



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41129

Entry Year 2027

Acreage: 2,322

County: Schoolcraft

Management Area: Grand Marais Moraine Complex

Stand Examiner: Scott Kentner

Legal Description:

T47N R14W Sections 19, 20, 21, 28, 29 and 30

Identified Planning Goals:

Management activities that coordinate multiple uses and benefits for the people of Michigan including recreation, timber production and protection/enhancement of wildlife habitat are desirable. Protection of the Fox River watershed per the Fox River Natural River Plan is mandated.

Soil and topography:

This area typically features rolling to hilly terrain, and most of this compartment is dry upland habitat on sandy soils including Rubicon sand and Proper fine sand. The lowland areas along the river flood plains, including the areas that support merchantable timber, are generally on much heavier loams and muck soils. Much of this compartment falls into either the PARV (white pine-red maple/blueberry) habitat type or one of its variants, or the PVE (white pine/blueberry-trailing arbutus) type. These types have the potential to produce jack, red and/or white pine timber, but generally will not produce quality wood products of other tree species. The deeper soils on the ridges, although still relatively dry, will produce considerably more volume per acre and better quality wood. This includes merchantable oak, bigtooth aspen and red maple. The habitat here is classified as PARVAa (white pine-red maple/blueberry-wild sasparilla). Without disturbance, red maple and white pine are likely to displace other species over time.

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

There is one private 40-acre parcel within this compartment. The compartment itself lies within a very large contiguous block of state-owned lands.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

The Fox River and Little Fox River form the eastern and western boundaries of this compartment, and flow together at its southern tip. Both are included in the Fox River Natural River Plan.

Watershed and Fisheries Considerations:

This compartment contains the Little Fox River and the Fox River. The Little Fox River and the Fox River are designated Type 1 trout streams less than 50-ft wide that have predicted mean July water temperatures of 60.6 and 61.2°F (cold streams), respectively. The Little Fox River and the Fox River are managed as 'wild-scenic' rivers under authority of the Natural Rivers Act (Part 305, P.A. 451 of 1994). 300-foot buffers are recommended for the Little Fox River and the Fox River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 200-ft, plus 5 feet per 1% increase in slope, riparian management zone is recommended for the Little Fox River and the Fox River to protect these areas in accordance with the Natural Rivers Act and Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies between the Little Fox River and the Fox River. Pre-settlement records show the forest in this area contained a mix of beech, white pine, red pine, red maple, yellow birch, and balsam fir. Spruce, hemlock, and mountain ash were also minor components of the local forests. Currently the eastern 1/3rd of the compartment consist of large openings, aspen, oak, red pine, and white pine. The central portion of the compartment contains primarily plantation red pine, while the western portion of the compartment is dominated by aspen and jack pine. Featured species in this compartment are Eastern bluebird, Kirtland's warbler, red crossbill, sharp-tailed grouse, spruce grouse, and upland sandpiper. Wildlife habitat objectives include maintaining the large opening complex, promoting aspen and oak regeneration and protecting the integrity of the Fox and Little Fox River Corridors.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist primarily of glacial outwash sand and gravel and postglacial alluvium with a minor amount of lacustrine sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subcrops below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. 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:

The Wagner-Taylor Dam Rd crosses the Little Fox River via a one-lane bridge on the southern edge of the compartment. Access to the rest of the area is generally good through the network of woods roads that connect to it.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Wagner-Taylor Dam Rd. is a designated snowmobile trail, and the Fox River Pathway follows the Little Fox River through the compartment. Several informal but regularly used campsites are found along the banks of both the Fox and Little Fox Rivers. No other developed recreational facilities exist in this compartment.

Fire Protection:

Jack pine is common throughout the compartment, but very few dense stands exist. The area generally features excessively-drained, sandy ground that is conducive to fire hazards throughout the summer months. Access for fire suppression is good throughout the compartment.

Additional Compartment Information:

Oak occurs in many of the timber stands here, and is managerially desirable for wildlife values. Treatments designed to maintain and regenerate oak should be implemented where possible, and have been successfully implemented in the recent past.

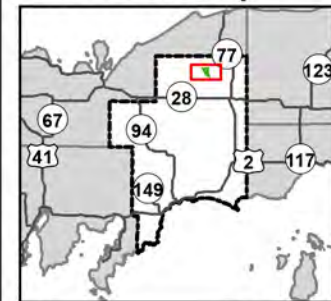
The following reports from the Inventory are attached:

