



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41125

Entry Year 2026

Acreage: 1,460

County Schoolcraft

Management Area: Grand Marais Moraine Complex

Stand Examiner: Nicholas Wheeler

Legal Description:

T46N R14W Sections 4, 5 and 9

Identified Planning Goals:

Timber production, wildlife habitat management and protection of the Fox River in accordance with the Fox River Plan are goals identified in this compartment. Recreational management is also significant as both the Fox River Pathway and a groomed snowmobile trail pass through the compartment.

Soil and topography:

Most of this compartment consists of gently rolling terrain and dry, sandy soils. Along the southwest edges where it leads out into the Driggs Marsh, the soils are heavier. Here the terrain is flatter and considerably wetter. East of the Fox River Road, the banks of the Fox River are quite steep in places.

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

There are significant blocks of private timber company land in the middle of this compartment and immediately to the south, but the majority of the surrounding area is state forest land.

Unique Natural Features:

The Fox River is a designated natural river and forms the northeast boundary of this compartment.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

The Fox River is designated as a natural river and HCVA. The Fox River Plan specifies acceptable land and forest management practices for the Fox River corridor and its tributaries.

Watershed and Fisheries Considerations:

This compartment contains the Fox River. The Fox River is a designated Type 1 trout stream less than 50-ft wide with a predicted mean July water temperature of 62.2 °F (cold stream). A 300-foot buffer is recommended for the Fox River 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 lies to the southwest of the Fox River and Fox River Road and is just outside the corridor for management of large opening complexes. The first surveyors recorded white pine, red pine, hemlock, American beech, and red maple as the primary upland tree species. Tamarack and spruce dominated the lowland forests.

Current vegetation is substantially altered from pre-settlement days. Strip plantations of red pine interspersed with strips of grassy openings dominate section 4 and the northeast portion of section 5. Jack pine and aspen have both increased significantly within the compartment.

Wildlife habitat objectives include maintaining early successional forests, promoting the retention of super-canopy conifers, and protecting the Fox River corridor.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 125 Sections 4-5 & 9, T46N-R14W, Schoolcraft County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for occurrences of commercial deposits of metallic or critical minerals in this area. The closest known active sand/gravel pit is the State-owned Sunken Lake (north Seney) Pit nearly five miles east. The majority of the compartment consists of low wetlands, which could inhibit significant surface mining even if potential for aggregates exists. Furthermore, the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have

much economic value beyond use by the county road commission, logging companies, or DNR for road maintenance. No current leasing activity exists in the area involving State-owned mineral rights.

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These rocks are quarried 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:

Access from the Fox River Road is excellent via numerous forest roads and the snowmobile trail.

Survey Needs:

Land survey may be needed to facilitate timber sale activities sections 4 & 5.

Recreational Facilities and Opportunities:

The groomed snowmobile trail through this compartment receives extremely heavy use during the winter. The Fox River Pathway also passes through this area, and receives occasional use by hikers. The remains of an old logging camp are located along the pathway and listed as Feature #8 in the current brochure describing the pathway.

The state lands along the Fox River Road receive some hunting pressure. The Fox River State Forest Campground is less than two miles away, and the river itself is a popular destination for fishermen and canoeists.

Fire Protection:

This area is features relatively high-risk fuels, including large stands of jack pine. Access for fire management/suppression is excellent in the pines and grasslands, but may be somewhat more difficult on the softer ground approaching the marsh in the southern reaches of this compartment.

Additional Compartment Information:

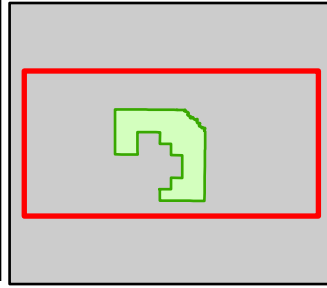
The following reports from the Inventory are attached:

- 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**

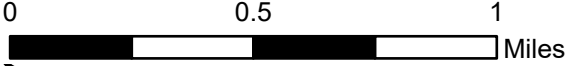
The following information is displayed, where pertinent, on the attached compartment maps:

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

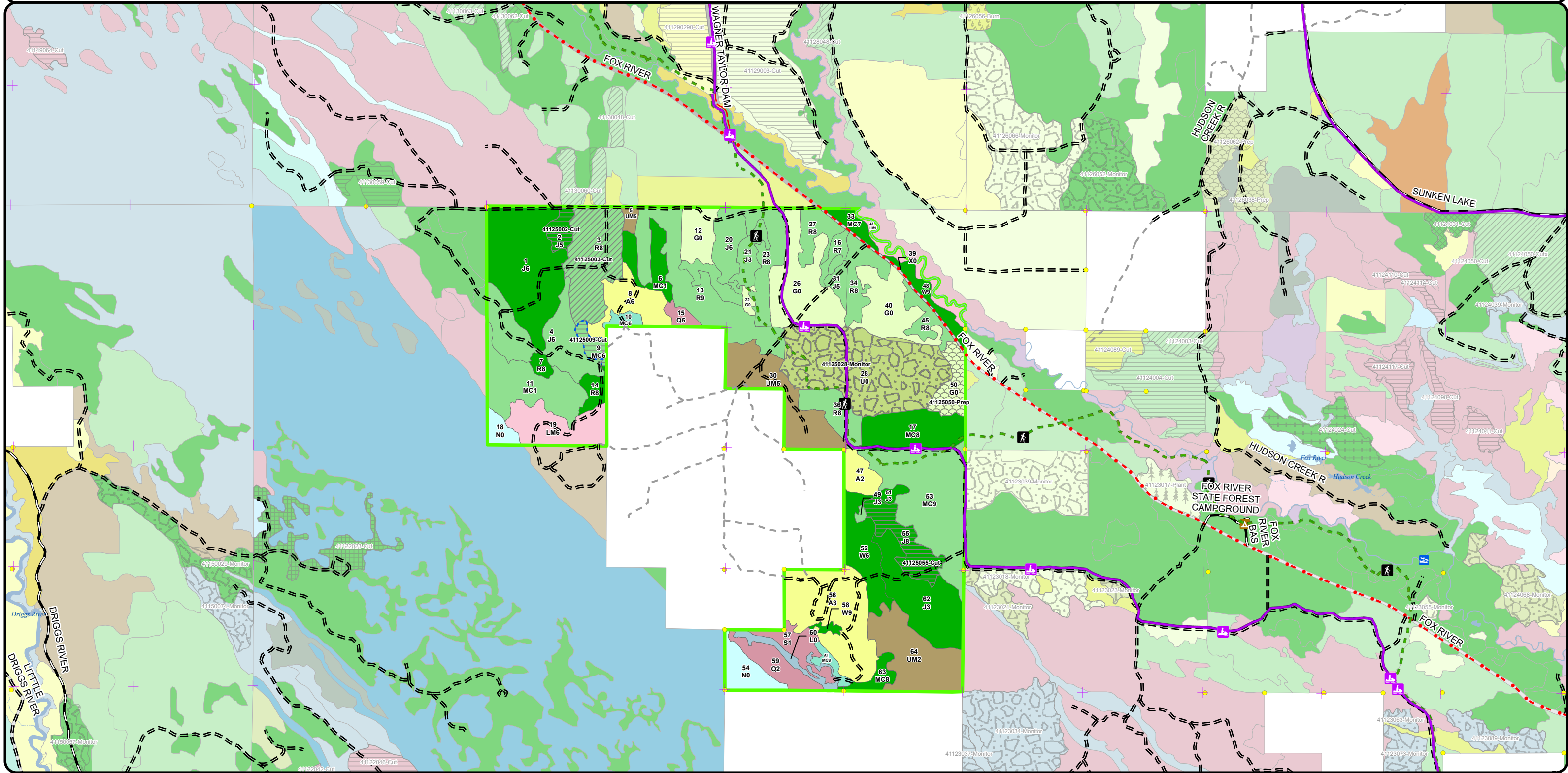
Cover Type & Treatments Map



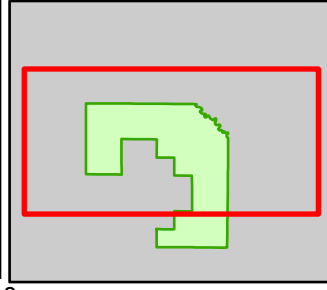
Compartment: 41125
 T46N, R14W, Sec: 4, 5, 9
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2026
 Acres: 1460.2 GIS Calculated
 Examiner: Nicholas Wheeler
 Map Revised: 09/25/2024
 Map Phase: Web Post



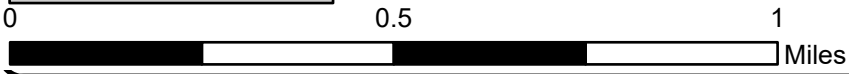
- | | | | | |
|------------------------------|-------------------------------|-----------------------------------|-----------------------------|---------------------------------|
| Boating Access Site | Designated Snowmobile Trails | Lake/Pond | Regeneration Survey | 612 - Lowland Coniferous Forest |
| Campground | DNR - Primary Forest Road | Perennial River | Site Prep | 613 - Lowland Mixed Forest |
| Survey Grade Corners | DNR - Forest Access Route | Lakes and Rivers | 413 - Aspen Types | 110 - Low Intensity Urban |
| Remonumented Section Corners | County - Gravel Road | Compartment Boundary | 421 - Planted Pines | 310 - Herbaceous Openland |
| Hiking Trails | County - Dirt Road (Seasonal) | Treatments with Site Conditions | 422 - Natural Pines | 320 - Upland Shrub |
| Snowmobile Trails | Private - Dirt / Gravel Road | Clearcut (w/Reserves) | 429 - Mixed Upland Conifers | 622 - Lowland Shrub |
| Designated Hiking Pathways | Intermittent Stream | Thinning (Crown, Low, Systematic) | 430 - Upland Mixed Forest | 623 - Emergent Wetland |



Cover Type & Treatments Map

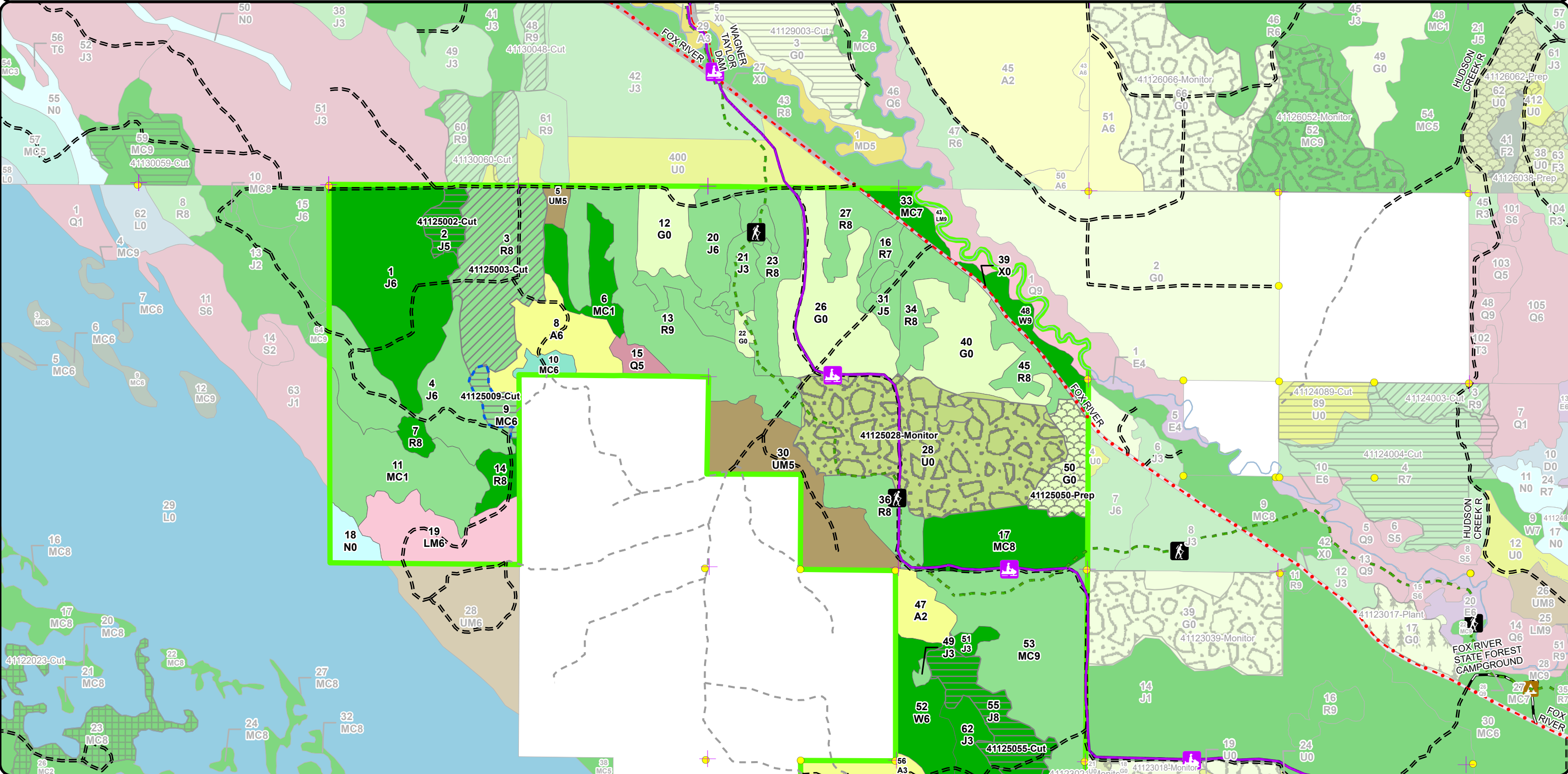


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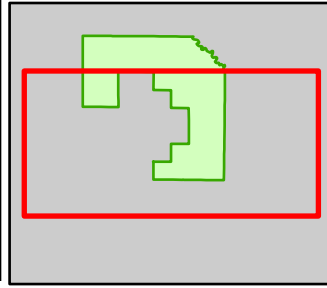


- Campground
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- Remonumented Section Corners
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- Perennial River
- Compartment Boundary
- Treatments with Site Conditions

