



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41123

Entry Year 2023

Acreage: 2,730

County Schoolcraft

Management Area: Bullock Ranch

Stand Examiner: Scott Kentner

Legal Description:

T46N R13W Section 18 and T46N R14W Sections 3 & 10 - 15

Identified Planning Goals:

To provide users with a variety of benefits commonly associated with publicly-owned forest lands.

Soil and topography:

Sandy soils on generally flat to very gently rolling terrain. Much of section 15 is poorly drained and inaccessible.

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

Most of section 13 and 120 acres in section 14 are privately owned. There are numerous camps to the southeast along the Fox River Rd., but only one within the compartment area in section 13. Overall, this area is popular for a wide variety of recreational pursuits, and state-owned lands have been managed intensively for timber production.

Unique Natural Features:

The Fox River is listed as a Michigan Natural River.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

The Fox River corridor is defined as a High Conservation Value Area (HCVA), with an approved management plan. The Fox River Plan defines allowable forest management activities along the river corridor and its tributaries. Aesthetics are also an important consideration along the Fox River Rd. and in this compartment. Both the Fox River Pathway (hiking trail) and a groomed snowmobile trail pass through this area.

Watershed and Fisheries Considerations:

This compartment contains the Fox River and Hudson Creek. The Fox River and Hudson Creek are designated trout streams less than 50' width and have predicted mean July temperatures that range from 58.1 to 63.0 °F (cold streams). 300' buffers are recommended for the Fox River and Hudson Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 200' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with the Fox River Natural Rivers Management Plan and Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46 F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes indicate that the lowlands in this compartment were historically dominated by spruce and tamarack with red pine and white pine mixed in. Uplands held a mix of hemlock, yellow birch, beech, white pine, red pine, and red maple. Wild fire and windthrow likely were the major forms of natural disturbance. The current forest has little resemblance to that found by the original surveyors circa 1850. Jack pine now dominates the forest cover within the compartment. Rather unsuccessful attempts have been made to establish red pine plantations in sections 10 and 11. However, tamarack and black spruce do occur as dominant species in portions of section 15. Wildlife habitat objectives include maintaining age and structural diversity within the conifer forest and promoting super-canopy trees by maintaining red and white pine within clearcuts. Gray wolves (Federal and Michigan Endangered) and sharp-tailed grouse are known to utilize the habitat within this compartment. The regenerating jack pines within this compartment are good examples of an area that has served as temporary sharptail habitat without being removed from forest production. Other species of interest include blue bird, spruce grouse, least chipmunk, and coyote.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica and Collingwood Shales and Trenton Limestone subcrop below the glacial drift. The

Trenton is 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:

Access is generally excellent in the north half of the compartment, but considerably more difficult in the south half where wet ground makes vehicle access questionable in any season except winter.

Survey Needs:

Recreational Facilities and Opportunities:

The Fox River State Forest Campground lies on the south bank of the river in section 11. Both the Fox River Pathway and a snowmobile trail run through this compartment. The area is also very popular for a variety of other forms of dispersed recreation such as hunting, fishing and berry picking.

Fire Protection:

Access problems (see Vehicle Access above) could make fire suppression very difficult in the south part of this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

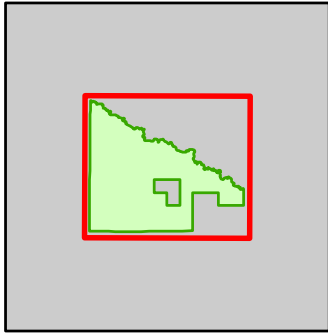
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

