



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41112

Entry Year 2026

Acreage: 3,441

County Schoolcraft

Management Area: Seney Lake Plain

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**Stand Examiner:** Scott Kentner

**Legal Description:**

T46N R13W Sections 9-16, 23, and 34.

**Identified Planning Goals:**

Timber production, wildlife habitat management, and protection of fisheries resources in the East Branch Fox River drainage are all identified as management objectives in this compartment. Management for recreational values is also featured as a heavily-used snowmobile trail crosses through the area as well.

**Soil and topography:**

South of Highway M-28 in sections 34, the terrain varies from abrupt, steep hills to flat wetlands. North of M-28 there is also some relatively steep ground up in sections 11 and 12, but the vast majority of this compartment is flat, low and wet. Only subtle changes in elevation separate the timber from the vast lowland complex that is commonly referred to as the spreads of the East Branch, and the much of the timber in the lowlands is inaccessible.

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

Highway M-28 runs through the southern part of this compartment, and M-77 is the western boundary of the northern portion. A groomed snowmobile trail runs parallel to M-77 through sections 9 and 16.

There are numerous hunting camps on the private lands along the fringes of this compartment in sections 11, 12 and 34. The state lands in sections 10 & 34 and near Highway M-77 in section 9 have been managed for timber production.

**Unique Natural Features:**

The East Branch Fox River flows through from northwest to southeast. The river corridor through this compartment is comprised of numerous river channels and wet lowlands collectively known as 'The Spreads.'

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

The Fox River is designated as a natural river and an HCVA. The Fox River Plan gives specific guidance for limiting activities such as harvesting timber within the river corridor.

**Watershed and Fisheries Considerations:**

This compartment contains Spring Creek, Cold Creek, and the East Branch Fox River. Spring Creek, Cold Creek, and the East Branch Fox River are designated Type 1 trout stream less than 50-ft wide with predicted mean July water temperatures that range from 59.0 to 62.0 °F (cold streams). 300-foot buffers are recommended for these streams in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 200-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these areas as part of the Natural Rivers Program and in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

This compartment contains the spreads region of the East Branch of the Fox River. The majority of the compartment is wetland. The first surveyors recorded tamarack, cedar, black spruce, balsam fir, and tag alder as the primary woody species. Hemlock, white pine, red maple and beech were also recorded.

Although there has been an increase in the aspen component on the uplands, the forest species within this compartment appears quite similar to pre-settlement conditions.

Wildlife habitat objectives include promoting species and structural diversity in the northern hardwoods, maintaining age diversity between aspen stands, and protecting the integrity of the East Branch of the Fox River.

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

Surface sediments consist of peat and muck and minor glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation and Utica Shale subcrop

below the glacial drift. The Stonington could be used for stone/dolomite. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

### **Vehicle Access:**

State lands in section 34 south of M-28 are easily accessible via forest roads directly off of the highway. North of M-28 in that section, virtually all of the state land is winter-only access due to the soft, wet ground. There is a poor winter road that almost reaches the 80-acre parcel in section 35, but it crosses private land and access is uncertain at this time.

There is a good two-track road that allows year-round access to the snowmobile trail and timber in the SW1/4 of Section 9 from M-77. The snowmobile trail itself may be drivable to a point just south of the line between sections 9 and 16, but probably not beyond that unless drought conditions prevail.

State lands in section 10 can be reached via the Cold Creek Road (Danaher Danaher Plains ORV Trailhead) but there is a locked gate on the private property line between sections 9 and 10. The land in the north half of section 11 is accessible from the Danaher Plains Road network.

There are no usable roads anywhere else in this compartment, leaving the majority of the acres inaccessible at this time.

### **Survey Needs:**

Land survey is needed needed to facilitate proposed timber sale activities in sections 9, 10 and 11.

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

State land in this compartment receives heavy pressure wherever access is available. The snowmobile trail runs north-south through sections 9 and 16, and the Danaher Plains ORV Trailhead is just north of this compartment in section 4 off of Cold Creek Road.

### **Fire Protection:**

Extremely difficult access would hamper fire management efforts in most of this compartment due to the marshy terrain. See the Vehicle Access notes.

Although the dry upland terrain associated with the Danaher Plains and the grasslands along M-28 pose the most significant threats in this compartment, a prolonged drought in any inaccessible area of this size could be catastrophic.

### **Additional Compartment Information:**

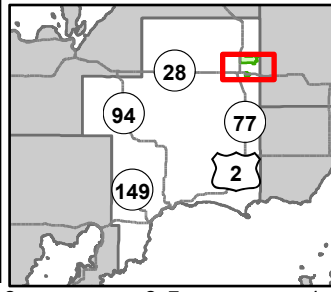
#### **The following reports from the Inventory are attached:**

- 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**

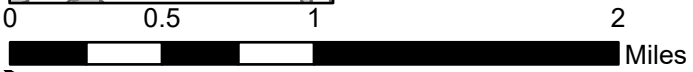
#### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

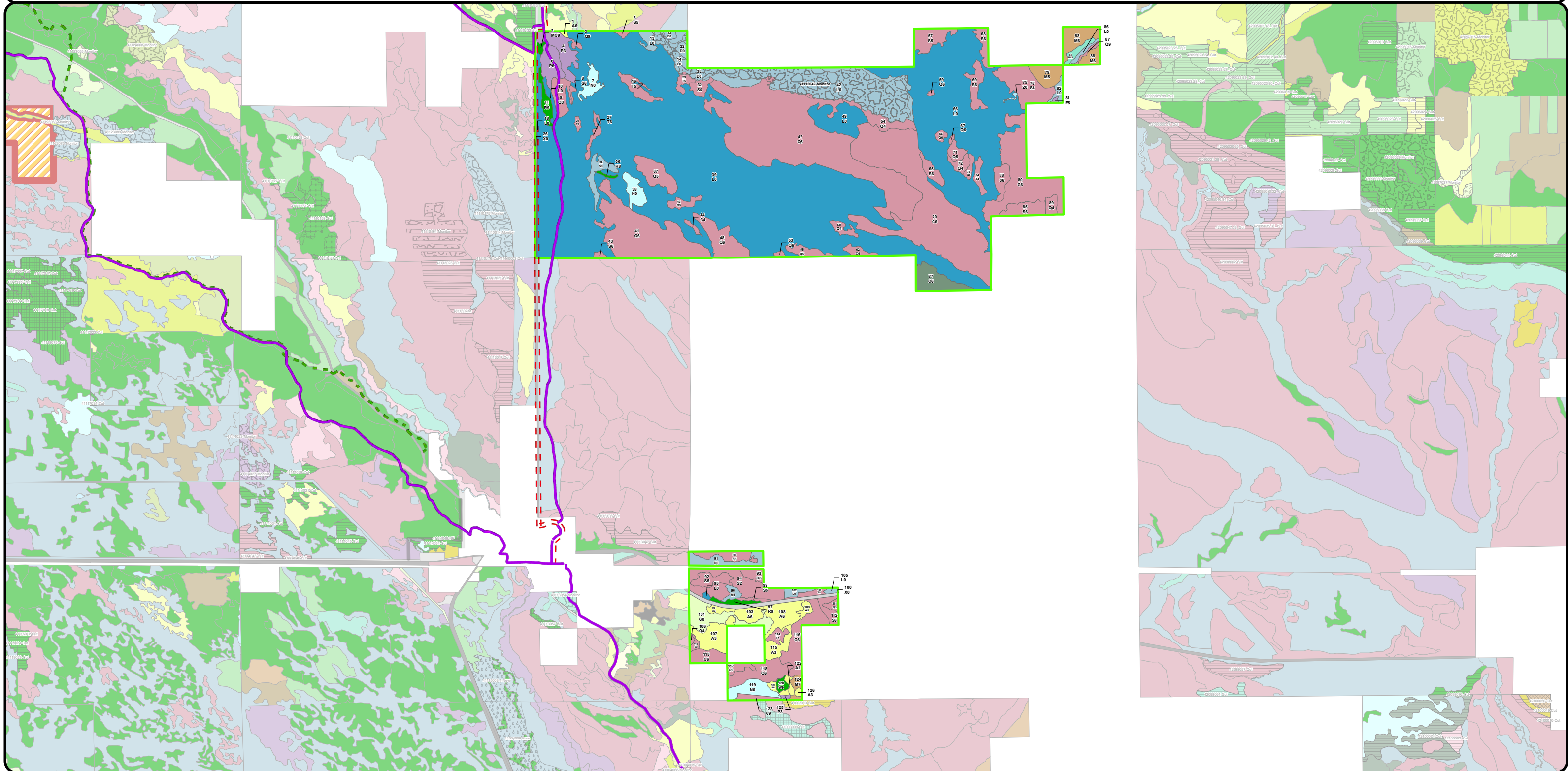
**Cover Type & Treatments Map**



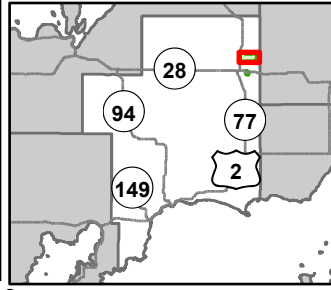
Compartment: 41112  
 T46N, R13W, Sec: 9-16, 23, 34  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Lake Plain  
 YOE: 2026  
 Acres: 3440.6 GIS Calculated  
 Examiner: Scott Kentner  
 Map Revised: 08/05/2024  
 Map Phase: Web Post



