



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41124

Entry Year 2022

Acreage: 2,410

County Schoolcraft

Management Area: Fox River Complex

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**Revision Date:** 2020-07-13

**Stand Examiner:** Steve Touvila

**Legal Description:**

T46N R14W sections 1-4 and 10-13.

**Identified Planning Goals:**

To provide sustainable forest eco-system management. This compartment is within the Fox River Complex Management Area.

**Soil and topography:**

Rubicon Sand with Carbondale-Lupton-Tawas Mucks and Dawson, Greenwood and Loxley Peats. The majority of stand is on level terrain.

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

There are blocks of private land in the northwest part of the compartment, and an area of private land adjacent to the southeast portion of the compartment.

**Unique Natural Features:**

Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along Fox River. See the Species Abstract on the web access for more detailed information on wood turtles. The prescribed treatments in this compartment are unlikely to adversely impact this species if best management practices are followed along these riparian corridors. There is also potential for nesting Northern goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of red pine. For more specific information on this species' habitat and ecology and for management recommendations please refer to the Species Abstract on the web.

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

**Special Management Designations or Considerations:**

HCVA – Natural River, Fox River.

**Watershed and Fisheries Considerations:**

Fisheries Values

Excellent. The Fox River is classified First Quality CW. And the small tributaries to the north and east are classified as SQCW. The Fox River system attracts anglers from other states, Europe and even Australia! (Blame the number of anglers on Ernest Hemmingway...) Our stream enhancement work ten years ago is now starting to pay off, with somewhat less sand throughout the system, more exposed gravel, and deeper scour holes now present in the river. We have recently cut back our stocking, to allow for and to verify increased natural trout production.

**Wildlife Habitat Considerations:**

Compartment 124 lies within north east Schoolcraft county in the Seney Sand Lake Plain ecological subsection and is a part of the Fox River Complex Management area with black bear, northern goshawk snowshoe hare spruce grouse and white-tailed deer as featured species. The growing season ranges from 100 to 130 days with an average annual snowfall of approximately 120 inches. The extreme minimum winter temperature is approximately -40 degrees F.

Pre-settlement vegetation in the upland forests were dominated by white pine, beech, white birch and red pine. Black spruce, tamarack, and cedar persisted in the lowlands. The primary natural disturbance within this area was most likely fire, however beaver ponding likely occurred along the Fox River. Logging and resulting intense slash fires impacted the vegetation and soils. Currently red pine is the dominant upland forest type. Mixed conifers, including black spruce, tamarack, and red pine, occupy a fair portion of the lowlands. Some white pine stands still exist along the Fox River. Wildlife habitat management objectives are to maintain structural and species diversity within the forest across the compartment. Other wildlife priorities include maintaining connectivity between forest types. Other wildlife species of interest include the saw-whet owl, and northern flying squirrel.

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

Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and glacial outwash sand and gravel and postglacial alluvium (from south to north). There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Limestone subcrops below the glacial drift. The Trenton is used for stone/dolomite. There are not any gravel pits in the area. There appears to be limited gravel potential on State lands.

### **Vehicle Access:**

There is vehicle access throughout most of the compartment with the exception being the center of the compartment and the southeastern portion of the compartment.

### **Survey Needs:**

None.

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

Although there are no developed DNR recreational facilities within the compartment, the area is used for hunting, blueberry picking, and has some ATV use.

### **Fire Protection:**

Pine species and dominate the landscape with some cedar and lowland areas. Level terrain and numerous roads make the area moderately accessible.

### **Additional Compartment Information:**

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

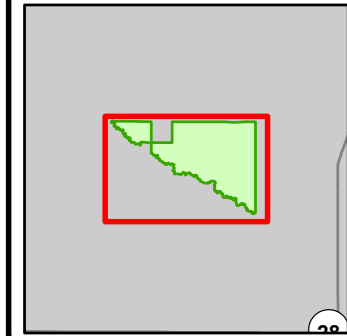
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

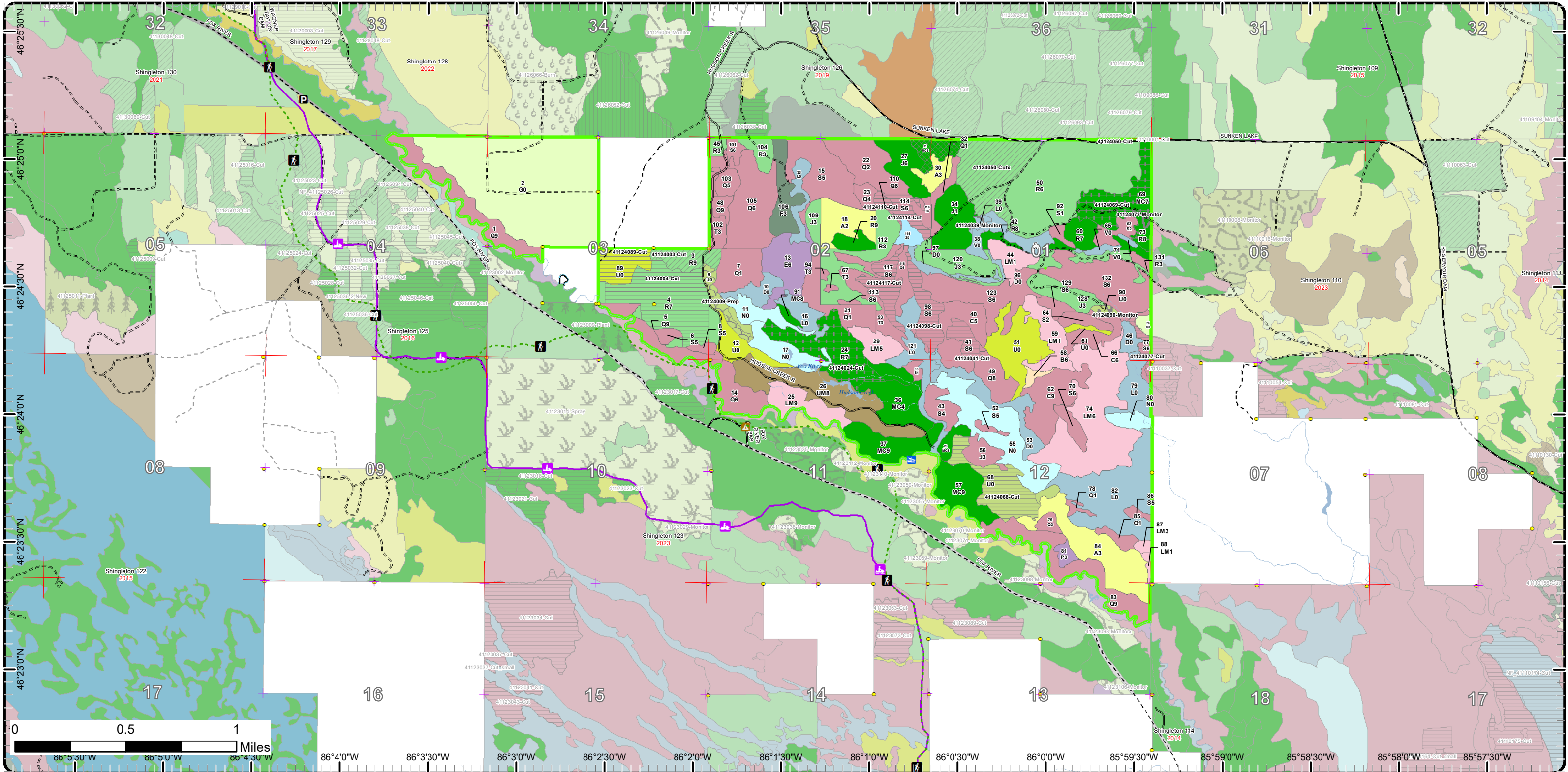
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 124  
 T46N, R14W, Sec. 1-4, 11-13  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Fox River Complex  
 YOE: 2022  
 Acres: 2,410 GIS Calculated  
 Examiner: Steve Touvila  
 Map Revised: 8/25/2020  
 Map Phase: Web Post

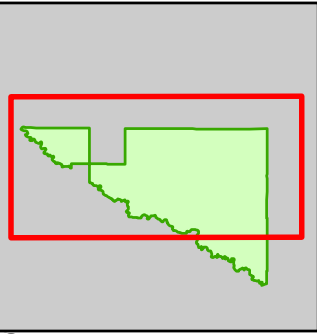


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Snowmobile Trails
- Boating Access Site
- Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Unspecified
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Site Prep
- 413 - Aspen
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