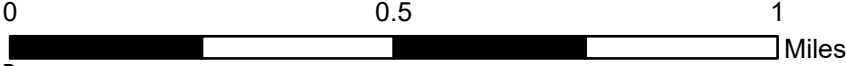
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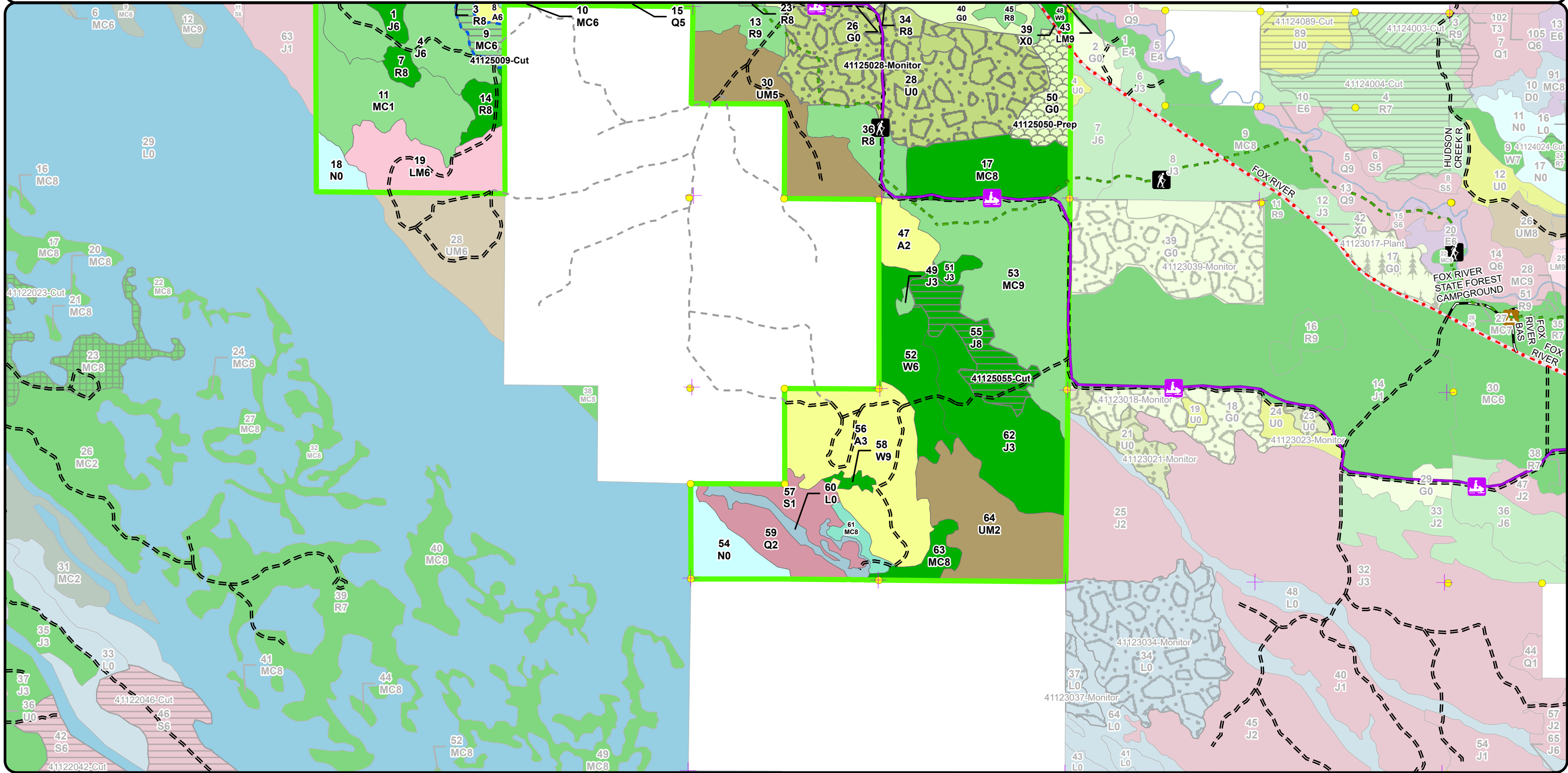
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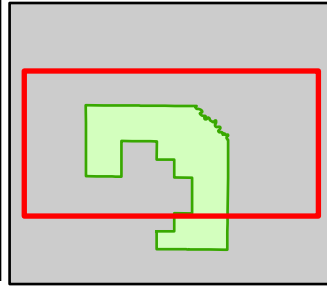
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Stand Boundary Map