- 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**

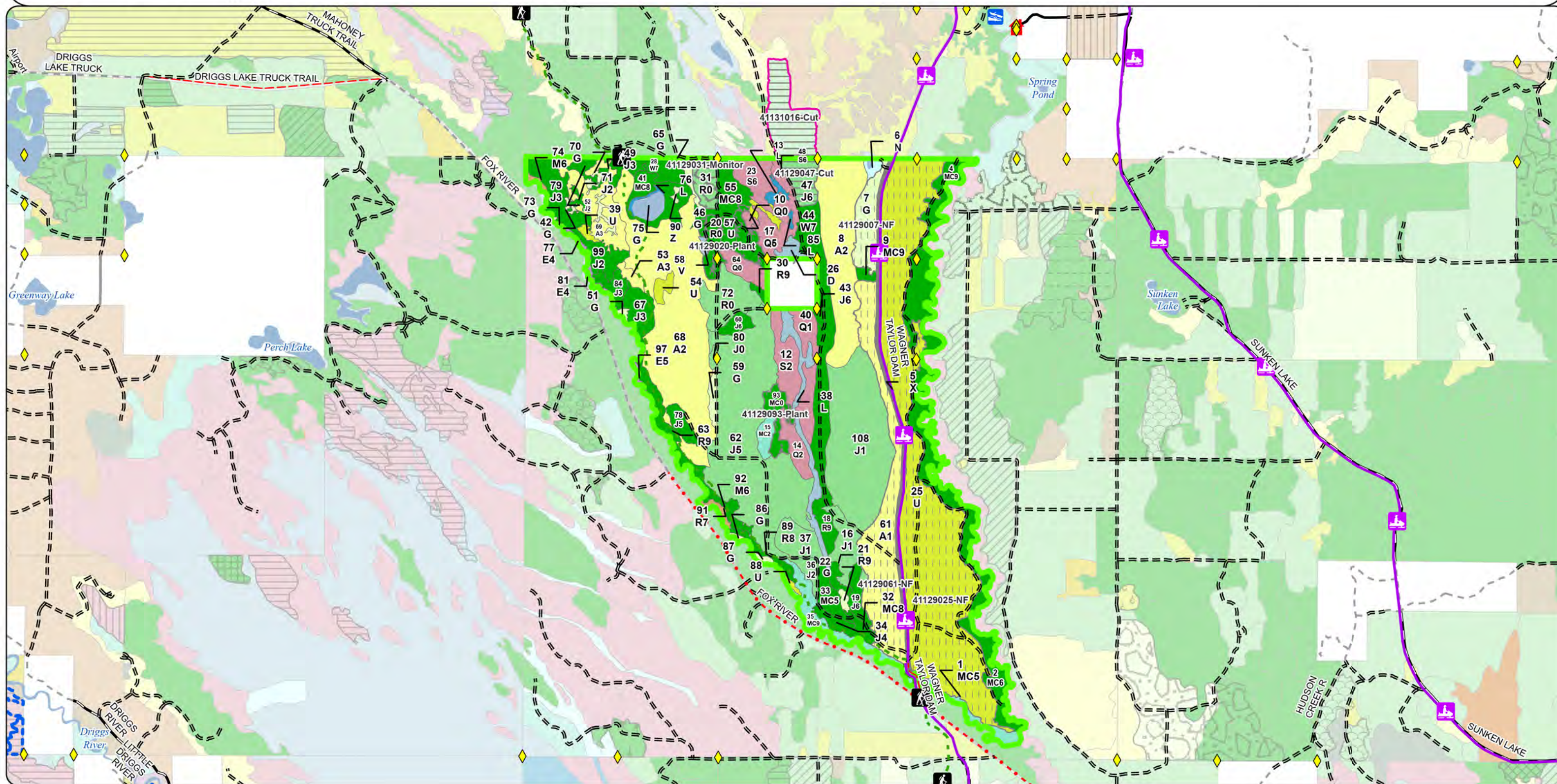
Cover Type & Treatments Map



Compartment: 41129
T47N, R14W, Sec: 19-21, 28-33
County: Schoolcraft
Unit: Shingleton
Mgmt. Area: Grand Marais Moraine Complex
YOE: 2027
Acres: 2,322 GIS Calculated
Examiner: Scott Kentner
Date Exported: 07/30/2025
Map Phase: Web Post


















- Survey Grade Corners
- Cabin
- Boating Access Site
- Designated Hiking Pathways
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut
- Planting (tree species)
- Openings Mgmt.
- Monitoring - Regeneration
- Clearcut (Outside Compartment)
- Treatments with Site Conditions

















- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland

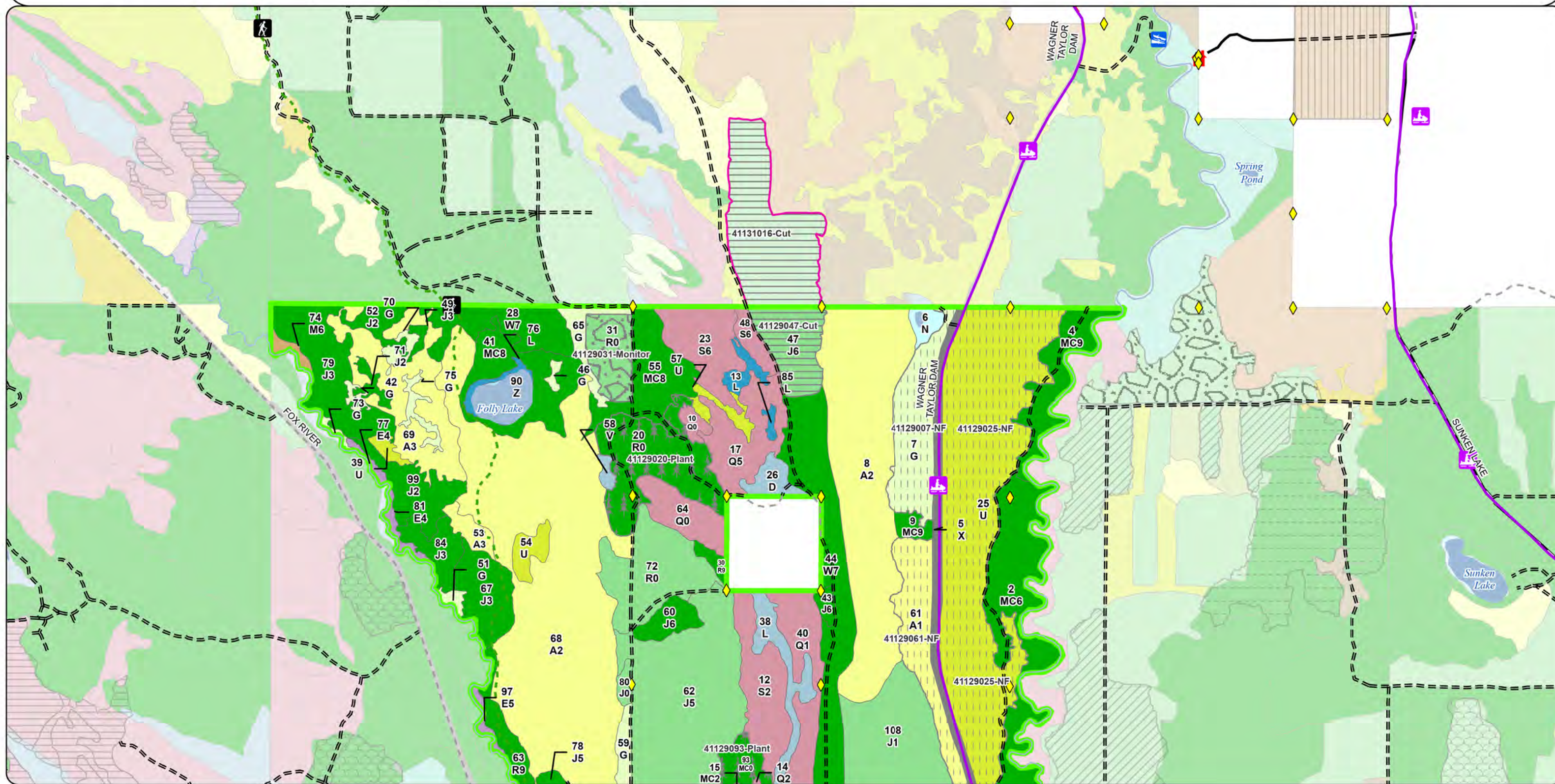




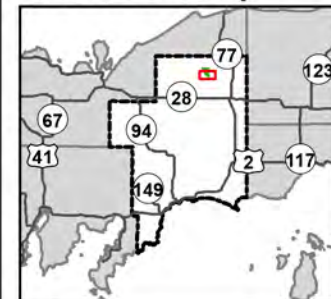
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|---|---------------------------------------|---|-------------------------------|
|  | Survey Grade Corners |  | County - Dirt Road (Seasonal) |
|  | Cabin |  | Private - Dirt / Gravel Road |
|  | Boating Access Site |  | Perennial River |
|  | Designated Hiking Pathways |  | Lakes and Rivers |
|  | Designated Snowmobile Trails |  | Counties |
|  | DNR - Primary Forest Road |  | Compartment Boundary |
|  | DNR - Forest Access Route |  | Clearcut |
|  | Federal / State / County - Paved Road |  | Planting (tree species) |
| | |  | Openings Mgmt. |