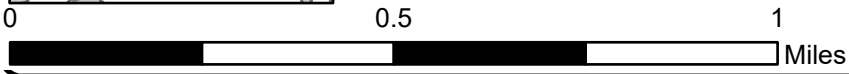
- Designated Hiking Pathways
- 413 - Aspen Types
- 110 - Low Intensity Urban
- Designated ORV Routes
- 422 - Natural Pines
- 310 - Herbaceous Openland
- Designated Snowmobile Trails
- 423 - Other Upland Conifers
- 500 - Water
- Compartment Boundary
- 429 - Mixed Upland Conifers
- 622 - Lowland Shrub
- Regeneration Survey
- 611 - Lowland Deciduous Forest
- 623 - Emergent Wetland
- 411 - Northern Hardwood
- 612 - Lowland Coniferous Forest
- 629 - Mixed Non-forested Wetland



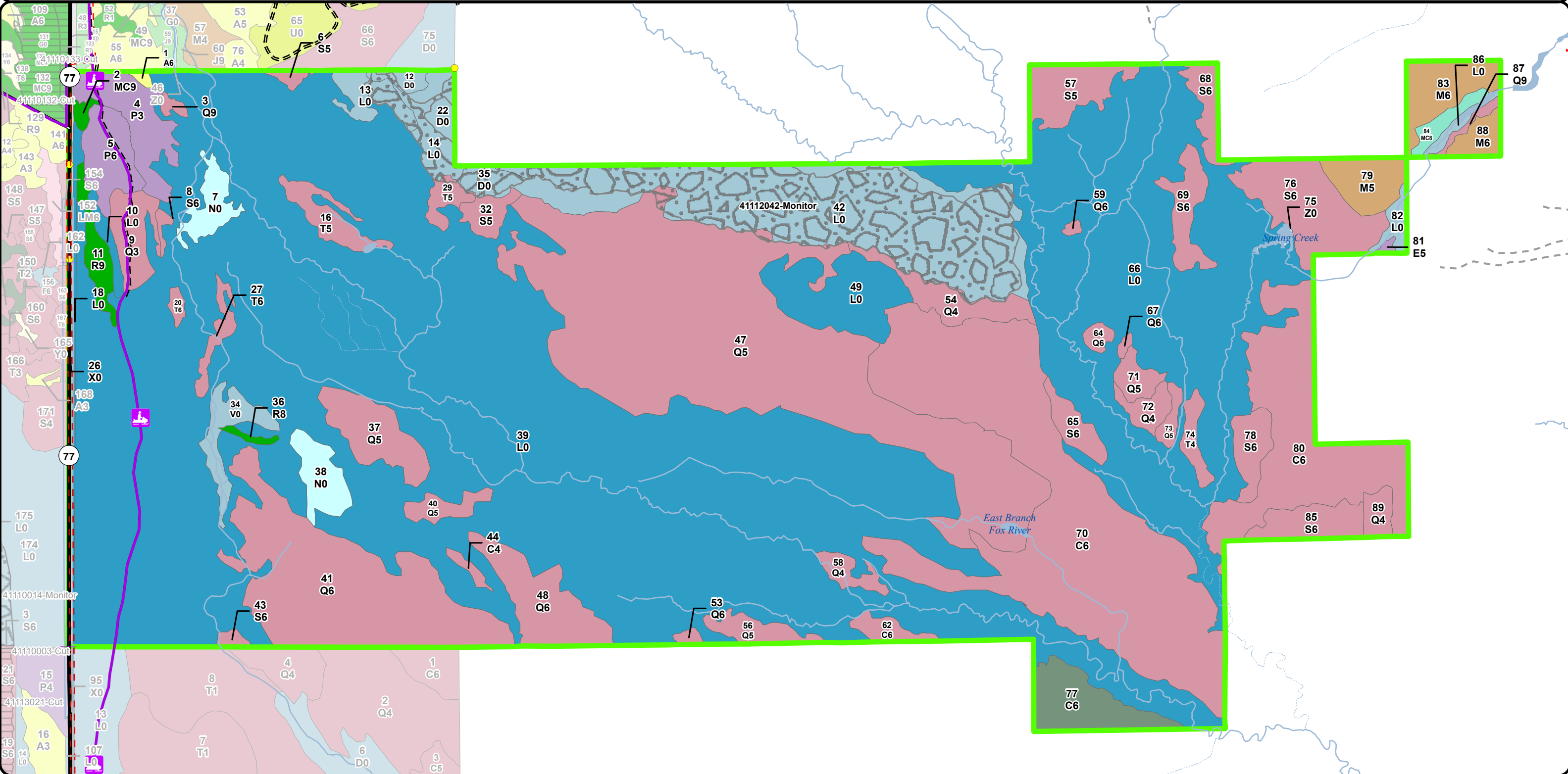
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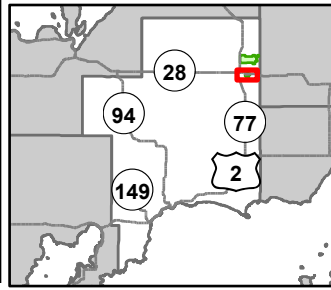


- Survey Grade Corners
- Federal / State Highway
- Compartment Boundary
- 612 - Lowland Coniferous Forest
- Remonumented Section Corners
- County - Dirt Road (Seasonal)
- Regeneration Survey
- 110 - Low Intensity Urban
- Snowmobile Trails
- Private - Dirt / Gravel Road
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- Intermittent Pond
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- DNR - Primary Forest Road
- Lakes and Rivers
- 611 - Lowland Deciduous Forest
- DNR - Forest Access Route