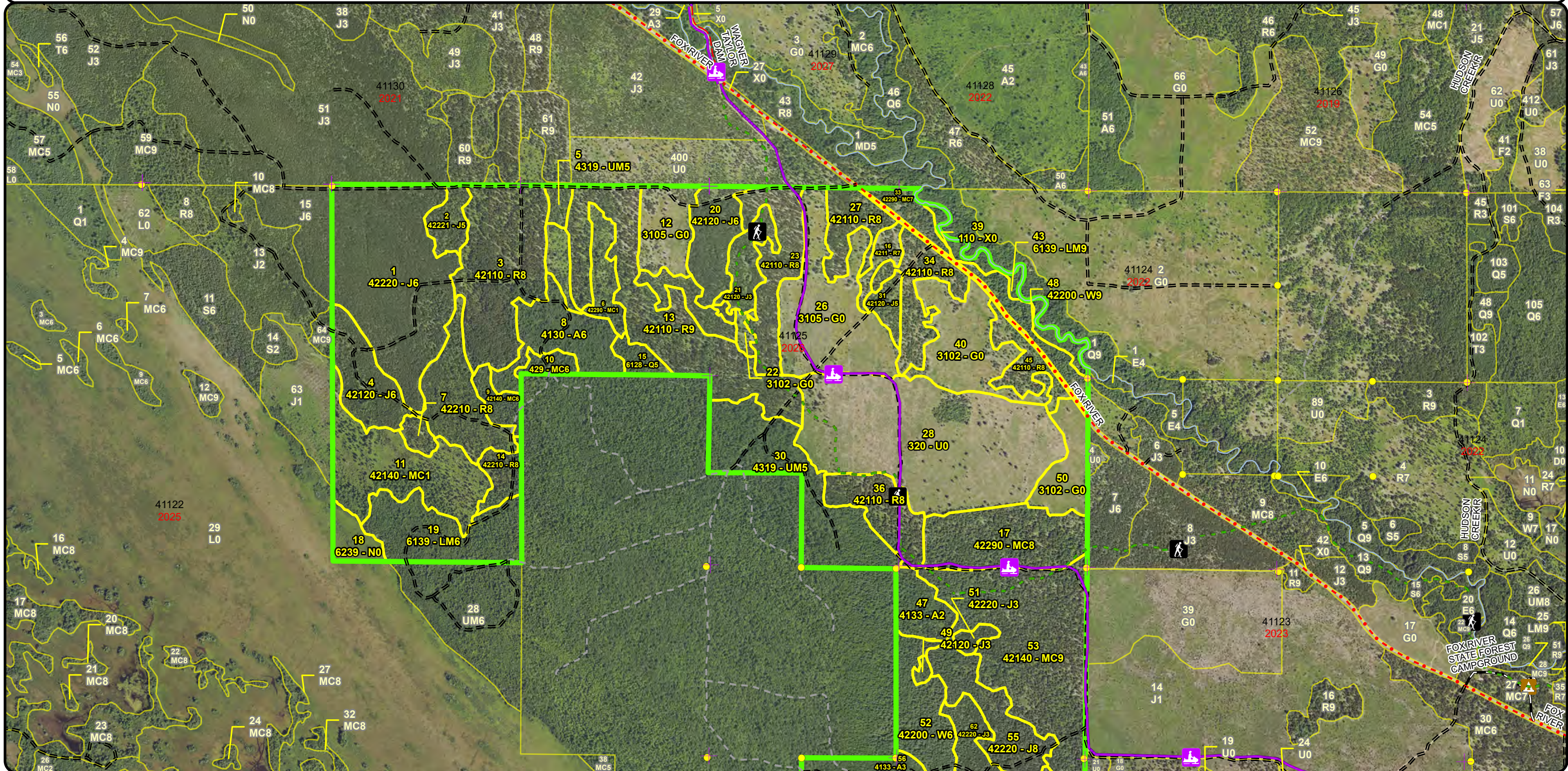


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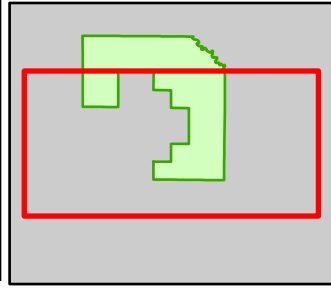
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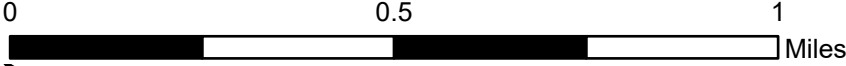
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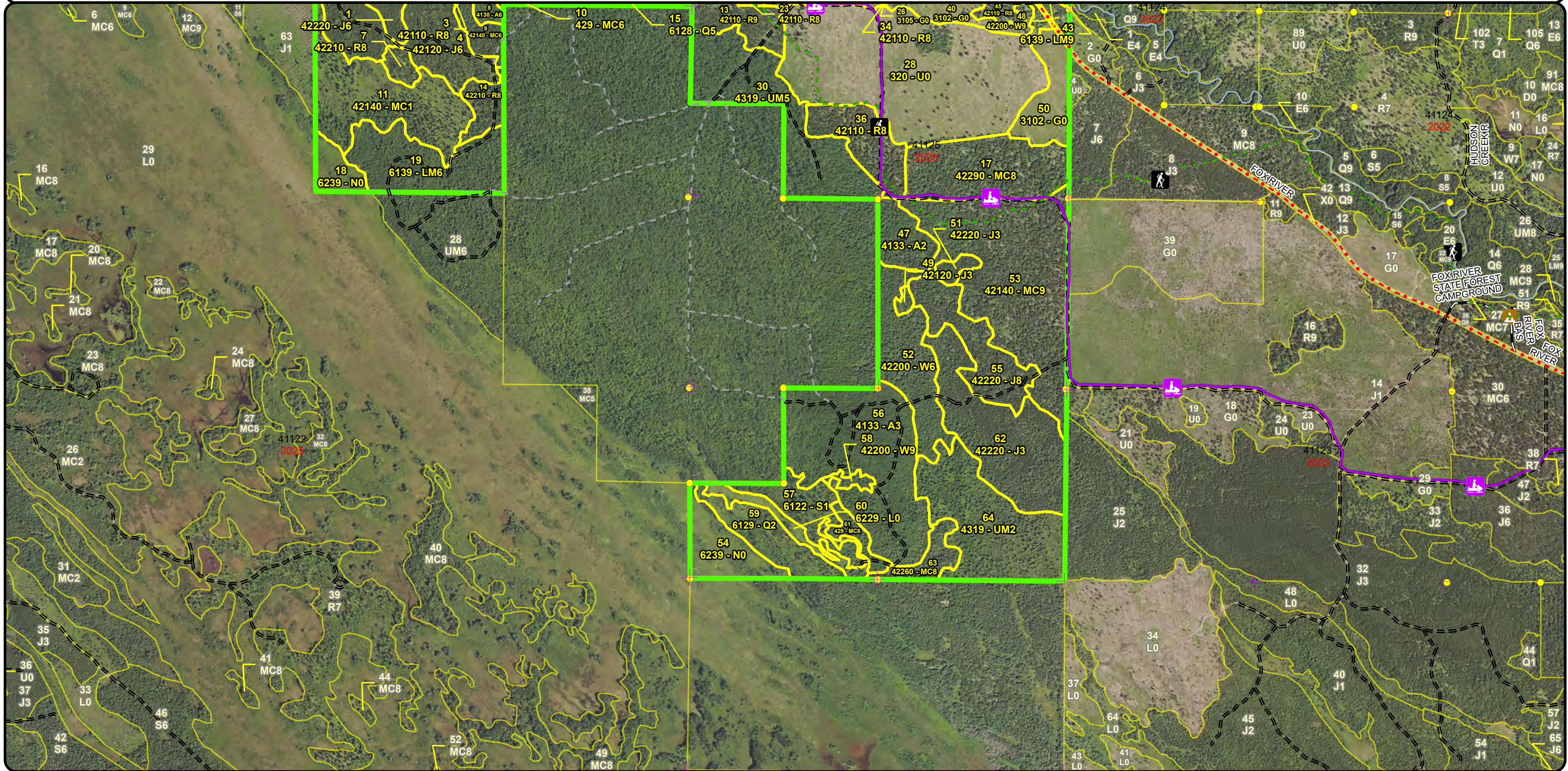
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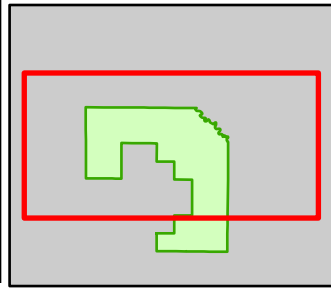
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Special Conservation Areas & Site Conditions Map