- | | | | |
|---|--------------------------------|---|----------------------------------|
|  | Monitoring - Regeneration |  | 612 - Lowland Coniferous Forest |
|  | Clearcut (Outside Compartment) |  | 122 - Road/Parking Lot |
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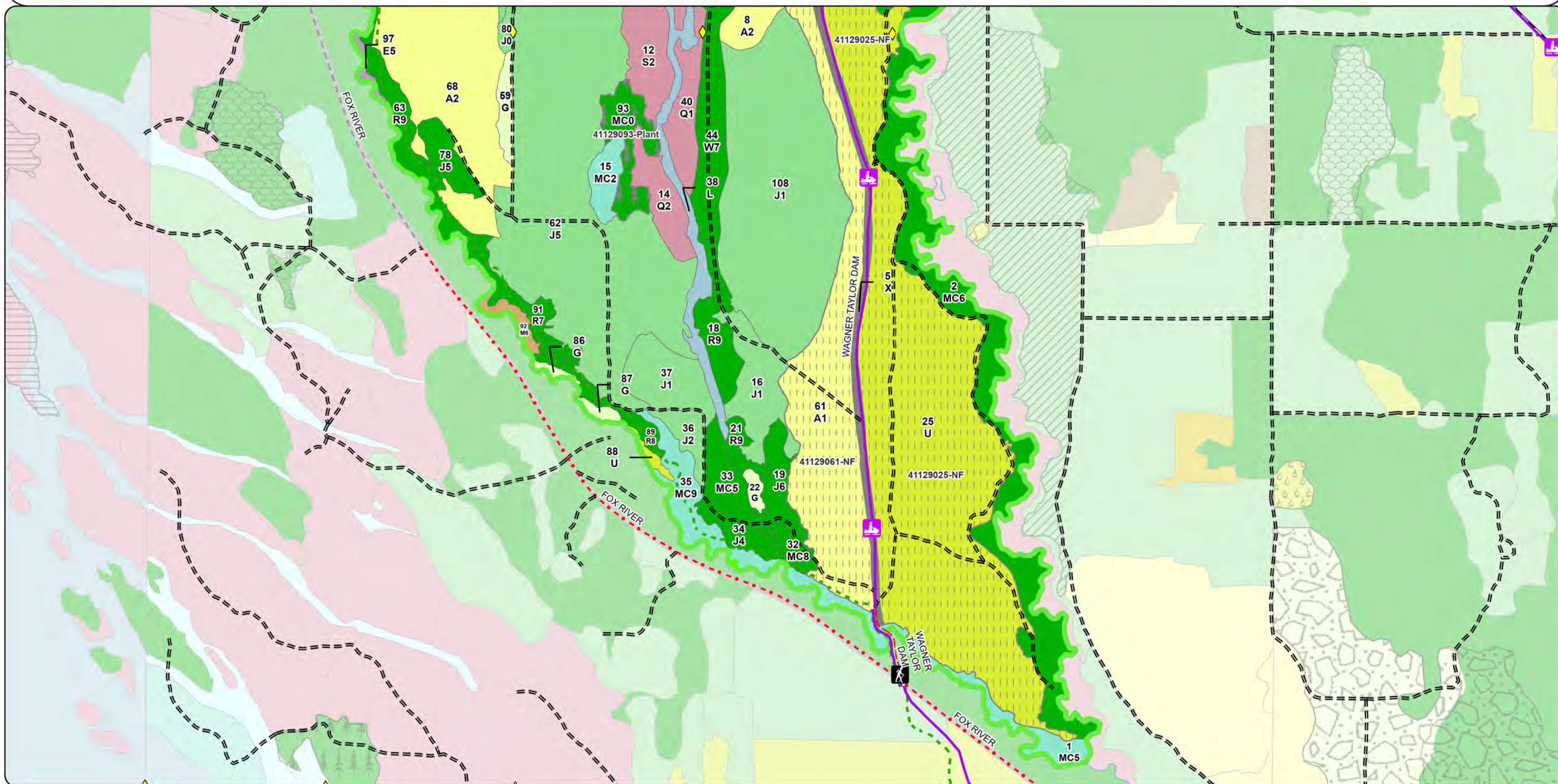
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0 0.5 1 Miles

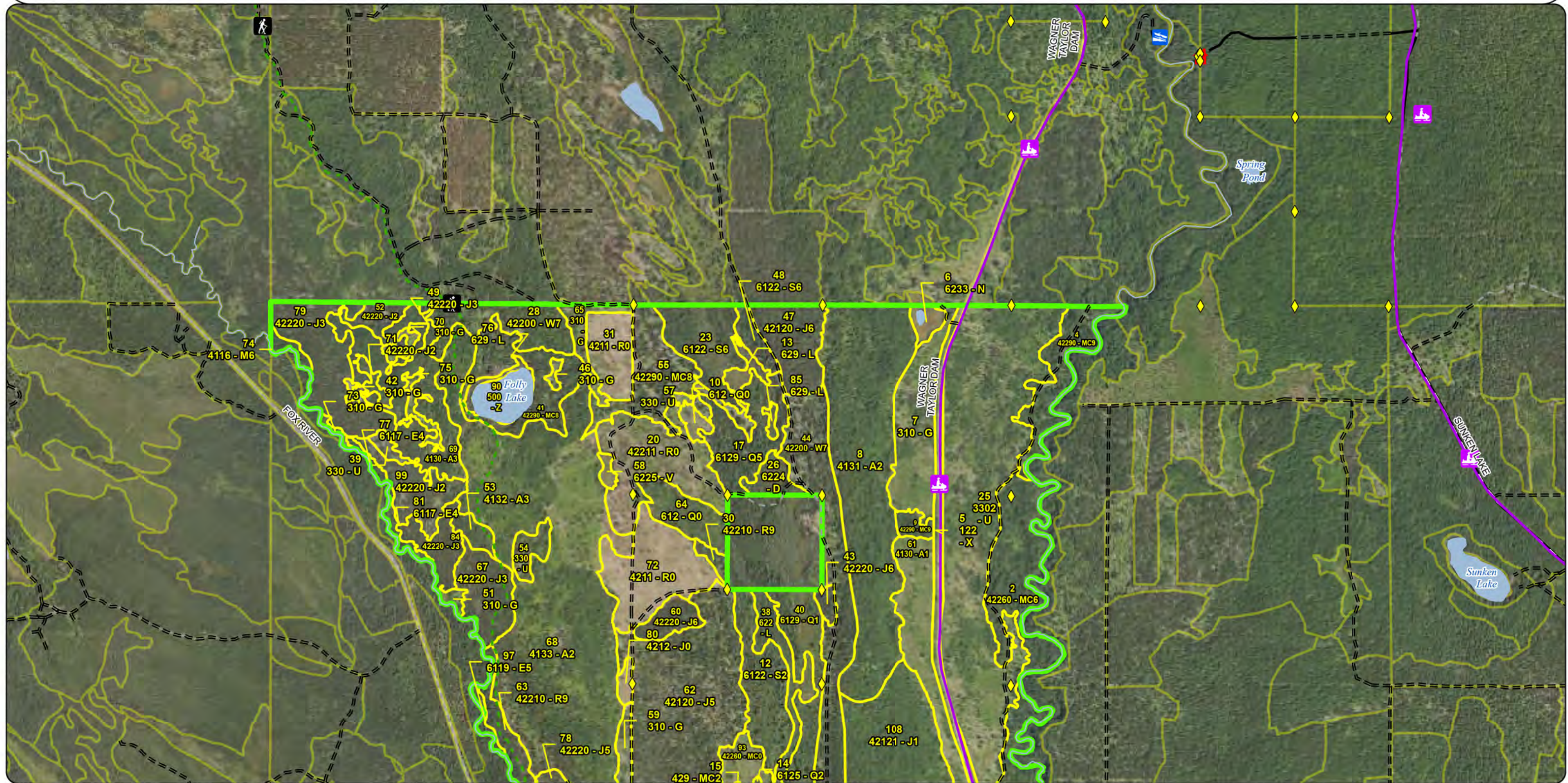
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|--|---|---|--|
| <ul style="list-style-type: none"> Survey Grade Corners Designated Hiking Pathways Designated Snowmobile Trails DNR - Primary Forest Road DNR - Forest Access Route County - Gravel Road | <ul style="list-style-type: none"> County - Dirt Road (Seasonal) Private - Dirt / Gravel Road Perennial River Counties Compartment Boundary Planting (tree species) | <ul style="list-style-type: none"> Openings Mgmt. 411 - Northern Hardwood 413 - Aspen 421 - Planted Pines 422 - Natural Pines 429 - Mixed Upland Conifers | <ul style="list-style-type: none"> 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 122 - Road/Parking Lot 310 - Herbaceous Openland 330 - Low Density Trees 622 - Lowland Shrub |
|--|---|---|--|



