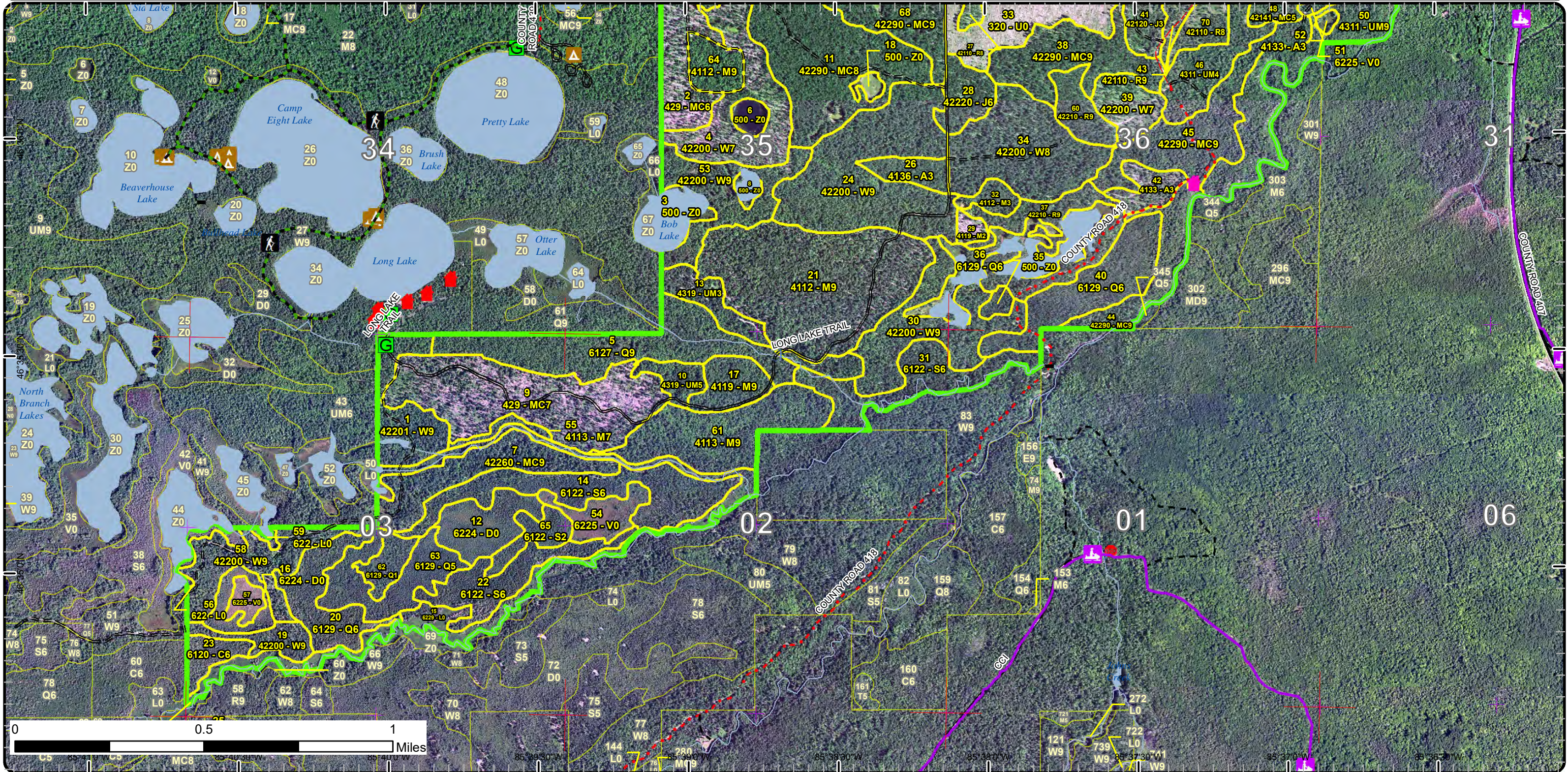


# Stand Boundary Map

Compartment: 21  
 T48N, R11W, Sec. 1-4  
 T49N, R11W, Sec. 35, 36  
 T49N, R10W, Sec. 31  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Two Hearted  
 Headwaters  
 YOE: 2023  
 Acres: 1654.7 GIS Calculated  
 Examiner: Jason Tokar  
 Map Revised: 12/29/2021  
 Map Phase: Post-Review



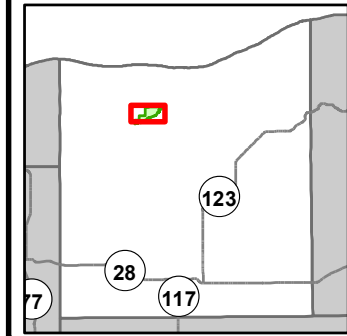
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- ▲ Cabin
- ▲ Structure, Seasonal Dwelling
- G Gate
- Bridges
- Culvert
- ▲ Campground
- Sign
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub





# Special Conservation Areas

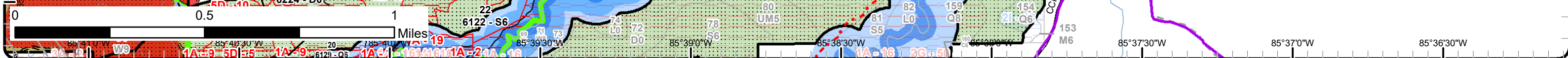
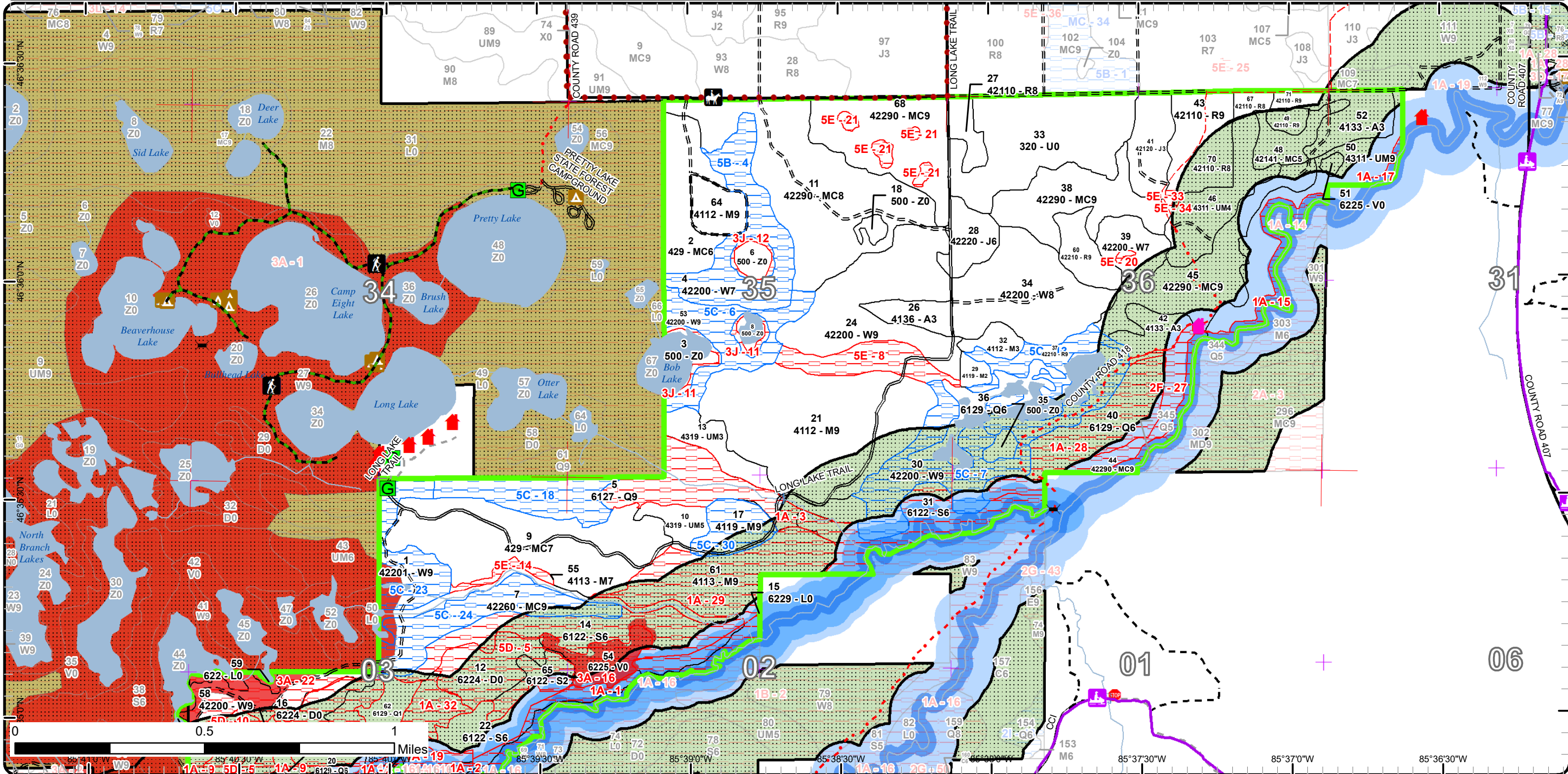
Compartment: 21  
 T48N, R11W, Sec. 1-4  
 T49N, R11W, Sec. 35, 36  
 T49N, R10W, Sec. 31  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Two Hearted  
 Headwaters  
 YOE: 2023  
 Acres: 1654.7 GIS Calculated  
 Examiner: Jason Tokar  
 Map Revised: 12/29/2021  
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Cabin
- Structure, Seasonal Dwelling
- Gate
- Bridges
- Culvert
- Campground
- Sign
- Island in Lake or River

- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1A: Federal/State/Local Law
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time

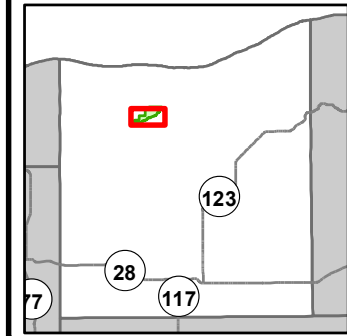
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries