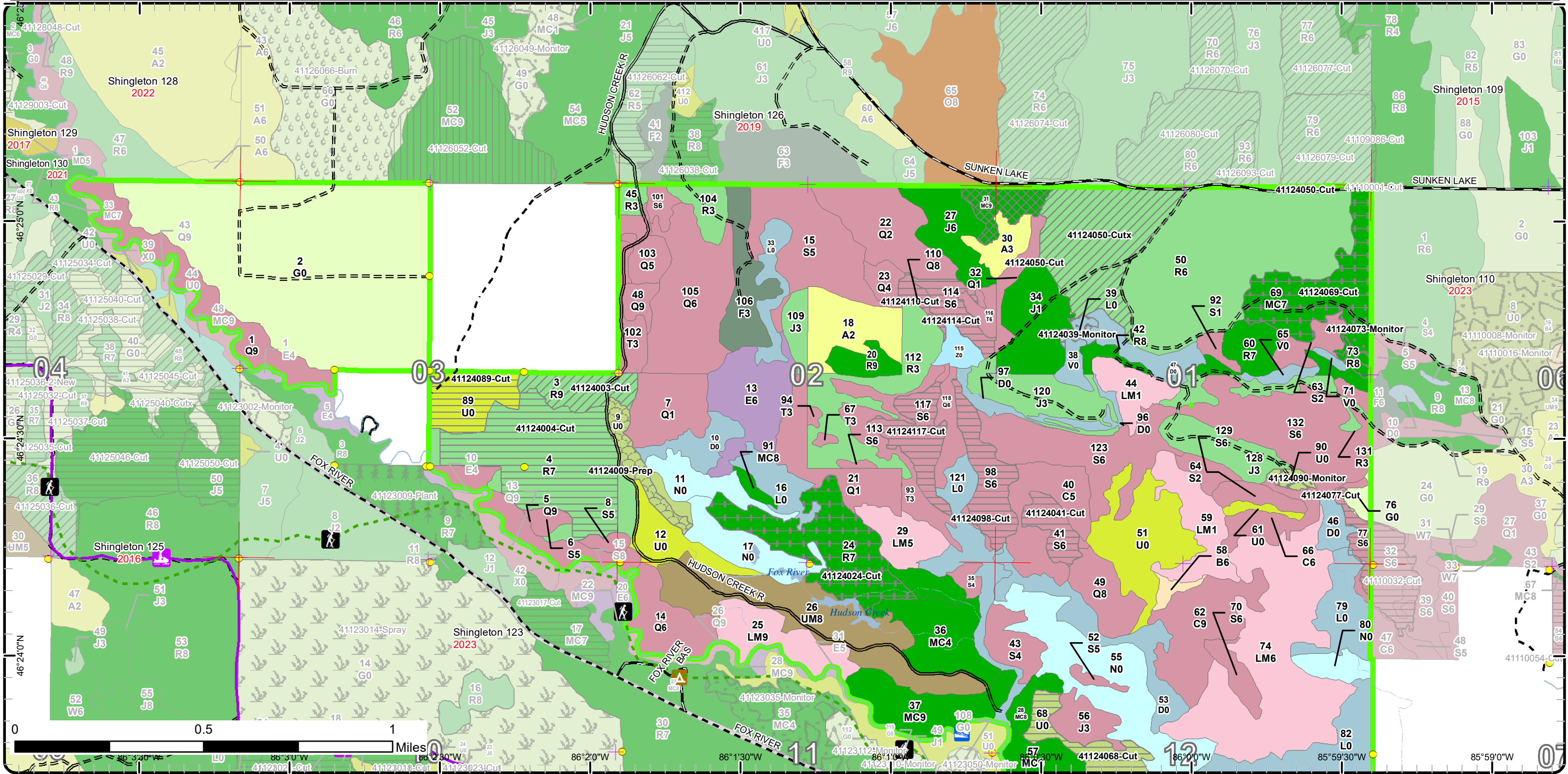


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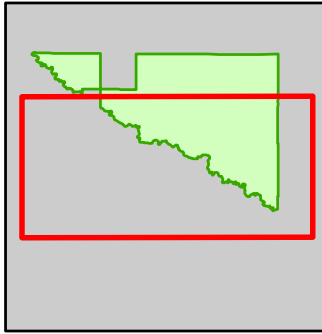


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|--|-------------------------------------|-----------------------------------|
| — Miris Corners                          | ▲ Campground                        | ■ 421 - Planted Pines             |
| ⊕ Remonumented Section Corners           | — Intermittent Stream               | ■ 422 - Natural Pines             |
| ● Survey Grade Corners                   | — Lake/Pond                         | ■ 423 - Other Upland Conifers     |
| ⊠ Counties                               | — Perennial River                   | ■ 430 - Upland Mixed Forest       |
| — DNR - Primary Forest Road              | — Unspecified                       | ■ 611 - Lowland Deciduous Forest  |
| — DNR - Secondary Forest Road            | ■ Lakes and Rivers                  | ■ 612 - Lowland Coniferous Forest |
| == DNR - Forest Access Route             | ■ Compartment Boundary              | ■ 613 - Lowland Mixed Forest      |
| - - Federal / State - Dirt / Gravel Road | ▨ Selection (Group, Single Tree)    | ■ 310 - Herbaceous Openland       |
| 🚶 Hiking Trails                          | ▨ Clearcut (w/Reserves)             | ■ 320 - Upland Shrub              |
| 🚙 Snowmobile Trails                      | ▨ Harvest, Overstory Removal        | ■ 330 - Low Density Trees         |
| — Designated Hiking Trails               | ▨ Thinning (Crown, Low, Systematic) | ■ 500 - Water                     |
| — Designated Snowmobile Trails           | ▨ Regeneration Survey               | ■ 622 - Lowland Shrub             |
| 🚤 Boating Access Site                    | ▨ Site Prep                         | ■ 623 - Emergent Wetland          |
|  | ■ 413 - Aspen                       |                                   |
|  | ■ 414 - Other Upland Deciduous      |                                   |

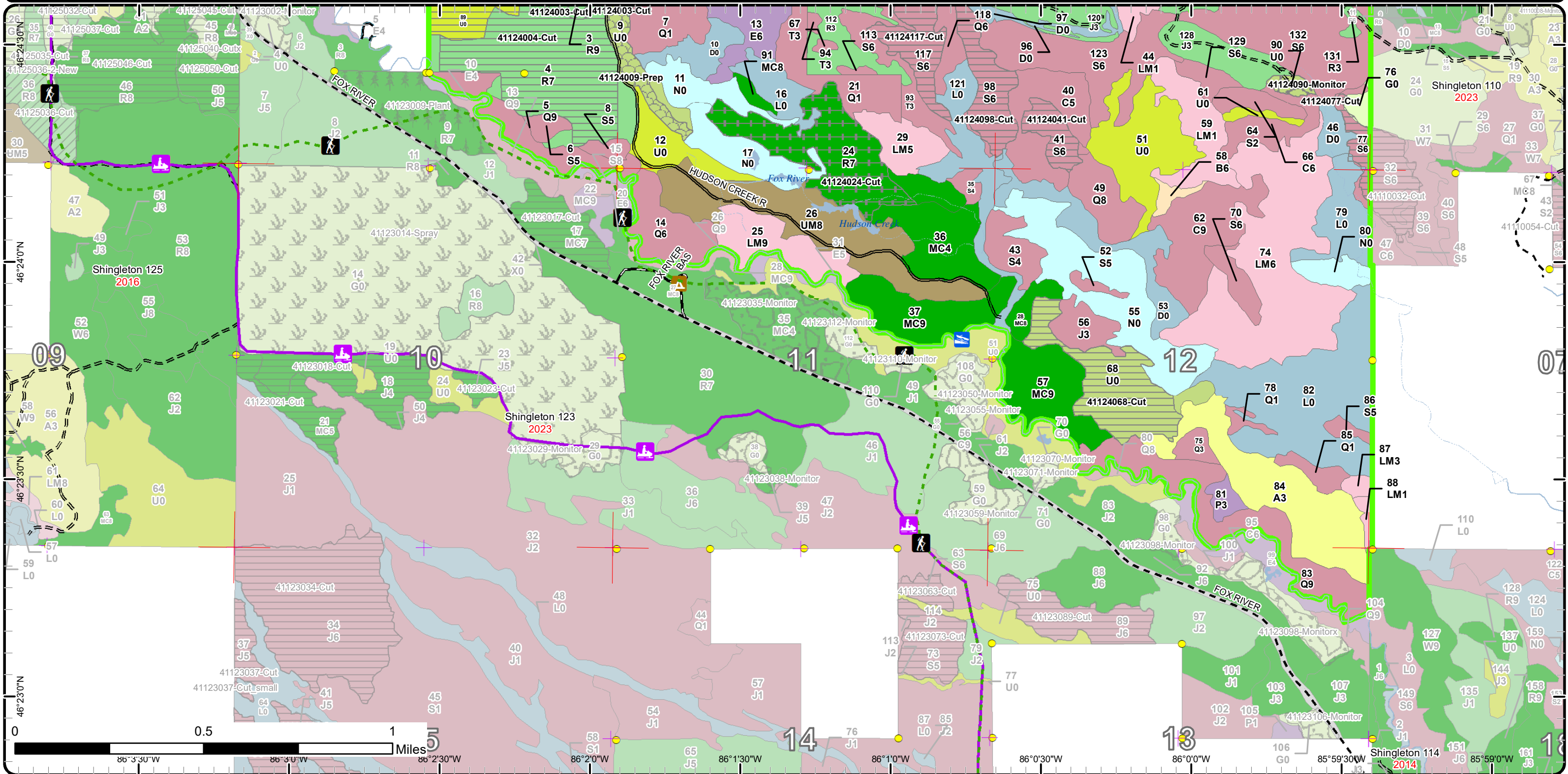


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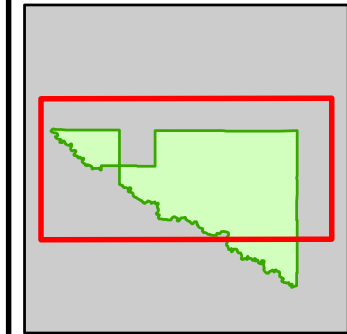