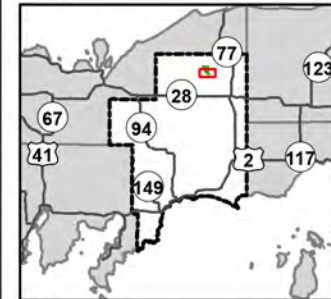
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Stand Boundary Map

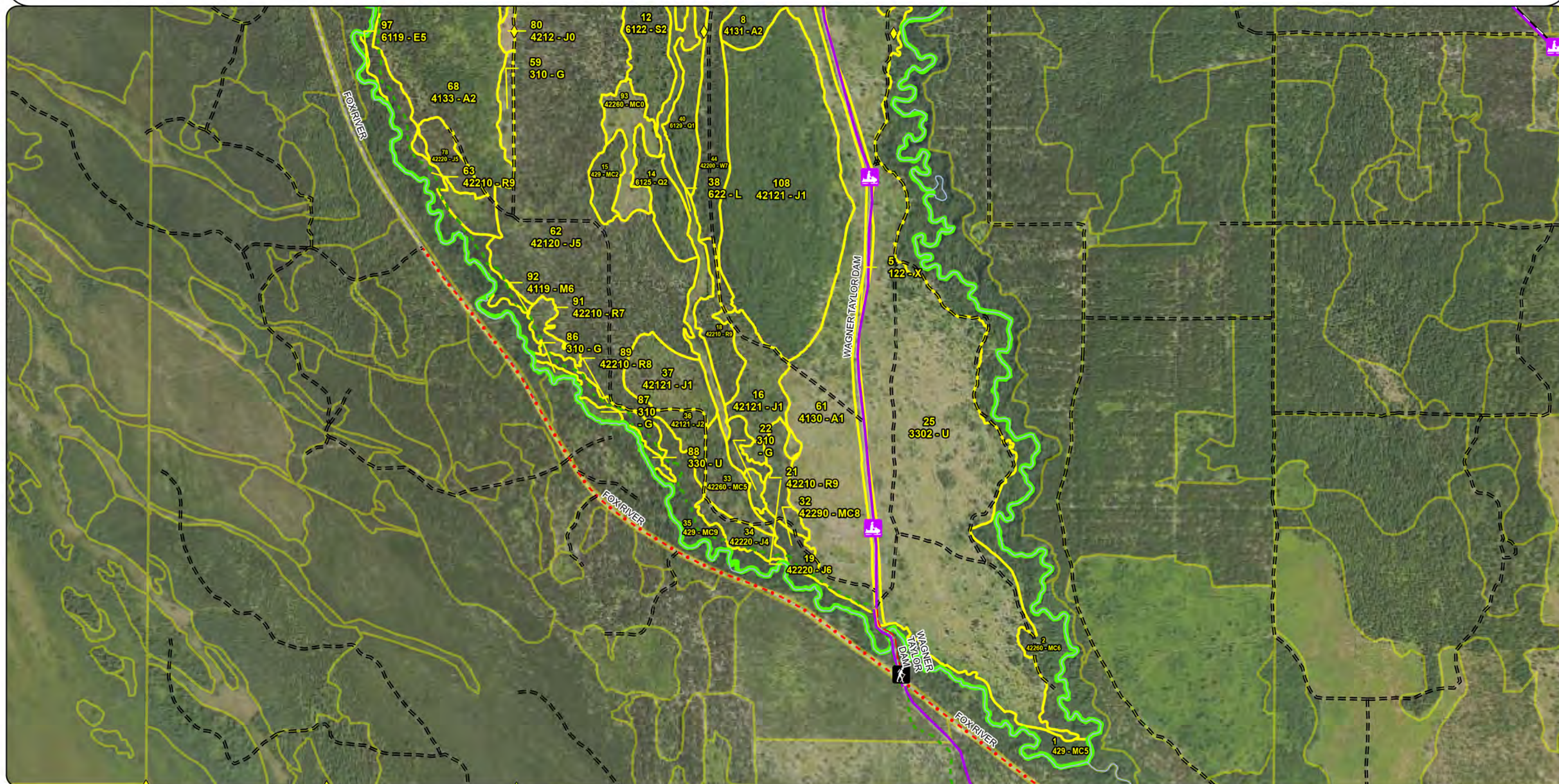


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0 0.5 1 Miles

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- Counties
- Compartment Boundary