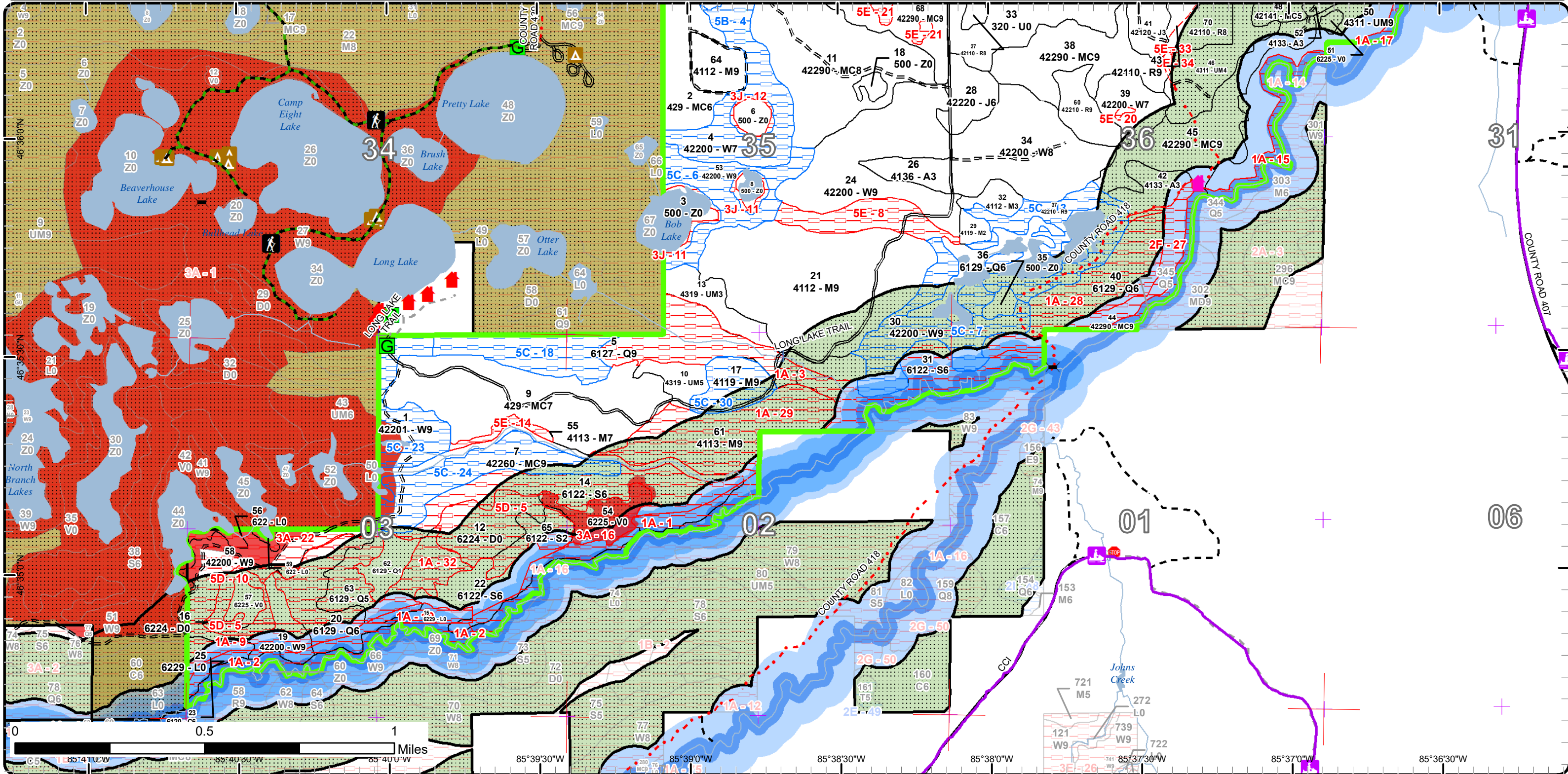


# Special Conservation Areas

Compartment: 21  
 T48N, R11W, Sec. 1-4  
 T49N, R11W, Sec. 35, 36  
 T49N, R10W, Sec. 31  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Two Hearted  
 Headwaters  
 YOE: 2023  
 Acres: 1654.7 GIS Calculated  
 Examiner: Jason Tokar  
 Map Revised: 12/29/2021  
 Map Phase: Post-Review



- Miris Corners
- ⊕ Remonumented Section Corners
- ▭ Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- 🏠 Cabin
- 🏠 Structure, Seasonal Dwelling
- 🚪 Gate
- 🌉 Bridges
- 🚰 Culvert
- 🏕 Campground
- 🛑 Sign
- 🏝 Island in Lake or River
- 🌊 Lake/Pond
- 🌊 Perennial River
- 🌊 Lakes and Rivers
- 📏 Compartment Boundary
- 📏 Available w/ Constraints
- 📏 5B: Maintain for regeneration purposes
- 📏 5C: Delay treatment for age/size class diversity or exceptional site quality
- 📏 Unavailable
- 📏 1A: Federal/State/Local Law
- 📏 2F: Too steep
- 📏 3A: Conservation Values incompatible with harvest at this time
- 📏 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
- 📏 Cold Water Streams
- 📏 Cold Water Lakes
- 📏 High Priority Trout Stream Buffer
- 📏 Recreational/Scenic Value Area
- 📏 Possible Type 1 Old Growth





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

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment 21    Year of Entry 2023



## 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	11	0	16	10	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Bog	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
Jack Pine	0	0	0	18	14	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	9	0	0	0	110	0	40	0	0	0	0	159
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Spruce/Fir	0	0	0	0	0	0	10	26	0	0	0	76	0	0	0	0	0	0	112
Natural Mixed Pines	0	0	0	0	0	0	0	0	37	136	64	0	34	0	0	0	0	0	271
Northern Hardwood	0	4	0	0	6	0	0	0	0	15	62	0	0	0	0	0	0	99	186
Planted Mixed Pines	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	0	0	0	0	49	13	0	32	0	0	0	0	0	94
Treed Bog	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Upland Conifers	0	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	106
Upland Mixed Forest	0	0	0	27	0	20	9	0	0	44	0	0	0	0	0	0	0	0	100
Upland Shrub	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Water	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
White Pine	0	0	0	0	0	0	0	0	0	0	68	74	66	78	42	0	0	0	327
<b>Total</b>	<b>214</b>	<b>15</b>	<b>12</b>	<b>61</b>	<b>30</b>	<b>20</b>	<b>19</b>	<b>35</b>	<b>0</b>	<b>145</b>	<b>385</b>	<b>324</b>	<b>98</b>	<b>152</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>99</b>	<b>1659</b>





## Report 2 – Treatment Summary

Newberry Mgt. Unit  
Year of Entry: 2023

Acres of Harvest

Compartment 21  
Total Compartment Acres: 1,655

Commercial Harvest - 284  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Natural Mixed Pines	43	0	0	0	36	42	0	0	0	122
Northern Hardwood	12	0	0	0	0	0	0	0	0	12
Red Pine	33	0	0	15	13	0	0	0	0	61
Upland Mixed Forest	0	0	0	0	0	30	0	0	0	30
White Pine	0	0	0	59	0	0	0	0	0	59
<b>Total</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>74</b>	<b>49</b>	<b>72</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>284</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	284	0	0	0	0	0	63	0	0	347
Next Step	0	153	136	0	0	275	271	63	63	962
<b>Total</b>	<b>284</b>	<b>153</b>	<b>136</b>	<b>0</b>	<b>0</b>	<b>275</b>	<b>334</b>	<b>63</b>	<b>63</b>	<b>1308</b>





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

**Approved Treatments:**

<b>24</b>	<b>42021024-Cut</b>	58.9	42200 - Natural White Pine	Sawtimber Well	120	81-110	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Seed Tree harvest. Retain 10-30 BA of WP and RP. Retention will be along low area and drainage to the south of treatment area (as shown). Areas of advanced regen of aspen, maple, spruce and balsam will be released with the harvest. Maximize diversity in red line - leave aspen and birch in the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, balsam, jack pine, white birch, white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention area consists of the portion of the stand that contains cedar and hemlock along the drainage, as well as south of the drainage.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>27</b>	<b>42021027-Cut</b>	8.0	42110 - Planted Red Pine	Sawtimber Medium	89	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. No retention, small acreage.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Release; Pesticide, Aerial - Release; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Re</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>33</b>	<b>42021033-Monitor</b>	63.0	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Monitor the success of planted red pine, and any need for additional release spray.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Release; Other, Pre-Commercial Thinning - Mechanical; NonForestMgt, Brush Cutting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											





S  
t  
a  
n  
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>38 42021038-Cut</b>	36.3	42290 - Natural Mixed Pine	Sawtimber Well	89	111-140	Harvest	Shelterwood with Retention	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Shelterwood with retention. Residual BA max of 30-40 sq ft. Patch retention of 3-5% located in areas of the most diversity, to include oak.</p> <p><u>Specs:</u> Mark white pine and red pine as residual. All oak to be left/marked as part of residual BA as well. Remove all other species.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed deciduous species currently present, with some white pine and red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>43 42021043-Cut</b>	16.5	42110 - Planted Red Pine	Sawtimber Well	89	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut w/retention. Retention patch of 3% in very southern end of the stand as mapped. Retain the 2 large oak west of road.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Pesticide, Skidder - Release</p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand was reduced from original planting acreage due to Two Hearted River Natural River Plan.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>45 42021045-Cut</b>	41.8	42290 - Natural Mixed Pine	Sawtimber Well	106	111-140	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Thin the stand to a residual BA that follows the the Two Hearted River Natural River Plan for harvest restrictions. Remove all aspen, maple, spruce, balsam, birch and jack pine unless needed to maintain the required residual BA. No harvesting within 100 ft of the Two Hearted River (as outlined in the plan). Treatment acreage may change due to Natural River Plan specifications and topography within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed pine (red, white and jack) with aspen, maple, spruce and balsam.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										





S  
t  
a  
n  
d

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

49	42021049-Cut	4.0	42110 - Planted Red Pine	Sawtimber Well	89	111-140	Harvest	Seed Tree	4133 - Aspen, Mixed Pine	Even-Aged	No
----	--------------	-----	--------------------------	----------------	----	---------	---------	-----------	--------------------------	-----------	----

Prescription Seed tree. Leave 10-20 BA of red pine and/or white pine. No other retention, small acreage. Leave diversity in the red line.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with maple, white pine, white birch.

Regen:

Other Stand was reduced from original planting acreage due to Two Hearted River Natural River Plan.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

50	42021050-Cut	30.4	4311 - Pine, Aspen Mix	Sawtimber Well	81	141-170	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
----	--------------	------	------------------------	----------------	----	---------	---------	----------------	---------------------------------------	----------	----

Prescription Thin the stand to a residual BA that follows the the Two Hearted River Natural River Plan for harvest restrictions. Remove all aspen, maple, spruce, balsam, birch and jack pine unless needed to maintain the required residual BA. No harvesting within 100 ft of the Two Hearted River (as outlined in the plan). Treatment acreage may change due to Natural River Plan specifications and topography within the stand.

Specs:

Next Step

Treatments:

Acceptable Mixed pine (red, white, jack) with aspen, maple, balsam and spruce.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

60	42021060-Cut	13.0	42210 - Natural Red Pine	Sawtimber Well	96	111-140	Harvest	Shelterwood with Retention	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
----	--------------	------	--------------------------	----------------	----	---------	---------	----------------------------	---------------------------------------	----------	----

Prescription Shelterwood with retention. Residual BA of 30-40 sq ft. Concentrate marking red pine as residual. Retain a component of white pine.

Specs:

Remove all other species. Patch Retention of 3% in the southern end of the stand in area of mature white pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine, aspen, maple, jack pine, red pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022





S  
t  
a  
n  
d

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

<b>64</b>	<b>42021064-Cut</b>	11.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
-----------	---------------------	------	---	----------------	----	--------	---------	-------------------------	----------------------------------	-----------	----

Prescription Clearcut w/retention. Retention patch of 3% of stand acreage located in area of large hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, Beech, Yellow Birch and aspen with a conifer component.