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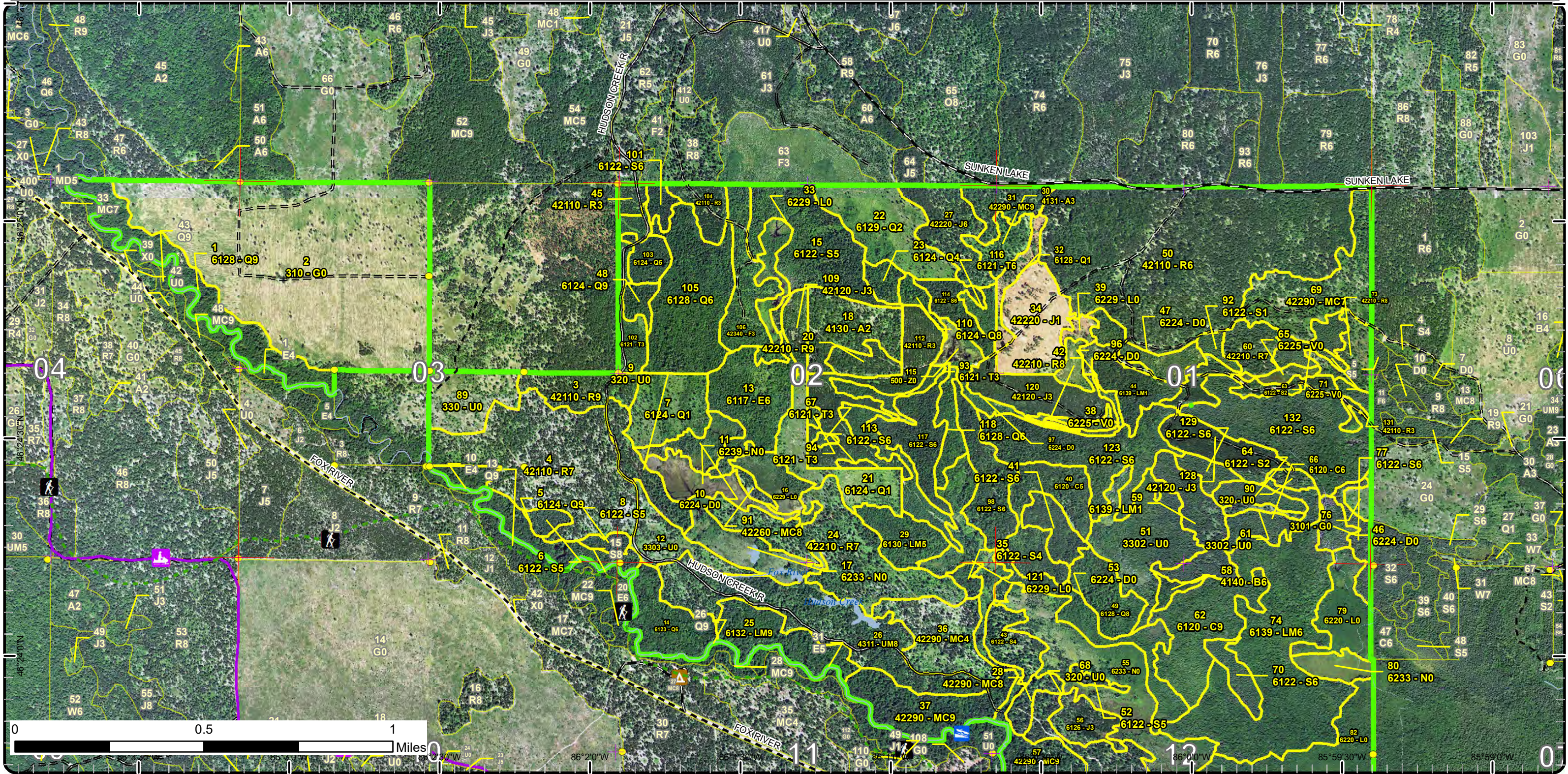


# Stand Boundary Map

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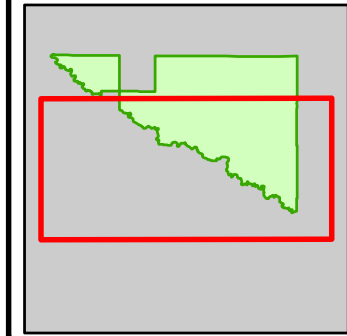


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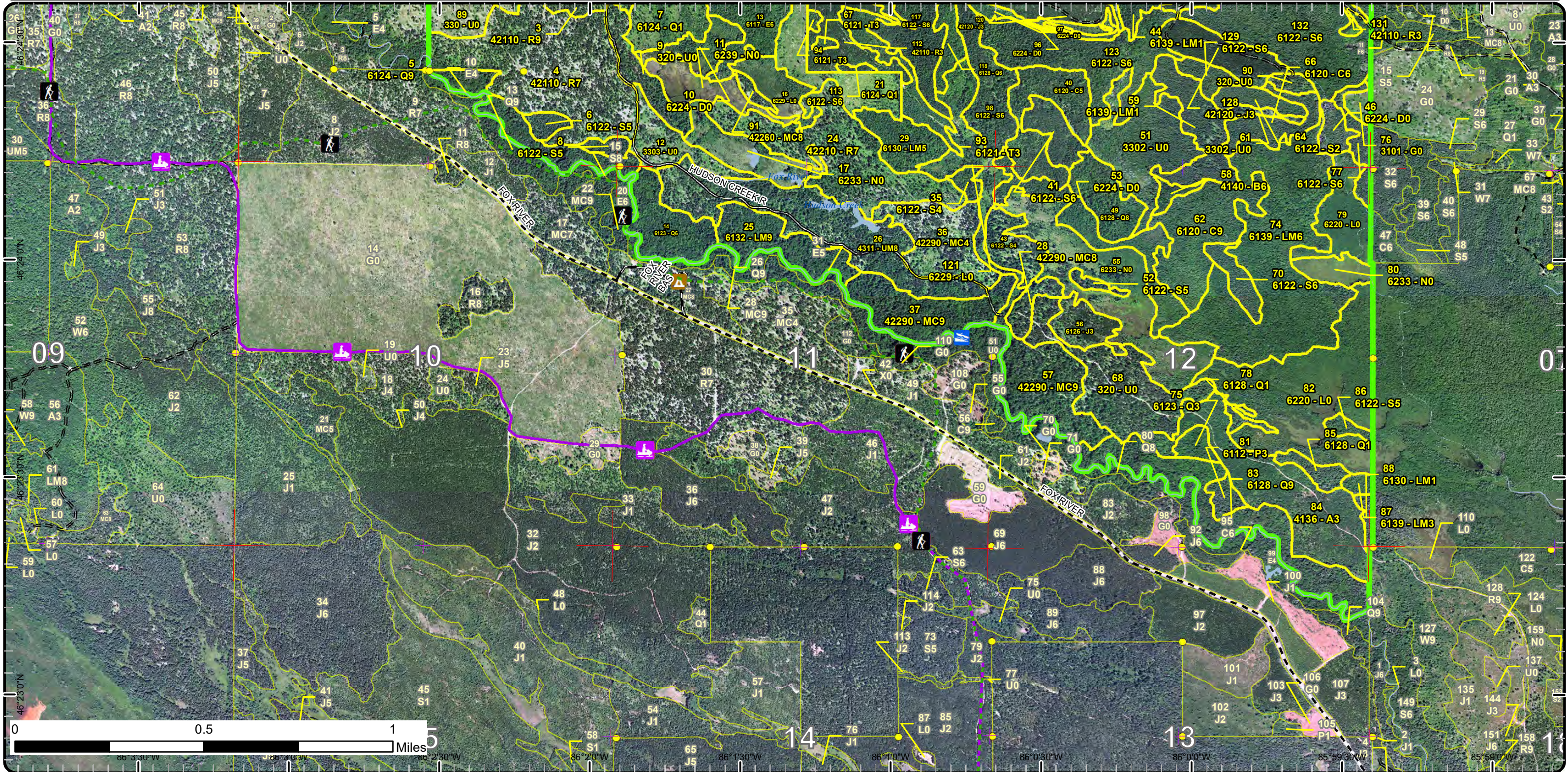


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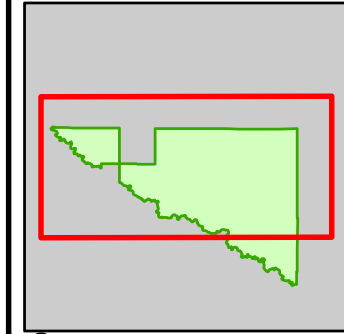


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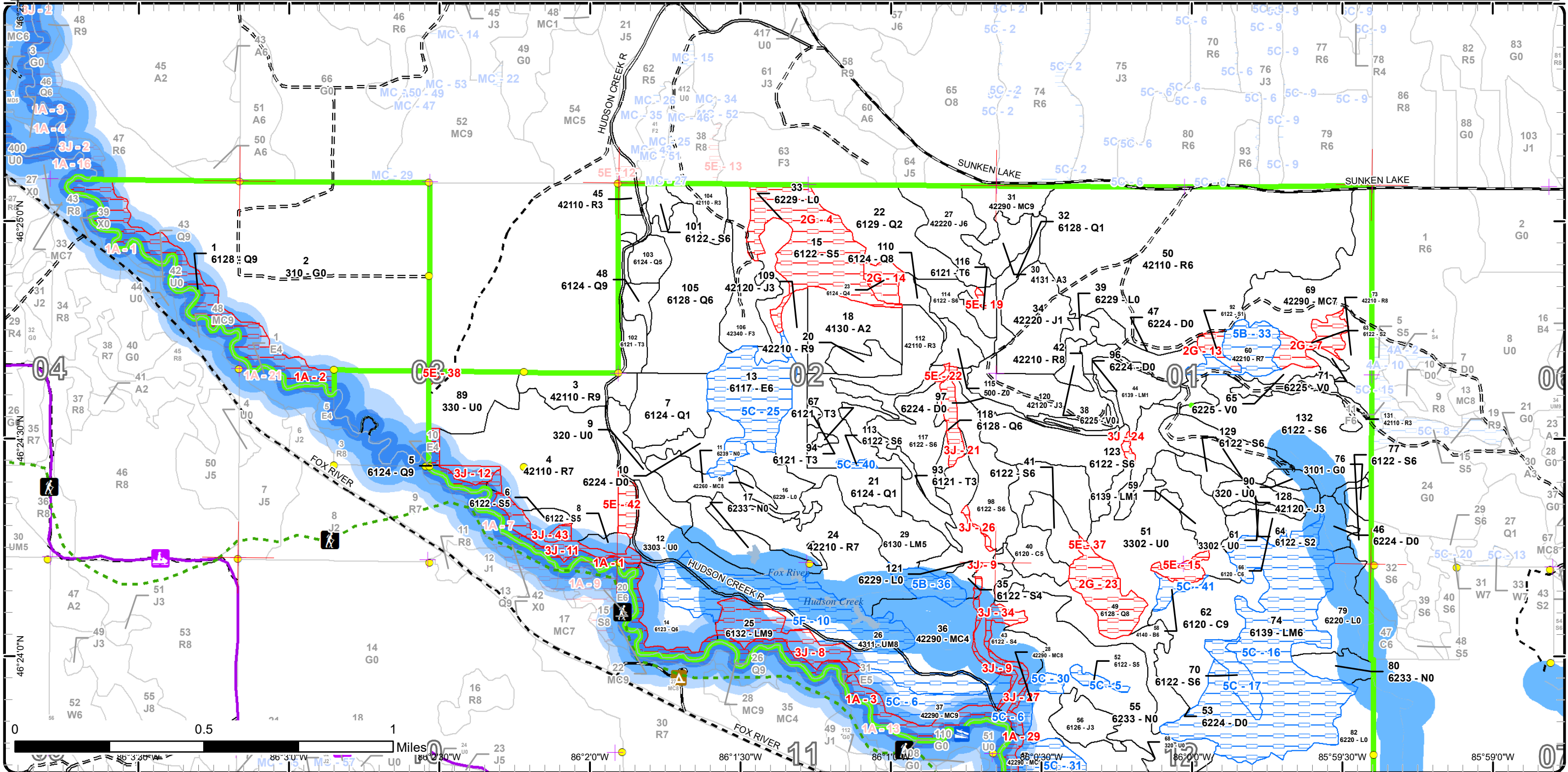