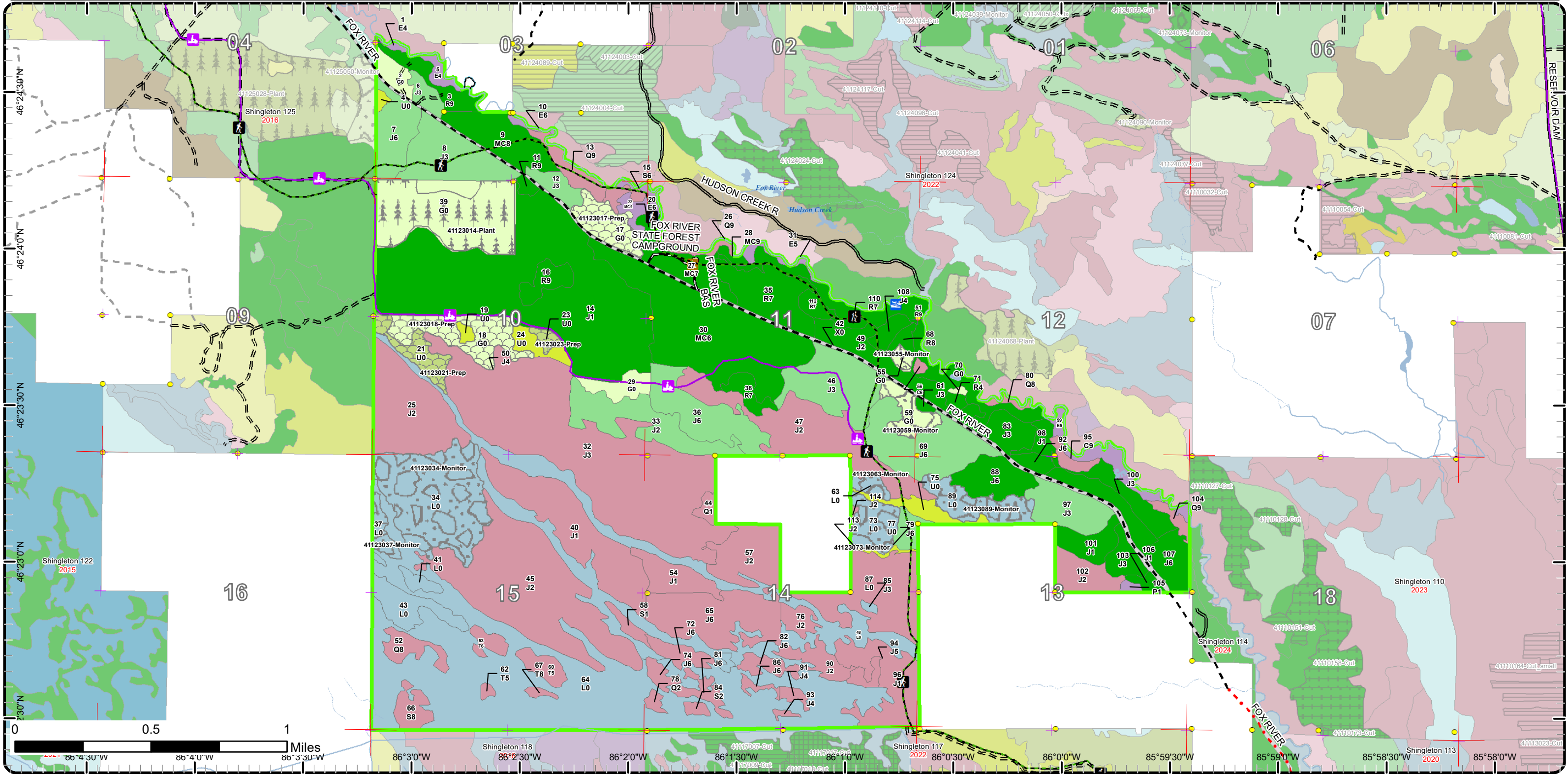
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 123
 T46N, R14W, Sec. 3, 10-15
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2023
 Acres: 2730.1 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 1/28/2022
 Map Phase: Post Review

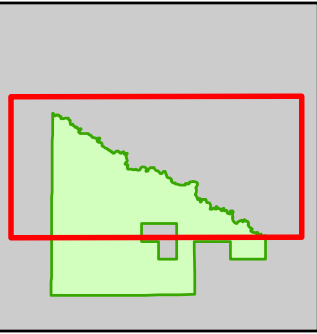


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Boating Access Site
- Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Unspecified
- Lakes and Rivers
- Compartment Boundary
- Planting (tree species)
- Regeneration Survey
- Site Prep
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