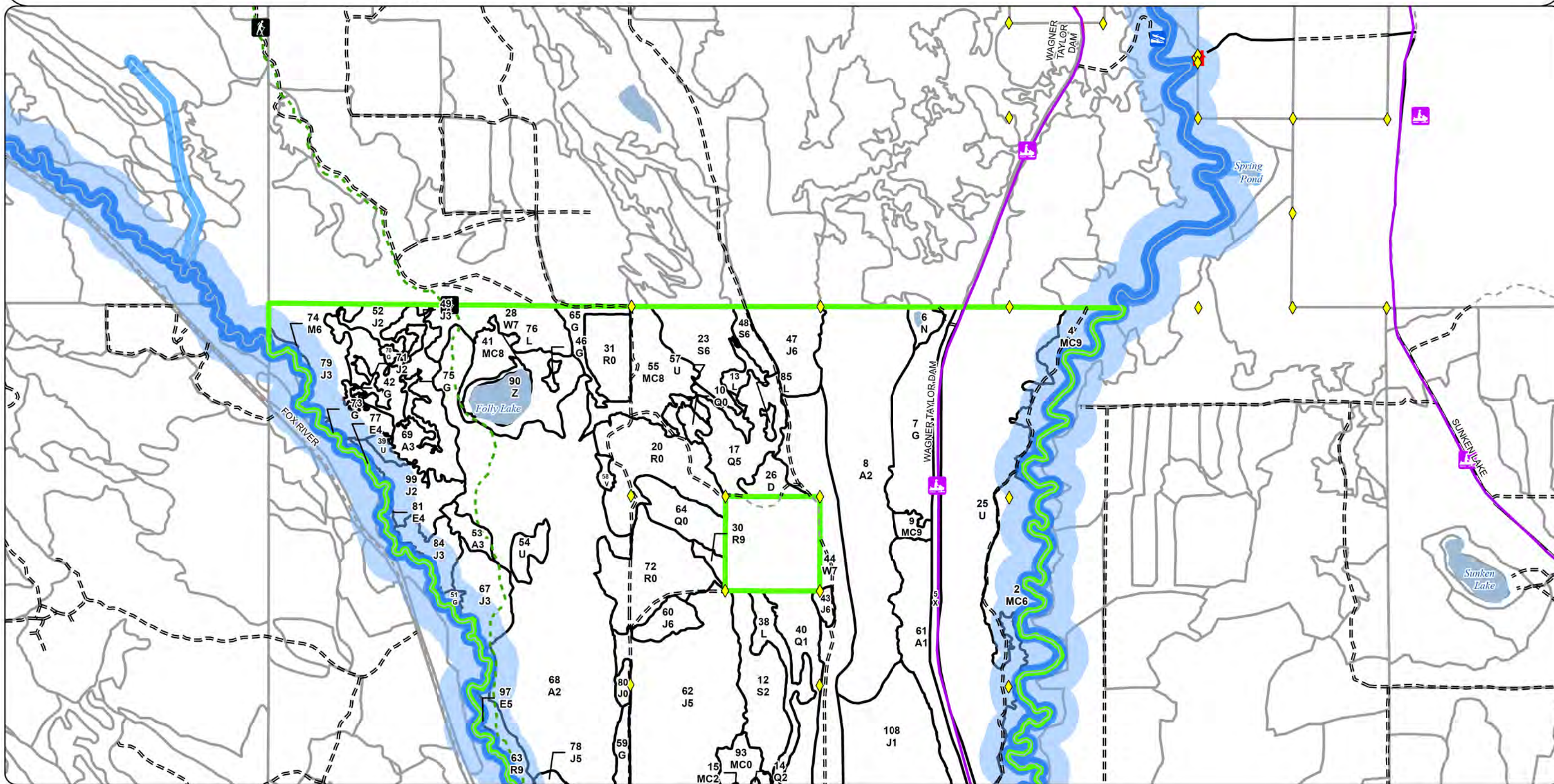
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|---|------------------------------|---|---------------------------------------|---|-----------------------------------|
|  | Survey Grade Corners |  | DNR - Forest Access Route |  | Compartment Boundary |
|  | Cabin |  | Federal / State / County - Paved Road |  | Stand Boundaries |
|  | Boating Access Site |  | County - Dirt Road (Seasonal) |  | Natural Rivers Vegetative Buffer |
|  | Designated Hiking Pathways |  | Private - Dirt / Gravel Road |  | Natural Rivers Zoning District |
|  | Designated Snowmobile Trails |  | Perennial River |  | Cold Water Streams |
|  | DNR - Primary Forest Road |  | Lakes and Rivers |  | High Priority Trout Stream Buffer |
| | |  | Counties | | |



Special Conservation Areas & Site Conditions Map

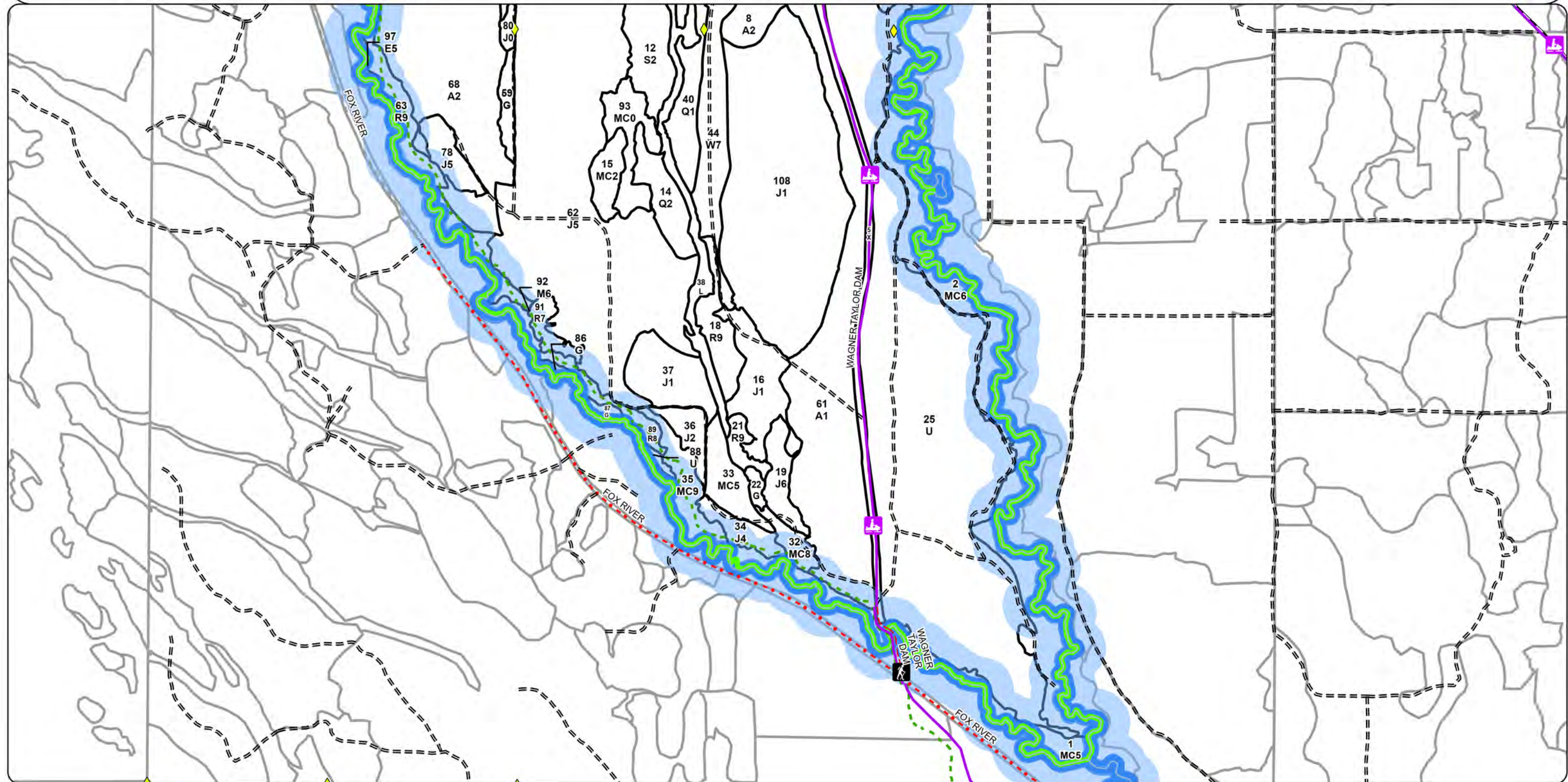


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- Cold Water Streams
- High Priority Trout Stream Buffer