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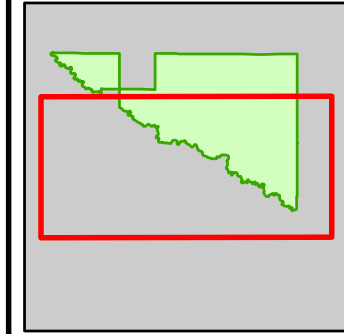
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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



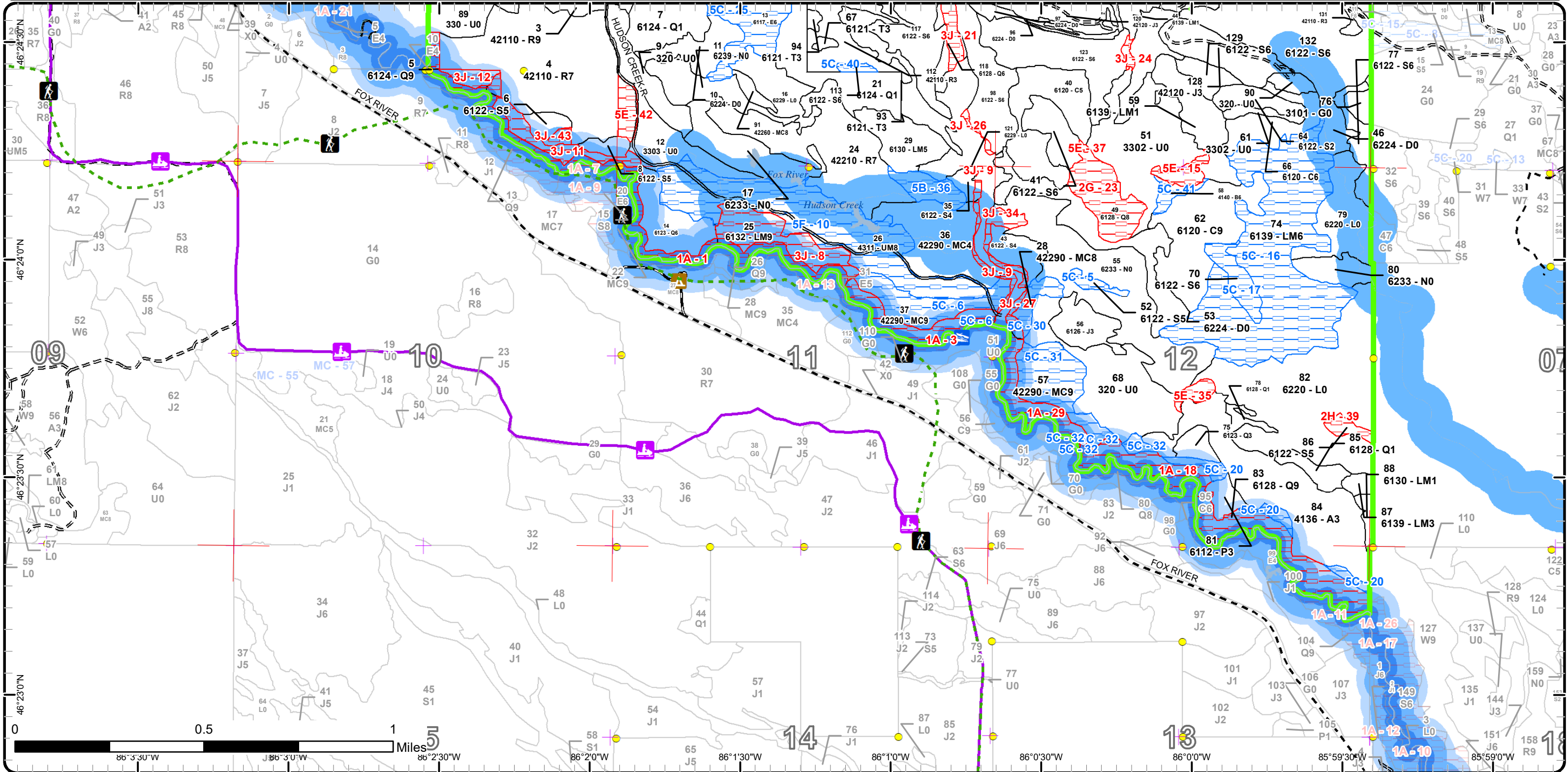


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- 🔴 Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- 🟩 Stand Boundaries
- 🟦 Natural Rivers Vegetative Buffer
- 🟦 Natural Rivers Zoning District
- 🟦 Cold Water Streams
- 🟦 Cold Water Lakes
- 🟦 High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



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	24	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Cedar	0	0	0	0	0	0	0	26	0	0	47	0	0	0	0	0	0	0	73
Herbaceous Openland	197	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
Jack Pine	0	28	0	43	43	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Low-Density Trees	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Lowland Aspen/Balsam Poplar	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	16	78	5	0	42	8	49	14	63	45	0	0	0	0	0	0	0	320
Lowland Deciduous	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	32
Lowland Mixed Forest	0	39	0	3	0	0	0	15	0	96	0	0	0	23	0	0	0	0	176
Lowland Shrub	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
Lowland Spruce/Fir	0	0	0	0	8	7	12	107	35	67	38	0	0	0	0	0	0	0	273
Marsh	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Natural Mixed Pines	0	0	0	0	28	0	3	13	37	0	0	0	0	39	29	0	0	0	149
Paper Birch	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	56	0	0	169	8	15	161	0	0	0	0	0	0	0	0	408
Tamarack	0	0	0	0	35	5	0	0	0	0	0	0	0	0	0	0	0	0	40
Treed Bog	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Upland Mixed Forest	0	0	0	0	0	0	0	0	59	0	0	0	0	0	0	0	0	0	59
Upland Shrub	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Upland Spruce/Fir	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>652</b>	<b>112</b>	<b>88</b>	<b>181</b>	<b>114</b>	<b>54</b>	<b>192</b>	<b>218</b>	<b>163</b>	<b>419</b>	<b>130</b>	<b>0</b>	<b>0</b>	<b>62</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2411</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 124

Total Compartment Acres: 2,410

Commercial Harvest - 367  
 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
Low-Density Trees	20	0	0	0	0	0	0	0	0	20
Lowland Conifers	4	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	67	0	0	0	0	0	0	0	0	67
Natural Mixed Pines	0	13	0	0	0	37	0	0	0	49
Red Pine	69	0	0	0	75	46	0	0	0	189
Upland Shrub	37	0	0	0	0	0	0	0	0	37
<b>Total</b>	<b>197</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>75</b>	<b>83</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>367</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	367	11	0	0	0	13	0	0	0	391
Next Step	0	126	137	0	267	358	0	0	0	887
<b>Total</b>	<b>367</b>	<b>137</b>	<b>137</b>	<b>0</b>	<b>267</b>	<b>371</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1278</b>