Regen:

Other Stand will have good component of sub-merchantable hardwoods and aspen retained after harvest.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>67</b>	<b>42021067-Cut</b>	3.9	42110 - Planted Red Pine	Sawtimber Medium	89	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	-----	--------------------------	------------------	----	-------	---------	----------	-------------------------	-----------	----

Prescription Clearcut. No retention, small acreage. Leave non red pine in the red line where possible.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;

Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Replant

Acceptable Red pine

Regen:

Other Stand was reduced from original planting acreage due to Two Hearted River Natural River Plan.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>68</b>	<b>42021068-Cut</b>	43.4	42290 - Natural Mixed Pine	Sawtimber Well	92	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	----------------------------	----------------	----	--------	---------	-------------------------	-------------------------	-----------	----

Prescription Clearcut with retention. Patch retention to be around the 4 small vernal pond areas within the stand as mapped. No individual tree retention.

Specs: Leave diversity in the red line, especially aspen and birch when possible.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Pesticide, Aerial -

Treatments: Release; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Plant

Acceptable Red Pine

Regen:

Other Retention around 4 vernal ponds, one tree length in width.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>70</b>	<b>42021070-Cut</b>	11.0	42110 - Planted Red Pine	Sawtimber Medium	89	81-110	Harvest	Seed Tree with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	------------------	----	--------	---------	--------------------------	--------------------------	-----------	----

Prescription Seed tree. Residual BA max of 10-20 sq ft. All oak to be left as part of the residual BA as well. Patch retention of 3-5% in SW corner of the stand as mapped.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with maple, white pine, white birch.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022





S  
t  
a  
n  
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
71 42021071-Cut	4.6	42110 - Planted Red Pine	Sawtimber Well	89	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. No retention, small acreage. Leave non red pine in the red line where possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Replant</p> <p><u>Acceptable Regen:</u> Red Pine</p> <p><u>Other Comment:</u> Stand was reduced from original planting acreage due to Two Hearted River Natural River Plan.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment Acreage Proposed: 346.6**



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 21  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		5B	5C	1A	2F	3A	3J	5D	5E		
36	36	0	0	Aspen										
21	7	0	14	Bog			0		14		0			
9	0	0	9	Cedar			9							
32	32	0	0	Jack Pine										
159	12	25	122	Lowland Conifers		25	122		0					
48	13	0	36	Lowland Shrub			30		5					
112	17	0	95	Lowland Spruce/Fir			85		0		10			
270	209	33	27	Natural Mixed Pines		33	7	15						5
185	120	15	50	Northern Hardwood		15	46							4
12	12	0	0	Planted Mixed Pines										
94	61	32	1	Red Pine		32								1
31	0	0	31	Treed Bog					0		31			
106	106	0	0	Upland Conifers										
98	86	0	13	Upland Mixed Forest			13							
63	63	0	0	Upland Shrub										
51	51	0	0	Water										
328	131	133	64	White Pine	41	93	10		28	6				19
1,654	955	239	460	Total Forested Acres	41	198	322	15	47	6	41			29
	58%	14%	28%	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	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River management zone							
2	Unavailable	1A: Federal/State/Local Law	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 21  
Year of Entry: 2023

3	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	63	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Retention for stand 24, along the drainage and area south that contains cedar, hemlock and large white pine.							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 21  
Year of Entry: 2023

9	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River Zone							
10	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 21  
Year of Entry: 2023

15	Unavailable	1A: Federal/State/Local Law	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River management zone							
16	Unavailable	3A: Conservation Values incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
17	Unavailable	1A: Federal/State/Local Law	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River management zone							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 21  
Year of Entry: 2023

21	Unavailable	5E: Long-Term Retention	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	3A: Conservation Values incompatible with harvest at this time	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Narrow ridge with steep slope down to the Two Hearted River corridor. Natural River Plan and considerations preclude harvesting this stand.							
28	Unavailable	1A: Federal/State/Local Law	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 21  
Year of Entry: 2023

29	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is ready to be managed by a shelterwood harvest, however the Natural River Plan doesn't allow that type of residual BA within the zone that this stand is located.							
30	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	83	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River Plan management restrictions and difficult access. Not likely to ever manage these stands/timber types.							
33	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
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	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	24.6	115	111-140	N/A	Large diameter white pine with small diameter red maple, some large diameter aspen. Scattered red pine.																																																						
<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>Red Maple</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>63</td> <td>Log/XLog/Pole</td> <td>16</td> <td>115</td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole/Log	9		Quaking Aspen	15	Log/Pole	12		White Pine	63	Log/XLog/Pole	16	115	Red Pine	2	Log/XLog	16		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Pole</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	Pole	Beech	Low	>20 feet	Sapling	Balsam Fir	Medium	Variable	Sapling	Black Spruce	Low	10 - 20 feet	Sapling	White Pine	Medium	Variable	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	20	Pole/Log	9																																																										
Quaking Aspen	15	Log/Pole	12																																																										
White Pine	63	Log/XLog/Pole	16	115																																																									
Red Pine	2	Log/XLog	16																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	Medium	10 - 20 feet	Pole																																																										
Beech	Low	>20 feet	Sapling																																																										
Balsam Fir	Medium	Variable	Sapling																																																										
Black Spruce	Low	10 - 20 feet	Sapling																																																										
White Pine	Medium	Variable	Sapling																																																										
2	429 - Mixed Upland Conifers	Poletimber Well	28.0	95	1-50	N/A	2021 - Stand is regenerating well to a mix of red maple, aspen, birch, balsam and a component of white pine following a shelterwood harvest. Thick regeneration throughout most of the stand. Slightly less dense where pockets of residual hemlock were retained from harvest. Large diameter WP retained, along with some maple, aspen and white birch residual. Pockets of residual hemlock as well. Stand is two aged now, but will be managed for the new regeneration. Stand will convert to an upland mixed deciduous stand with conifer.  2/24/2016: cut as part of 420251301, Beaver Lake Hardwoods in 2015.  2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs of decline, mortality. Center of the stand (within the "loop" of the road) has more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch.																																																						
<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>Red Maple</td> <td>22</td> <td>Log/Pole</td> <td>10</td> <td>95</td> </tr> <tr> <td>White Pine</td> <td>50</td> <td>Log/XLog</td> <td>16</td> <td>95</td> </tr> <tr> <td>Hemlock</td> <td>20</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>3</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	22	Log/Pole	10	95	White Pine	50	Log/XLog	16	95	Hemlock	20	Log/Pole	10		Paper Birch	5	Log/Pole	10		Bigtooth Aspen	3	Log/Pole	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Cherry (spp.)</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	High	5 - 10 feet	Sapling	Beech	Low	5 - 10 feet	Sapling	Paper Birch	Low	5 - 10 feet	Sapling	Balsam Fir	Medium	Variable	Sapling	Aspen (spp.)	Medium	5 - 10 feet	Sapling	Cherry (spp.)	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	22	Log/Pole	10	95																																																									
White Pine	50	Log/XLog	16	95																																																									
Hemlock	20	Log/Pole	10																																																										
Paper Birch	5	Log/Pole	10																																																										
Bigtooth Aspen	3	Log/Pole	11																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	High	5 - 10 feet	Sapling																																																										
Beech	Low	5 - 10 feet	Sapling																																																										
Paper Birch	Low	5 - 10 feet	Sapling																																																										
Balsam Fir	Medium	Variable	Sapling																																																										
Aspen (spp.)	Medium	5 - 10 feet	Sapling																																																										
Cherry (spp.)	Low	Variable	Sapling																																																										
3	500 - Water	Nonstocked	9.7		Unspecified	No	Bob Lake																																																						
4	42200 - Natural White Pine	Sawtimber Poor	42.5	103	51-80	N/A	2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12 inches tall. Possibly look to remove the overstory in 10-20 years.  2/24/2016: Cut in 2015 as part of Beaver Lake Hardwoods, 420251301																																																						
<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>85</td> <td>XLog/Log/Pole</td> <td>18</td> <td>103</td> </tr> <tr> <td>Red Pine</td> <td>7</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>3</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	85	XLog/Log/Pole	18	103	Red Pine	7	Log/Pole	14		Hemlock	5	Log/Pole	10		Red Maple	3	Pole/Log	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	High	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Black Spruce	Low	5 - 10 feet	Sapling	White Pine	Medium	Variable	Sapling	Beech	Low	Variable	Sapling	Bigtooth Aspen	Medium	Variable	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																									
White Pine	85	XLog/Log/Pole	18	103																																																									
Red Pine	7	Log/Pole	14																																																										
Hemlock	5	Log/Pole	10																																																										
Red Maple	3	Pole/Log	9																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	High	Variable	Sapling																																																										
Balsam Fir	Medium	Variable	Sapling																																																										
Black Spruce	Low	5 - 10 feet	Sapling																																																										
White Pine	Medium	Variable	Sapling																																																										
Beech	Low	Variable	Sapling																																																										
Bigtooth Aspen	Medium	Variable	Sapling																																																										
5	6127 - Lowland Pine	Sawtimber Well	56.0	103	81-110	N/A	Large diameter white pine with smaller spruce, maple, scattered large aspen. Pockets of hemlock. Much of the stand is lower ground, lower than adjacent stand to the south. Wet area and an intermittent drainage in eastern portion of the stand.																																																						
<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>Red Maple</td> <td>25</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>White Pine</td> <td>55</td> <td>Log/XLog/Pole</td> <td>16</td> <td>103</td> </tr> <tr> <td>Hemlock</td> <td>15</td> <td>Pole/Log</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	25	Pole/Log	9		White Spruce	5	Pole	9		White Pine	55	Log/XLog/Pole	16	103	Hemlock	15	Pole/Log	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hemlock</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Beech	Low	< 5 feet	Sapling	Paper Birch	Low	5 - 10 feet	Sapling	Balsam Fir	High	Variable	Sapling	Hemlock	Low	5 - 10 feet	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	25	Pole/Log	9																																																										
White Spruce	5	Pole	9																																																										
White Pine	55	Log/XLog/Pole	16	103																																																									
Hemlock	15	Pole/Log	10																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	Medium	Variable	Sapling																																																										
Beech	Low	< 5 feet	Sapling																																																										
Paper Birch	Low	5 - 10 feet	Sapling																																																										
Balsam Fir	High	Variable	Sapling																																																										
Hemlock	Low	5 - 10 feet	Sapling																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

**6** 500 - Water Nonstocked 4.9 Unspecified No Lake was full of water in July 2021.

**7** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 33.5 122 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole/Log	10		Balsam Fir	Full	Variable	Sapling
Bigtooth Aspen	23	Log/Pole	11		White Pine	Low	Variable	Sapling
White Pine	58	Log/XLog/Pole	14	122				
Red Pine	10	Log/XLog	14					
Red Oak	2	Log/Pole	12					

White pine ridge with aspen. Aspen is mature and showing signs of decline. Component of red pine, white birch and some maple. Some slopes but manageable for harvest. Western half of stand has more aspen and eastern half is more of a solid pine stand. Based on the results from the harvest in stand 58 (TNC harvest prior to land trade), good diverse regen could result from a harvest in this stand

**8** 500 - Water Nonstocked 3.1 Unspecified No

**9** 429 - Mixed Upland Conifers Sawtimber Poor 77.7 94 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	50	XLog/Log	18	94	Aspen (spp.)	High	Variable	Sapling
Red Maple	25	Log/Pole	12		Red Maple	High	Variable	Sapling
Quaking Aspen	6	Log/Pole	12		Cherry (spp.)	Medium	Variable	Sapling
Red Pine	2	Log/Pole	16		Balsam Fir	Low	Variable	Sapling
Hemlock	15	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling
Yellow Birch	2	Log/Pole	12		White Spruce	Low	5 - 10 feet	Sapling
					Beech	Medium	Variable	Sapling

2021 - Stand is regenerating very well with maple, aspen, cherry, balsam, white birch, white pine. Very thick understory of new regeneration. Residual large diameter white pine, pole and log size red maple, residual log size aspen, pockets of hemlock, and a few yellow birch residual. Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy.