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	326	125	41	0	0	0	0	0	0	0	0	0	0	0	0	0	491
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Jack Pine	3	0	202	9	104	8	34	0	0	0	0	0	0	0	0	0	0	220	580
Low-Density Trees	394	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	394
Lowland Conifers	19	0	0	46	0	0	0	0	0	0	0	0	0	26	0	0	0	0	91
Lowland Deciduous	0	0	0	0	2	0	0	5	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Spruce/Fir	0	0	0	26	0	0	6	0	0	0	23	0	0	0	0	0	0	0	55
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Natural Mixed Pines	17	0	0	0	0	124	0	0	23	53	4	0	0	0	0	0	0	21	242
Northern Hardwood	0	0	0	0	3	0	0	5	0	0	0	0	0	0	0	0	0	0	8
Red Pine	92	0	0	0	0	0	0	0	0	61	3	0	0	0	0	0	0	0	156
Treed Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Conifers	0	0	0	10	0	0	0	0	0	0	0	21	0	0	0	0	0	23	54
Urban	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	67	89
Total	681	0	528	216	150	132	40	10	23	136	30	21	0	26	0	0	0	331	2323



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 129
Total Compartment Acres: 2,322

Commercial Harvest - 126
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
Jack Pine		21	0	0	0	0	0	0	0	0	21
	Total	21	0	0	0	0	0	0	0	0	21

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		21	0	57	0	0	0	16	0	536	630
Next Step		0	43	21	0	0	0	134	0	0	198
	Total	21	43	79	0	0	0	150	0	536	828



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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Proposed Treatments:

7	41129007-NF	32.1	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Opening Maintenance for sharp-tail grouse Habitat. Operations that will be performed to maintain area include but are not limited to: Brush-cutting, Masticating, Herbicide, Tilling, Planting, Mowing, Burning, Soft and Hard Mast Tree planting.

Next Step
Treatments:

Acceptable Upland grasses, Shrubs, and soft and hard mast fruit trees.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

20	41129020- Plant	40.2	42211 - Natural Red Pine, Mixed Deciduous	0	89	1-50	Planting	Planting (tree species)	4122 - Oak, Pine	Cutting Record	No
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Prescription Plant Oak per wildlife specifications.
Specs:

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

Acceptable Red pine, Oak, White pine, Jack pine.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

25	41129025-NF	378.7	3302 - Low Density Conifer Trees	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Opening Maintenance for sharp-tail grouse Habitat. Operations that will be performed to maintain area include but are not limited to: Brush-cutting, Masticating, Herbicide, Tilling, Planting, Mowing, Burning, Soft and Hard Mast Tree planting.

Next Step
Treatments:

Acceptable Upland grasses, Brush, soft and hard mast fruit trees.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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47	41129047-Cut	21.3	42120 - Planted Jack Pine	6	57	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
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Prescription Clearcut: Cut all trees within stand down to 2". Leave no retention due to forest health concerns.

Specs:

Next Step SitePrep, Scarification; SitePrep, Trenching; Planting, Trenched Plant; Monitoring, Artificial Regen; Monitoring, Artificial Regen
Treatments:

Acceptable Jack pine, with some aspen.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

61	41129061-NF	124.9	4130 - Aspen	1	23	Immature	NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Opening Maintenance for sharp-tail grouse Habitat. Operations that will be performed to maintain area include but are not limited to: Brush-cutting, Masticating, Herbicide, Tilling, Planting, Mowing, Burning, Soft and Hard Mast Tree planting.

Specs:

Next Step
Treatments:

Acceptable Upland grasses, Brush, Hard and Soft Mast fruit trees.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

16	41131016-Cut	53.3	42120 - Planted Jack Pine	6	60	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
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Prescription Clearcut: Cut all trees within stand down to 2". Leave no retention due to forest health concerns.

Specs:

Next Step SitePrep, Scarification; SitePrep, Trenching; Planting, Trenched Plant; Monitoring, Artificial Regen; Monitoring, Artificial Regen
Treatments:

Acceptable Jack pine, with some aspen.

Regen:

Other

Comment: Treat with 41129047

Site Condition:

Proposed Start Date: 10/01/2026

Approved Treatments:

31	41129031-Monitor	16.0	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
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Prescription

Specs:

Next Step
Treatments:

Acceptable red pine

Regen:

Other

Comment: Percent to Treat = 100%

Site Condition:



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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Proposed Start Date: 10/01/2025

93	41129093- Plant	17.1	42260 - Natural Pine, Mixed Deciduous	0	60	1-50	Planting		429 - Mixed Upland Conifers		No
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Prescription Plant red pine where needed.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr)

Treatments:

Acceptable Red pine is desirable; all conifers are acceptable, plus oak and bigtooth aspen.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/01/2025

Total Treatment
Acreage Proposed: 683.6



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

1A 5E

492	492	0	0	Aspen		
2	2	0	0	Bog		
63	58	0	6	Herbaceous Openland	6	
506	500	0	7	Jack Pine	7	
393	386	0	7	Low-Density Trees	1	6
90	90	0	0	Lowland Conifers		
7	0	0	7	Lowland Deciduous	7	
38	38	0	0	Lowland Shrub		
55	55	0	0	Lowland Spruce/Fir		
4	4	0	0	Marsh		
157	95	0	62	Natural Mixed Pines	62	
5	0	0	5	Northern Hardwood	5	
135	118	0	17	Red Pine	15	2
7	7	0	0	Treed Bog		
32	10	0	23	Upland Conifers	23	
32	32	0	0	Urban		
8	8	0	0	Water		
89	89	0	0	White Pine		
2,118	1,984		134	Total Forested Acres	125	9
	94%		6%	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	5E: Long-Term Retention	6				
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner: Examiner

Compartment: 129
Year of Entry: 2027



3	Unavailable	1A: Federal/State/Local Law	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River 100' zone							
4	Unavailable	1A: Federal/State/Local Law	17	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
Comments: Fox River 100' zone							
10	Unavailable	1A: Federal/State/Local Law	48	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
Comments: Fox River 100' zone							
11	Unavailable	1A: Federal/State/Local Law	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner: Examiner