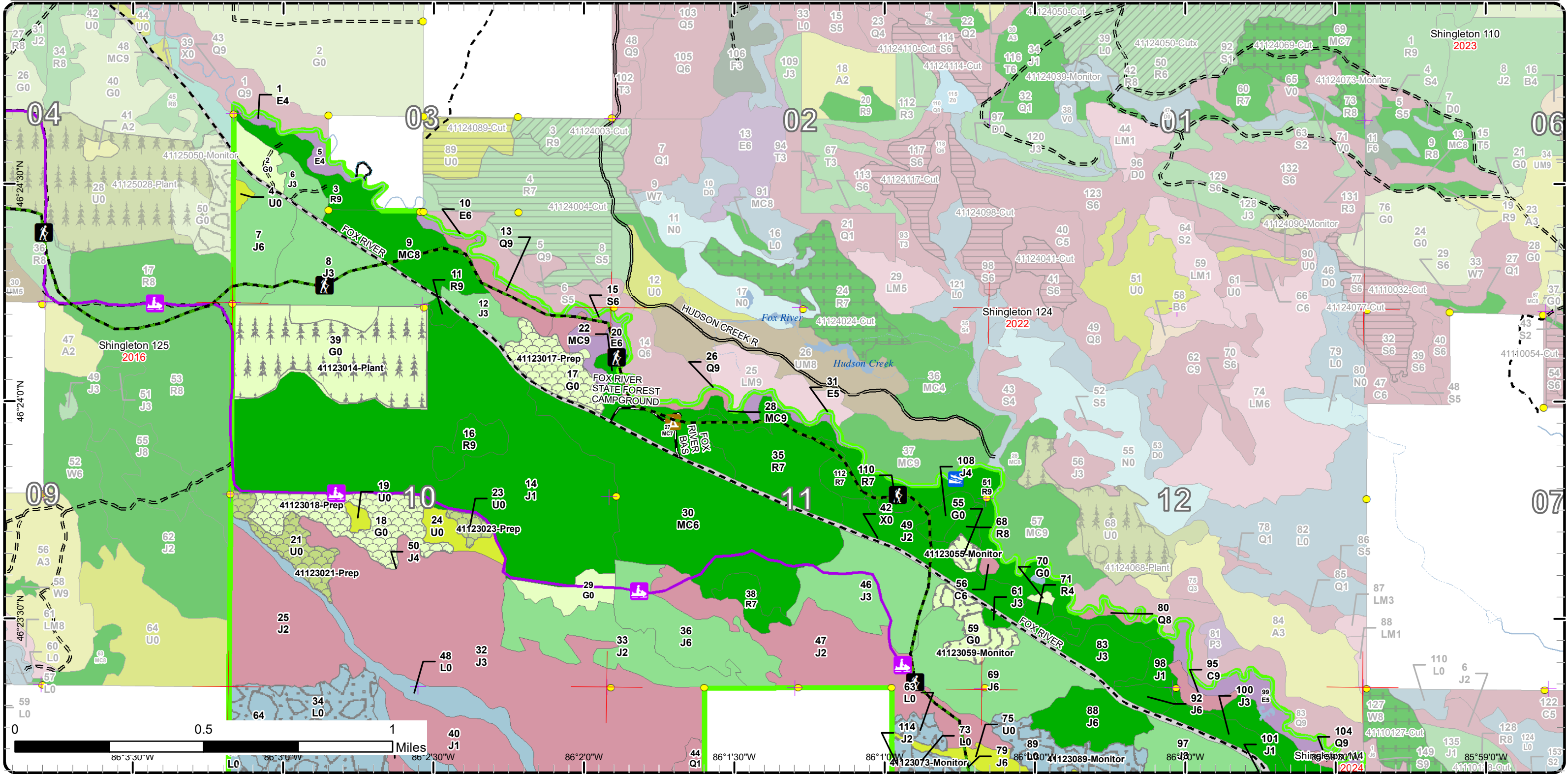


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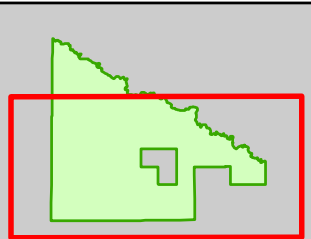