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

<b>3</b>	<b>41124003-Cut</b>	16.3	42110 - Planted Red Pine	Sawtimber Well	82	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to an average 120 BA.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> N/A  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>4</b>	<b>41124004-Cut</b>	68.9	42110 - Planted Red Pine	Sawtimber Poor	85	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut all trees to 2" DBH to facilitate trench and plant to red pine. Proposed retention areas are identified on the map.  <u>Specs:</u>  <u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release;  <u>Treatments:</u> Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Release  <u>Acceptable</u> red pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>9</b>	<b>41124009-Prep</b>	11.1	320 - Upland Shrub	Nonstocked	0	Unspecified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Trench for planting to jack pine.  <u>Specs:</u>  <u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  <u>Treatments:</u>  <u>Acceptable</u> jack pine and any current species on site  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>24 41124024-Cut</b>	45.8	42210 - Natural Red Pine	Sawtimber Poor	85	1-50	Harvest	Overstory Removal	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all merchantable trees. Leave up to 10 BA white pine for wildlife and seed source. Don't cut hemlock, cedar, or oak if found. Acreage may vary per ground conditions. Some areas such as the far north may be too sparse to cut. The east end was already excluded.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, maple, balsam fir, white pine, red pine, jack pine, black spruce, white spruce. At this point aspen and maple look to be the dominate species.</p> <p><u>Other Comment:</u> The east end was excluded, too sparse mature trees. There's an old access from stand 36 to the south and two seasonally dry drainages to address. Possibly with timber matts or smooth the berms into the drainage (should be dry in summer). Then reopen drainage and re-berm.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>31 41124031-Cut</b>	12.6	42290 - Natural Mixed Pine	Sawtimber Well	65	81-110	Harvest	Single Tree Selection	4310 - Pine, Oak Mix	Even-Aged	No
<p><u>Prescription</u> Cut all jack pine and leave some healthy paper birch. Thin the red and white pine to an average of 80 BA and try to cut the trees that will be growing out of class while reaching the target BA. Don't cut oak or hemlock if found. Incorporate some mature white pine in the line work for wildlife retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine, white pine, red oak, aspen, balsam fir, paper birch, red maple, white spruce</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>39 41124039-Monitor</b>	3.1	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Natural regeneration monitor.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> black spruce, jack pine, aspen, red maple, tamarack, white pine, balsam fir, paper birch</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2029</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
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41	41124041-Cut	10.2	6122 - Black Spruce	Poletimber Well	99	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Cut all merchantable trees. Don't cut cedar, white pine, or hemlock if found. Old red line is still in and will need to be refreshed. A proposed retention area is mapped but could be moved, and the old red line will need to be adjusted.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable black spruce, white pine, red pine, hemlock, tamarack, balsam fir, red maple, paper birch

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

50	41124050-Cutx	56.4	42110 - Planted Red Pine	Poletimber Well	59	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all aspen and jack pine and third row thin the red pine. Don't cut oak.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

68	41124068-Cut	37.0	320 - Upland Shrub	Nonstocked	0	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Cut remaining trees to 2" DBH to facilitate trench and plant to jack pine. Proposed retention is identified on the map.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable jack pine, aspen, maple

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

69	41124069-Cut	36.7	42290 - Natural Mixed Pine	Sawtimber Poor	76	1-50	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Don't cut oak, hemlock, and cedar. Cut all other species in the areas of full regeneration. In areas of thinner regeneration like north of the road in the central and west part of the stand leave residual BA of 10-30. Incorporate some mature white pine in the line work for wildlife retention.

Next Step  
Treatments:

Acceptable Oak, white pine, red pine, jack pine, hemlock, balsam fir, maple, aspen.

Other Retention will be the variable residual BA and the oak.

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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89	41124089-Cut	20.0	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut all trees to 2" DBH to facilitate trench and plant to red pine. Proposed retention area is identified on the map.

Specs:

Next Step SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release;

Treatments: Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Release

Acceptable red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

90	41124090-Monitor	3.2	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Natural regeneration survey per work instructions.

Specs:

Next Step

Treatments:

Acceptable Red pine, white pine, jack pine, black spruce, tamarack, balsam fir, red maple, paper birch.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

98	41124098-Cut	20.7	6122 - Black Spruce Poletimber Well		78	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Clearcut all merchantable trees to 4" DBH. Don't cut hemlock and don't cut cedar unless needed for operations.

Specs: The river buffer site condition will be the retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable black spruce, cedar, hemlock, white pine, balsam fir, white spruce, paper birch, red maple

Regen:

Other Acreage may vary depending on ground conditions, the south end gets more sparse.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

110	41124110-Cut	4.1	6124 - Lowland Spruce-Fir	Sawtimber Medium	86	81-110	Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut with no retention due to small size. Don't cut cedar or hemlock if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable red maple, paper birch, white spruce, black spruce, balsam fir, cedar, tamarack

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
114 41124114-Cut	10.6	6122 - Black Spruce	Poletimber Well	86	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all merchantable trees. Don't cut cedar or hemlock if found. Retention area is identified on the map.</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> black spruce, tamarack, balsam fir, white pine, cedar, red maple, paper birch</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 /2021</p>										
117 41124117-Cut	19.2	6122 - Black Spruce	Poletimber Well	93	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clearcut to 4" DBH. Cut all but cedar and red pine. Only cut cedar if needed for operations but that isn't likely to be needed. Acreage may vary depending on ground conditions but it should be close.</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> black spruce, cedar, red maple, balsam fir, paper birch, white pine, red pine, tamarack.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention is proposed at north end since it's near the stream. So access is proposed through the R3 stand just to the west through the</p> <p><u>Comment:</u> natural opening in the R3 stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Approved Treatments:**

50 41124050-Cut	1.9	42110 - Planted Red Pine	Poletimber Well	59	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First entry thinning, mark every 3rd row for harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></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 /2018</p>										





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>73 41124073-Monitor</b>	6.8	42210 - Natural Red Pine	Sawtimber Medium	75	51-80	Monitoring	Natural Regen (Re-Inventory)	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Natural regeneration survey per work instructions.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> any species on site  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2029</p>										
<b>77 41124077-Cut</b>	6.4	6122 - Black Spruce Poletimber Well		85	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Reserve any hemlock and cedar encountered in the stand.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> black spruce, red maple, paper birch, aspen, balsam fir, white pine, cedar  <u>Regen:</u>  <u>Other</u> Old next step comments: All species present are acceptable regeneration.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2011</p>										

**Total Treatment Acreage Proposed: 391**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 124  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions											
		With Condition				4A	5B	5C	5F	1A	2G	2H	3J	5E			
86	86	0		0	Aspen												0
9	9	0		0	Bog												
73	73	0		0	Cedar												
197	197	0		0	Herbaceous Openland												
115	115	0		0	Jack Pine												
77	76	0		1	Low-Density Trees												1
5	5	0		0	Lowland Aspen/Balsam Poplar												
318	183	8		127	Lowland Conifers			8		88	22					17	
31	0	31		0	Lowland Deciduous			31									
176	53	96		27	Lowland Mixed Forest			96		6						17	4
146	146	0		0	Lowland Shrub					0							
275	199	11		65	Lowland Spruce/Fir			11			54	3		7			2
96	96	0		0	Marsh												
147	78	41		28	Natural Mixed Pines			41		25						3	
3	0	3		0	Paper Birch			3									
409	379	21		9	Red Pine	0	21	0		3						2	5
40	40	0		0	Tamarack												
63	63	0		0	Treed Bog												
59	0	59		0	Upland Mixed Forest					59							
57	54	0		3	Upland Shrub												3
22	22	0		0	Upland Spruce/Fir												
6	6	0		0	Water												
2,410	1,879	271		260	Total Forested Acres	0	21	192	59	122	76	3		45			14
	78%	11%		11%	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	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> fox river 200' zone							

Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 124  
Year of Entry: 2022

2	Unavailable	1A: Federal/State/Local Law	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 200' Fox River buffer							
3	Unavailable	1A: Federal/State/Local Law	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> fox river 200' zone							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 124  
Year of Entry: 2022

8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mucky drainages throughout the stand.							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100' stream buffer							
10	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	59	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluate on site.							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Majority falls within the fox river natural river management zone							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Majority falls within the Fox River natural river zone							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 124  
Year of Entry: 2022

14	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from Northern Cross timber sale. 410431201. Unit cut in 2016.							
16	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	96	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	1A: Federal/State/Local Law	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River.							
19	<b>Unavailable</b>	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for proposed timber sale.							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 124  
Year of Entry: 2022

20	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100' buffer for 4' wide stream running north/south. Location is approximate except for northern 1/4 of stand.							
22	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for proposed timber sale and east part of this site condition is within a 100' stream buffer.							
23	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet ground everywhere.							
24	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 50' buffer for 4' wide stream in flat terrain.							
25	<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>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 124  
Year of Entry: 2022

26	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100' buffer for stream and long term retention for proposed timber sale.							
27	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100' stream buffer							
29	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> fox rover 200' buffer							
30	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 124  
Year of Entry: 2022

33	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> stream 100' buffer							
35	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for clearcut and trench plant to the west.							
36	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for proposed harvest.							
38	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for proposed harvest.							
39	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Surrounded by swamp.							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Steve Touvila : Examiner

Compartment: 124  
Year of Entry: 2022

40	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for proposed timber sale. State game fund land so no spraying here.							
43	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments				
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**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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	35.8	80	81-110	N/A	Lowlands along the banks of the Fox River - the area is actually a mix of lowland and upland-to-lowland transitional habitat. The understory is fully stocked with a mix of species but balsam fir & red maple are dominant. Unevenaged characteristics are developing. This is an important wildlife corridor.																																														
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2	310 - Herbaceous Openland	Nonstocked	193.2	0	Unspecified	4211 - Planted Red Pine	RP planted in 1961 - Already prepped for sale. TCR 10/1/15 Site was trenched December 2016. planted to red pine summer 2016. 1st year check 2017, passed. 3rd year check passed. Looks good.																																														
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3	42110 - Planted Red Pine	Sawtimber Well	16.3	82	141-170	N/A	Red pine with some white pine with a light sapling understory. BA averages 160 with some areas that are 190. A few locations are lower basal area with small openings which is visible in the imagery.																																														
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4	42110 - Planted Red Pine	Sawtimber Poor	78.2	85	1-50	N/A	4/10/20: Follow previous recommendations as stated below. Harvest and trench/plant to red pine.  Hudson creek unit 1, TS: 41-042-12-01 TCR: 9/27/17 Site had FTP for scafification but was cancelled due to high residual BA that was left from sale. Only East of the road was scarified and added to adjacent stand. Site needs to be clearcut then trenched and planted for success.																																														
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5	6124 - Lowland Spruce-Fir	Sawtimber Well	20.6	48	81-110	N/A	Fox River HCVA. Two aged stand with balsam fir and red maple being close to the same age and white spruce being the older age class. Red maple percentage will increase as time passes. The black cherry is rapidly dying back.																																														
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6	6122 - Black Spruce	Poletimber Medium	4.0	44	1-50	N/A	Cut in 1976. Fully stocked regeneration that is still entering pole size.																																														
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<b>7</b>	6124 - Lowland Spruce-Fir	Sapling Poor	22.7	12	Immature	N/A	Cut as part of TS 41-027-02-01 Hudson Fox Complex. Residual red & white pine, and a few cedar. Regeneration is filling in.																																																															
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<b>8</b>	6122 - Black Spruce	Poletimber Medium	3.3	44	1-50	N/A	Mixed lowland conifers - black spruce is dominant.																																																															
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<b>9</b>	320 - Upland Shrub	Nonstocked	13.7	0	Unspecified	4212 - Planted Jack Pine	[July 2020]-Scarification didn't produce sufficient regeneration. Trench and plant to jack pine.  Unit 2 of Hudson Creek TS: 41-042-12-01 TCR: 9/27/17 Stand scarified summer 2017 by dnr staff.																																																															
<b>10</b>	6224 - Treed Bog	Nonstocked	11.4		Unspecified	No																																																																
<b>11</b>	6239 - Mixed Emergent Wetland	Nonstocked	14.3		Unspecified	No																																																																
<b>12</b>	3303 - Mixed Low Density Trees	Nonstocked	15.8		Unspecified	No	Some mature jack pine present, and the area appears to be slowly filling in with a mix of regen - primarily aspen, pine & spruce.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**13** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 31.5 84 81-110 N/A Wet ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole	9	84	Red Maple	Low	Variable	Sapling
Paper Birch	10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	10	Pole/Sapling	6		Black Ash	Low	10 - 20 feet	Sapling
Black Spruce	10	Pole	8		Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar	13	Pole	9					
White Spruce	3	Pole	9					
Black Ash	14	Pole	7					