Compartment: 129
Year of Entry: 2027



28	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	1A: Federal/State/Local Law	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River. This is in the buffer zone along the Fox River.							
30	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
Comments				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
8	4131 - Aspen, Oak	Sapling Medium	106.8	15	Immature	N/A	Cut in 2009, leaving residual BA: Red pine = 10, jack pine = 12, oak = 9; total = 31 sq.ft/acre.Fully stock young Aspen stand.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>70</td><td>Log</td><td>1</td><td>15</td></tr><tr><td>Red Pine</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td></td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	70	Log	1	15	Red Pine	10		12		Red Oak	10	Log	1		Red Oak	10		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Variable																															
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9	42290 - Natural Mixed Pine	Sawtimber Well	3.8	94	51-80	N/A	Stand featuring mixed few pine. Red maple & aspen were cut out in 2009.																																																															
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Jack Pine	Medium	5 - 10 feet	5 - 10 feet																																																																			
10	612 - Lowland Coniferous Forest	Unspecifed	3.2	8			unit 6 of wild country pine 41-036-17Some trees just starting to come up mainly a few red maple some aspen and residual smaller black spruce.																																																															
12	6122 - Black Spruce	Sapling Medium	26.2	26	Immature	N/A	Fully-stocked spruce regen with a few residual red & white pine from the last stand. Lots of black spruce and white pine seedlings on the ground as well.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Tamarack</td><td>3</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Pine</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Black Spruce</td><td>82</td><td>Log</td><td>1</td><td>26</td></tr><tr><td>White Pine</td><td>3</td><td>Log</td><td>2</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>16</td><td></td></tr><tr><td>Jack Pine</td><td>3</td><td>Log</td><td>1</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Tamarack	3	Log	1		Red Pine	5	Log	2		Red Pine	2		12		Black Spruce	82	Log	1	26	White Pine	3	Log	2		White Pine	2		16		Jack Pine	3	Log	1		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Spruce</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Medium	Variable	Variable	White Pine	Medium	Variable	Variable												
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13	629 - Mixed non-forested Wetland	None	4.3			No	Open wet area featuring wet grass and various shrubs with scattered spruce and a few pine.																																																															
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14	6125 - Lowland Black Spruce, Jack Pine	Sapling Medium	15.6	26	Immature	N/A	Lowland spruce regen with a mix of others thrown in. Fully-stocked, and the stand includes a few large residual pines from the last stand.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
15	429 - Mixed Upland Conifers	Sapling Medium	9.5	26	Immature	N/A	Fully-stocked with black spruce/jack pine regeneration. The large red & white pine are residuals from the previous harvest.																																																										
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16	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Poor	25.3	13	Immature	N/A	Stand was trenched and planted. 3rd year regen check done in summer 2015 = 293 TPA. Site replanted spring 2017, 1st year regen check, 2018 790 TPA. check and passed.																																																										
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Jack Pine	60	Log	3	13																																																													
17	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	25.8	121	1-50	N/A	This stand appears to feature slow-growing lowland timber that has become an unevenaged stand of mixed conifers on a relatively wet site. The wet terrain presents difficulties for harvesting operations in may areas of the stand.The red & white pine logs are 12-18" DBH residuals from the previous stand, which was apparently partially cut during the mid 1960's and has now regenerated naturally. Site indices appear to be variable, making it even more difficult to recognize the different age classes.The S2 understory varies from saplings 2-10' tall up to trees 3-5" DBH, further indicating that several age classes are now present. Some areas are still fairly open, but appear to be filling in slowly. The lower age classes given here represent a best guess on when the stand was cut. Canopy data from 6/20/2015.																																																										
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18	42210 - Natural Red Pine	Sawtimber Well	14.1	82	111-140	N/A	Fully-stocked stand of red pine with white pine plus a few oak, aspen and paper birch. Ready for final harvest as soon as the adjacent jack pine regen to the east meets green-up specs . This stand was thinned last entry, removing aspen, jack pine etc. This has resulted in bigtooth aspen regeneration in the more open areas, and scattered white pine regen throughout.																																																										
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19	42220 - Natural Jack Pine	Poletimber Well	11.5	32		N/A																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	42200 - Natural White Pine	Sawtimber Poor	22.3	88	1-50	N/A	Cut in 2009. Fully-stocked aspen regen. A few residual white, red pine oak from the last stand are present, and oak seedlings are present throughout.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	60		16	88	Quaking Aspen	Full		5 - 10 feet	5 - 10 feet
Red Pine	30		16		Red Oak	Low		Variable	Variable
Quaking Aspen	5	Seedling	6		White Pine	Medium		Variable	Variable
Red Oak	2		10						
Paper Birch	3	Seedling	6						
30	42210 - Natural Red Pine	Sawtimber Well	2.7	98	51-80	N/A	Retention for adjacent stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Pine	19		15		White Pine	Medium	Variable	Variable	
Red Oak	1		10		Red Maple	Medium	Variable	Variable	
Red Pine	80		15	98	Bigtooth Aspen	Low	Variable	Variable	
31	4211 - Planted Red Pine	Unspecified	16.0	1	Immature		unit 8 of wild country Pine 41-036-17trenched summer 2022Site Prep Sprayed summer 23 , skidder. Planted to RP spring 24Summer 24 passed 1st year regen check, 894 TPA.		
32	42290 - Natural Mixed Pine	Sawtimber Medium	6.5	82	81-110	N/A	Seasonal Drainage runs thru middle of stand		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Pine	45		11	82	Quaking Aspen	Low	Variable	Variable	
Quaking Aspen	11	Sapling	5		White Pine	Low	Variable	Variable	
Red Maple	1	Sapling	6						
Bigtooth Aspen	6	Sapling	6						
White Pine	20		10						
Jack Pine	17	Pole	4	39					
33	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	14.4	25	51-80	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Paper Birch	2		8		Red Maple	Low	Variable	Variable	
Quaking Aspen	30	Sapling	5	32	White Pine	Low	Variable	Variable	
Red Pine	5		12						
Red Oak	3		10						
White Pine	20		10	82					
Jack Pine	40	Sapling	5	25					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
34	42220 - Natural Jack Pine	Poletimber Poor	8.8	25	1-50	N/A	HCVA - Fox River. Sparse timber over brush and grass on the slopes and bottomland along the river. The Fox River Pathway runs through this stand.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Log</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Jack Pine</td><td>75</td><td>Sapling</td><td>5</td><td>25</td></tr><tr><td>Black Cherry</td><td>5</td><td>Log</td><td>4</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Seedling	8		Red Pine	5		10		Quaking Aspen	5	Log	4		White Pine	5		10		Jack Pine	75	Sapling	5	25	Black Cherry	5	Log	4		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Jack Pine</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Variable	Jack Pine	Medium	< 5 feet	< 5 feet										
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35	429 - Mixed Upland Conifers	Sawtimber Well	21.3	108	51-80	N/A	HCVA - Fox River Management Plan. Maintain as a buffer along the river. Fairly mixed stand above the Little Fox River. Stand density and composition are variable. The terrain itself is broken and features numerous steep gullies. The Fox River Pathway also runs through this stand.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Balsam Fir</td><td>15</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Quaking Aspen</td><td>5</td><td></td><td>9</td><td></td></tr><tr><td>Black Spruce</td><td>15</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>18</td><td></td></tr><tr><td>White Pine</td><td>35</td><td></td><td>18</td><td>108</td></tr><tr><td>Jack Pine</td><td>5</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Black Cherry</td><td>15</td><td></td><td>8</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5		10		Balsam Fir	15	Sapling	5		Quaking Aspen	5		9		Black Spruce	15	Seedling	6		Red Pine	5		18		White Pine	35		18	108	Jack Pine	5	Seedling	5		Black Cherry	15		8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	White Pine	Medium	10 - 20 feet	10 - 20 feet
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36	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	8.3	15	1-50	N/A	TS 41-024-07-01 Broken Branch Aspen. See also FTP C41-1354 (JP regeneration.) Residual BA: Red pine = 15, white pine = 1; total = 16 sq.ft/acre.[8-28-09] Sale is completed TCR Stand planted in to jack pine in spring of 2012 regeneration check scheduled for 2013.(rh10/1/12) (2013 1st year check results this stand was not treated.)Site check 2019, Jack pine growing in naturally and aspen as well, stand is fully stocked.																																																						
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37	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Poor	22.0	15	Immature	N/A	T-sale was completed 8-28-Residual BA: Red pine = 9 sq.ft/acre.See FTP C41-1354 (JP regeneration) - Stand planted to jack pine in spring of 2012.(rh10/1/12) 2013 1st year check - results 400 T/A (needs a replant.)Summer 2015 regen survey = 305 TPA with 100 Volunteers/acre. Site needs a replant. Replanted spring 2017. 1st year check summer 2018, 804 TPA. Passed regen check fall 2019. Is poorly stocked with a mix of age classes.																																																						
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38	622 - Lowland Shrub	None	27.9			No	Tag alder plus wetland grasses and scattered trees on boggy ground. Dries out during extended dry spells in spring & summer.																																																						
39	330 - Low-Density Trees	None	2.7			No	HCVA - Fox River Management PlanBurned in 1987 - now mostly open with scattered pockets of jack pine and aspen regeneration.																																																						
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40	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	30.2	22	Immature	N/A	Regenerating to a mix of black spruce, white pine, balsam fir and Tamarack. There are older residuals of jack and white pine.																																																																				
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41	42290 - Natural Mixed Pine	Sawtimber Medium	26.8	89	51-80	N/A	Mlx of pine, with white pine more dominant. Others scattered throughout, including a few oak. The understory is generally a mix of white pine and pockets of black spruce. Basal area varies and there are a few low wetter spots included, especially near the pond.																																																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>50</td><td></td><td>13</td><td>89</td></tr><tr><td>Red Pine</td><td>30</td><td></td><td>13</td><td></td></tr><tr><td>Red Oak</td><td>2</td><td></td><td>9</td><td></td></tr><tr><td>Red Maple</td><td>2</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td></td><td>8</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>11</td><td></td><td>9</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	White Pine	50		13	89	Red Pine	30		13		Red Oak	2		9		Red Maple	2	Sapling	5		Paper Birch	5		8		Bigtooth Aspen	11		9		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Spruce</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Variable	Black Spruce	Medium	Variable	Variable																							
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42	310 - Herbaceous Openland	None	1.5			No	Open grassland with scattered trees. Started to fill in with pine.																																																																				
43	42220 - Natural Jack Pine	Poletimber Well	2.7	53	51-80	N/A	Jack pine with spruce scattered throughout. This stand is a result of natural regen after a timber sale.																																																																				
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44	42200 - Natural White Pine	Sawtimber Poor	66.7	94	1-50	N/A	This stand has been entered on several occasions for partial harvests and cult work, but in general it has become a mixed stand with white pine dominant, and several apparent age classes.																																																																				
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46	310 - Herbaceous Openland	None	1.2			No	Grassy area starting to close in with pine from surrounding stand.																																																																				
47	42120 - Planted Jack Pine	Poletimber Well	21.3	57	81-110	N/A	Jack pine with Scattered red pine logs (residuals from a previous stand) and white pine poles are also present.																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
65	310 - Herbaceous Openland	None	7.5			No	Open area that was cut out of harvest (stand 31 RP) featuring scattered trees, brush, ferns, lichens etc.																															
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67	42220 - Natural Jack Pine	Sapling Well	19.0	37	1-50	N/A	HCVA - Fox River Management PlanBurned in 1987 - now a mix of J3 and A3, and the Fox River Pathway also runs through this stand. The eastern edge of the stand has a few mature trees that were left when the adjacent stand to the east was cut in 2009.																															
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68	4133 - Aspen, Mixed Pine	Sapling Medium	214.6	15	Immature	N/A	Cut in 2009. Aspen regen plus others mixed in. The density varies significantly but still enough to be considered fully-stocked. Wildfire occurred within this stand in 2019. Some aspen died from fire but most sprouted back.																															
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69	4130 - Aspen	Sapling Well	40.5	37	1-50	N/A	Burned in 1987 - mostly aspen regen with scattered jack pine and others. Here and there a few stems are reaching merchantable DBH, but overall the trees are still smaller than pole class with many stems in the 3-4" class.																															
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70	310 - Herbaceous Openland	None	2.5			No	Open area featuring scattered trees, brush, ferns, lichens etc.																															
71	42220 - Natural Jack Pine	Sapling Medium	3.1	37	1-50	N/A	Burned in 1987 - mostly semi-open jack pine regen with scattered aspen and grassy areas.																															
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>25</td><td>Log</td><td>3</td><td></td></tr><tr><td>Jack Pine</td><td>75</td><td>Pole</td><td>4</td><td>37</td></tr></table>				Canopy Species		% Cover	Size Class	DBH	Age	Quaking Aspen	25	Log	3		Jack Pine	75	Pole	4	37																	
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72	4211 - Planted Red Pine	Unspecified	35.5	1	Immature		41-036-17 Unit 3trenched summer 2022Sprayed summer 23, skidder. Planted to RP spring 241st year regen check done in summer 24, Passed 827 TPA																															
73	310 - Herbaceous Openland	None	1.2			No	HCVA - Fox River Management Plan Burned in 1987 - open grassy area along the banks of the Little Fox River.																															