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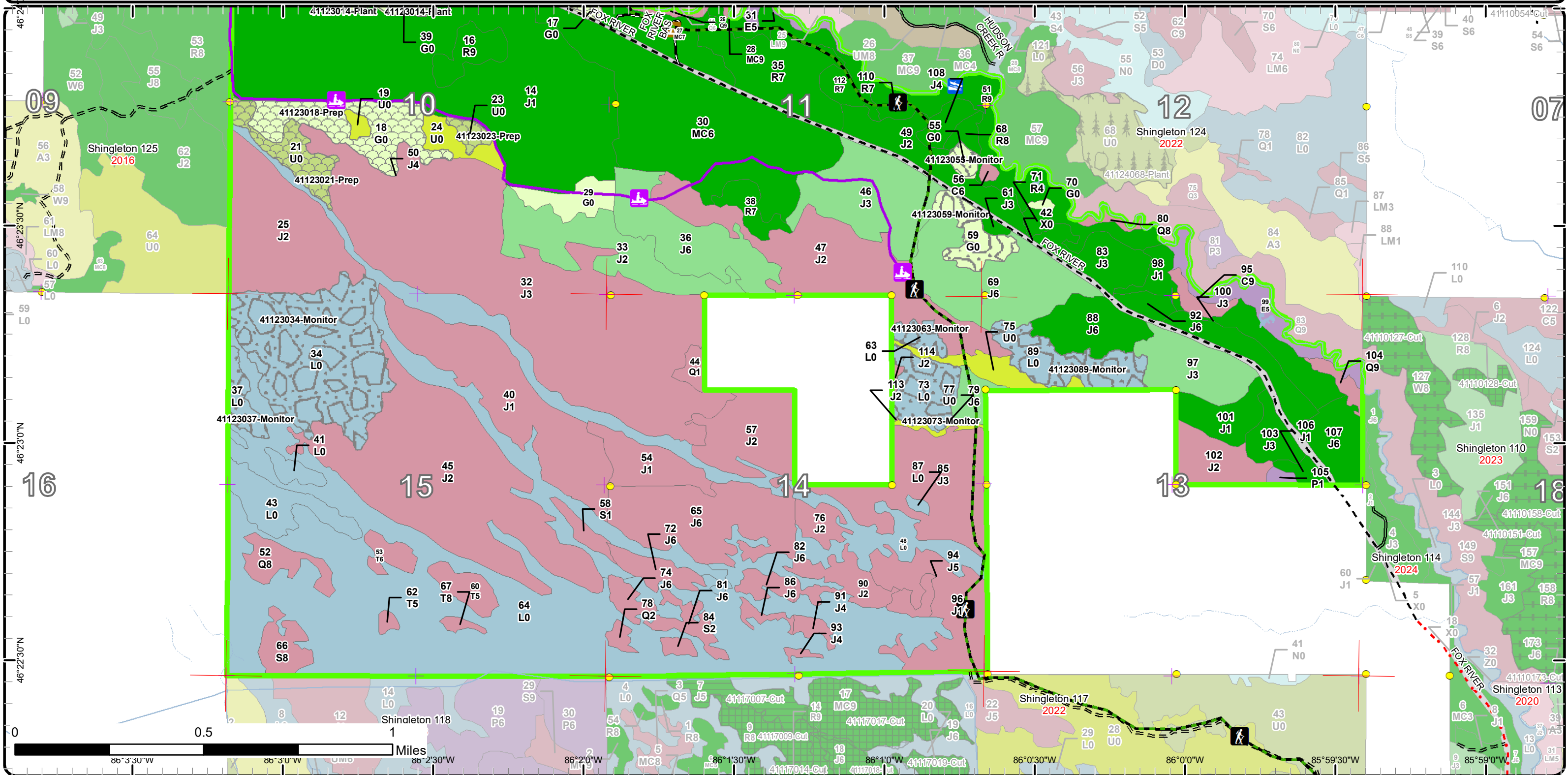


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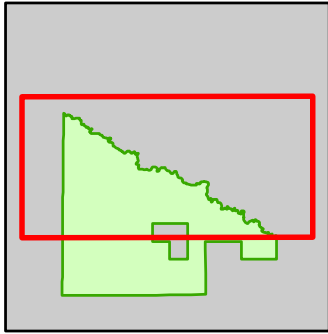