2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCR 10/06/2015.

Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Aspen is dying out. Hemlock pockets. Better timber and large diameters in the western half of the stand. Dieback in some of the maple, bark beetle in some of red pine, aspen is declining and showing mortality.

**10** 4319 - Mixed Upland Forest Poletimber Medium 8.8 51 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	5		Balsam Fir	Medium	5 - 10 feet	Sapling
Quaking Aspen	5	Pole/Sapling	6		White Pine	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		Cherry (spp.)	Medium	5 - 10 feet	Sapling
White Spruce	50	Pole	6	51				
Black Cherry	20	Sapling	4					

Open area filling in with mainly spruce, along with balsam, cherry, maple, aspen and white pine.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
11	42290 - Natural Mixed Pine	Sawtimber Medium	87.6	92	81-110	N/A	Large diameter white pine and red pine over thick regeneration of aspen, maple, balsam, white pine and spruce. Multiple cuts done over a number of years within the stand. Different cut types over the stand area as well. Very mixed stand with lots of aspen reaching pole size. A few small low areas within the stand. Potential harvest next entry year.																																																					
<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>55</td> <td>Log/XLog/Pole</td> <td>16</td> <td>92</td> </tr> <tr> <td>Red Pine</td> <td>30</td> <td>XLog/Log</td> <td>15</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	55	Log/XLog/Pole	16	92	Red Pine	30	XLog/Log	15		Jack Pine	5	Pole	9		Bigtooth Aspen	10	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>High</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	Sapling	Paper Birch	Low	>20 feet	Sapling	Balsam Fir	Medium	Variable	Sapling	Black Spruce	Low	10 - 20 feet	Sapling	Aspen (spp.)	High	>20 feet	Sapling							
Canopy Species	% Cover	Size Class	DBH	Age																																																								
White Pine	55	Log/XLog/Pole	16	92																																																								
Red Pine	30	XLog/Log	15																																																									
Jack Pine	5	Pole	9																																																									
Bigtooth Aspen	10	Pole/Sapling	6																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Red Maple	Medium	10 - 20 feet	Sapling																																																									
Paper Birch	Low	>20 feet	Sapling																																																									
Balsam Fir	Medium	Variable	Sapling																																																									
Black Spruce	Low	10 - 20 feet	Sapling																																																									
Aspen (spp.)	High	>20 feet	Sapling																																																									
12	6224 - Treed Bog	Nonstocked	21.5		Unspecified	No																																																						
13	4319 - Mixed Upland Forest	Sapling Well	19.7	40	1-50	N/A	2021 - Old notes state that stand was cut as sale #05-81 - salvage cut. Mixed stand, moving into pole size. Thick in areas. Some cedar along the edge of drainage. Good white birch regeneration.																																																					
<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>Red Maple</td> <td>25</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>33</td> <td>Sapling/Pole</td> <td>4</td> <td>40</td> </tr> <tr> <td>White Spruce</td> <td>15</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>7</td> <td>Pole/Sap/Log</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	25	Sapling/Pole	4		Paper Birch	10	Sapling/Pole	4		Quaking Aspen	10	Sapling	3		Balsam Fir	33	Sapling/Pole	4	40	White Spruce	15	Sapling	3		White Pine	7	Pole/Sap/Log	7		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Paper Birch	Medium	Variable	Sapling	White Spruce	Low	Variable	Sapling	
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Red Maple	25	Sapling/Pole	4																																																									
Paper Birch	10	Sapling/Pole	4																																																									
Quaking Aspen	10	Sapling	3																																																									
Balsam Fir	33	Sapling/Pole	4	40																																																								
White Spruce	15	Sapling	3																																																									
White Pine	7	Pole/Sap/Log	7																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Red Maple	Medium	Variable	Sapling																																																									
Balsam Fir	Medium	Variable	Sapling																																																									
Paper Birch	Medium	Variable	Sapling																																																									
White Spruce	Low	Variable	Sapling																																																									
14	6122 - Black Spruce	Poletimber Well	44.3	105	51-80	N/A	Lowland spruce stand.																																																					
<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>Red Maple</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>61</td> <td>Pole</td> <td>8</td> <td>105</td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>13</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log</td> <td>10</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	2	Pole	8		Paper Birch	2	Pole	7		Black Spruce	61	Pole	8	105	Northern White Cedar	10	Pole	8		Tamarack	13	Pole	7		White Pine	10	Pole/Log	10		Red Pine	2	Pole	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Medium</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Medium	5 - 10 feet	Sapling	Northern White Cedar	Medium	< 5 feet	Sapling	Tamarack	Low	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Red Maple	2	Pole	8																																																									
Paper Birch	2	Pole	7																																																									
Black Spruce	61	Pole	8	105																																																								
Northern White Cedar	10	Pole	8																																																									
Tamarack	13	Pole	7																																																									
White Pine	10	Pole/Log	10																																																									
Red Pine	2	Pole	9																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Black Spruce	Medium	5 - 10 feet	Sapling																																																									
Northern White Cedar	Medium	< 5 feet	Sapling																																																									
Tamarack	Low	Variable	Tall Shrub																																																									
15	6229 - Mixed lowland shrub	Nonstocked	32.7		Unspecified	No	North Branch Two Hearted River corridor and feeder stream.																																																					
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Low</td> <td></td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>High</td> <td></td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce		Low		Sapling	Tag Alder	High		Tall Shrub																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Black Spruce	Low		Sapling																																																									
Tag Alder	High		Tall Shrub																																																									
16	6224 - Treed Bog	Nonstocked	9.4		Unspecified	No																																																						
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>Medium</td> <td></td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Low</td> <td></td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td></td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tamarack		Medium		Sapling	Northern White Cedar	Low		Sapling	Black Spruce	Medium		Sapling																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Tamarack	Medium		Sapling																																																									
Northern White Cedar	Low		Sapling																																																									
Black Spruce	Medium		Sapling																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
17	4119 - Mixed Northern Hardwoods	Sawtimber Well	15.0	80	81-110	N/A	Low quality red maple with beech, yellow birch, and some cherry. Large diameter white pine throughout. Scattered large diameter spruce. Higher conifer component in the eastern portion of the stand. Beech is in bad shape, lots of mortality.																																																											
<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>Red Maple</td><td>71</td><td>Log/Pole</td><td>10</td><td>80</td></tr> <tr><td>Beech</td><td>5</td><td>Pole/Log</td><td>10</td><td></td></tr> <tr><td>White Spruce</td><td>5</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>White Pine</td><td>10</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>Black Cherry</td><td>2</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Yellow Birch</td><td>7</td><td>Log/Pole</td><td>10</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	71	Log/Pole	10	80	Beech	5	Pole/Log	10		White Spruce	5	Pole	9		White Pine	10	Log/XLog	15		Black Cherry	2	Pole	9		Yellow Birch	7	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Beech</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Spruce</td><td>Low</td><td>&lt; 5 feet</td><td>Sapling</td></tr> <tr><td>Yellow Birch</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	Sapling	Beech	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	White Spruce	Low	< 5 feet	Sapling	Yellow Birch	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Red Maple	71	Log/Pole	10	80																																																														
Beech	5	Pole/Log	10																																																															
White Spruce	5	Pole	9																																																															
White Pine	10	Log/XLog	15																																																															
Black Cherry	2	Pole	9																																																															
Yellow Birch	7	Log/Pole	10																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Red Maple	Medium	10 - 20 feet	Sapling																																																															
Beech	Medium	Variable	Sapling																																																															
Balsam Fir	Medium	Variable	Sapling																																																															
White Spruce	Low	< 5 feet	Sapling																																																															
Yellow Birch	Low	Variable	Sapling																																																															
18	500 - Water	Nonstocked	2.8		Unspecified	No	Small pond/lake with leatherleaf edge. Full of water in 2021. Dead white pine along edges due to high water level																																																											
19	42200 - Natural White Pine	Sawtimber Well	10.5	111	111-140	N/A	Isolated white pine ridge with a mix of other species. Stand 58 was harvested by TNC prior to the land trade. Access could be through this stand now.																																																											
<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>Red Maple</td><td>5</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Paper Birch</td><td>5</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Balsam Fir</td><td>2</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Black Spruce</td><td>2</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Northern White Cedar</td><td>5</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>White Pine</td><td>10</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>66</td><td>Log/XLog</td><td>15</td><td>111</td></tr> <tr><td>Red Pine</td><td>5</td><td>Log/XLog</td><td>14</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	6		Paper Birch	5	Pole	8		Balsam Fir	2	Pole	6		Black Spruce	2	Pole	6		Northern White Cedar	5	Pole	7		White Pine	10	Pole	8		White Pine	66	Log/XLog	15	111	Red Pine	5	Log/XLog	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Low</td><td>10 - 20 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Black Spruce	Low	10 - 20 feet	Sapling		
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Red Maple	5	Pole	6																																																															
Paper Birch	5	Pole	8																																																															
Balsam Fir	2	Pole	6																																																															
Black Spruce	2	Pole	6																																																															
Northern White Cedar	5	Pole	7																																																															
White Pine	10	Pole	8																																																															
White Pine	66	Log/XLog	15	111																																																														
Red Pine	5	Log/XLog	14																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Red Maple	Low	Variable	Sapling																																																															
Balsam Fir	Low	Variable	Sapling																																																															
Black Spruce	Low	10 - 20 feet	Sapling																																																															
20	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	25.7	100	81-110	N/A	northern 2/3 of stand were acquired in 2018 as TNC trade																																																											
<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>Black Spruce</td><td>35</td><td>Pole</td><td>8</td><td>100</td></tr> <tr><td>Northern White Cedar</td><td>30</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Tamarack</td><td>20</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>15</td><td>Log/Pole</td><td>12</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	35	Pole	8	100	Northern White Cedar	30	Pole	8		Tamarack	20	Pole	8		White Pine	15	Log/Pole	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	Black Spruce	Low	5 - 10 feet	Sapling	Tag Alder	Medium	5 - 10 feet	Tall Shrub																						
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Black Spruce	35	Pole	8	100																																																														
Northern White Cedar	30	Pole	8																																																															
Tamarack	20	Pole	8																																																															
White Pine	15	Log/Pole	12																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Balsam Fir	Medium	Variable	Sapling																																																															
Black Spruce	Low	5 - 10 feet	Sapling																																																															
Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																															
21	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98.7	95	81-110	N/A	2021 - Good regeneration filling in. Maple, cherry, beech, yellow birch regen, all 5-15 ft tall. Very thick stand to walk through. Some areas of open canopy have raspberry and blackberry. Road through the stand still hasn't completely healed from the sale activity.  2016: sale completed. 42-026-13-01. Mosquito Melee Hardwoods. TCR 10/06/2015  old notes prior to harvest - Red maple and beech with sugar maple and yellow birch. Balsam and super canopy white pine. Large diameters in the maple with alot of large pulp quality trees. Beech is mostly dead or dying (BBD) Pockets of lower basal areas - mortality or smaller diameters. Top dieback on some of the larger maple. Understory is mostly beech with some maple.																																																											
<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>Sugar Maple</td><td>20</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Red Maple</td><td>65</td><td>Log/Pole</td><td>12</td><td>95</td></tr> <tr><td>Yellow Birch</td><td>2</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Beech</td><td>2</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>White Pine</td><td>6</td><td>Log/XLog</td><td>16</td><td></td></tr> <tr><td>Hemlock</td><td>5</td><td>Log/Pole</td><td>11</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	20	Log/Pole	12		Red Maple	65	Log/Pole	12	95	Yellow Birch	2	Pole	9		Beech	2	Log/Pole	12		White Pine	6	Log/XLog	16		Hemlock	5	Log/Pole	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Yellow Birch</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Beech</td><td>High</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Hemlock</td><td>Low</td><td>&lt; 5 feet</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Yellow Birch	Low	Variable	Sapling	Beech	High	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Hemlock	Low	< 5 feet	Sapling	Black Cherry	Medium	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Sugar Maple	20	Log/Pole	12																																																															
Red Maple	65	Log/Pole	12	95																																																														
Yellow Birch	2	Pole	9																																																															
Beech	2	Log/Pole	12																																																															
White Pine	6	Log/XLog	16																																																															
Hemlock	5	Log/Pole	11																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Red Maple	Medium	Variable	Sapling																																																															
Yellow Birch	Low	Variable	Sapling																																																															
Beech	High	Variable	Sapling																																																															
Balsam Fir	Low	Variable	Sapling																																																															
Hemlock	Low	< 5 feet	Sapling																																																															
Black Cherry	Medium	Variable	Sapling																																																															