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
92	4119 - Mixed Northern Hardwoods	Poletimber Well	4.8	69	81-110	N/A	HCVA - Fox River Management PlanMixed stand on the slopes along the Little Fox River.The Fox River Pathway runs through this stand.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Black Cherry</td><td>40</td><td>Seedling</td><td>6</td><td>69</td></tr><tr><td>Red Maple</td><td>35</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Balsam Fir</td><td>10</td><td></td><td>7</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	10		10		Black Cherry	40	Seedling	6	69	Red Maple	35	Seedling	8		Paper Birch	5		10		Balsam Fir	10		7		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Serviceberry (Juneberry)</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Choke Cherry</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Serviceberry (Juneberry)	Low	Variable	Variable	Balsam Fir	Low	Variable	Variable	Choke Cherry	Low	5 - 10 feet	5 - 10 feet	White Pine	Low	Variable	Variable	Red Maple	Medium	Variable	Variable	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
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93	42260 - Natural Pine, Mixed Deciduous	Unspecified	17.1	60	1-50	TS: 41-036-17 Unit 1. Site was scheduled for scarification but it never occurred should trench and plant																																																								
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97	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	2.4	69	1-50	N/A	HCVA - Fox River Management PlanMixed stand on the slopes and lowlands along the Little Fox River. The poletimber averages about 6-8" DBH. Timber quality is variable but this stand is more important for aesthetics and protection of the river corridor anyway. Unevenaged characteristics are developing, and the age shown here approximates the average. It appears that a part of the stand may have been burned in the Fox River Fire, but it had little impact due to the semi-open the semi-open nature of this stand. The Fox River Pathway runs very close to this stand, though not right through it.																																																							
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99	42220 - Natural Jack Pine	Sapling Medium	17.5	37	1-50	N/A	HCVA - Fox River Management PlanBurned in 1987 - now a semi-open stand that features pockets of fully-stocked timber (jack pine with scattered aspen throughout) and approximately 20-25% open grass/upland brush.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>25</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Jack Pine</td><td>75</td><td>Pole</td><td>4</td><td>37</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	25	Pole	4		Jack Pine	75	Pole	4	37																																													
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108	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Poor	146.8	13	Immature	N/A	Stand was trenched and planted. 3rd year regen check done in summer 2015 = 293 TPA. Site replanted spring 2017, 1st year regen check, 2018 790 TPA. check and passed. Decently stock jack pine and aspen stand.																																																							
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