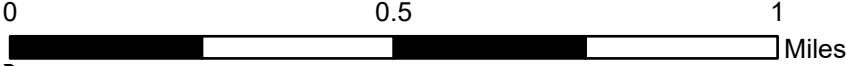




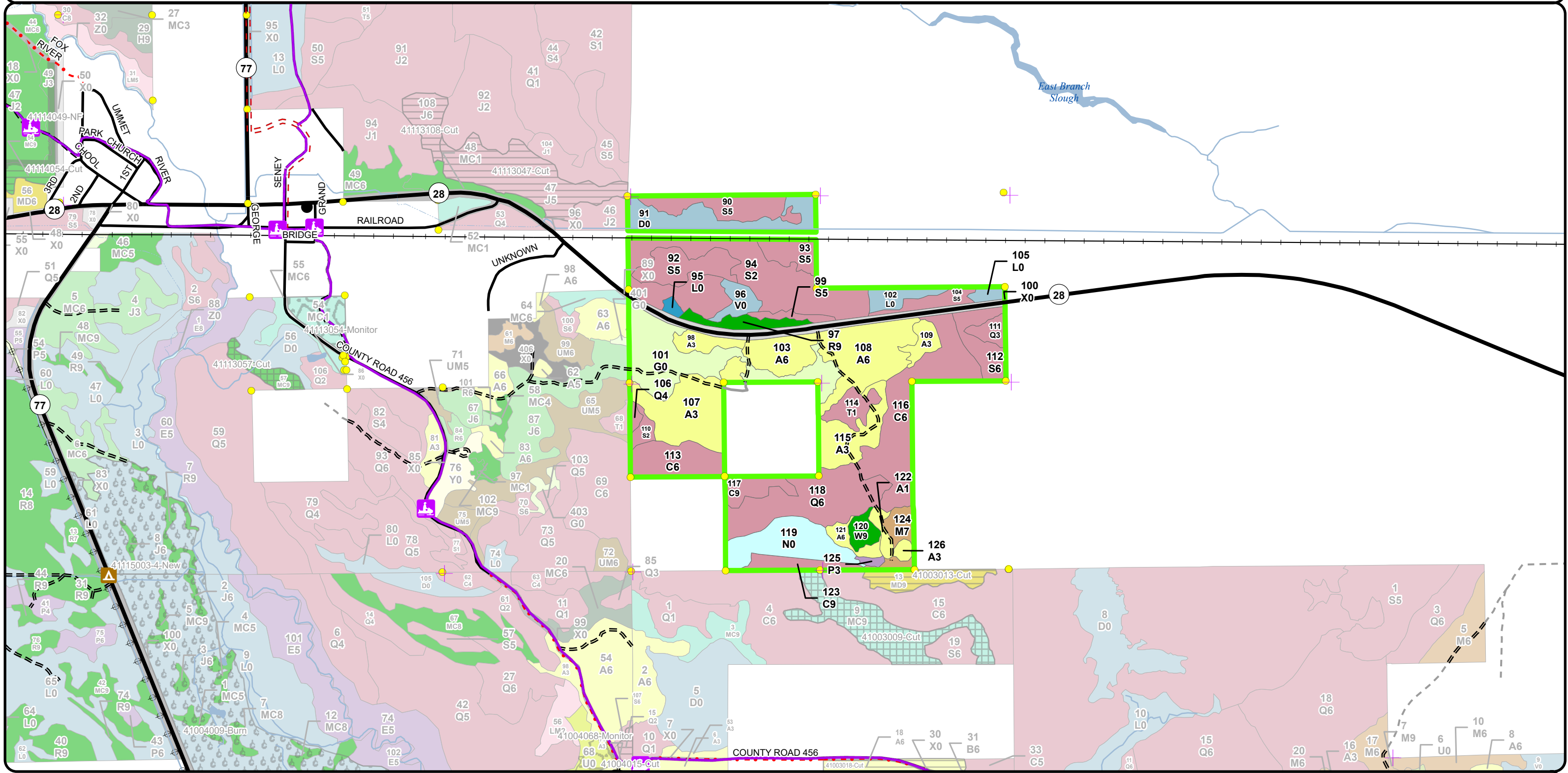
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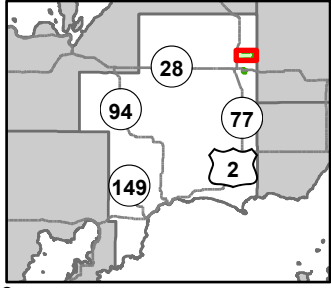
- |                              |                                       |                      |                                  |
|------------------------------|---------------------------------------|----------------------|----------------------------------|
| Campground                   | Federal / State Highway               | Lake/Pond            | 611 - Lowland Deciduous Forest   |
| City                         | Federal / State / County - Paved Road | Perennial River      | 612 - Lowland Coniferous Forest  |
| Survey Grade Corners         | County - Gravel Road                  | Lakes and Rivers     | 110 - Low Intensity Urban        |
| Remonumented Section Corners | Private - Paved Road                  | Powerline            | 310 - Herbaceous Openland        |
| Snowmobile Trails            | Private - Dirt / Gravel Road          | Compartment Boundary | 411 - Northern Hardwood          |
| Designated ORV Routes        | Active Railroads                      | 413 - Aspen Types    | 622 - Lowland Shrub              |
| Designated Snowmobile Trails | Intermittent Stream                   | 422 - Natural Pines  | 623 - Emergent Wetland           |
| DNR - Forest Access Route    | Island in Lake or River               |                      | 629 - Mixed Non-forested Wetland |





Stand Boundary Map

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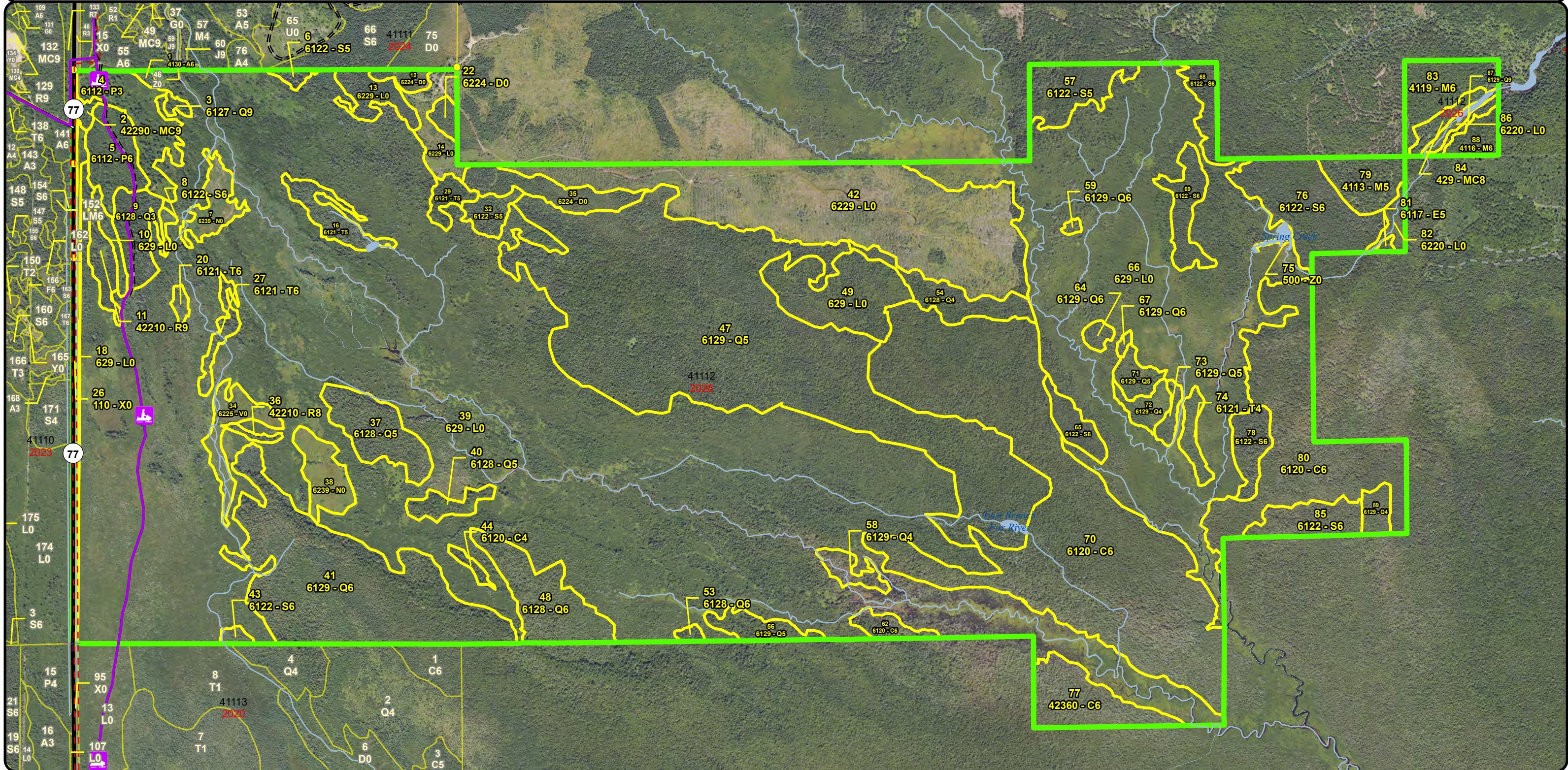