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
22	6122 - Black Spruce	Poletimber Well	25.8	65	1-50	N/A	West portion (1/3) of stand was acquired in TNC trade.																																																							
23	6120 - Lowland Cedar	Poletimber Well	8.8	130	Unspecified	N/A	Lowland cedar and mixed conifers along the North Branch Two Hearted River. Thick understory. Cedar regen present.																																																							
<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>Red Maple</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>70</td> <td>Pole</td> <td>8</td> <td>130</td> </tr> <tr> <td>Tamarack</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	8		Black Spruce	10	Pole	8		Northern White Cedar	70	Pole	8	130	Tamarack	15	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	Black Spruce	Low	5 - 10 feet	Sapling	Northern White Cedar	Medium	5 - 10 feet	Sapling	Tag Alder	Medium	Variable	Tall Shrub														
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Red Maple	5	Pole	8																																																											
Black Spruce	10	Pole	8																																																											
Northern White Cedar	70	Pole	8	130																																																										
Tamarack	15	Pole	8																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Balsam Fir	Medium	Variable	Sapling																																																											
Black Spruce	Low	5 - 10 feet	Sapling																																																											
Northern White Cedar	Medium	5 - 10 feet	Sapling																																																											
Tag Alder	Medium	Variable	Tall Shrub																																																											
24	42200 - Natural White Pine	Sawtimber Well	77.6	120	81-110	N/A	Combination of two old stands. W9. Large diameter white pine with red pine and components of merchantable red maple, aspen, white birch, spruce, balsam, and a trace of hemlock. South half of the stand has more of a range of species while the northern half is more white pine with red pine. Merchantable white birch is declining. Areas of good advanced regen of multiple species.																																																							
<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>Red Maple</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Pole/Log</td> <td>10</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Sapling</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>65</td> <td>Log/XLog/Pole</td> <td>16</td> <td>120</td> </tr> <tr> <td>Red Pine</td> <td>18</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	9		Bigtooth Aspen	5	Pole/Log	10		Balsam Fir	5	Pole/Sapling	8		White Pine	65	Log/XLog/Pole	16	120	Red Pine	18	Log/XLog	15		Paper Birch	2	Pole	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Medium</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Black Spruce	Low	< 5 feet	Sapling	White Pine	Low	5 - 10 feet	Sapling	Bigtooth Aspen	Medium	>20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Red Maple	5	Pole	9																																																											
Bigtooth Aspen	5	Pole/Log	10																																																											
Balsam Fir	5	Pole/Sapling	8																																																											
White Pine	65	Log/XLog/Pole	16	120																																																										
Red Pine	18	Log/XLog	15																																																											
Paper Birch	2	Pole	9																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Red Maple	Medium	Variable	Sapling																																																											
Balsam Fir	Medium	Variable	Sapling																																																											
Black Spruce	Low	< 5 feet	Sapling																																																											
White Pine	Low	5 - 10 feet	Sapling																																																											
Bigtooth Aspen	Medium	>20 feet	Sapling																																																											
25	6229 - Mixed lowland shrub	Nonstocked	10.6		Unspecified	No	North Branch Two Hearted River corridor																																																							
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>High</td> <td></td> <td>Tall Shrub</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td></td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High		Tall Shrub	Black Spruce	Low		Sapling																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Tag Alder	High		Tall Shrub																																																											
Black Spruce	Low		Sapling																																																											
26	4136 - Aspen, Mixed Conifer	Sapling Well	9.5	37	1-50	N/A	2021 - Stand is beginning to transition to a pole size stand.  Stand harvested as sale #79-84. Final harvest. Old notes say that the stand was a white pine type prior to harvest. Nice young aspen stand with balsam, white pine, and red maple.																																																							
<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>Red Maple</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>70</td> <td>Sapling/Pole</td> <td>4</td> <td>37</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	3		Quaking Aspen	70	Sapling/Pole	4	37	Balsam Fir	5	Sapling/Pole	4		Black Spruce	5	Sapling	3		White Pine	10	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	5 - 10 feet	Sapling	Balsam Fir	Low	5 - 10 feet	Sapling	White Pine	Medium	Variable	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Red Maple	10	Sapling	3																																																											
Quaking Aspen	70	Sapling/Pole	4	37																																																										
Balsam Fir	5	Sapling/Pole	4																																																											
Black Spruce	5	Sapling	3																																																											
White Pine	10	Log/Pole	10																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Red Maple	Medium	5 - 10 feet	Sapling																																																											
Balsam Fir	Low	5 - 10 feet	Sapling																																																											
White Pine	Medium	Variable	Sapling																																																											
27	42110 - Planted Red Pine	Sawtimber Medium	8.0	89	81-110	N/A	2021 - Large diameter RP with a component of WP. Was planted 1934. Subcanopy of aspen and maple with some white pine following the most recent thinning. Stand is ready for final harvest.  R9 stand. Large diameter red pine with good component of aspen and white pine. Some jack pine. Trace of white birch. Aspen is mature, large diameter. Jack pine is mature. Stand was planted in the fall of 1934 (2-0 RP & JP) and in the spring of 1962 (3-0 RP).  (2015) Stand was treated with TSale #420201301 "Blood Donor Pine" TCR 12/30/15.																																																							
<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>20</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>80</td> <td>Log/Pole/XLog</td> <td>16</td> <td>89</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	20	Log/XLog	16		Red Pine	80	Log/Pole/XLog	16	89	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Black Spruce	Low	Variable	Sapling	White Pine	Medium	Variable	Sapling	Aspen (spp.)	Medium	5 - 10 feet	Sapling																								
Canopy Species	% Cover	Size Class	DBH	Age																																																										
White Pine	20	Log/XLog	16																																																											
Red Pine	80	Log/Pole/XLog	16	89																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Red Maple	Low	Variable	Sapling																																																											
Black Spruce	Low	Variable	Sapling																																																											
White Pine	Medium	Variable	Sapling																																																											
Aspen (spp.)	Medium	5 - 10 feet	Sapling																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>28</b>	42220 - Natural Jack Pine	Poletimber Well	13.7	36	51-80	N/A	Young jack pine. Harvested in 1983 as sale #40-83. FTP #42-177 - scarified in 1984. Mixed stand with white pine, aspen, red pine, maple and small spruce. Some of the jack pine is 7 inches and 2-3 sticks merchantable currently. Bracken fern and blueberry ground cover.																																														
<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>Red Maple</td> <td>5</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>60</td> <td>Pole/Sapling</td> <td>6</td> <td>36</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Sapling	4		Quaking Aspen	10	Sapling	4		White Pine	20	Pole/Sapling	5		Red Pine	5	Pole	8		Jack Pine	60	Pole/Sapling	6	36	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	Low	5 - 10 feet	Sapling	White Pine	Low	Variable	Sapling	Aspen (spp.)	Low	Variable	Sapling	Red Maple	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Red Maple	5	Sapling	4																																																		
Quaking Aspen	10	Sapling	4																																																		
White Pine	20	Pole/Sapling	5																																																		
Red Pine	5	Pole	8																																																		
Jack Pine	60	Pole/Sapling	6	36																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																		
White Spruce	Low	5 - 10 feet	Sapling																																																		
White Pine	Low	Variable	Sapling																																																		
Aspen (spp.)	Low	Variable	Sapling																																																		
Red Maple	Low	Variable	Sapling																																																		
<b>29</b>	4119 - Mixed Northern Hardwoods	Sapling Medium	3.6	6	Immature	N/A	2021 - Good regen of maple (stump sprouts), with aspen, white pine, cherry. Residual white pine. 2016: Sale Completed. 42-026-13-01, Mosquito Melee Hardwoods. TCR 10/06/2015.																																														
<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>Red Maple</td> <td>50</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	50	Sapling	1	6	White Pine	15	Sapling	1		Bigtooth Aspen	15	Sapling	1		Black Cherry	20	Sapling	1																												
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Red Maple	50	Sapling	1	6																																																	
White Pine	15	Sapling	1																																																		
Bigtooth Aspen	15	Sapling	1																																																		
Black Cherry	20	Sapling	1																																																		
<b>30</b>	42200 - Natural White Pine	Sawtimber Well	41.8	130	81-110	N/A	White pine with red pine and some spruce. Ridges around small lakes. White pine ranges from 8 inch dbh to 20 inch dbh. Component of large diameter aspen and pole size red maple. Cedar along stand edges.																																														
<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>Black Spruce</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>83</td> <td>Log/XLog/Pole</td> <td>16</td> <td>130</td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	2	Pole	8		White Pine	83	Log/XLog/Pole	16	130	Red Pine	10	Log/Pole	14		Bigtooth Aspen	5	Log/Pole	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Black Spruce	Medium	Variable	Sapling	White Pine	Medium	>20 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Black Spruce	2	Pole	8																																																		
White Pine	83	Log/XLog/Pole	16	130																																																	
Red Pine	10	Log/Pole	14																																																		
Bigtooth Aspen	5	Log/Pole	12																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Red Maple	Medium	Variable	Sapling																																																		
Balsam Fir	Low	Variable	Sapling																																																		
Black Spruce	Medium	Variable	Sapling																																																		
White Pine	Medium	>20 feet	Sapling																																																		
<b>31</b>	6122 - Black Spruce	Poletimber Well	31.7	100	81-110	N/A																																															
<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>Red Maple</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>75</td> <td>Pole</td> <td>8</td> <td>100</td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	8		Black Spruce	75	Pole	8	100	Northern White Cedar	10	Pole	8		White Pine	10	Log/Pole	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	Sapling	Balsam Fir	Medium	Variable	Sapling	Black Spruce	Medium	5 - 10 feet	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Red Maple	5	Pole	8																																																		
Black Spruce	75	Pole	8	100																																																	
Northern White Cedar	10	Pole	8																																																		
White Pine	10	Log/Pole	12																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Red Maple	Low	5 - 10 feet	Sapling																																																		
Balsam Fir	Medium	Variable	Sapling																																																		
Black Spruce	Medium	5 - 10 feet	Sapling																																																		
<b>32</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	6.3	38	1-50	N/A	Young mixed northern hardwoods stand. Cut in 1983 as sale #40-83. Red maple and cherry clumps. White pine, spruce, aspen and a trace of white birch. Good regeneration. Well stocked stand.																																														
<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>Red Maple</td> <td>63</td> <td>Pole/Sapling</td> <td>5</td> <td>38</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>XLog</td> <td>20</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>25</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Pin Cherry</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	63	Pole/Sapling	5	38	White Spruce	5	Sapling	3		White Pine	2	XLog	20		Black Cherry	25	Sapling	3		Pin Cherry	5	Sapling	2		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	< 5 feet	Sapling	Balsam Fir	Low	Variable	Sapling	White Pine	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Red Maple	63	Pole/Sapling	5	38																																																	
White Spruce	5	Sapling	3																																																		
White Pine	2	XLog	20																																																		
Black Cherry	25	Sapling	3																																																		
Pin Cherry	5	Sapling	2																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Red Maple	Medium	< 5 feet	Sapling																																																		
Balsam Fir	Low	Variable	Sapling																																																		
White Pine	Low	Variable	Sapling																																																		