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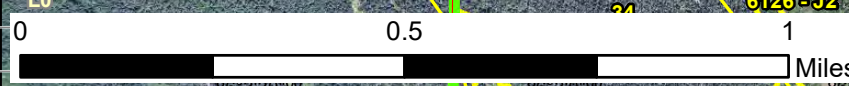
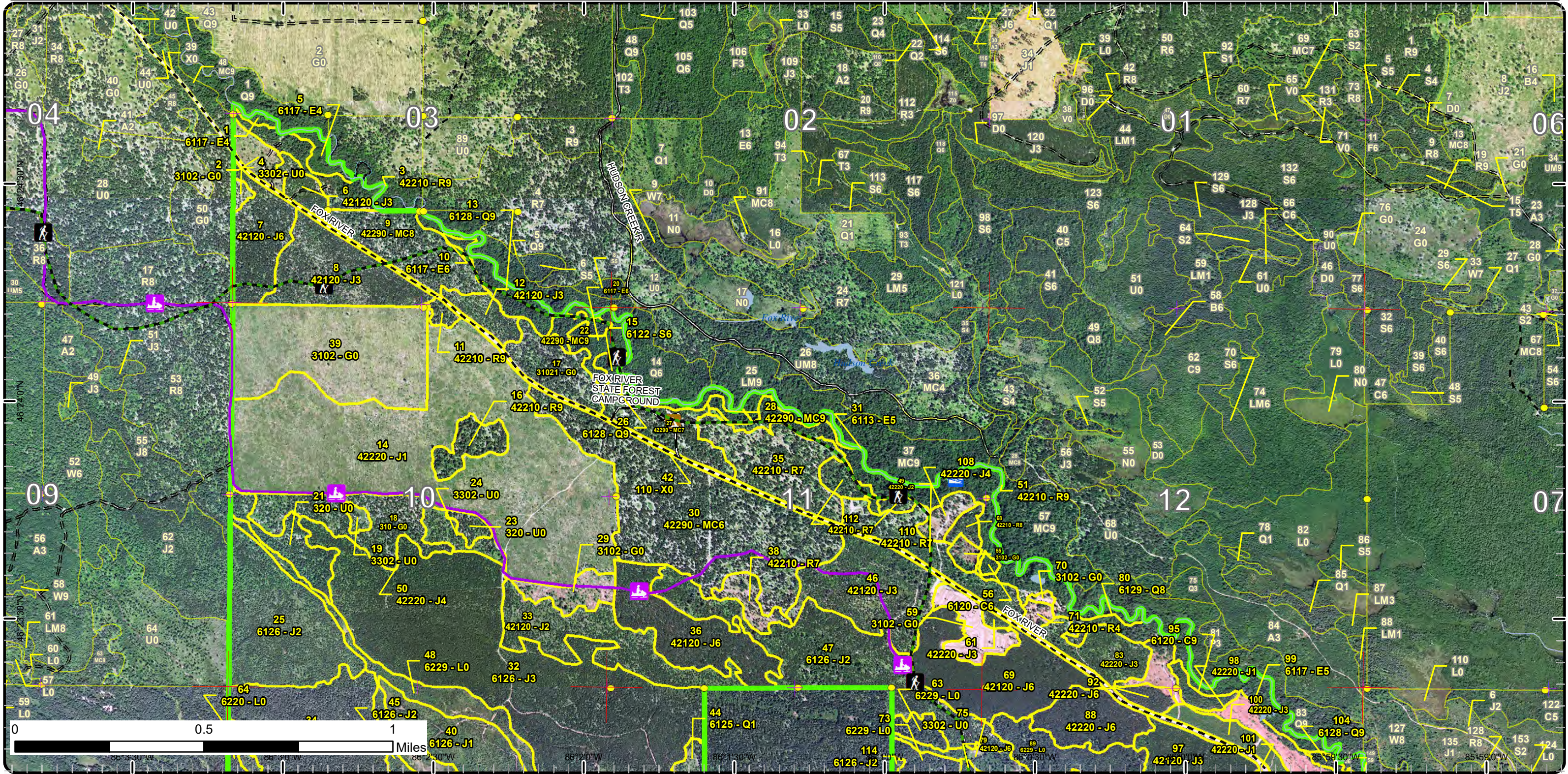


Stand Boundary Map

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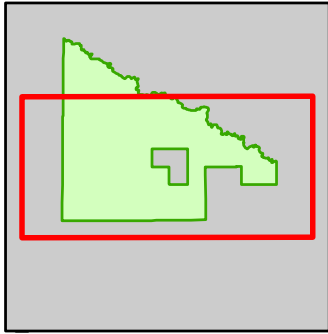