0 0.5 1 Miles

- Survey Grade Corners
- + Remonumented Section Corners
- Snowmobile Trails
- = Designated ORV Routes
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- = = = DNR - Forest Access Route
- Federal / State Highway
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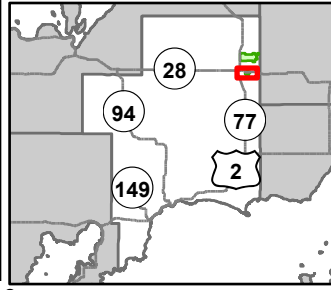
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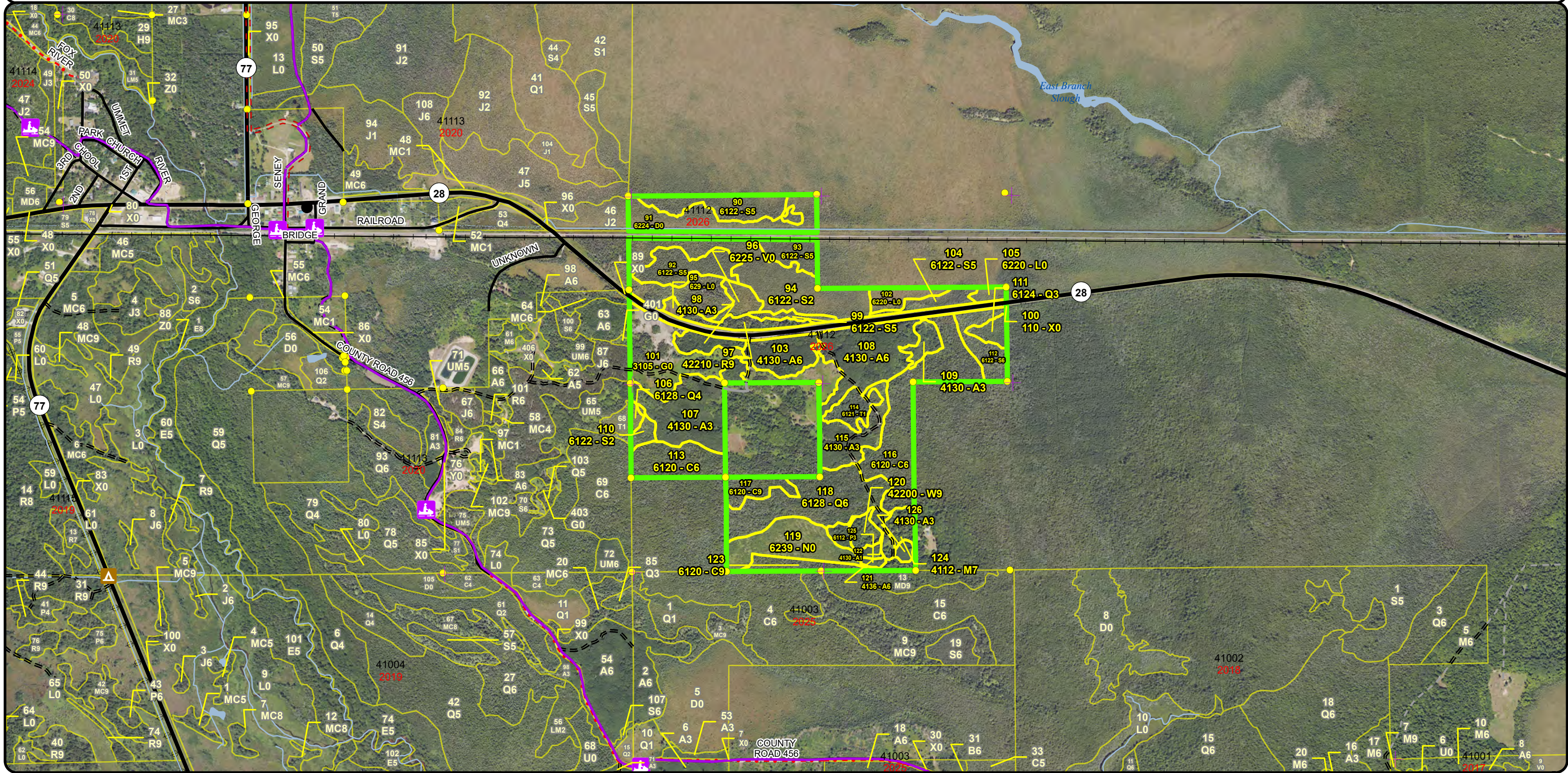


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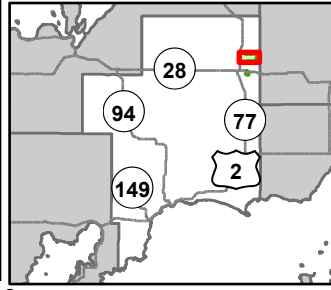
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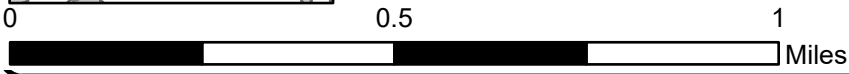




**Special Conservation Areas & Site Conditions Map**



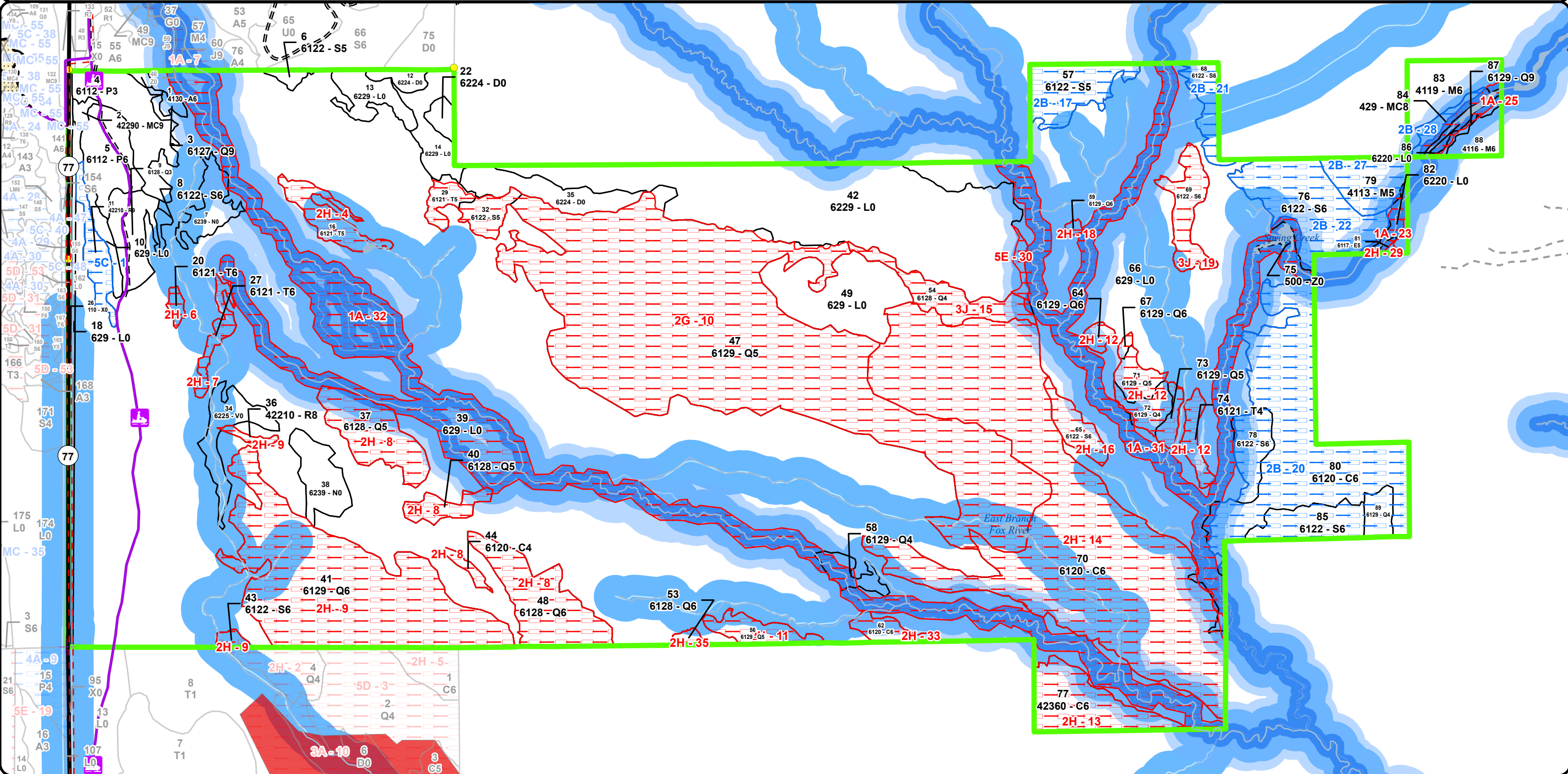
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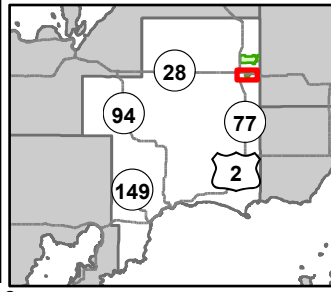
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- SCA SCA
- Available w/ Constraints
- Unavailable

- 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
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Sand or Gravel Pit