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
33	320 - Upland Shrub	Nonstocked	63.1	0	Unspecified	4211 - Planted Red Pine	<p>07/26/2021 - Planted RP is doing well. Still roughly only height of bracken fern at best. Plots showed a few spot of 400-500 tr/ac, but mostly around 800 tr/ac. South 1/2 of stand has substantial component of young white pine and jack pine, 6-15 ft tall competing with the planted RP. Release spray was not effective (rain within couple hours of spraying?), less than 50% of mortality in aspen and maple competition. Even less along north edge where residual RP forced spraying from above canopy.</p> <p>Stand was aerial release sprayed September 2020: Sprayed Element 4 @ 0.75 qt./acre and Rodeo @ 1.5 qt./acre. Surfactant of TA-39 at a rate of 12.8 oz/acre. Future evaluation upon re-inventory for success of spraying will be necessary.</p> <p>Regen Check: 10/01/2019 - Planted RP 833 TPA w/ WP volunteers at low density. Passed. Site needs herbicide spray targeting maple and aspen. Estimated 60% not FTG; Aerial spray placed as active (10/1/19) per TMS request until determination if valid rather than skidder spray.</p> <p>06/12/18- RP TPA= 993, Fully stocked with white pine component.</p> <p>(2015) - Stand was treated with TSale #420201301 "Blood Donor Pine" TCR 12/30/15. 10-20BA of residual pine left in stand. Trenched in 2016. FTP 42-840. Hand planted to RP in trenches 5/10/2017.</p> <p>Stand was planted in fall of 1934 (JP &amp; RP) and then again in spring of 1962 (RP). Harvested in 2003 as sale #001-03-01. No scarification of the site - conversion to red pine. Removed all jack pine, aspen and maple. Not much red pine regeneration coming in after the harvest.</p>																												
								<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>High</td> <td>&lt; 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Seeding</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>Pole</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>&gt;20 feet</td> <td>Log</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	High	< 5 feet	Seeding	Jack Pine	Low	5 - 10 feet	Seeding	White Pine	Low	10 - 20 feet	Pole	Red Maple	Trace	5 - 10 feet	Sapling	Red Pine	Trace	>20 feet	Log	Quaking Aspen	Low	Variable
Sub-Canopy Species	Density	Avg. Height	Size																																
Red Pine	High	< 5 feet	Seeding																																
Jack Pine	Low	5 - 10 feet	Seeding																																
White Pine	Low	10 - 20 feet	Pole																																
Red Maple	Trace	5 - 10 feet	Sapling																																
Red Pine	Trace	>20 feet	Log																																
Quaking Aspen	Low	Variable	Sapling																																
34	42200 - Natural White Pine	Sawtimber Medium	53.2	96	51-80	N/A	<p>2021 - good component of oversized White Pine. Good regeneration of aspen, maple, with some white pine, balsam and spruce. Pockets of a thicker W9. Some very large diameter white pine throughout the stand. Aspen is moving into the pole size class.</p> <p>Stand was harvested in 1995 (sale #06-94). Old notes mention stand almost being a clearcut after harvest. White pine and red pine residual left as overstory. Good aspen and white pine regeneration from harvest....thick. Scattered pockets of maple regeneration. Good component of balsam saplings and small poles as well.</p>																												
								<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>80</td> <td>XLog/Log</td> <td>20</td> <td>96</td> </tr> <tr> <td>Red Pine</td> <td>20</td> <td>Log/XLog/Pole</td> <td>16</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>High</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> <tr> <td>Maple (spp.)</td> <td>Medium</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	White Pine	80	XLog/Log	20	96	Red Pine	20	Log/XLog/Pole	16		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Aspen (spp.)	High	>20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																															
White Pine	80	XLog/Log	20	96																															
Red Pine	20	Log/XLog/Pole	16																																
Sub-Canopy Species	Density	Avg. Height	Size																																
White Pine	Medium	Variable	Sapling																																
Aspen (spp.)	High	>20 feet	Sapling																																
Maple (spp.)	Medium	>20 feet	Sapling																																
Balsam Fir	Medium	Variable	Sapling																																
35	500 - Water	Nonstocked	30.1		Unspecified	No	Small chain of un-named lakes. Almost completely full of water in 2021.																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>36</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	3.3	120	81-110	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Black Spruce	20	Pole	6				
Northern White Cedar	40	Pole	6	120			
Tamarack	30	Pole	8				
White Pine	10	Pole/Log	9				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	5 - 10 feet	Sapling				
Black Spruce	Medium	Variable	Sapling				
Northern White Cedar	Medium	Variable	Sapling				
Tamarack	Medium	10 - 20 feet	Sapling				
White Pine	Medium	Variable	Sapling				
<b>37</b>	42210 - Natural Red Pine	Sawtimber Well	31.6	114	111-140	N/A	Natural Red Pine stand, comprised of ridges around small chain of unnamed lakes. Very scenic stand along Co Rd. Some mortality along the edges of the lakes due to high water levels the last few years.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	3	Pole	8				
Paper Birch	2	Pole	8				
White Pine	15	Log/Pole/XLog	17				
Red Pine	80	Log/XLog/Pole	16	114			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Medium	Variable	Sapling				
Quaking Aspen	Low	10 - 20 feet	Sapling				
Balsam Fir	Low	Variable	Sapling				
Black Spruce	Low	Variable	Sapling				
White Pine	Low	Variable	Sapling				
<b>38</b>	42290 - Natural Mixed Pine	Sawtimber Well	36.7	89	111-140	N/A	Mixed pine stand. Mostly white pine. Components of red pine, jack pine, aspen and white birch. Lots of diversity within the stand. Northern portion along stands 33 and 41 has a higher component of red pine (planted in fall 1934 and replanted in spring of 1962 (3-0 RP, 2-0 JP)). Southern reaches of the stand are more large white pine. Aspen is mature and large diameter, jack pine starting to decline.
Canopy Species	% Cover	Size Class	DBH	Age			
Paper Birch	5	Pole	8				
Bigtooth Aspen	10	Log/Pole	11				
White Pine	45	Log/Pole	14	89			
Red Pine	30	Log/Pole	13				
Jack Pine	10	Log/Pole	10				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	10 - 20 feet	Sapling				
Balsam Fir	Low	5 - 10 feet	Sapling				
White Pine	Medium	Variable	Sapling				
Aspen (spp.)	Low	Variable	Sapling				
<b>39</b>	42200 - Natural White Pine	Sawtimber Poor	15.3	94	1-50	N/A	2021 - Nice aspen regeneration throughout. Component of maple, white pine and balsam regeneration as well. Residual large diameter white pine and red pine make up the overstory currently. A trace of residual small diameter red maple poles. Stand will transition to an aspen stand in the future, next entry year. (2015) - Stand was treated with Tsale#420201301 "Blood Donor Pine". TCR 12/30/15.
Canopy Species	% Cover	Size Class	DBH	Age			
White Pine	90	XLog/Log	18	94			
Red Pine	10	Log/XLog	16				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Medium	5 - 10 feet	Sapling				
Balsam Fir	Low	Variable	Sapling				
White Pine	Low	Variable	Sapling				
Bigtooth Aspen	High	10 - 20 feet	Sapling				
<b>40</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	37.1	120	81-110	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	10	Pole	6				
Paper Birch	5	Pole	7				
Black Spruce	25	Pole/Log	9				
Northern White Cedar	25	Pole/Log	9	120			
Tamarack	25	Pole	7				
White Pine	10	Log/XLog	12				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Medium	5 - 10 feet	Sapling				
Balsam Fir	Low	Variable	Sapling				
Black Spruce	Medium	Variable	Sapling				
Northern White Cedar	Medium	Variable	Sapling				
Tag Alder	Medium	10 - 20 feet	Tall Shrub				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
<b>41</b>	42120 - Planted Jack Pine	Sapling Well	17.9	21	Unspecified	N/A	Young jack pine stand. Planted with 2-0 jack pine in 2000. (FTP #42-359). Stand is a combination of natural jack pine and planted jack pine. Residual red pine mostly along the east side of the stand. 2021 - stand has a small component of JP getting into small pole size.																																							
<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>Red Pine</td> <td>10</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>85</td> <td>Sapling/Pole</td> <td>3</td> <td>21</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	10	Log	11		Jack Pine	85	Sapling/Pole	3	21	White Pine	5	Log/XLog	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	5 - 10 feet	Sapling	Red Pine	Low	5 - 10 feet	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																										
Red Pine	10	Log	11																																											
Jack Pine	85	Sapling/Pole	3	21																																										
White Pine	5	Log/XLog	15																																											
Sub-Canopy Species	Density	Avg. Height	Size																																											
White Pine	Low	5 - 10 feet	Sapling																																											
Red Pine	Low	5 - 10 feet	Sapling																																											
<b>42</b>	4133 - Aspen, Mixed Pine	Sapling Well	10.6	6	Immature	N/A	2021 - Good aspen and maple regen. Component of white birch regen as well. Residual white pine, red pine and cedar, along with some white birch. Series of ridges, one deep drainage in stand.  (2015) - Stand was treated with TSale# 420201301 "Blood Donor Pine". TCR 12/30/15. There was a residual over story of RP, WP, WS & Hemlock.left after harvest.																																							
<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>Quaking Aspen</td> <td>45</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Log/Pole/XLog</td> <td>12</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>2</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Sapling/Pole</td> <td>1</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>3</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	45	Sapling	1	6	Red Maple	15	Sapling	1		White Pine	15	Log/Pole/XLog	12		Red Pine	5	Log/Pole	12		Northern White Cedar	2	Pole/Log	9		Paper Birch	10	Sapling/Pole	1		Balsam Fir	5	Sapling	2		Hemlock	3	Log/Pole	10
Canopy Species	% Cover	Size Class	DBH	Age																																										
Quaking Aspen	45	Sapling	1	6																																										
Red Maple	15	Sapling	1																																											
White Pine	15	Log/Pole/XLog	12																																											
Red Pine	5	Log/Pole	12																																											
Northern White Cedar	2	Pole/Log	9																																											
Paper Birch	10	Sapling/Pole	1																																											
Balsam Fir	5	Sapling	2																																											
Hemlock	3	Log/Pole	10																																											