**14** 6123 - Lowland Fir Poletimber Well 21.8 42 51-80 N/A Thick balsam fir throughout the majority of the stand that is pole to sapling sized.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	8	70	Red Maple	Medium	Variable	Sapling
Paper Birch	10	Pole	9		Balsam Fir	High	>20 feet	Sapling
Balsam Fir	50	Pole/Sapling	5	42	Paper Birch	Trace	>20 feet	Sapling
White Spruce	5	Pole	9					
Northern White Cedar	10	Pole/Log	9					
Hemlock	5	Log/Pole	11					
White Pine	5	Log/XLog	16					

**15** 6122 - Black Spruce Poletimber Medium 41.1 86 81-110 N/A Inoperable - too wet & soft to freeze down for harvest operations w/o major rutting etc. Just makes 50% crown closure.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	80	Pole	8	86	Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	10	Pole	9		Tamarack	Low	Variable	Sapling
Red Maple	5	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	5	Pole	6		Black Spruce	Low	Variable	Sapling

**16** 6229 - Mixed lowland shrub Nonstocked 12.7 Unspecified No

**17** 6233 - Wet Meadow Nonstocked 19.6 Unspecified No This stand is a mix of seasonally flooded marsh and pockets of various lowland shrubs.

**18** 4130 - Aspen Sapling Medium 24.2 3 Immature N/A Northern Cross. unit 1 TS: 41-043-12-01TCR: 9/27/17FTP:1546, Scarified summer 2017 by DNR staff Big tooth aspen has become the dominant species. Any pine species or aspen was acceptable regeneration.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	84	Sapling	1	3
White Pine	1	Sapling	1	
Red Pine	5	Log	14	
White Pine	5	Log/XLog	16	
Red Maple	5	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
<b>20</b>	42210 - Natural Red Pine	Sawtimber Well	8.1	60	81-110	N/A	Northern Cross unit 2 TS:41-043-12-01TCR: 9/27/17Bigtooth aspen saplings are filling in.																																							
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<b>21</b>	6124 - Lowland Spruce-Fir	Sapling Poor	23.2	11	Immature	N/A	Lowland regeneration filling in now.																																							
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<b>22</b>	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	32.1	13	Immature	N/A	This unit was cut in 2007 as part of Hudson Fox Complex 41-027-02-01. Regeneration is well stocked and is about 4-5' tall. It will soon be a Q3.																																							
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<b>23</b>	6124 - Lowland Spruce-Fir	Poletimber Poor	5.6	86	1-50	N/A	Wet area was typed as low density trees last inventory but now has enough canopy closure to be forested. Grouping of mixed trees surrounded by high density tag alder.																																							
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<b>24</b>	42210 - Natural Red Pine	Sawtimber Poor	53.2	85	1-50	N/A	Treated in 2009 as part of Hudson Fox Complex 410270201. Full regenerating understory that would benefit from a release. Management objective was aspen and jack pine. Basal area varies and is mainly 30-40 with some areas up to 100.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**25** 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 23.4 120 111-140 N/A HCVA - Fox River. Mucky drainages throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log/Pole	14	120
Paper Birch	10	Pole	8	
Bigtooth Aspen	20	Pole	8	
Balsam Fir	10	Pole	8	
White Spruce	5	Pole/Log	9	
Northern White Cedar	25	Log/Pole	12	
White Pine	5	XLog	20	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	Full	Variable	Sapling
White Pine	Low	Variable	Sapling

**26** 4311 - Pine, Aspen Mix Sawtimber Medium 58.7 70 51-80 N/A Variable crown closure. Age class diversity is developing as the semi-open areas in the stand are gradually filling in.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	7	
Quaking Aspen	38	Pole/Sapling	7	70
Balsam Fir	10	Pole/Sapling	7	
White Spruce	10	Log/Pole	11	
White Pine	15	Log/Pole/XLog	14	
Red Pine	15	Log/XLog	16	
Jack Pine	5	Pole	8	
Black Spruce	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling

**27** 42220 - Natural Jack Pine Poletimber Well 21.1 39 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	2	Pole	8	
Red Pine	5	Log	14	59
Jack Pine	78	Pole/Sapling	6	39
Red Oak	5	Log/Pole	10	
White Pine	10	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling

**28** 42290 - Natural Mixed Pine Sawtimber Medium 6.6 120 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	55	Log/XLog/Pole	16	120
Jack Pine	20	Pole	9	70
Red Pine	15	Log/XLog/Pole	16	
White Spruce	10	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling
White Pine	Low	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
<b>29</b>	6130 - Fir, Aspen, Maple	Poletimber Medium	15.1	60	51-80	N/A	Thick stand with canopy filling in. The northeast third is wet with tag alder beneath the stand.																																																											
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<b>30</b>	4131 - Aspen, Oak	Sapling Well	9.5	13	1-50	N/A	Fully stocked. Cut in 2007 as part of Hudson Fox Complex 41-027-02-01. Residual red pine, white pine, and oak left uncut. Good amount of red oak saplings that are competing well.																																																											
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<b>31</b>	42290 - Natural Mixed Pine	Sawtimber Well	12.6	65	81-110	N/A	An older failed red pine plantation. BA ranges from 60-120. Some clusters of red and white pine are growing close together and needs to be thinned. There's a good amount of oak saplings. Stand could be thinned now with the intent of a canopy release in 10 years to release the oak saplings.																																																											
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<b>34</b>	42220 - Natural Jack Pine	Sapling Poor	28.0	4	Immature	N/A	Part of Northern Cross. Site was scarified by DNR staff, JD 440. Summer 2016.																																																		
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<b>35</b>	6122 - Black Spruce	Poletimber Poor	3.4	75	1-50	N/A	Semi-open in places; age variability has developed.																																																		
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<b>36</b>	42290 - Natural Mixed Pine	Poletimber Poor	27.7	35	1-50	N/A	Open area that is filling in.																																																		
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<b>37</b>	42290 - Natural Mixed Pine	Sawtimber Well	29.4	130	111-140	N/A	Rolling terrain - pockets of both upland & lowland habitat. The majority of the red and white pine is in the western side of the stand with a cluster also in the center of the stand.																																																		
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<b>38</b>	6225 - Bog	Nonstocked	4.7		Unspecified	No	Scattered submerchantable conifers are somewhat larger along the perimeter ( a few pole-sized) and more prevalent in the north half of the stand.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**39** 6229 - Mixed lowland shrub Nonstocked 3.1 0 Unspecified 612 - Lowland Coniferous Forest Part of Northern Cross 410421201. Only a few seedling black spruce so far. Monitor for lowland regeneration next inventory.

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Trace	< 5 feet	Sapling

**40** 6120 - Lowland Cedar Poletimber Medium 26.0 60 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Pole/Sapling	7		Balsam Fir	High	10 - 20 feet	Sapling
Northern White Cedar	65	Pole/Sapling	6	60	Black Spruce	Low	10 - 20 feet	Sapling
Tamarack	3	Pole	8		Tag Alder	Low	Variable	Tall Shrub
White Pine	2	Log	13					

**41** 6122 - Black Spruce Poletimber Well 10.6 99 81-110 N/A

Lots of small diameter black spruce. Many are 1-2 sticks with some 3 and a few 4.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	95	Pole/Sapling	7	99	Red Maple	Trace	5 - 10 feet	Sapling
Northern White Cedar	4	Pole	7		Balsam Fir	Medium	Variable	Sapling
White Pine	1	Log	16		Black Spruce	Medium	Variable	Sapling

**42** 42210 - Natural Red Pine Sawtimber Medium 4.0 70 51-80 N/A

Northern Cross unit 5 TS: 41-043-12-01  
TCR: 9/27/17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	7		Black Spruce	Low	Variable	Sapling
Bigtooth Aspen	3	Pole	7		White Pine	Low	Variable	Sapling
White Pine	20	Pole/Log	9		Red Pine	Low	Variable	Sapling
Red Pine	73	Log/Pole	10	70				
Black Spruce	2	Pole	7					

**43** 6122 - Black Spruce Poletimber Poor 12.4 60 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	80	Pole/Sapling	6	60	Balsam Fir	Low	Variable	Sapling
White Pine	20	Pole/Log	9		Black Spruce	Medium	Variable	Sapling