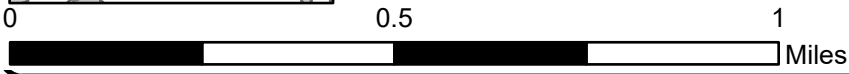




# Special Conservation Areas & Site Conditions Map



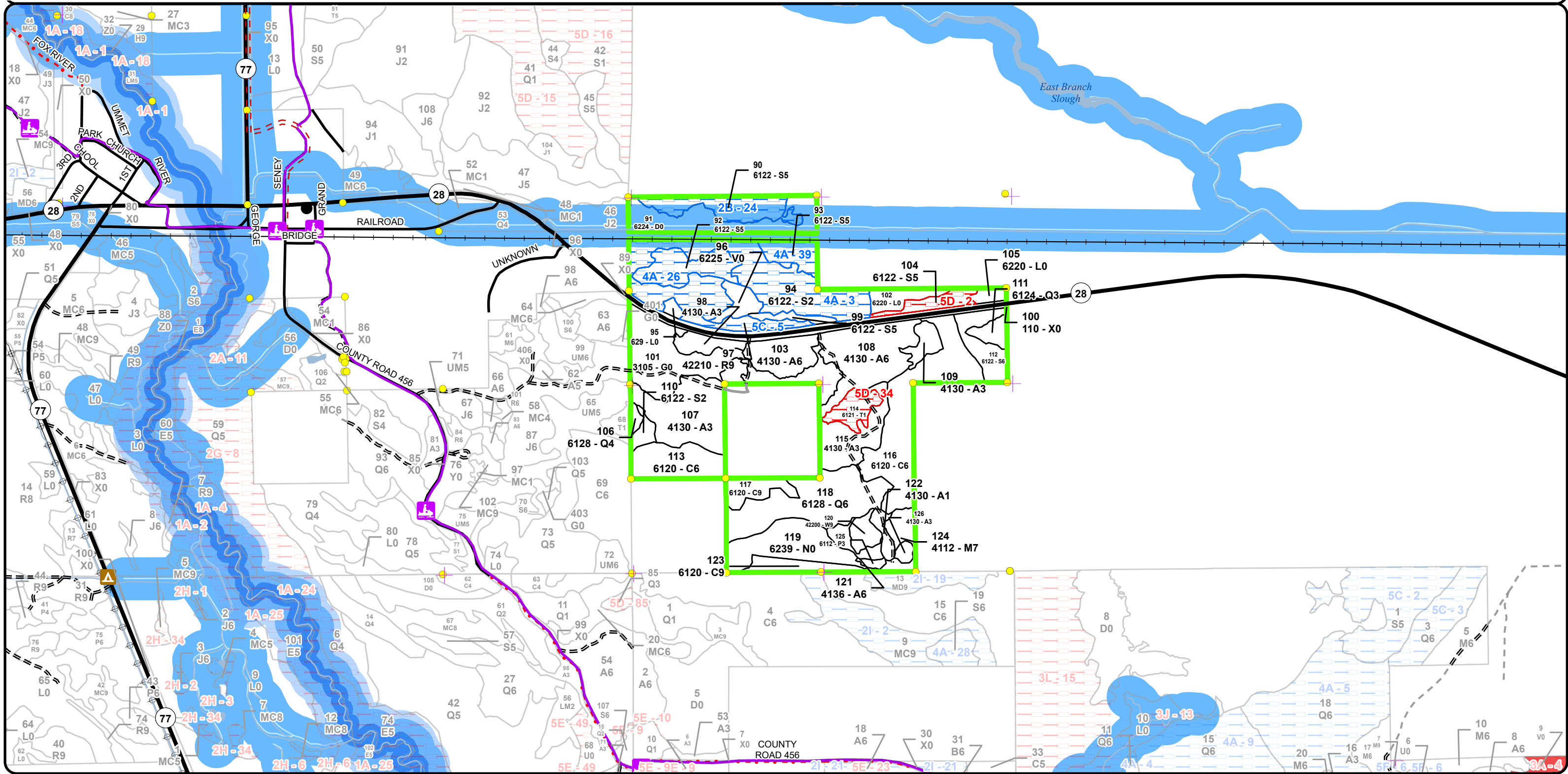
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- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints

- Unavailable
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- 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	0	9	42	0	39	0	0	0	0	0	0	0	0	0	0	0	0	90
Bog	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Cedar	0	0	0	0	0	0	0	0	0	0	53	90	0	8	0	267	0	0	417
Herbaceous Openland	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Aspen/Balsam Poplar	0	0	26	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Lowland Conifers	0	0	0	0	19	28	0	0	6	2	341	31	10	145	0	11	0	0	591
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Lowland Shrub	1790	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1789
Lowland Spruce/Fir	0	0	0	3	0	0	0	0	18	46	159	0	0	0	0	0	0	2	228
Marsh	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	0	28	6	16	0	0	0	0	0	0	0	50
Red Pine	0	0	0	0	0	0	0	0	0	6	10	0	0	0	2	0	0	0	18
Tamarack	0	0	0	0	0	0	0	6	0	0	12	12	9	0	0	0	0	0	38
Treed Bog	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Urban	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
<b>Total</b>	<b>1952</b>	<b>0</b>	<b>35</b>	<b>45</b>	<b>38</b>	<b>67</b>	<b>0</b>	<b>6</b>	<b>52</b>	<b>60</b>	<b>594</b>	<b>133</b>	<b>29</b>	<b>153</b>	<b>2</b>	<b>278</b>	<b>0</b>	<b>2</b>	<b>3440</b>





## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 112  
Total Compartment Acres: 3,441

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

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	164	0	0	164
Total	0	0	0	0	0	0	164	0	0	164





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

<b>42</b>	<b>41112042-Monitor</b>	164.0	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> check</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> All lowland conifers are acceptable regeneration.</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 /2033</p>											

**Total Treatment Acreage Proposed: 164**





Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions										
		With Condition				2B	4A	5C	1A	2G	2H	3J	5D	5E		
89	89	0	0	0	Aspen											
18	18	0	0	0	Bog											
417	59	89	270	270	Cedar	89			2		268					
30	30	0	0	0	Herbaceous Openland											
45	45	0	0	0	Lowland Aspen/Balsam Poplar											
592	58	6	528	528	Lowland Conifers	6			5	297	209	17			0	
1	0	0	1	1	Lowland Deciduous				1		0					
1790	1529	0	261	261	Lowland Shrub	0			258		1					3
228	18	170	40	40	Lowland Spruce/Fir	107	63		3	7	11	14	5			
43	43	0	0	0	Marsh				0							
2	2	0	0	0	Natural Mixed Pines											
50	34	16	1	1	Northern Hardwood	16			1							
17	0	16	2	2	Red Pine			16			2					
39	1	0	38	38	Tamarack					5	27		6			
43	43	0	0	0	Treed Bog											
6	0	4	2	2	Upland Conifers	4			2							
25	25	0	0	0	Urban											
1	0	0	1	1	Water				1							
4	4	0	0	0	White Pine											
3,441	1,997	300	1,145	1,145	Total Forested Acres	221	63	16	272	310	518	31	11		3	
	58%	9%	33%		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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 112  
 Year of Entry: 2026



2	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 112  
 Year of Entry: 2026



8	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	64	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	118	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	310	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	28	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
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Compartment: 112  
Year of Entry: 2026



13	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	27	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	234	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	20	2I: Survey needed	2E: Road needed	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	1	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 112  
Year of Entry: 2026



19	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	14	2E: Road needed	<b>Unspecified</b>	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	121	2E: Road needed	<b>2I: Survey needed</b>	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	10	2D: Portable Bridge Needed (Dept. bridge will be adequate)	<b>2I: Survey needed</b>	2E: Road needed	Unspecified
<b>Comments:</b>							
22	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	37	2E: Road needed	<b>2I: Survey needed</b>	Unspecified	Unspecified
<b>Comments:</b> Also a 3J - option not showing in dropdown							
23	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	5	Unspecified	<b>Unspecified</b>	Unspecified	Unspecified
<b>Comments:</b> Fox River Natural river 100' zone.							
24	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	13	2E: Road needed	<b>Unspecified</b>	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 112  
Year of Entry: 2026



25	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River natural river 100' zone.							
26	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 41-20-16 Box Car Spruce had no bids. Sale terminated and site conditioned 4/6/2021.							
27	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	16	2I: Survey needed	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	2E: Road needed	Unspecified
<b>Comments:</b>							
28	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	4	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2I: Survey needed	2E: Road needed	Unspecified
<b>Comments:</b> Land locked							
29	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	0	1A: Federal/State/Local Law	2I: Survey needed	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> fox river buffer							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 112  
Year of Entry: 2026



31	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	92	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River Natural river 100' zone.							
32	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	168	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River Natural River 100' zone.							
33	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 41-20-16 Box Car Spruce had no bids. Sale terminated and site conditioned 4/6/2021.							

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.
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	4130 - Aspen	Poletimber Well	1.1	48	51-80	N/A	Cut in 1976																																									
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Red Maple	Medium	Variable	Sapling																																													
2	42290 - Natural Mixed Pine	Sawtimber Well	2.1	93	51-80	N/A	Residual red & white pine - reserved trees left when the aspen regen stand to the east was cut in 2009. The understory is a mix of aspen, maple and pine regen. The age of the overstory is based on inventory from 1986.																																									
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White Pine	Low	Variable	Sapling																																													
3	6127 - Lowland Pine	Sawtimber Well	1.8	80	1-50	N/A	White pine mix on a transitional site. This pocket was left when the mixed conifers to the west were harvested last entry.																																									
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4	6112 - Lowland Aspen	Sapling Well	24.6	15	Unspecified	N/A	This stand was cut in 2009 and is now fully stocked with aspen regeneration along with red maple saplings etc.																																									
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5	6112 - Lowland Aspen	Poletimber Well	19.1	36	1-50	N/A																																										
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6	6122 - Black Spruce	Poletimber Medium	2.3	98	51-80	N/A	Semi-open spruce.																																									
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7	6239 - Mixed Emergent Wetland	Nonstocked	11.1		Immature	No	Marsh with a mix of low shrubs, marsh grasses, etc.																																									