<b>43</b>	42110 - Planted Red Pine	Sawtimber Well	17.1	89	111-140	N/A	2021 - Red Pine ranges from 60-89 years old. Planted pine. Thinning that was completed in 2015 did not produce any red pine regeneration. Aspen, maple and white pine regen resulting from the harvest. BA ranges from 80 - 140. Due to the Two Hearted River Natural River Plan, the original stand (plantation) is now separated into to different stands with different management objectives. Stand 70 (originally south 1/2 of this stand) will not be managed as red pine.  (2015) - Stand was treated with TSale# 420201301 "Blood Donor Pine". TCR 12/30/15.  Red Pine plantation. Planted in fall of 1934 (2-0 RP & JP) and then again in spring of 1962 (3-0 RP). Jack pine is 79 years old and showing decline and mortality. Jack pine is in pockets. Clones of mature aspen throughout. Two ages of red pine. Natural white pine throughout the stand, large diameters.																																							
<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>8</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>90</td> <td>Log/Pole</td> <td>14</td> <td>89</td> </tr> <tr> <td>Red Oak</td> <td>2</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	8	Log/Pole	14		Red Pine	90	Log/Pole	14	89	Red Oak	2	Log/Pole	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	5 - 10 feet	Sapling	White Pine	Low	Variable	Sapling	Aspen (spp.)	Medium	Variable	Sapling						
Canopy Species	% Cover	Size Class	DBH	Age																																										
White Pine	8	Log/Pole	14																																											
Red Pine	90	Log/Pole	14	89																																										
Red Oak	2	Log/Pole	12																																											
Sub-Canopy Species	Density	Avg. Height	Size																																											
Red Maple	Medium	5 - 10 feet	Sapling																																											
White Pine	Low	Variable	Sapling																																											
Aspen (spp.)	Medium	Variable	Sapling																																											
<b>44</b>	42290 - Natural Mixed Pine	Sawtimber Well	21.7	107	111-140	N/A	Natural red pine stand bordering the Two Hearted River. Ridge of red pine and white pine.																																							
<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>Paper Birch</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>XLog/Log</td> <td>18</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>55</td> <td>Log/XLog</td> <td>16</td> <td>107</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Paper Birch	5	Pole	9		Bigtooth Aspen	10	Pole/Log	9		White Pine	30	XLog/Log	18		Red Pine	55	Log/XLog	16	107	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	Variable	Sapling	White Pine	Low	5 - 10 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																										
Paper Birch	5	Pole	9																																											
Bigtooth Aspen	10	Pole/Log	9																																											
White Pine	30	XLog/Log	18																																											
Red Pine	55	Log/XLog	16	107																																										
Sub-Canopy Species	Density	Avg. Height	Size																																											
Balsam Fir	High	Variable	Sapling																																											
White Pine	Low	5 - 10 feet	Sapling																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>45</b>	42290 - Natural Mixed Pine	Sawtimber Well	41.8	106	111-140	N/A	Large diameter white pine and red pine, with large aspen. Some white birch, maple and balsam. Black spruce in the lower areas within the stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		2	Pole	8		Red Maple		
Paper Birch		5	Pole	7		Balsam Fir		
Bigtooth Aspen		10	Log/Pole	11		White Pine		
White Pine		40	Log/XLog/Pole	16	106	Black Spruce		
Red Pine		28	Log/XLog	16				
Black Spruce		15	Pole/Log	9				
<b>46</b>	4311 - Pine, Aspen Mix	Poletimber Poor	26.8	27	1-50	N/A	Stand was harvested in 1994 (sale #04-93). Residual overstory BA averages 40 sq ft. Good aspen and white pine regeneration following harvest. Stand is transitioning to an aspen stand with a component of large red pine and white pine.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		10	Log/XLog	16		Red Maple		
Red Pine		40	Log/XLog	16	103	Balsam Fir		
Bigtooth Aspen		50	Sapling/Pole	3	27	White Pine		
						Jack Pine		
<b>48</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Medium	11.7	17	1-50	N/A	Stand was planted in fall of 1934 (2-0 RP and JP) and in the spring of 1962 (RP). Harvested in 2003 as sale #001-03-01. Scarified 6/2004. Regeneration check done 6/4/2008. 1902 tr/ac - mostly aspen. Residual BA from sale is 30-40 sq ft.  2021 - Large red pine and white pine over good aspen, jack pine, and maple regen. Stand was planted. However due to the Natural River Plan and the fact that there is no red pine regeneration from previous harvest, this stand will be managed as a future natural mixed upland stand with pine. Red pine planted acres will be moved to another location. Stand will transition as the aspen, jack pine and maple regen moves into pole size.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		10	Log/Pole/XLog	16		Red Maple		
Red Pine		30	Log/Pole/XLog	15	89	White Pine		
Bigtooth Aspen		40	Sapling/Pole	3	17	Jack Pine		
Jack Pine		20	Sapling/Pole	3		Aspen (spp.)		
<b>49</b>	42110 - Planted Red Pine	Sawtimber Well	4.0	89	111-140	N/A	2021 - Red pine plantation that now falls within the Two Hearted River Natural River Plan zone. Decided that this portion of the original plantation will be managed as an upland mixed/aspen with pine stand type.  Stand was planted in the fall of 1934 (2-0 RP & JP) and in the spring of 1962 (3-0 RP). Harvested in 2003 as sale #001-03-01. Removed all jack pine and aspen, marked red pine, left white birch. Red pine regeneration is sparse. Mainly aspen with pockets of white pine regeneration.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		2	Pole	9		Red Maple		
White Pine		13	Log/Pole	14		Balsam Fir		
Red Pine		80	Log/Pole/XLog	15	89	White Pine		
Bigtooth Aspen		5	Log/Pole	12		Aspen (spp.)		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
<b>50</b>	4311 - Pine, Aspen Mix	Sawtimber Well	43.5	81	141-170	N/A	Aspen ridges and slopes bordering on teh Two Hearted River. Aspen with white pine, red pine, and white birch. Balsam understory. Large diameter pine and aspen. Aspen is mature, starting to decline																																																
<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>Red Maple</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Log/Pole</td> <td>13</td> <td>81</td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Log/XLog/Pole</td> <td>16</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>24</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	2	Pole	8		Paper Birch	2	Pole/Log	9		Bigtooth Aspen	40	Log/Pole	13	81	Black Spruce	2	Pole	7		White Pine	30	Log/XLog/Pole	16		Red Pine	24	Log/XLog	16		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Balsam Fir	High	Variable	Sapling	Black Spruce	Low	10 - 20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Maple	2	Pole	8																																																				
Paper Birch	2	Pole/Log	9																																																				
Bigtooth Aspen	40	Log/Pole	13	81																																																			
Black Spruce	2	Pole	7																																																				
White Pine	30	Log/XLog/Pole	16																																																				
Red Pine	24	Log/XLog	16																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Red Maple	Medium	Variable	Sapling																																																				
Balsam Fir	High	Variable	Sapling																																																				
Black Spruce	Low	10 - 20 feet	Sapling																																																				
<b>51</b>	6225 - Bog	Nonstocked	1.6		Unspecified	No																																																	
<b>52</b>	4133 - Aspen, Mixed Pine	Sapling Well	16.4	27	1-50	N/A	Stand was cut as sale #04-93 (Unit 1). Red pine and white pine residual left after the harvest. Good aspen and jack pine regeneration, with component of red maple (stump sprout). Management objective for stand is aspen.																																																
<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>Quaking Aspen</td> <td>70</td> <td>Sapling/Pole</td> <td>4</td> <td>27</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>7</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>8</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	70	Sapling/Pole	4	27	White Pine	5	Log/XLog	15		Red Pine	7	Log/Pole/XLog	14		Jack Pine	10	Sapling/Pole	4		Red Maple	8	Sapling/Pole	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	White Pine	Low	Variable	Sapling	Red Pine	Low	< 5 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Quaking Aspen	70	Sapling/Pole	4	27																																																			
White Pine	5	Log/XLog	15																																																				
Red Pine	7	Log/Pole/XLog	14																																																				
Jack Pine	10	Sapling/Pole	4																																																				
Red Maple	8	Sapling/Pole	3																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Balsam Fir	Low	Variable	Sapling																																																				
White Pine	Low	Variable	Sapling																																																				
Red Pine	Low	< 5 feet	Sapling																																																				
<b>53</b>	42200 - Natural White Pine	Sawtimber Well	31.2	103	111-140	N/A	Large diameter white pine stand. Thick BA in spots. Areas where the stand is more open. Aspen in the stand is mature and dying out. Dead tops in some of the white pine. Red pine component. Low areas throughout the stand. Stand would be tough to manage due to low ground, lakes, etc																																																
<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>Red Maple</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>White Pine</td> <td>80</td> <td>Log/XLog/Pole</td> <td>16</td> <td>103</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Pole	8		Quaking Aspen	10	Log/Pole	12		Red Pine	5	Log	14		White Pine	80	Log/XLog/Pole	16	103																												
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Maple	5	Pole	8																																																				
Quaking Aspen	10	Log/Pole	12																																																				
Red Pine	5	Log	14																																																				
White Pine	80	Log/XLog/Pole	16	103																																																			
<b>54</b>	6225 - Bog	Nonstocked	13.9		Unspecified	No																																																	
<b>55</b>	4113 - R.Maple, Conifer	Sawtimber Poor	3.6	94	51-80	N/A	Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Aspen is dying out. Hemlock pockets. Better timber and large diameters in the western half of the stand. Dieback in some of the maple, bark beetle in some of red pine, aspen is declining and showing mortality. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. This portion of original stand 9 was left as a buffer along the small creek. Retain for retention purposes.																																																
<b>56</b>	622 - Lowland Shrub	Nonstocked	3.9		Unspecified	No	Acquired in 2018 as part of TNC trade. Lowland brush along lakes																																																
<b>57</b>	6225 - Bog	Nonstocked	5.5		Unspecified	No	Acquired in 2018 as part of TNC trade.																																																