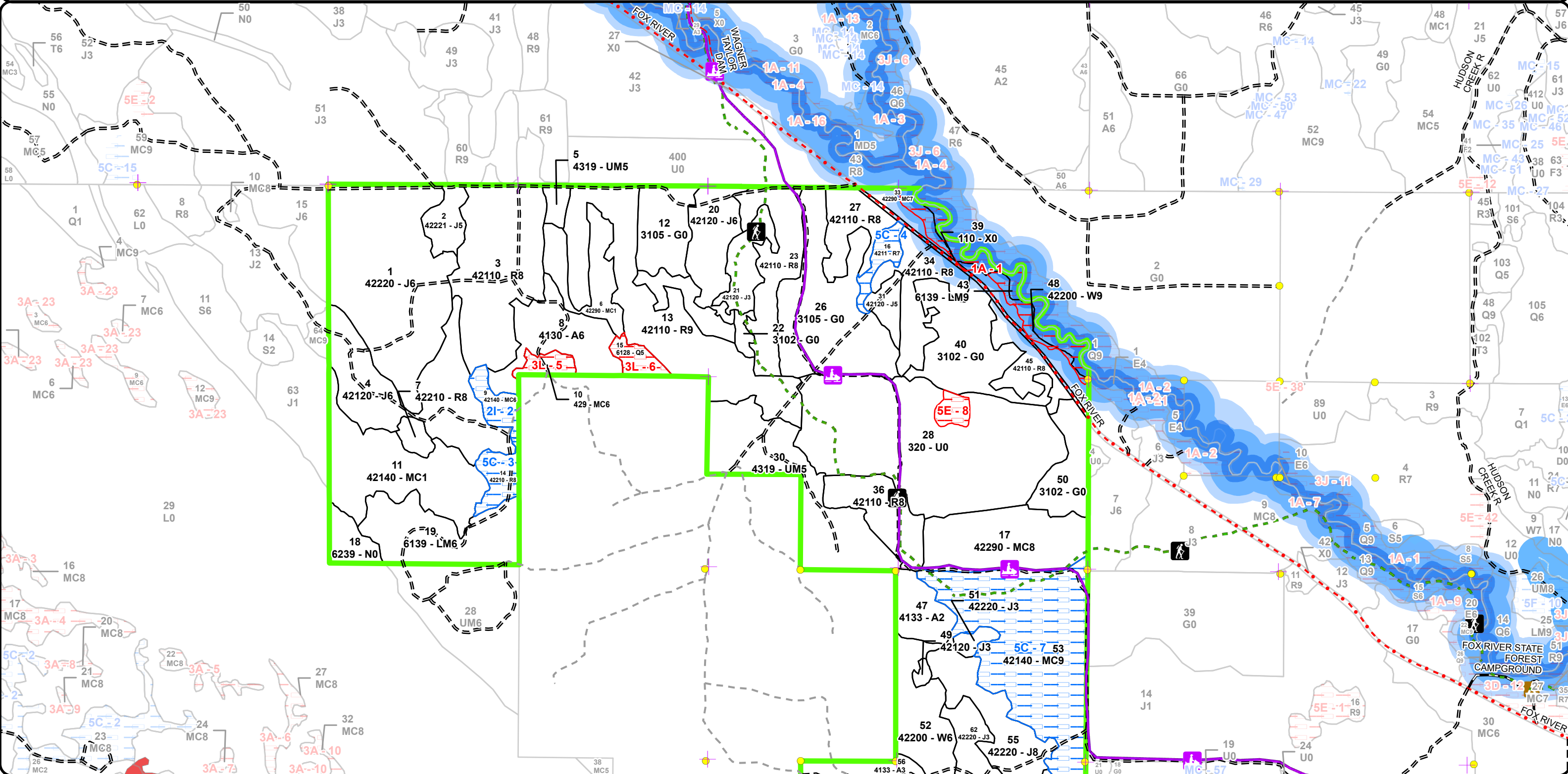
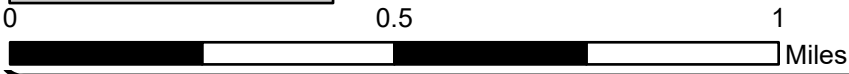


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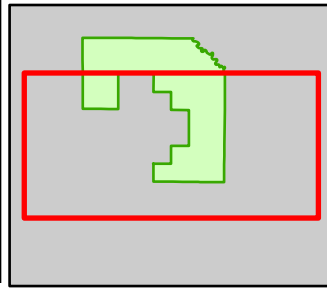
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- Cold Water Streams
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed

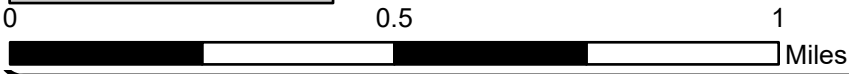
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer



Special Conservation Areas & Site Conditions Map



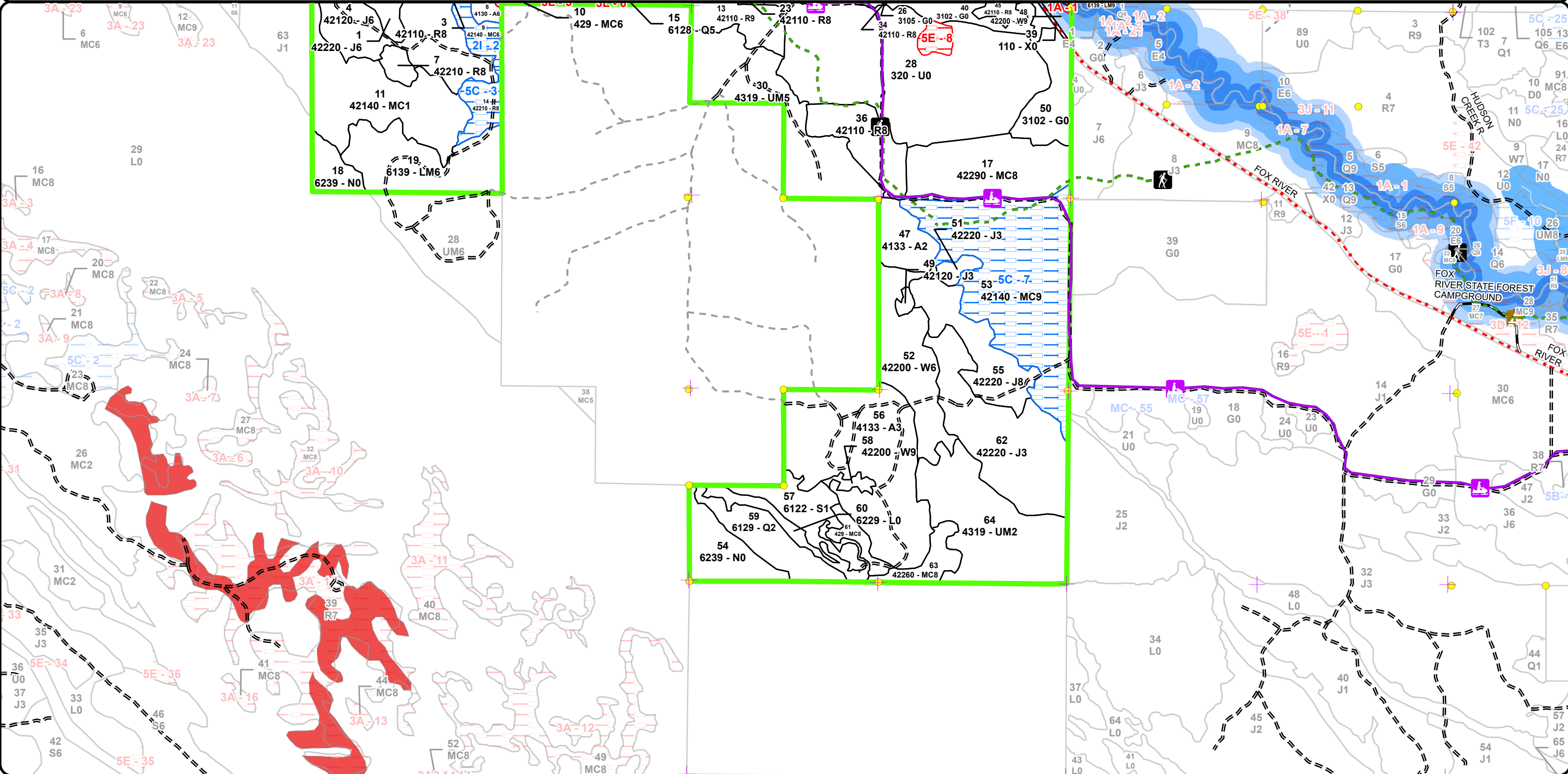
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Age Class

	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	0	14	107	0	0	0	0	0	0	0	0	0	0	0	0	0	121
Herbaceous Openland	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
Jack Pine	0	0	0	89	54	111	38	0	0	0	0	0	0	0	0	0	0	0	292
Lowland Conifers	0	0	20	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	26
Lowland Mixed Forest	0	0	0	0	38	0	0	0	0	0	12	0	0	0	0	0	0	0	50
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Spruce/Fir	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Marsh	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Natural Mixed Pines	0	0	20	0	0	0	0	0	42	10	9	0	0	0	0	0	0	0	81
Planted Mixed Pines	0	49	0	0	0	0	8	0	0	0	91	0	0	0	0	0	0	0	148
Red Pine	0	0	0	0	0	0	0	233	0	7	0	14	0	0	0	0	0	0	253
Upland Conifers	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	0	0	56	0	53	0	4	0	0	0	0	0	0	0	0	0	0	0	113
Upland Shrub	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	0	36	13	0	0	0	0	0	0	0	49
Total	303	49	113	103	252	111	50	233	42	70	125	14	0	0	0	0	0	0	1462