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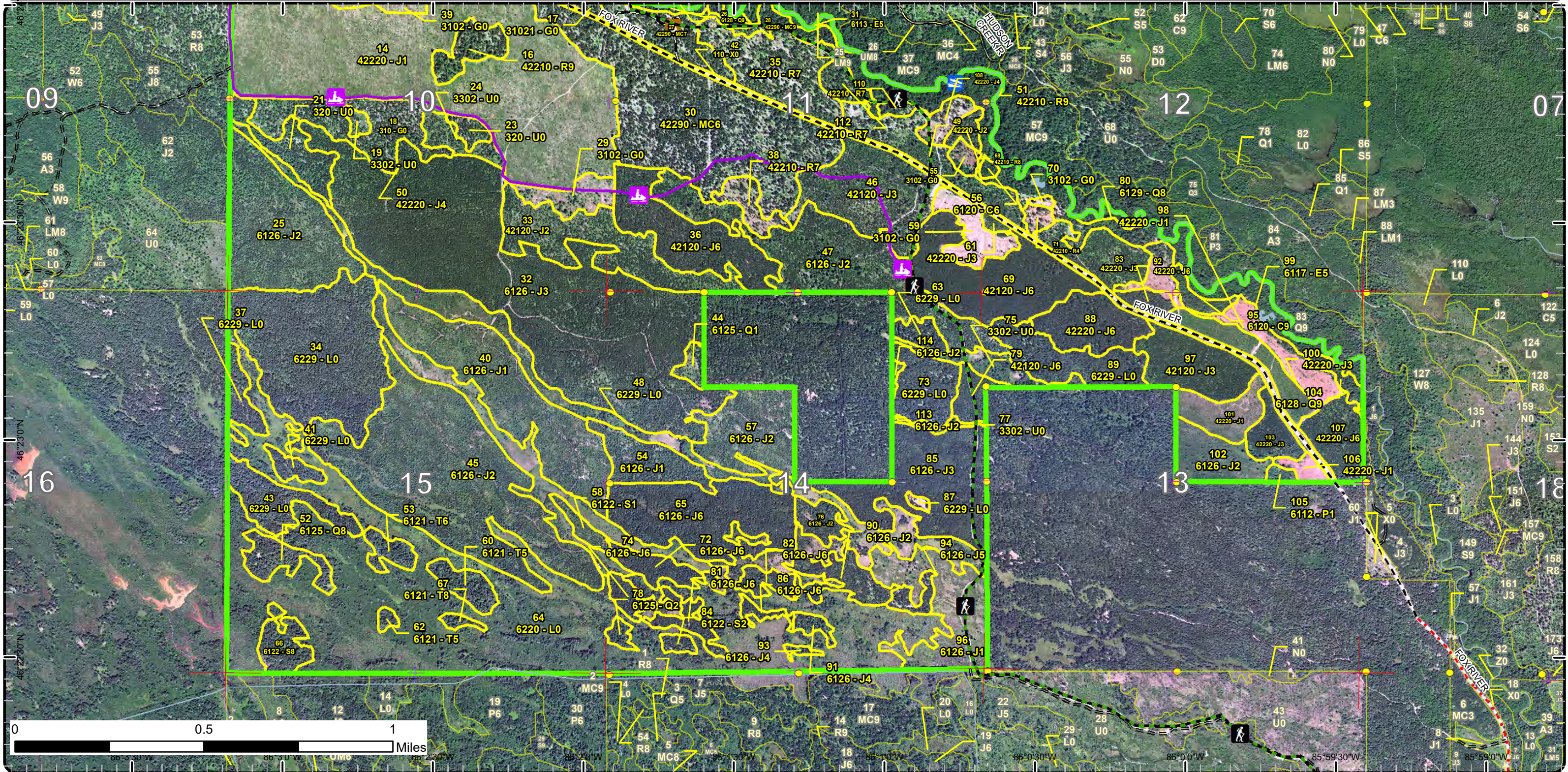


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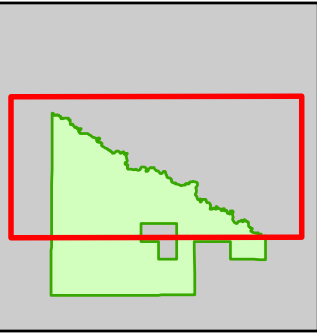