**44** 6139 - Mixed Lowland Forest Sapling Poor 13.5 3 Immature N/A

Northern Cross TS: 41-043-12-01  
TCR: 9/27/17 Red maple has filled in enough to now call this a forested stand. Black spruce is filling in.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	47	Sapling	1	3
Black Spruce	30	Sapling	1	
Tamarack	15	Sapling	1	
White Pine	5	Sapling	1	
Northern White Cedar	2	Pole	8	
White Pine	1	Log	12	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>45</b>	42110 - Planted Red Pine	Sapling Well	3.9	27	Immature	N/A	Planted red pine.															
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Red Pine	95	Sapling	4	27																		
Jack Pine	5	Sapling	4																			

<b>46</b>	6224 - Treed Bog	Nonstocked	6.1	0	Unspecified	No	
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<b>47</b>	6224 - Treed Bog	Nonstocked	12.4		Unspecified	No																									
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<b>48</b>	6124 - Lowland Spruce-Fir	Sawtimber Well	5.1	75	81-110	N/A	Split off from stand to the north, it's 20 years older and much larger DBH with more white pine. Still a lot of wet hummocks like we would find in a tamarack stand.																																																																								
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<b>49</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	16.7	88	1-50	N/A	Very wet; heavy mortality has resulted in a two aged stand of relatively slow-growing lowland hardwoods w/scattered conifers.																																																																								
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50	42110 - Planted Red Pine	Poletimber Well	168.5	59	81-110	N/A	Patchy red pine plantation that contains other species. BA averages 105 east of the road and 115 west of the road. The BA west of the road varies from 90-170.																																																							
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51	3302 - Low Density Conifer Trees	Nonstocked	37.5		Unspecified	No	Wet area with high amount of tag alder. Eventually will surpass 25% conifer crown closure.																																																							
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52	6122 - Black Spruce	Poletimber Medium	2.5	85	51-80	N/A	Island of black spruce out in the marsh - inaccessible.																																																							
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53	6224 - Treed Bog	Nonstocked	24.1		Unspecified	No																																																								
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55	6233 - Wet Meadow	Nonstocked	53.7		Unspecified	No																																																								
56	6126 - Lowland Jack Pine	Sapling Well	11.1	21	Immature	N/A	Salvage cut after the Hudson Creek Fire.																																																							
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57	42290 - Natural Mixed Pine	Sawtimber Well	31.5	128	81-110	N/A																																																								
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<b>58</b>	4140 - Other Upland Deciduous	Poletimber Well	3.2	79	81-110	N/A	Ridge with paper birch as dominate species. Some of the birch is now dying back.																																																															
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<b>59</b>	6139 - Mixed Lowland Forest	Sapling Poor	22.8	4	Immature	N/A	Northern Cross unit 7A TS:41-043-12-01 This unit was harvested in 2016. The maple regeneration is sufficient to now call this a forested stand. The black spruce is filling in and will increase in percentage of the stand.																																																															
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<b>60</b>	42210 - Natural Red Pine	Sawtimber Poor	13.5	85	1-50	N/A	Northern Cross unit 6 TS: 41-043-12-01 TCR: 9/27/17 There is a mix of different age regeneration with red and white pine. New red pine regeneration is a trace.																																																															
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<b>61</b>	3302 - Low Density Conifer Trees	Nonstocked	2.7	0	Unspecified	No	Open upland area between the two low stands. Trees include white pine, jack pine, black spruce and tamarack.																																																															
<b>62</b>	6120 - Lowland Cedar	Sawtimber Well	34.4	97	141-170	N/A	Mature cedar with a dense understory featuring cedar and balsam fir regeneration.																																																															
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<b>63</b>	6122 - Black Spruce	Sapling Medium	9.2	57	1-50	N/A	Inoperable - too wet & soft. Typed as a treed bog 20 years ago.																																																															
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<b>64</b>	6122 - Black Spruce	Sapling Medium	7.6	37	1-50	N/A	Black spruce and tamarack on wet, boggy ground. Records show 3 acres in this area were cut in 1983.																																																										
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<b>66</b>	6120 - Lowland Cedar	Poletimber Well	12.8	99	111-140	N/A	Good amount of evenly distributed cedar sapling regeneration. Some of the cedar seems punky.																																																										
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<b>67</b>	6121 - Tamarack	Sapling Well	1.0	32	1-50	N/A	Tamarack and jack pine.																																																										
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<b>68</b>	320 - Upland Shrub	Nonstocked	40.1	0	Unspecified	4212 - Planted Jack Pine	[6/23/20] Scarification didn't produce regeneration, will need to be trenched and planted to jack pine. A few scattered white and red pine left from treatment, 95% white pine and 5% red pine. Hudson Creek unit 4. TS: 41-042-12-01 TCR: 9/27/17 Scarified summer 2017 by DNR staff																																																										
<b>69</b>	42290 - Natural Mixed Pine	Sawtimber Poor	37.0	76	1-50	N/A	Residual BA of 10-140. With a good amount of 50-60. Regeneration is looking good with red oak being the dominant species especially in the east half. A bit thinner regeneration in the higher BA areas.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>70</b>	6122 - Black Spruce	Poletimber Well	7.7	93	111-140	N/A	Good ground, stand is starting to break up.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole	6	
Paper Birch	2	Pole	8	
Black Spruce	94	Pole	8	93
Northern White Cedar	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling

<b>71</b>	6225 - Bog	Nonstocked	1.3		Unspecified	No	Wet bog with a few scattered submerchantable conifers.
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Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low		Sapling
Leatherleaf	Medium		Tall Shrub
Black Spruce	Low		Sapling
Mixes Sedges/Grasses	High		Non-Wood

<b>73</b>	42210 - Natural Red Pine	Sawtimber Medium	10.9	75	51-80	N/A	Was cut as part of Lunch Box here. Aspen and jack pine were harvested. BA varies and can be up to 81-110. Another treatment could be done next entry. The southern 1.7 acres was previously private land and wasn't included in the harvest; and the western peninsula wasn't included.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Pole	7	
Quaking Aspen	5	Log/Pole	10	
White Pine	15	Log	13	
Red Pine	76	Log	12	75
Jack Pine	2	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Black Spruce	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling

<b>74</b>	6139 - Mixed Lowland Forest	Poletimber Well	96.3	87	81-110	N/A	BA varies but mainly stays within 81-110 with some higher areas of 140 and up to 170. Crown closure bumps up into the high range at approximately 80%. Advanced regeneration of red maple and balsam fir is throughout the stand. The red maple regeneration is a little more concentrated in areas of 1-2 acres throughout the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	22	Log/Pole	10	
Yellow Birch	3	XLog/Log	18	
Paper Birch	30	Pole/Log	9	87
Quaking Aspen	1	Log	14	
Balsam Fir	20	Pole/Sapling	7	
Black Spruce	8	Pole	9	
Northern White Cedar	15	Pole/Log	9	
Hemlock	1	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
Balsam Fir	High	>20 feet	Sapling
Black Ash	Low	10 - 20 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	Low	Variable	Sapling

<b>75</b>	6123 - Lowland Fir	Sapling Well	4.7	20	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Paper Birch	10	Sapling	2	
Quaking Aspen	20	Sapling	2	
Balsam Fir	50	Sapling	2	20
White Pine	10	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Seeding
Balsam Fir	Medium	Variable	Seeding





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
76	3101 - Poverty Grass, Cladonia	Nonstocked	3.5		Unspecified	No																																																			
77	6122 - Black Spruce	Poletimber Well	8.0	85	111-140	N/A	Ready to cut.																																																		
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78	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	2.6	3	Immature	N/A	Hudson creek unit 5 TS: 41-042-12-01 TCR: 9/27/17 Scattered white pine left.																																																		
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80	6233 - Wet Meadow	Nonstocked	8.2		Unspecified	No																																																			
81	6112 - Lowland Aspen	Sapling Well	4.6	3	Immature	N/A	Hudson Creek unit 5 TS:41-042-12-01 TCR: 9/27/17.																																																		
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82	6220 - Alder/willow	Nonstocked	74.3		Unspecified	No																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**83** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 44.6 97 111-140 N/A Mixed stand along the Fox River - large white & red pine over lowland conifer/hardwood mix. The site features rolling terrain that drops all the way down into the river bottom. Much of the paper birch is dead or dying.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log/Pole/XLog	11	
Paper Birch	10	Log/Pole	11	
White Spruce	3	Log/Pole	11	
Black Spruce	3	Pole	9	
Northern White Cedar	38	Log/Pole	11	97
White Pine	14	XLog	24	
Red Pine	1	Log	16	
Jack Pine	1	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	High	Variable	Sapling

**84** 4136 - Aspen, Mixed Conifer Sapling Well 52.4 20 Immature N/A Cut in 2000; scattered residual conifers are present. Thick regeneration.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	74	Sapling	2	20
Balsam Fir	15	Sapling/Pole	2	
White Pine	5	Sapling	2	
Jack Pine	5	Sapling	2	
Red Maple	1	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	High	Variable	Sapling
White Pine	Low	5 - 10 feet	Sapling

**85** 6128 - Lowland Coniferous, Mixed Deciduous Sapling Poor 5.6 3 Immature N/A Hudson creek unit 5, TS: 41-042-12-01  
TCR: 9/27/17  
A few white pine left.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Sapling	1	3
Black Spruce	30	Sapling	1	
Jack Pine	15	Sapling	1	
Quaking Aspen	5	Sapling	1	
Tamarack	5	Sapling	1	
White Pine	5	Sapling	1	