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 125

Total Compartment Acres: 1,460

Commercial Harvest - 97
 Harvests with Site Condition - 8
 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	38	0	0	0	0	0	0	0	0	38
Planted Mixed Pines	8	0	0	0	0	0	0	0	0	8
Red Pine	0	0	0	0	60	0	0	0	0	60
Total	45	0	0	0	60	0	0	0	0	105

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	105	19	0	0	0	0	117	0	0	240
Next Step	0	101	209	0	0	154	173	19	0	656
Total	105	120	209	0	0	154	290	19	0	896



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

2	41125002-Cut	9.7	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	58	1-50	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clear cut and scarify to regenerate Jack Pine, keep slash out of dry drainage during sale operations.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Treatments: Artificial Regen(3yr)

Acceptable Jack Pine with species currently on site.

Regen:

Other No retention based on small treatment size.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

3	41125003-Cut	59.5	42110 - Planted Red Pine	Sawtimber Medium	66	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin Red Pine 110 - 130 BA depending on variable BA throughout stand. Focus on forks, doubles, larger diameter and suppressed trees.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

9	41125009-Cut	7.8	42140 - Planted Mixed Pine	Poletimber Well	58	81-110	Harvest	Clearcut	42290 - Natural Mixed Pine	Even-Aged	No
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Prescription Clearcut - no retention necessary due to small stand size, but reserve oak if any is encountered in this stand.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Treatments: Artificial Regen(3yr)

Acceptable Mixed pine and species currently on site.

Regen:

Other Scarify after harvest, plant Jack Pine if scarification fails

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2025



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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
50 41125050-Prep	18.5	3102 - Grass	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> trench to plant red pine <u>Specs:</u> <u>Next Step</u> Other, Pre-Commercial Thinning - Hand; Pesticide, Skidder - Release; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, <u>Treatments:</u> Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Acceptable</u> Red Pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/9 /2024</p>										
55 41125055-Cut	27.9	42220 - Natural Jack Pine	Sawtimber Medium	58	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with pocket retention and leaving some Red or White Pine for seed trees. <u>Specs:</u> <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial <u>Treatments:</u> Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Unfurrowed <u>Acceptable</u> Jack Pine and a mix of species currently on site. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										

Approved Treatments:

28 41125028-Monitor	116.9	320 - Upland Shrub	Nonstocked		Unspecified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Monitor <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Release; Planting, Replant <u>Treatments:</u> <u>Acceptable</u> Red pine is desirable; all conifers, aspen and oak are acceptable. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 240.3

Report 4 – Site Conditions

Shingleton Mgt. Unit
Nicholas Wheeler: Examiner

Compartment: 125
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions					
		With Condition	Not Available		2I	5C	1A	3L	5E
121	121	0	0	Aspen					
136	136	0	0	Herbaceous Openland					
292	292	0	0	Jack Pine					
26	20	0	6	Lowland Conifers				6	
50	38	0	12	Lowland Mixed Forest			12		
10	10	0	0	Lowland Shrub					
17	17	0	0	Lowland Spruce/Fir					
29	29	0	0	Marsh					
79	76	0	4	Natural Mixed Pines			4		
148	49	98	0	Planted Mixed Pines	8	91			
253	238	16	0	Red Pine		16			
11	6	0	5	Upland Conifers				5	
113	113	0	0	Upland Mixed Forest					
122	117	0	4	Upland Shrub					4
5	4	0	0	Urban			0		
49	43	0	5	White Pine			5		
1,460	1,309	114	37	Total Forested Acres	8	106	21	11	4
	90%	8%	3%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	1A: Federal/State/Local Law	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River 100' zone.							
2	Available	2I: Survey needed	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: corners needed							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Nicholas Wheeler: Examiner

Compartment: 125
Year of Entry: 2026

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Red Pine guidance							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Red Pine guidance							
5	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold for wildlife							
6	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: hold for wildlife							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	91	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	4	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