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
<b>58</b>	42200 - Natural White Pine	Sawtimber Well	31.2	111	111-140	N/A	Acquired in 2018 as part of TNC trade. Nice white pine ridge that was managed by TNC. Good aspen, maple, white pine, white birch, balsam regeneration, along with some red pine, oak and spruce.																																																									
<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>80</td> <td>Log/Pole/XLog</td> <td>12</td> <td>111</td> </tr> <tr> <td>Red Pine</td> <td>13</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>2</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	80	Log/Pole/XLog	12	111	Red Pine	13	Log/Pole/XLog	14		Red Oak	2	Log/Pole	12		Paper Birch	5	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Bigtooth Aspen	High	10 - 20 feet	Sapling	White Pine	Medium	Variable	Sapling	Red Maple	Medium	Variable	Sapling	Red Pine	Low	5 - 10 feet	Sapling	Black Spruce	Low	5 - 10 feet	Sapling	Red Oak	Low	5 - 10 feet	Sapling	Paper Birch	Low	5 - 10 feet	Sapling	Balsam Fir	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																												
White Pine	80	Log/Pole/XLog	12	111																																																												
Red Pine	13	Log/Pole/XLog	14																																																													
Red Oak	2	Log/Pole	12																																																													
Paper Birch	5	Log/Pole	10																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Bigtooth Aspen	High	10 - 20 feet	Sapling																																																													
White Pine	Medium	Variable	Sapling																																																													
Red Maple	Medium	Variable	Sapling																																																													
Red Pine	Low	5 - 10 feet	Sapling																																																													
Black Spruce	Low	5 - 10 feet	Sapling																																																													
Red Oak	Low	5 - 10 feet	Sapling																																																													
Paper Birch	Low	5 - 10 feet	Sapling																																																													
Balsam Fir	Low	Variable	Sapling																																																													
<b>59</b>	622 - Lowland Shrub	Nonstocked	1.2		Unspecified	No	Acquired in 2018 as part of TNC trade. lowland surrounding the small lakes																																																									
<b>60</b>	42210 - Natural Red Pine	Sawtimber Well	13.0	96	111-140	N/A	2021 - Mixed stand of large diameter red pine and white pine. Higher BA of red pine than white pine throughout most of the stand. Fairly open understory throughout. Manage this stand as more of a natural red pine stand with white pine component.																																																									
<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>40</td> <td>XLog/Log/Pole</td> <td>18</td> <td>96</td> </tr> <tr> <td>Red Pine</td> <td>60</td> <td>Log/XLog/Pole</td> <td>16</td> <td>96</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	40	XLog/Log/Pole	18	96	Red Pine	60	Log/XLog/Pole	16	96	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Maple (spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Maple (spp.)	Low	5 - 10 feet	Sapling	Balsam Fir	Low	Variable	Sapling																														
Canopy Species	% Cover	Size Class	DBH	Age																																																												
White Pine	40	XLog/Log/Pole	18	96																																																												
Red Pine	60	Log/XLog/Pole	16	96																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
White Pine	Low	Variable	Sapling																																																													
Maple (spp.)	Low	5 - 10 feet	Sapling																																																													
Balsam Fir	Low	Variable	Sapling																																																													
<b>61</b>	4113 - R.Maple, Conifer	Sawtimber Well	46.1	94	81-110	N/A	2021 - Low quality red maple with large diameter white pine and aspen. Very low quality in areas. Poor form to much of the maple. Variable BA throughout. Aspen is dying out. Hemlock pockets. Better timber and large diameters in the western half of the stand. Dieback in some of the maple, bark beetle in some of scattered red pine, aspen is declining and showing mortality.  2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. This is the portion of original Stand 9 that was not part of the harvest. Falls within the Two Hearted River Natural River Plan.																																																									
<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>Red Maple</td> <td>60</td> <td>Log/Pole</td> <td>10</td> <td>94</td> </tr> <tr> <td>White Pine</td> <td>25</td> <td>Log/Pole/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>5</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	60	Log/Pole	10	94	White Pine	25	Log/Pole/XLog	16		Yellow Birch	5	Log/Pole	10		Bigtooth Aspen	5	Log/Pole	12		Hemlock	5	Log/Pole	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Beech	High	Variable	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Red Maple	60	Log/Pole	10	94																																																												
White Pine	25	Log/Pole/XLog	16																																																													
Yellow Birch	5	Log/Pole	10																																																													
Bigtooth Aspen	5	Log/Pole	12																																																													
Hemlock	5	Log/Pole	11																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Red Maple	Medium	Variable	Sapling																																																													
Balsam Fir	Medium	Variable	Sapling																																																													
Beech	High	Variable	Sapling																																																													
<b>62</b>	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	9.0	65	Unspecified	N/A	Acquired in 2018 as part of TNC trade.																																																									
<b>63</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	28.2	102	Unspecified	N/A	Acquired in 2018 as part of TNC trade.																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>64</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.8	95	81-110	N/A	2021 - Center of the stand (within the "loop" of the road) has more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. 2/24/2016: cut as part of 420251301, Beaver Lake Hardwoods in 2015.																																																						
<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>Red Maple</td> <td>78</td> <td>Log/Pole</td> <td>10</td> <td>95</td> </tr> <tr> <td>Beech</td> <td>2</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Log/XLog/Pole</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	78	Log/Pole	10	95	Beech	2	Pole	9		Balsam Fir	5	Pole	8		White Pine	15	Log/XLog/Pole	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>High</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Medium</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>Medium</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	High	>20 feet	Sapling	Beech	Low	Variable	Sapling	Paper Birch	Medium	>20 feet	Sapling	Balsam Fir	High	Variable	Sapling	White Pine	Low	10 - 20 feet	Sapling	Aspen (spp.)	Medium	>20 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	78	Log/Pole	10	95																																																									
Beech	2	Pole	9																																																										
Balsam Fir	5	Pole	8																																																										
White Pine	15	Log/XLog/Pole	15																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	High	>20 feet	Sapling																																																										
Beech	Low	Variable	Sapling																																																										
Paper Birch	Medium	>20 feet	Sapling																																																										
Balsam Fir	High	Variable	Sapling																																																										
White Pine	Low	10 - 20 feet	Sapling																																																										
Aspen (spp.)	Medium	>20 feet	Sapling																																																										
<b>65</b>	6122 - Black Spruce	Sapling Medium	10.4	50	Unspecified	N/A																																																							
<b>67</b>	42110 - Planted Red Pine	Sawtimber Medium	3.9	89	51-80	N/A	2021 - Northern portion of original stand 48 (2011), that lies outside of the zone for the Two Hearted River Natural River Plan. The entire stand was planted to red pine in 1934 and replanted in 1962. This stand, outside of the Natural River Plan, will be continue to be managed as a red pine plantation.  Stand was planted in fall of 1934 (2-0 RP and JP) and in the spring of 1962 (RP). Harvested in 2003 as sale #001-03-01. Scarified 6/2004. Regeneration check done 6/4/2008. 1902 tr/ac - mostly aspen. Residual BA from sale is 30-40 sq ft.																																																						
<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>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>75</td> <td>Log/Pole</td> <td>14</td> <td>89</td> </tr> <tr> <td>Jack Pine</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td>17</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	10	Log/Pole	12		Red Pine	75	Log/Pole	14	89	Jack Pine	15	Sapling/Pole	4	17	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Medium</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	10 - 20 feet	Sapling	White Pine	Medium	5 - 10 feet	Sapling	Jack Pine	Medium	< 5 feet	Sapling	Aspen (spp.)	High	10 - 20 feet	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																																									
White Pine	10	Log/Pole	12																																																										
Red Pine	75	Log/Pole	14	89																																																									
Jack Pine	15	Sapling/Pole	4	17																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	Low	10 - 20 feet	Sapling																																																										
White Pine	Medium	5 - 10 feet	Sapling																																																										
Jack Pine	Medium	< 5 feet	Sapling																																																										
Aspen (spp.)	High	10 - 20 feet	Sapling																																																										
<b>68</b>	42290 - Natural Mixed Pine	Sawtimber Well	48.3	92	81-110	N/A	Large diameter red pine with components of white pine and jack pine. Higher red pine and jack pine component than stand 11 adjacent to the south (was originally one larger stand). four (4) vernal areas within the stand. Stand has had previous harvests done. Regen of aspen, maple and white pine. Scattered pole size white birch and spruce. Jack pine is showing signs of mortality. Some larger diameter (10-12 inch) aspen.																																																						
<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>30</td> <td>Log/Pole/XLog</td> <td>14</td> <td>92</td> </tr> <tr> <td>Red Pine</td> <td>43</td> <td>Log/Pole/XLog</td> <td>15</td> <td>92</td> </tr> <tr> <td>Jack Pine</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	30	Log/Pole/XLog	14	92	Red Pine	43	Log/Pole/XLog	15	92	Jack Pine	15	Pole/Log	9		Bigtooth Aspen	10	Pole/Sapling	5		Red Maple	2	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	Sapling	Paper Birch	Low	>20 feet	Sapling	Balsam Fir	Medium	Variable	Sapling	Black Spruce	Low	Variable	Sapling	Aspen (spp.)	Medium	10 - 20 feet	Sapling	White Pine	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																									
White Pine	30	Log/Pole/XLog	14	92																																																									
Red Pine	43	Log/Pole/XLog	15	92																																																									
Jack Pine	15	Pole/Log	9																																																										
Bigtooth Aspen	10	Pole/Sapling	5																																																										
Red Maple	2	Pole	8																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	Medium	10 - 20 feet	Sapling																																																										
Paper Birch	Low	>20 feet	Sapling																																																										
Balsam Fir	Medium	Variable	Sapling																																																										
Black Spruce	Low	Variable	Sapling																																																										
Aspen (spp.)	Medium	10 - 20 feet	Sapling																																																										
White Pine	Low	Variable	Sapling																																																										
<b>70</b>	42110 - Planted Red Pine	Sawtimber Medium	11.5	89	81-110	N/A	2021 - A new stand created from the south half of stand 43. This portion of the plantation falls within the Two Hearted River Natural River Plan zone, and will no longer be managed as a red pine plantation. Regeneration from the thinning completed in 2015 is aspen with maple and white pine. Management Objective for this stand will now be an upland mixed type/aspen with pine.  (2015) - Stand was treated with TSale# 420201301 "Blood Donor Pine". TCR 12/30/15.  Red Pine plantation. Planted in fall of 1934 (2-0 RP & JP) and then again in spring of 1962 (3-0 RP). Jack pine is 79 years old and showing decline and mortality. Jack pine is in pockets. Clones of mature aspen throughout. Two ages of red pine. Natural white pine throughout the stand, large diameters.																																																						
<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>10</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>90</td> <td>Log/Pole</td> <td>12</td> <td>89</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	10	Log/Pole	14		Red Pine	90	Log/Pole	12	89	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	5 - 10 feet	Sapling	White Pine	Low	Variable	Sapling	Aspen (spp.)	Medium	Variable	Sapling																											
Canopy Species	% Cover	Size Class	DBH	Age																																																									
White Pine	10	Log/Pole	14																																																										
Red Pine	90	Log/Pole	12	89																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	Medium	5 - 10 feet	Sapling																																																										
White Pine	Low	Variable	Sapling																																																										
Aspen (spp.)	Medium	Variable	Sapling																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
71	42110 - Planted Red Pine	Sawtimber Well	4.6	89	111-140	N/A	2021 - This stand is the northern portion of stand 49 that falls outside of the Two Hearted River Natural River Plan zone. The entire stand (st 49) was originally planted to red pine. This stand will continue to be managed as a red pine plantation. The stand is currently large diameter red pine with a white pine component. Scattered aspen and white birch in canopy. Stand was planted in the fall of 1934 (2-0 RP & JP) and in the spring of 1962 (3-0 RP). Harvested in 2003 as sale #001-03-01. Removed all jack pine and aspen, marked red pine, left white birch. Red pine regeneration is sparse. Mainly aspen with pockets of white pine regeneration.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		2	Pole	9		Red Maple		Low	10 - 20 feet	Sapling	
White Pine		13	Log/Pole	14		Balsam Fir		Low	Variable	Sapling	
Red Pine		80	Log/Pole/XLog	15	89	White Pine		Low	Variable	Sapling	
Bigtooth Aspen		5	Log/Pole	12		Aspen (spp.)		Medium	Variable	Sapling	