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
8	6122 - Black Spruce	Poletimber Well	1.5	88	51-80	N/A	Tamarack that died, most trees are snapped in 1/2. now black spruce																																													
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9	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	15.6	36	1-50	N/A	Mixed regen, cut in 1988. Pockets of larger pine were left and are still standing.																																													
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10	629 - Mixed non-forested wetland	Nonstocked	4.6			No	Mix of lowland shrubs & wet grass, with a few trees in small pockets.																																													
11	42210 - Natural Red Pine	Sawtimber Well	10.2	98	1-50	N/A	Natural stand of large red pine with a few white pine and scattered spruce. The understory is a mix of spruce, fir and white pine.																																													
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12	6224 - Treed Bog	Nonstocked	4.2		Unspecified	No	Boggy area featuring marsh grass and submerchantable trees.																																													
13	6229 - Mixed lowland shrub	Nonstocked	11.3	0	Unspecified	612 - Lowland Coniferous Forest	TS: Sprucezilla units 1-3. TCR: 9/29/2020 west edge of stand was left uncut.																																													
14	6229 - Mixed lowland shrub	Nonstocked	14.3	0	Unspecified	612 - Lowland Coniferous Forest	TS: Sprucezilla units 1-3. TCR: 9/29/2020. North edge of stand was left uncut because of sub merchantable trees.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
16	6121 - Tamarack	Poletimber Medium	12.3	104	81-110	N/A	Tamarack etc. out in an inaccessible area		
<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>
Tamarack		70	Log/Pole	10	104	Deciduous Shrubs	Medium	Variable	Tall Shrub
Black Spruce		15	Pole/Log/Sap	9					
White Pine		15	Log/Pole	14					
18	629 - Mixed non-forested wetland	Nonstocked	7.1		Unspecified	No	Low, wet area along Highway M-77, including much of the R.O.W.		
20	6121 - Tamarack	Poletimber Well	2.1	110	81-110	N/A	Pocket of tamarack poles out in the Non-forested lowland complex		
<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>
Balsam Fir		5	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Tamarack		80	Pole	8	110	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		15	Pole	8		Black Spruce	Low	Variable	Sapling
22	6224 - Treed Bog	Nonstocked	3.8		Unspecified	No	Bog featuring marsh grass, low shrubs and submerchantable conifers.		
26	110 - Low Intensity Urban	Nonstocked	10.6		Unspecified	No	State Highway M-77 and R.O.W.		
27	6121 - Tamarack	Poletimber Well	6.4	110	51-80	N/A	Tamarack etc. on slightly elevated but still wet ground.		
<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>
Balsam Fir		5	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Black Spruce		20	Pole/Log	8		Deciduous Shrubs	High	Variable	Tall Shrub
Tamarack		75	Log/Pole	10	110	Black Spruce	Low	Variable	Sapling
29	6121 - Tamarack	Poletimber Medium	6.1	97	1-50	N/A	Semi-open tamarack & black spruce -too wet for operability.		
<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>
Tamarack		80	Pole	7	97	Tag Alder	Medium	Variable	Tall Shrub
Black Spruce		20	Pole	7		Black Spruce	Low	Variable	Sapling
32	6122 - Black Spruce	Poletimber Medium	7.4	98	51-80	N/A	Semi-open black spruce & tamarack - too wet for operability.		
<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>
Balsam Fir		5	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Black Spruce		60	Pole	7	98	Black Spruce	Low	Variable	Sapling
Tamarack		35	Pole	8		Tag Alder	Medium	Variable	Tall Shrub
34	6225 - Bog	Nonstocked	13.4		Unspecified	No	Open marsh with light brush/marsh grasses along a branch of the Fox River.		
35	6224 - Treed Bog	Nonstocked	17.6		Unspecified	No	Scattered submerchantable conifers and low shrubs in a boggy wetland area.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>36</b>	42210 - Natural Red Pine	Sawtimber Medium	1.7	130	81-110	N/A	Small upland ridge of natural red pine. Age variation is present. Some white pine and spruce are also present.																																														
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<b>37</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	23.6	104	51-80	N/A	Semi-open stand of slow-growing timber on wet ground - inaccessible across the non-timbered lowlands.																																							
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<b>38</b>	6239 - Mixed Emergent Wetland	Nonstocked	14.0		Unspecified	No	open area w/low shrubs and marsh grass
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<b>39</b>	629 - Mixed non-forested wetland	Nonstocked	1,198.2		Unspecified	No	Huge non-forested lowland complex featuring lowland brush, open marshland, treed and open bogs, and numerous pockets of semi-open timber too small to map as separate stands. The Fox River , including the spreads, flow through this stand, and a heavily-used snowmobile trail runs through the west side of it (just east of Highway M-77) from south to north. Most areas are virtually inaccessible due to the excessively wet terrain.
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<b>40</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.2	104	51-80	N/A	Semi-open stand of slow-growing timber on wet ground - inaccessible across the non-timbered lowlands.																																		
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41	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	113.8	122	81-110	N/A	Slow-growing timber on wet ground - inaccessible across the non-timbered lowlands. Uneven-aged characteristics evident due to natural disturbances.																																																													
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43	6122 - Black Spruce	Poletimber Well	2.0	122	51-80	N/A	Slow-growing timber on wet ground - inaccessible across the non-timbered lowlands. Uneven-aged characteristics evident due to natural disturbances.																																																													
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44	6120 - Lowland Cedar	Poletimber Poor	2.3	127	51-80	N/A	Open lowland mix on slightly elevated ground																																																													
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47	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	300.4	98	51-80	N/A	Slow-growing lowland mix on rolling terrain. Site indices, stand density and overall timber quality vary tremendously with slight elevation changes. Some age class variability is due to natural disturbances is also present. The age given here matches the adjacent spruce to the north. In some areas the site index appears to be too low for commercial timber management. Numerous unmapped drainages and low, excessively wet areas suggest that operability in this area would be extremely challenging.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**48** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 30.7 127 51-80 N/A Wet area supporting a mix of lowland timber. Although the stand composition and density vary considerably, cedar is the most prevalent species. Access for management would be extremely difficult across the marsh and/or private lands.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Pole/Log	10		Deciduous Shrubs	Medium	Variable	Tall Shrub
Black Ash	10	Pole/Log	10					
Red Maple	5	Pole	6					
Balsam Poplar	10	Log/Pole	10					
Northern White Cedar	40	Log/Pole	10	127				
Paper Birch	10	Pole/Log	10					
Balsam Fir	5	Pole	6					

**49** 629 - Mixed non-forested wetland Nonstocked 37.6 Unspecified No Low, wet ground. Most of the area supports a mix of marsh, lowland shrubs and a few scattered conifers.

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low		Sapling
Northern White Cedar	Low		Sapling
Balsam Fir	Low		Sapling
Tag Alder	Medium		Tall Shrub

**53** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 1.6 145 51-80 N/A Slow-growing conifer mix on wet ground. Access is improbable across the non-forested wetlands.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	30	Pole	8	145	Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		Black Ash	Low	Variable	Sapling
Tamarack	22	Log/Pole	10		Deciduous Shrubs	Medium	Variable	Tall Shrub
Black Spruce	20	Pole	6					
White Pine	3	Log/Pole	12					
Black Ash	10	Pole/Sap/Log	8					
Red Maple	5	Pole/Sapling	6					

**54** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Poor 17.3 98 1-50 N/A Low wet area supporting a semi-open mix of trees and brush, and a drainage channel runs through the stand. Operability is highly questionable. Site indices for the various tree species appear to be low but extremely variable throughout. BMP issues throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	25	Pole/Sapling	7	98	Black Spruce	Low	Variable	Pole
Northern White Cedar	25	Pole/Sapling	6		Deciduous Shrubs	Medium	Variable	Tall Shrub
Tamarack	25	Pole/Sapling	7		Tag Alder	Medium	Variable	Tall Shrub



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<b>56</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	9.4	145	1-50	N/A	Semi-open mix of slow-growing lowland conifers - definite age-class diversity. Site indices are generally low but appear to vary quite a bit. Too wet - operability is questionable at best, and access is all but impossible.																																																													
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<b>57</b>	6122 - Black Spruce	Poletimber Medium	19.9	94	51-80	N/A	Lowland black spruce. Access across private lands will be required to reach this timber.																																																													
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<b>58</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	6.5	110	1-50	N/A	Semi-open lowland conifers on rolling terrain near the East Branch Fox River, Access is highly improbable across the non-forested wetlands, and there is a branch of the Fox River system through this stand.																																																													
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<b>59</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	1.0	94	Unspecified	N/A	Slow-growing conifers. Completely inaccessible across non-forested lowlands and waterways; the timber value would not justify the efforts.																																																													
<b>62</b>	6120 - Lowland Cedar	Poletimber Well	6.2	145	111-140	N/A	Virtually no access without a tremendous road-building project.																																																													
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<b>64</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	2.9	94	Unspecified	N/A	Slow-growing conifers. Completely inaccessible across non-forested lowlands and waterways; the timber value would not justify the efforts.																																																													