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
1	42220 - Natural Jack Pine	Poletimber Well	88.1	46	81-110	N/A	Young healthy fully stocked jack pine. A few residual red pine logs from the last stand are also present.																																						
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2	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	9.7	58	1-50	N/A	Mix of jack pine poles & regen, aspen clones and scattered upland brush. This stand was once a semi-open grassland but now it is gradually filling in with more jack pine and aspen.																																						
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3	42110 - Planted Red Pine	Sawtimber Medium	59.5	66	141-170	N/A	Red pine thinned 2 rotations ago.																																						
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White Pine	Low	Variable	Sapling																																										
4	42120 - Planted Jack Pine	Poletimber Well	53.1	22	1-50	N/A	Jack pine planted in 2002. About 75 % of the area is well-stocked with jack pine saplings (both planted and volunteers). Areas that appeared to be lower and wetter before the stand was harvested in 1999 in the eastern portion of the stand are more of a mix of jack pine and black spruce where the stocking levels are somewhat lower, but still within acceptable limits.																																						
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5	4319 - Mixed Upland Forest	Poletimber Medium	4.0	59	1-50	N/A	Old opening slowly filling in with jack pine and upland brush, etc. The age given here represents the oldest cohort of jack pine, but this stand actually has age class variation.																																						
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6	42290 - Natural Mixed Pine	Sapling Poor	19.7	15	1-50	N/A	Site is growing in and is slightly above 25% canopy closure.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
7	42210 - Natural Red Pine	Sawtimber Medium	4.5	104	111-140	N/A	Small stand of mature red pine - maintain for wildlife cover while the surrounding stands are in the process of growing up enough to serve that same purpose. This stand had scattered jack pine and spruce removed when the surrounding stands were cut.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		96	Log/XLog/Pole	15	104	Red Pine		Low	< 5 feet	Seeding
White Pine		4	Log/Pole	10		Red Pine		Low	Variable	Sapling
						Black Spruce		Low	Variable	Sapling
						White Pine		Low	Variable	Sapling
8	4130 - Aspen	Poletimber Well	29.0	35	1-50	N/A	Some areas feature less aspen and a mix of jack pine, red maple and upland brush spp. such as cherry.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		10	Log/Pole/XLog	10		Red Maple		Low	Variable	Sapling
Jack Pine		5	Pole	6		Pin Cherry		Low	Variable	Tall Shrub
Red Maple		10	Pole/Sapling	6		White Pine		Low	Variable	Sapling
Quaking Aspen		75	Pole	6	35					
9	42140 - Planted Mixed Pine	Poletimber Well	7.8	58	81-110	N/A	Jack pine ready to cut now. The age shown represents a cohort of jack pine that was planted to fill in a semi-open, uneven-aged stand that was occupying the site prior to the planting. Therefore older trees of all the species shown are also present.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		2	Log/Pole	10		Balsam Fir		Low	Variable	Sapling
White Pine		39	Log/Pole	10		White Pine		Medium	Variable	Sapling
Black Spruce		2	Pole/Log	7		Red Maple		Low	Variable	Sapling
Jack Pine		55	Log/Pole	10	58	Black Spruce		Low	Variable	Sapling
Red Maple		2	Pole	6						
10	429 - Mixed Upland Conifers	Poletimber Well	5.1	88	111-140	N/A	This stand is a mix of red maple and various conifers on rolling terrain. Unevenaged characteristics are evident throughout. The ages given here are from old inventory records, but older trees are present as well.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce		15	Log/Pole	13		White Pine		Low	Variable	Sapling
Red Maple		15	Log/Pole/Sap	10	50	Hemlock		Low	Variable	Sapling
Quaking Aspen		5	Log/Pole	12		Red Maple		High	Variable	Sapling
White Pine		35	Log/Pole	14	88	Balsam Fir		High	Variable	Sapling
Jack Pine		5	Log/Pole	12						
Balsam Fir		20	Pole/Log/Sap	8						
Hemlock		5	Log/Pole	14						
11	42140 - Planted Mixed Pine	Sapling Poor	49.2	7	Immature	N/A	Cut in 2006 and scarified in 2008. Trenched 5/10/16 Planted Spring 2017 with 30 JP @1000/acre			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		30	Sapling	4		Jack Pine		Medium	< 5 feet	Seeding
White Pine		25	Sapling	4		Red Pine		Low	< 5 feet	Seeding
White Pine		10	Log	14		White Pine		Medium	< 5 feet	Seeding
Jack Pine		35	Sapling	3	7					
12	3105 - Mixed Upland Herbaceous	Nonstocked	20.3		Unspecified	No				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
13	42110 - Planted Red Pine	Sawtimber Well	69.6	63	81-110	N/A	Fox River Carrot Pine, 41-030-16																																														
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14	42210 - Natural Red Pine	Sawtimber Medium	9.0	104	81-110	N/A	Stand of natural red pine.																																														
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15	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	6.1	88	51-80	N/A	This stand is a mix of white pine, hemlock, red maple and others on rolling terrain that represents a transitional habitat between the dry uplands and wetter lowlands. Unevenaged characteristics are evident throughout. The ages given here are from old inventory records, but older trees are present as well. Records indicate that partial cutting has occurred in this stand as recently as 1989.																																														
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16	4211 - Planted Red Pine	Sawtimber Poor	6.5	85	1-50	N/A	Fox River Carrot Pine, 41-030-16																																														
17	42290 - Natural Mixed Pine	Sawtimber Medium	41.7	74	51-80	N/A	Mix of old red and white pine 28 inches DBH scattered throughout. Stand is filling in well with saplings.																																														
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18	6239 - Mixed Emergent Wetland	Nonstocked	8.9		Unspecified	No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
19	6139 - Mixed Lowland Forest	Poletimber Well	37.6	35	1-50	N/A	Transitional site that was cut to regenerate aspen back in 1989 but no TSI was done. The stand now features an unevenaged mix of residual white pine logs, red maple and spruce poles, and young aspen/spruce/fir/red maple saplings just getting into the pole size classes.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		5	Sapling	3		Hemlock		
Quaking Aspen		15	Pole	6		Deciduous Shrubs		
Black Spruce		15	Pole/Log/Sap	9		Balsam Fir		
Red Maple		25	Pole/Sapling	5	35	White Pine		
Balsam Fir		15	Sapling/Pole	4		Red Maple		
Hemlock		10	Log/Pole	11				
White Pine		15	Log/Pole	12	104			
20	42120 - Planted Jack Pine	Poletimber Well	22.7	46	81-110	N/A	Healthy jack pine planted in 1978.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		100	Pole	7	46			
21	42120 - Planted Jack Pine	Sapling Well	24.2	21	Unspecified	N/A	Jack pine regen planted in 2003. A few residual red & white pine are present from the last stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		2	Log	12				
Jack Pine		98	Sapling	4	21			
22	3102 - Grass	Nonstocked	3.0		Unspecified	No		
23	42110 - Planted Red Pine	Sawtimber Medium	29.0	62	81-110	N/A	Red pine planted in 1962. Stand density is variable. Fox River Carrot Pine, 41-030-16	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		2	Log/XLog/Pole	16				
Red Pine		92	Log/Pole	10	62			
Jack Pine		6	Pole/Log	8				
26	3105 - Mixed Upland Herbaceous	Nonstocked	56.7		Unspecified	No	Fox River Carrot Pine, 41-030-16	
Sub-Canopy Species		Density	Avg. Height	Size				
Jack Pine		Low		Pole				
Red Pine		Low	Unspecified	Log				
27	42110 - Planted Red Pine	Sawtimber Medium	16.3	62	81-110	N/A	Red pine planted in 1962. Many older trees that predate the plantation are also present but the plantation is considered to be the featured stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		5	Pole/Log	9		White Pine		
White Pine		20	Log/XLog/Pole	14				
Red Pine		75	Log/XLog/Pole	14	62			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28	320 - Upland Shrub	Nonstocked	121.5		Unspecified	4211 - Planted Red Pine	Fox River Carrot Pine, 41-030-16 Trenched summer 2021Planted summer 2022, 5/9/2022, 805 tr/ac1st year check 777 TPASprayed aerial fall 2023. The residual RP in the eastern half forced the operator to spray from above the canopy in that portion of the site. We should monitor to see if the efficacy of the treatment differs from the western portion of the treatment area where he was able to fly closer to the ground.Also to note, there was a light frost on site when we arrived and temp was 38 degrees. Heavy fog in the area delayed spraying until almost 10:00am so the frost burned off and the temps rose considerably.
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30	4319 - Mixed Upland Forest	Poletimber Medium	53.0	35	51-80	N/A	Partially cut on several occasions, resulting in an an unevenaged mix of species. Stand composition, density and timber quality vary significantly throughout the stand, and the only reliable age class is the regen from the cut in 1989. The older age shown here is an estimate based on earlier inventory records.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Hemlock					3	Pole/Log/Sap	9		Red Maple				High	Variable	Sapling
Red Pine					2	Log/Pole	14		White Pine				Medium	Variable	Sapling
Quaking Aspen					22	Pole/Sapling	5		Hemlock				Low	Variable	Sapling
Red Maple					35	Sapling/Pole	5	35	Balsam Fir				Medium	Variable	Sapling
White Spruce					3	Log/Pole	12								
Balsam Fir					5	Sapling/Pole	5								
White Pine					30	Log/Pole	14	73							

31	42120 - Planted Jack Pine	Poletimber Medium	6.7	22	1-50	N/A	Jack pine planted in 2002 growing well.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	90	Pole/Sapling	5	22
Red Pine	7	Log	13	
White Pine	3	Log/Pole	10	

33	42290 - Natural Mixed Pine	Sawtimber Poor	8.6	95	51-80	N/A	Buffer between the Fox River and the Fox Ruver Rd.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Oak					2	Log/Pole	10		Red Maple				Low	Variable	Sapling
Paper Birch					3	Pole/Log	9		White Pine				Low	Variable	Sapling
Red Maple					5	Log/Pole	10	65							
Red Pine					20	Pole/Log	9								
White Pine					10	Log/XLog/Pole	12								
Red Pine					30	Log/XLog/Pole	14	95							
Jack Pine					30	Log/Pole	10								