**86** 6122 - Black Spruce Poletimber Medium 2.9 85 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	85	Pole	7	85
Tamarack	5	Pole	7	
White Pine	10	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>87</b>	6139 - Mixed Lowland Forest	Sapling Well	2.6	25	1-50	N/A	Most of the mature stand has broken down leaving a young stand filling in.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		25	Sapling	3	25	Red Maple		Full	Variable	Sapling
Black Spruce		20	Sapling/Pole	3		Paper Birch		Medium	Variable	Sapling
White Pine		5	Sapling/Pole	3		Balsam Fir		Full	Variable	Sapling
Balsam Fir		25	Sapling/Pole	3		Black Spruce		Medium	Variable	Sapling
Paper Birch		25	Sapling	3		White Pine	Medium	Variable	Sapling	
<b>88</b>	6130 - Fir, Aspen, Maple	Sapling Poor	2.7	3	Immature	N/A	Hudson Creek, Unit 5 TS:41-042-12-01 TCR: 9/27/17			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Red Maple		35	Sapling	1	3					
Quaking Aspen		20	Sapling	1						
White Pine		3	Sapling	1						
Black Spruce		30	Sapling	1						
Balsam Fir		8	Sapling	1						
White Pine		4	Log/XLog	16						
<b>89</b>	330 - Low-Density Trees	Nonstocked	20.6		Unspecified	4211 - Planted Red Pine	Received in a land transaction. Scattered jack pine, white pine, red maple and black cherry. Mature scattered trees where cut several years ago before the land transaction.			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Jack Pine		Medium	10 - 20 feet	Sapling						
White Pine		Low	>20 feet	Pole						
Red Maple		Trace	>20 feet	Pole						
Black Cherry		Low	10 - 20 feet	Sapling						
<b>90</b>	320 - Upland Shrub	Nonstocked	3.2	0	Unspecified	4222 - Natural Jack Pine	Northern Cross: FTP 1546 Site scarified summer 2017 by DNR staff. Only a few 1' seedlings so far. <10 BA white pine, red pine, jack pine, and paper birch left as			
<b>91</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	2.7	55	51-80	N/A	Small sandy ridge. Could be harvested with stand 13.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Paper Birch		30	Pole	9		Jack Pine	Low	Variable	Sapling	
Jack Pine		38	Pole	8	55	White Pine	Low	Variable	Sapling	
White Pine		30	Log	12						
Red Pine		2	Log	12						
<b>92</b>	6122 - Black Spruce	Sapling Poor	3.4	57	1-50	N/A	Inoperable - too wet & soft. Typed as a treed bog 20 years earlier.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Black Spruce		60	Sapling/Pole	4	57	Black Spruce	Low	10 - 20 feet	Sapling	
Tamarack		40	Sapling/Pole	4		Tamarack	Low	10 - 20 feet	Sapling	
						White Pine	Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>93</b>	6121 - Tamarack	Sapling Well	20.0	32	1-50	N/A	Thick regeneration. Tamarack is growing well and jack pine is mixed in. Hummock wet area is spots.																																										
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<b>94</b>	6121 - Tamarack	Sapling Well	1.1	32	1-50	N/A	Tamarack and jack pine mix.																																										
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<b>101</b>	6122 - Black Spruce	Poletimber Well	4.5	74	111-140	N/A	Healthy dense black spruce stand. Wet hummocks throughout the stand, more like what we would see in a tamarack stand.																																										
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<b>102</b>	6121 - Tamarack	Sapling Well	13.2	35	1-50	N/A	Tamarack with a good amount of red and jack pine.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**103** 6124 - Lowland Spruce-Fir Poletimber Medium 8.0 55 51-80 N/A Split off from stand to the south. Same type stand but 20 years younger and much smaller DBH. Wet hummocks throughout the stand like what we would find in a tamarack stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	40	Pole/Sapling	6	55	Paper Birch	Medium	>20 feet	Sapling
Balsam Fir	25	Pole/Sapling	5		Balsam Fir	Medium	>20 feet	Sapling
Paper Birch	25	Pole/Sapling	5		Black Spruce	Medium	>20 feet	Sapling
Northern White Cedar	3	Pole	9					
Red Maple	1	Pole	8					
White Pine	6	Pole	8					

**104** 42110 - Planted Red Pine Sapling Well 9.6 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	95	Sapling/Pole	3	25
Jack Pine	5	Sapling	3	

**105** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 49.0 67 111-140 N/A Younger red maple with an occasional log sized maple, mixed with balsam fir. The cedar is an older age class and large diameter. Very wet site with water filled hummocks throughout most of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	36	Pole/Sapling	7	67	Balsam Fir	High	>20 feet	Sapling
Red Maple	34	Pole	8	67	Black Spruce	Trace	5 - 10 feet	Sapling
Paper Birch	3	Pole	9		Northern White Cedar	Trace	5 - 10 feet	Sapling
Northern White Cedar	15	Log/XLog	16	156	Red Maple	Low	>20 feet	Sapling
White Spruce	5	Pole	8					

**106** 42340 - Upland Spruce/Fir Sapling Well 21.7 28 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling/Pole	3	28	Balsam Fir	Medium	Variable	Sapling
Black Spruce	30	Sapling/Pole	3		Black Spruce	Medium	Variable	Sapling
Balsam Fir	30	Sapling/Pole	3					
White Pine	5	Sapling/Pole	4					
Tamarack	2	Sapling	3					
Paper Birch	3	Sapling/Pole	3					

**109** 42120 - Planted Jack Pine Sapling Well 7.5 25 1-50 N/A Planted jack pine with tamarack on the south end.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	95	Sapling/Pole	3	25	Balsam Fir	Low	< 5 feet	Sapling
Tamarack	5	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>110</b>	6124 - Lowland Spruce-Fir	Sawtimber Medium	4.1	86	81-110	N/A	Large red maple and white spruce with balsam fir, black spruce and cedar.																																															
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<b>112</b>	42110 - Planted Red Pine	Sapling Well	34.3	27	Immature	N/A	Densely planted red pine with scattered jack pine.																																															
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<b>113</b>	6122 - Black Spruce	Poletimber Well	1.2	82	81-110	N/A	Dense and tall BS but small diameter.																																															
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<b>114</b>	6122 - Black Spruce	Poletimber Well	11.2	86	111-140	N/A	Good ground. The stand is breaking up and should be cut now. Basal area is as high as 160 in some areas, mainly in the western side of the stand.																																															
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<b>115</b>	500 - Water	Nonstocked	6.1		Unspecified	No																																																
<b>116</b>	6121 - Tamarack	Poletimber Well	4.9	46	1-50	N/A	Young healthy tamarack. Some hummocks with standing water in areas.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**117** 6122 - Black Spruce Poletimber Well 19.7 93 81-110 N/A

Lower basal area black spruce stand, but large diameter and tall. Stand is breaking up and should be regenerated now. Cedar is mostly widely scattered and is highly variable from log to sapling size. A couple log sized red pine furthest west peninsula.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	89	Pole	9	93	Northern White Cedar	Medium	Variable	Sapling
Northern White Cedar	5	Pole/Sap/Log	8		Balsam Fir	Low	Variable	Sapling
Balsam Fir	2	Pole	7		Red Maple	Low	Variable	Sapling
Paper Birch	1	Pole	7					
White Pine	1	Log	14					
Red Pine	1	Log	14					
Red Maple	1	Pole	7					

**118** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 8.7 72 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	30	Pole/Sapling	7	72	Balsam Fir	Low	Variable	Sapling
Red Maple	15	Pole	7		Northern White Cedar	Medium	10 - 20 feet	Sapling
Paper Birch	25	Pole	7		Red Maple	Low	Variable	Sapling
Black Spruce	25	Pole	8					
White Pine	1	Log	14					
White Spruce	1	Pole	8					
Balsam Fir	3	Pole	7					

**120** 42120 - Planted Jack Pine Sapling Well 24.8 27 Immature N/A

Densely planted jack pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	100	Sapling	3	27	Balsam Fir	Trace	5 - 10 feet	Sapling

**121** 6229 - Mixed lowland shrub Nonstocked 25.0 Unspecified No

**123** 6122 - Black Spruce Poletimber Well 41.5 67 81-110 N/A

Stand is younger and still maturing. Hemlock is visible on imagery in NW area of the stand. The east end of the stand has a 4' stream that runs north/south. The eastern edge of this stand contains the red maple and yellow birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	60	Pole/Sapling	6	67	Northern White Cedar	Medium	Variable	Sapling
Northern White Cedar	30	Pole/Sapling	7		Black Spruce	Low	Variable	Sapling
Hemlock	2	Log/XLog	16		Balsam Fir	Low	Variable	Sapling
White Pine	1	Log	12					
Red Maple	5	Pole	8					
White Spruce	1	Pole	9					
Yellow Birch	1	Pole	9					

**128** 42120 - Planted Jack Pine Sapling Well 22.2 32 1-50 N/A

Well stocked planted jack pine stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	97	Sapling/Pole	4	32	Balsam Fir	Trace	< 5 feet	Sapling
Red Maple	3	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**129**      6122 - Black Spruce      Poletimber Well      5.7      73      111-140      N/A      Most of the black spruce is in the north half of the stand and most of the cedar is in the south half. Black spruce diameters are small and still a lot just growing into pole size.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	50	Pole/Sapling	6	73
Northern White Cedar	47	Pole	9	
Tamarack	3	Pole	6	

**131**      42110 - Planted Red Pine      Sapling Well      8.3      25      1-50      N/A      Planted red pine stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	85	Sapling/Pole	4	25
Jack Pine	5	Sapling	3	
Red Maple	5	Sapling	3	
Paper Birch	5	Sapling	3	

**132**      6122 - Black Spruce      Poletimber Well      53.7      61      81-110      N/A      Good ground in this stand. Dense stand that's still maturing.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	65	Pole/Sapling	6	61	Black Spruce	High	>20 feet	Sapling
Northern White Cedar	20	Pole	9		Northern White Cedar	Medium	5 - 10 feet	Sapling
White Pine	7	Pole/Log/XLog	9		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	3	Pole	5					
Red Maple	2	Pole	5					
Tamarack	3	Pole/Sapling	6					