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<b>65</b>	6122 - Black Spruce	Poletimber Well	9.0	75	51-80	N/A	Slow-growing spruce mix. BMP issues may exist, with the potential to limit operability.																																																																																			
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<b>66</b>	629 - Mixed non-forested wetland	Nonstocked	352.2		Unspecified	No	Large expanse of heavy lowland brush that includes numerous small pockets of timber, mash etc. that are too small to map separately. A network of streams and drainages (Cold and Spring Creeks) run through the stand.																																																																																			
<b>67</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	1.0	94	Unspecified	N/A	Slow-growing conifers.																																																																																			
<b>68</b>	6122 - Black Spruce	Poletimber Well	10.0	95	81-110	N/A																																																																																				
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<b>69</b>	6122 - Black Spruce	Poletimber Well	14.1	98	81-110	N/A																																																																																				
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<b>70</b>	6120 - Lowland Cedar	Poletimber Well	233.9	145	81-110	N/A	Large cedar stand with numerous inclusions of mixed lowland conifers. The East Branch Fox River flows through the south end of the stand, and Cold creek is to the east of the stand; numerous drainages flow into both of these waterways. Unevenaged characteristics are evident.																																																																																			
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<b>71</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	6.9	94	Unspecified	N/A	Slow-growing conifers.																																																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	6.9	94	Unspecified	N/A	Slow-growing, semi-open conifers and lots of lowland brush.
73	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	3.8	94	Unspecified	N/A	Slow-growing conifers.
74	6121 - Tamarack	Poletimber Poor	6.4	94	Unspecified	N/A	Slow-growing, semi-open tamarack with a few spruce etc. mixed in. Completely inaccessible across non-forested lowlands and waterways; the timber value would not justify the efforts.
75	500 - Water	Nonstocked	1.0		Unspecified	No	pond - part of Spring Creek

76	6122 - Black Spruce	Poletimber Well	39.4	95	81-110	N/A	Some age class variation is becoming evident due to natural disturbances.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Black Ash					2	Pole/Sapling	6		Black Spruce				Medium	Variable	Sapling
Paper Birch					2	Pole	7		Balsam Fir				Medium	Variable	Sapling
Balsam Fir					3	Pole/Sapling	6		Northern White Cedar				Medium	Variable	Sapling
Northern White Cedar					15	Pole	8		Deciduous Shrubs				Medium	Variable	Tall Shrub
Tamarack					10	Log/Pole	10		Black Ash				Medium	Variable	Sapling
Black Spruce					68	Pole/Log	9	95	Red Maple				Low	Variable	Sapling

77	42360 - Upland Cedar	Poletimber Well	26.5	145	81-110	N/A	Lowland cedar - wet ground.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Tamarack					10	Log/Pole	12		Tag Alder				Medium	Variable	Tall Shrub
Northern White Cedar					70	Log/Pole	10	145	Northern White Cedar				Medium	Variable	Sapling
Black Ash					5	Pole	6								
Black Spruce					10	Log/Pole	10								
Paper Birch					5	Pole	6								

78	6122 - Black Spruce	Poletimber Well	11.5	94	81-110	N/A	Lowland black spruce with tamarack & cedar throughout.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Black Spruce					65	Pole	8	94	Northern White Cedar				Low	Variable	Sapling
Tamarack					15	Pole/Log	9		Black Spruce				Medium	Variable	Sapling
Northern White Cedar					20	Pole/Sapling	6		Balsam Fir				Medium	Variable	Sapling
									Deciduous Shrubs				Medium	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**79**      4113 - R.Maple, Conifer      Poletimber Medium      16.3      95      51-80      N/A      Mixed stand (primarily red maple) on a rolling, transitional site.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	3	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Red Maple	67	Pole/Log	9	95	Red Maple	Medium	Variable	Sapling
Balsam Fir	10	Pole	8					
Paper Birch	4	Pole/Log	9					
White Spruce	10	Log/Pole	10					
Yellow Birch	2	Log/Pole	10					
White Pine	2	Log/Pole	12					
Black Ash	2	Pole/Sapling	6					

**80**      6120 - Lowland Cedar      Poletimber Well      89.9      106      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole	6		Conifers	Low	Variable	Sapling
Black Spruce	5	Log/Pole	10		Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar	80	Pole/Log	9	106				
Black Ash	3	Pole/Sapling	5					
Tamarack	5	Log/Pole	10					
Paper Birch	4	Log/Pole	9					

**81**      6117 - Lowland Deciduous, Mixed Coniferous      Poletimber Medium      0.9      95      51-80      N/A      Mixed stand on a transitional site.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	8		Red Maple	High	Variable	Sapling
White Spruce	10	Log/Pole	12		Balsam Fir	High	Variable	Sapling
Yellow Birch	3	Log/Pole	10					
Paper Birch	5	Pole/Sapling	7					
Northern White Cedar	5	Pole/Sapling	6					
Balsam Fir	20	Pole	8					
Quaking Aspen	10	Log/Pole	12					
Red Maple	40	Pole	8	95				
Black Ash	2	Pole	6					

**82**      6220 - Alder/willow      Nonstocked      5.0      Unspecified      No      Lowland brush along Spring Creek





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**83** 4119 - Mixed Northern Hardwoods Poletimber Well 20.5 70 81-110 N/A Mostly hardwood poles w/conifers scattered throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Pole	7		Red Maple	Medium	Variable	Sapling
Yellow Birch	5	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Red Maple	40	Pole/Log	9	70	Sugar Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	7					
White Spruce	10	Pole/Log	9					
Quaking Aspen	12	Log/Pole	12					
White Pine	3	Log/Pole	10					

**84** 429 - Mixed Upland Conifers Sawtimber Medium 6.0 113 51-80 N/A Conifer mix on gently sloping ground above Spring Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	45	Log/Pole	14	113	Balsam Fir	Medium	Variable	Sapling
Hemlock	5	Log/Pole	10		White Pine	Medium	Variable	Sapling
White Spruce	20	Pole/Log	12		Deciduous Shrubs	Medium	Variable	Tall Shrub
Balsam Fir	10	Pole	7		Red Maple	Medium	Variable	Sapling
Red Maple	20	Pole/Log	12					

**85** 6122 - Black Spruce Poletimber Well 15.4 94 81-110 N/A Spruce with tamarack & cedar mixed in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Pole	8		Northern White Cedar	Low	Variable	Sapling
Tamarack	15	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Black Spruce	70	Pole/Log	9	94	Deciduous Shrubs	Medium	Variable	Tall Shrub
					Black Spruce	Medium	Variable	Sapling

**86** 6220 - Alder/willow Nonstocked 3.4 Unspecified No

**87** 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 2.6 113 51-80 N/A Conifer mix on sloping ground above Spring Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	Log/Pole/XLog	15	113	White Pine	Low	Variable	Sapling
Hemlock	10	Log/Pole	10		Red Maple	High	Variable	Sapling
White Spruce	20	Log/Pole	12		Hemlock	Low	Variable	Sapling
Balsam Fir	15	Pole	7		Balsam Fir	High	Variable	Sapling
Red Maple	15	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
<b>88</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	7.6	70	51-80	N/A	Hardwood/conifer mix on a transitional site. Unevenaged characteristics are becoming evident, but the age shown here represents the shade-intolerant spp. present in the stand.																																											
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<b>89</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	5.8	70	1-50	N/A	Mixed conifer stand still emerging from the lowland brush cover. This area was cut, but no records for that exist; the land was acquired in 1939. It appears to have reverted back to low brush, and the age shown is just a rough guess of when the small poles/saps began to get established. Age variability is present but too difficult to classify right now.																																											
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<b>90</b>	6122 - Black Spruce	Poletimber Medium	13.1	93	1-50	N/A	Lowland conifer mix - relatively slow-growing, but ready to cut. Pockets of submerchantable timber/lowland brush are present on the wettest areas.																																											
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<b>91</b>	6224 - Treed Bog	Nonstocked	17.5			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>Black Spruce</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Pole</td> </tr> <tr> <td>Tamarack</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Pole</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Medium	10 - 20 feet	Pole	Tamarack	Medium	5 - 10 feet	Pole																															
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<b>92</b>	6122 - Black Spruce	Poletimber Medium	11.8	93	51-80	N/A	Slow-growing black spruce. The stand is fully-stocked but numerous stems are still submerchantable due to the low, wet terrain.																																											
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<b>93</b>	6122 - Black Spruce	Poletimber Medium	6.7	93	1-50	N/A	Slow-growing black spruce. The stand is fully-stocked but numerous stems are still submerchantable due to the low, wet terrain.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
94	6122 - Black Spruce	Sapling Medium	44.4	89	1-50	N/A	Wet area. The timber is comprised of a mix of slow-growing conifer regeneration and a few poles. This stand is semi-open in places but is generally forested throughout.																																						
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95	629 - Mixed non-forested wetland	Nonstocked	1.2			No																																							
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96	6225 - Bog	Nonstocked	4.7			No																																							
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97	42210 - Natural Red Pine	Sawtimber Well	5.5	89	81-110	N/A	Red pine mix along the highway, on a narrow ridge above the lowlands.																																						
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98	4130 - Aspen	Sapling Well	4.7	27	Immature	N/A	Young aspen - stand was cut in 1996.																																						
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99	6122 - Black Spruce	Poletimber Medium	2.6	93	1-50	N/A	Very slow-growing black spruce mix. Several age classes are present, but overall site indices appear to be too low for commercial management. Most of the spruce are either barely merchantable or the diameter is still too small.																																						
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100	110 - Low Intensity Urban	Nonstocked	14.6		Unspecified	No	State Highway M-28 and R.O.W.																																						
101	3105 - Mixed Upland Herbaceous	Nonstocked	30.5			No																																							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**102** 6220 - Alder/willow Nonstocked 5.3 No