34	42110 - Planted Red Pine	Sawtimber Medium	23.0	62	1-50	N/A	Red pine plantation established in 1962. Partial failures resulted in semi-open areas throughout the stand. Fox River Carrot Pine, 41-030-16
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Pine					95	Log/Pole/XLog	14	62	Red Pine				Low	Variable	Sapling
White Pine					5	Log/Pole/XLog	15		White Pine				Low	Variable	Sapling
									Red Maple				Low	Variable	Sapling
									Jack Pine				Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
36	42110 - Planted Red Pine	Sawtimber Medium	22.2	62	51-80	N/A	Red pine planted in 1962. Stand density is extremely variable. Fox River Carrot Pine, 41-030-16																																																																							
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39	110 - Low Intensity Urban	Nonstocked	4.5		Unspecified	Managed Opening																																																																								
40	3102 - Grass	Nonstocked	37.9		Unspecified	No	Fox River Carrot Pine, 41-030-16																																																																							
43	6139 - Mixed Lowland Forest	Sawtimber Well	12.2	95	81-110	N/A	Mixed timber on the slopes down to the Fox River and the flat bottomlands along the banks. The slopes are generally a pine/hardwood mix, while the bottomlands lean more toward a mix of spruce, fir and hardwoods.																																																																							
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45	42110 - Planted Red Pine	Sawtimber Medium	13.4	67	51-80	N/A	Red pine planted in 1957. There are also larger red & white pine present that predate the plantation. Fox River Carrot Pine, 41-030-16																																																																							
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47	4133 - Aspen, Mixed Pine	Sapling Medium	14.1	24	1-50	N/A	Aspen regen w/pockets of other regen including jack & white pines, spruce, red maple, etc. The stand's density and composition are variable, and there is some larger residual trees left over from the previous stand - primarily white pine with a few jack & red pine, red maple, etc.. The age given here reflects the age of the current aspen regen.																																																																							
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48	42200 - Natural White Pine	Sawtimber Well	12.8	95	81-110	N/A	Upland mix of pine & red maple etc. between the road and the slopes/bottomlands along the Fox River. Stand density/crown closure vary significantly.																																																																	
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49	42120 - Planted Jack Pine	Sapling Well	1.6	22	1-50	N/A																																																																		
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50	3102 - Grass	Nonstocked	18.6	0	Unspecified	4222 - Natural Jack Pine	Stand was cut then scarified in summer 2020. monitored and it failed, trench and plant next step																																																																	
51	42220 - Natural Jack Pine	Sapling Well	3.5	22	1-50	N/A	Young jack pine about 3-5 inches at DBH with a few log red and white pine.																																																																	
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52	42200 - Natural White Pine	Poletimber Well	33.3	83	111-140	N/A	Natural white pine with red maple and a variety of other species mixed in.																																																																	
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53	42140 - Planted Mixed Pine	Sawtimber Well	90.7	90	51-80	N/A	14-18" red pine logs (probably of natural origin) and a generation of poles planted in 1960-62 that are now 7-12". There are also scattered jack pine throughout.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54 6239 - Mixed Emergent Wetland Nonstocked 19.7 Unspecified No

55 42220 - Natural Jack Pine Sawtimber Medium 27.9 58 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log	12		White Pine	Low	Variable	Sapling
Red Pine	5	Log/Pole	14					
Quaking Aspen	5	Pole/Log	9					
Jack Pine	65	Log/Pole	10	58				
White Pine	20	Log/XLog/Pole	14					

Jack pine with a lot of white pine in some places, and scattered red pine/aspens in others. The jack pine is listed as having a year of origin of 1966, but that appears to have been plantings that filled in some of the open areas. The white pine displays a lot of age & size class diversity since many are residuals from the previous stands.

56 4133 - Aspen, Mixed Pine Sapling Well 77.7 31 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	5	Pole/Sapling	6		Red Maple	Medium	< 5 feet	Sapling
Red Maple	20	Pole/Sapling	6		Balsam Fir	Medium	< 5 feet	Sapling
Paper Birch	2	Pole/Sapling	5					
Balsam Fir	3	Sapling/Pole	4					
Quaking Aspen	50	Pole/Sapling	6	31				
White Pine	20	Pole/Sapling	5					

Young aspen, last cut in 1993. Pockets of both mixed aspen/conifers and jack pine regen are scattered throughout the stand, but overall aspen is dominant throughout. The basal area shown represents the scattered red and white pine logs/poles that were left from the previous stand.

57 6122 - Black Spruce Sapling Poor 17.4 14 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	3	
White Pine	10	Sapling	3	
Black Spruce	60	Sapling	2	14

Stand is fully forested.

58 42200 - Natural White Pine Sawtimber Well 2.4 83 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Log/Pole	9		Balsam Fir	Low	Variable	Sapling
White Pine	75	Log/Pole/XLog	14	83	Red Maple	High	Variable	Sapling
Red Pine	10	Log/Pole/XLog	14					
Balsam Fir	5	Pole/Log	8					
Red Maple	5	Pole/Log	8	50				

Natural white pine along with red maple and a mix of other conifers. The stand is becoming unevenaged as a cohort of white pine/red maple regen has become pole-sized, while the older white pine etc. are significantly larger. The understory is primarily red maple and balsam fir 0-2" DBH.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
59	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	20.2	15	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		40	Sapling	2	15	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine		15	Sapling	2					
Paper Birch		15	Sapling	2					
Tamarack		15	Sapling	2					
Red Pine		6	Log/XLog	14	75				
Red Pine		5	Sapling	1					
White Pine		4	Log	12					
60	6229 - Mixed lowland shrub	Nonstocked	10.4		Unspecified	No			
61	429 - Mixed Upland Conifers	Sawtimber Medium	5.8	83	81-110	N/A	Red maple and a mix of conifers. The stand is unevenaged as a cohort of white pine/red maple/spruce regen has become pole-sized. The understory is primarily red maple and balsam fir 0-2" DBH.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Log/Pole	11	83	Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen		35	Pole/Log	9	55	Red Maple	Medium	Variable	Sapling
Balsam Fir		10	Pole	6					
White Pine		2	Log/Pole	10					
Red Pine		43	Log	12	83				
Black Spruce		5	Pole	6					
62	42220 - Natural Jack Pine	Sapling Well	54.4	33	1-50	N/A	Young jack pine - the site is relatively dry in the northwest part of the stand but gradually transitions to lower ground as it drops to the south and east. The spruce component is more noticeable along the south edge of the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		15	Sapling/Pole	4		Black Spruce	Low	< 5 feet	Sapling
Red Pine		2	Log	12					
White Pine		3	Log	12					
Jack Pine		80	Pole/Sapling	6	33				
63	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	9.6	83	51-80	N/A	Semi-open stand of mixed pine and deciduous trees on rolling terrain.. Evidence of partial cutting in places and age class diversity, resulting in great variations in density, composition, etc.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		33	Log/Pole/XLog	14	83	White Pine	Medium	Variable	Sapling
Quaking Aspen		10	Pole	8		Balsam Fir	Low	Variable	Sapling
Jack Pine		10	Pole/Log	9		Deciduous Shrubs	Medium	Variable	Tall Shrub
White Pine		22	Log/Pole/XLog	14	50	Red Maple	Medium	Variable	Sapling
Black Spruce		2	Pole/Sapling	6					
Balsam Fir		2	Pole/Sapling	6					
Paper Birch		3	Pole	6					
Red Maple		15	Pole	6					
Black Cherry		3	Pole/Sapling	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
64	4319 - Mixed Upland Forest	Sapling Medium	55.8	14	Immature	N/A	This stand is fully forested and filling in well.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	15	Log	13	75
Black Spruce	25	Sapling	1	
Red Maple	35	Sapling	1	14
White Pine	25	Sapling	1	