**103** 4130 - Aspen Poletimber Well 10.6 47 51-80 N/A Aspen pole stand - mostly bigtooth.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	90	Pole	5	47	Deciduous Shrubs	Low	Variable	Tall Shrub
White Pine	5	Log/Pole	12		Red Maple	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	5					

**104** 6122 - Black Spruce Poletimber Medium 5.0 93 1-50 N/A Very slow-growing black spruce

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Black Spruce	75	Pole/Sapling	5	93	Black Spruce	High	Variable	Sapling
Tamarack	15	Pole/Sapling	6		Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir	5	Pole/Sapling	5					

**105** 6220 - Alder/willow Nonstocked 2.0 No

**106** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Poor 1.2 94 1-50 N/A Very slow-growing lowland mix.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	30	Pole	8	94	Tag Alder	High	Variable	Tall Shrub
Tamarack	20	Pole	8		Deciduous Shrubs	Medium	Variable	Tall Shrub
Black Spruce	7	Pole/Sapling	6					
Yellow Birch	3	Pole	6					
Paper Birch	5	Pole	7					
Balsam Fir	10	Pole/Sapling	6					
Balsam Poplar	5	Pole	8					
Red Maple	5	Pole/Sapling	6					
Black Ash	15	Pole	6					

**107** 4130 - Aspen Sapling Well 24.3 27 Immature N/A Young aspen on a transitional site - dryer on the north edge. Several open grassy areas too small to map are included.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling	4	27
Bigtooth Aspen	50	Sapling	4	27



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
<b>108</b>	4130 - Aspen	Poletimber Well	23.6	47	51-80	N/A	Bigtooth aspen																																																														
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<b>109</b>	4130 - Aspen	Sapling Well	4.2	13	Immature	N/A	Aspen regen - cut in 2011. A few residual white pine from the previous stand are present.																																																														
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<b>110</b>	6122 - Black Spruce	Sapling Medium	2.6	24	Immature	N/A	Cut in 2000.																																																														
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<b>111</b>	6124 - Lowland Spruce-Fir	Sapling Well	3.5	38	1-50	N/A	Lowland conifer regen.																																																														
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<b>112</b>	6122 - Black Spruce	Poletimber Well	9.0	76	81-110	N/A	Black spruce mix - cut next entry. Still a few spruce that are submerchantable and likely to stay that way.																																																														
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<b>113</b>	6120 - Lowland Cedar	Poletimber Well	13.4	94	81-110	N/A	Cedar/lowland conifer mix; semi-open in places.																																																														
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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>114</b>	6121 - Tamarack	Sapling Poor	5.8	60	1-50	N/A	Boggy kettle slowly filling in with slow-growing conifers. Site indices are extremely low - formerly classified as a bog, in reality a treed bog. Ground cover is low shrubs and marsh grass.
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	75	Sapling/Pole	4	60
Black Spruce	25	Sapling/Pole	4	

<b>115</b>	4130 - Aspen	Sapling Well	13.1	28	51-80	N/A	Mix of quaking & bigtooth aspen over balsam fir/red maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Sapling	3	28	Red Maple	Low	5 - 10 feet	Sapling
Quaking Aspen	50	Sapling	3	28	Balsam Fir	Low	< 5 feet	Sapling

<b>116</b>	6120 - Lowland Cedar	Poletimber Well	32.8	97	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	3	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
Yellow Birch	2	Pole/Log	9		Black Spruce	Low	Variable	Sapling
Paper Birch	2	Pole	7		Red Maple	Medium	Variable	Sapling
Northern White Cedar	67	Pole/Log	9	97	Deciduous Shrubs	Medium	Variable	Tall Shrub
Tamarack	10	Pole/Log	9		Black Ash	Medium	Variable	Sapling
White Pine	2	Log	14					
Black Spruce	10	Pole/Log	9					
Red Maple	2	Pole	6					
Hemlock	2	Log/Pole	10					

<b>117</b>	6120 - Lowland Cedar	Sawtimber Well	6.3	93	81-110	N/A	Cedar displaying age class diversity.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black Spruce	5	Log	12		Northern White Cedar	Medium	Variable	Sapling
Northern White Cedar	85	Log/Pole	12	93	Deciduous Shrubs	Medium	Variable	Tall Shrub
Tamarack	5	Log/Pole	12		Black Spruce	Medium	Variable	Sapling

<b>118</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	28.4	47	1-50	N/A	Lowland conifers cut in 1977.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	5		Red Maple	Medium	Variable	Sapling
Black Spruce	15	Sapling/Pole	4		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	25	Sapling/Pole	4		Tag Alder	Low	Variable	Tall Shrub
Red Maple	10	Pole/Sapling	6		Northern White Cedar	Medium	Variable	Sapling
Tamarack	25	Pole/Sapling	6	47	Balsam Fir	High	Variable	Sapling
Paper Birch	10	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>119</b>	6239 - Mixed Emergent Wetland	Nonstocked	17.8			No	<p>Cut in 2011 - regen survey results indicate the following: approximately 1/3 of the area has no acceptable regeneration. The other 2/3 is presently stocked with an average of 300 seedlings per acre; about 75% of the this is tamarack 1-2' tall. The other 25% consists of balsam poplar, aspen and seed-source red maple, with an occasional cedar thrown in. Some stump-sprouted red maple was observed but these were not included as acceptable regen.</p> <p>Lowland conifers on extremely wet sites like this one are notoriously slow to regenerate. At this time emergent vegetation such as cattails, marsh grass and various low shrubs are dominating the site. 2024: regen looks good Cedar are starting to show up in clumps and are 1ft to 3 foot tall. black spruce is growing as well but they're fewer in numbers. tamarack starting to fill in as well. stand is moderately stocked.</p>
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<b>120</b>	42200 - Natural White Pine	Sawtimber Well	3.8	113	81-110	N/A	Partially cut back in 1977, resulting in a 2-storied stand featuring large white pine and a few hemlock over a mix of younger, deciduous spp. including bigtooth aspen clones.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	6	47	White Pine	Low	Variable	Sapling
Yellow Birch	5	Pole/Log	8		Balsam Fir	High	Variable	Sapling
White Pine	50	XLog	18	113	Yellow Birch	Low	Variable	Sapling
Balsam Fir	10	Pole/Sapling	5		Red Maple	High	Variable	Sapling
Hemlock	5	Log/Pole	12					
White Pine	10	Pole/Sapling	6					

<b>121</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	3.5	47	51-80	N/A	Bigtooth aspen with scattered large pine left from the previous stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	70	Pole	7	47	Balsam Fir	Low	Variable	Sapling
Balsam Fir	4	Pole/Sapling	5		Red Maple	Low	Variable	Sapling
White Pine	4	Log	14					
Black Spruce	3	Sapling/Pole	4					
Red Maple	4	Pole/Sapling	5					
Red Pine	15	Log	14					

<b>122</b>	4130 - Aspen	Sapling Poor	2.7	10	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	10	Sapling	3	
Quaking Aspen	90	Sapling	2	10

<b>123</b>	6120 - Lowland Cedar	Sawtimber Well	6.0	122	111-140	N/A	Lowland cedar
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	15	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Black Spruce	15	Log/Pole	10		Deciduous Shrubs	Medium	Variable	Tall Shrub
Balsam Fir	5	Pole/Sapling	5		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	65	Log/Pole	10	122				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																							
<b>124</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	5.9	80	1-50	N/A	Thinned last entry																							
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<b>125</b>	6112 - Lowland Aspen	Sapling Well	1.0	13	Immature	N/A	Fully stocked with bigtooth aspen regeneration.																							
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<b>126</b>	4130 - Aspen	Sapling Well	1.4	13	Immature	N/A	Bigtooth aspen regen - cut in spring 2011.																							
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