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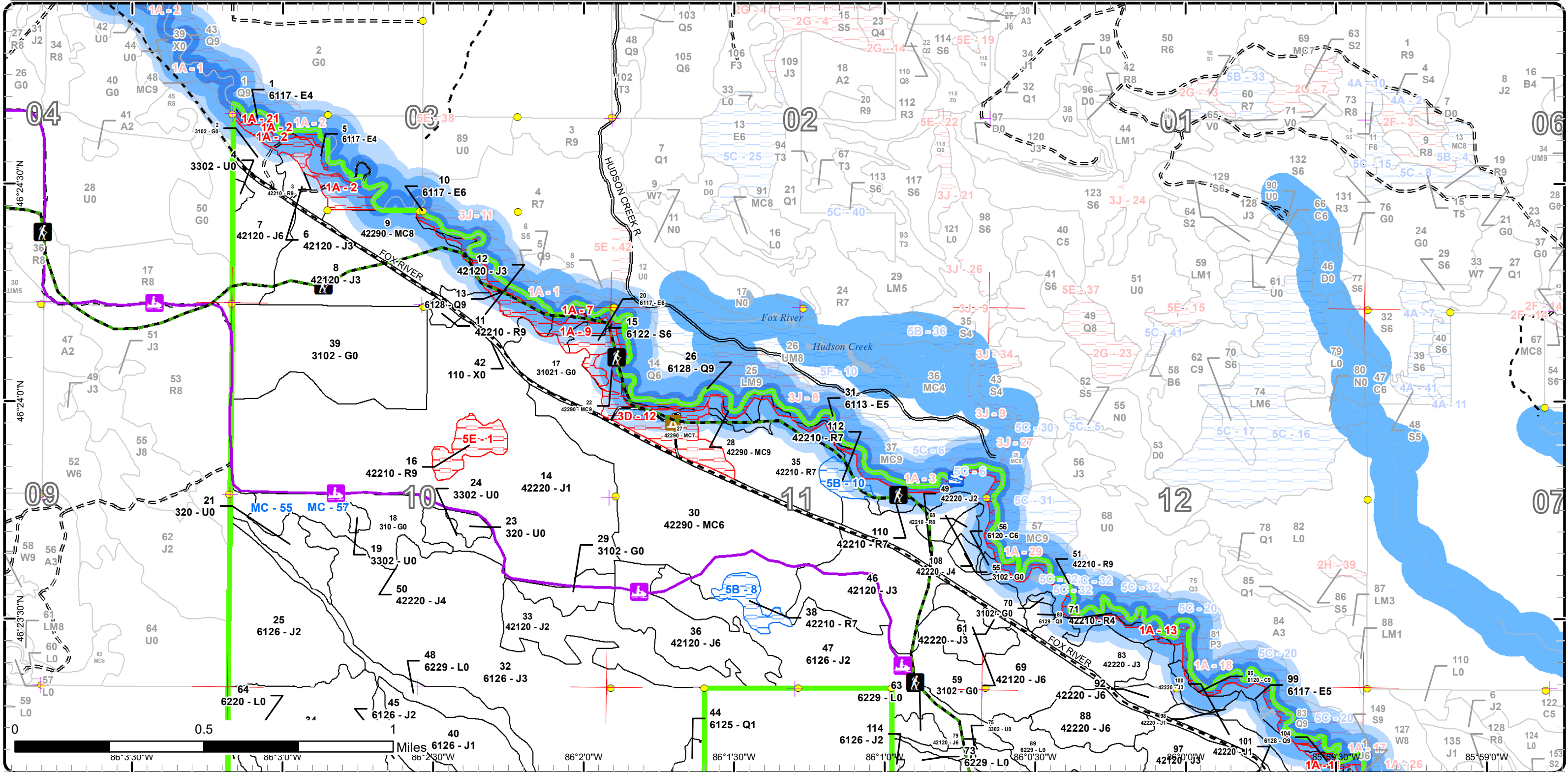
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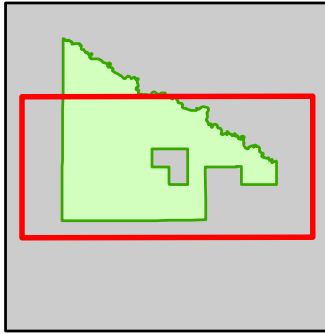
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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

5B: Maintain for regeneration purposes
 1A: Federal/State/Local Law
 3D: Recreational / Scenic values
 5E: Long-Term Retention

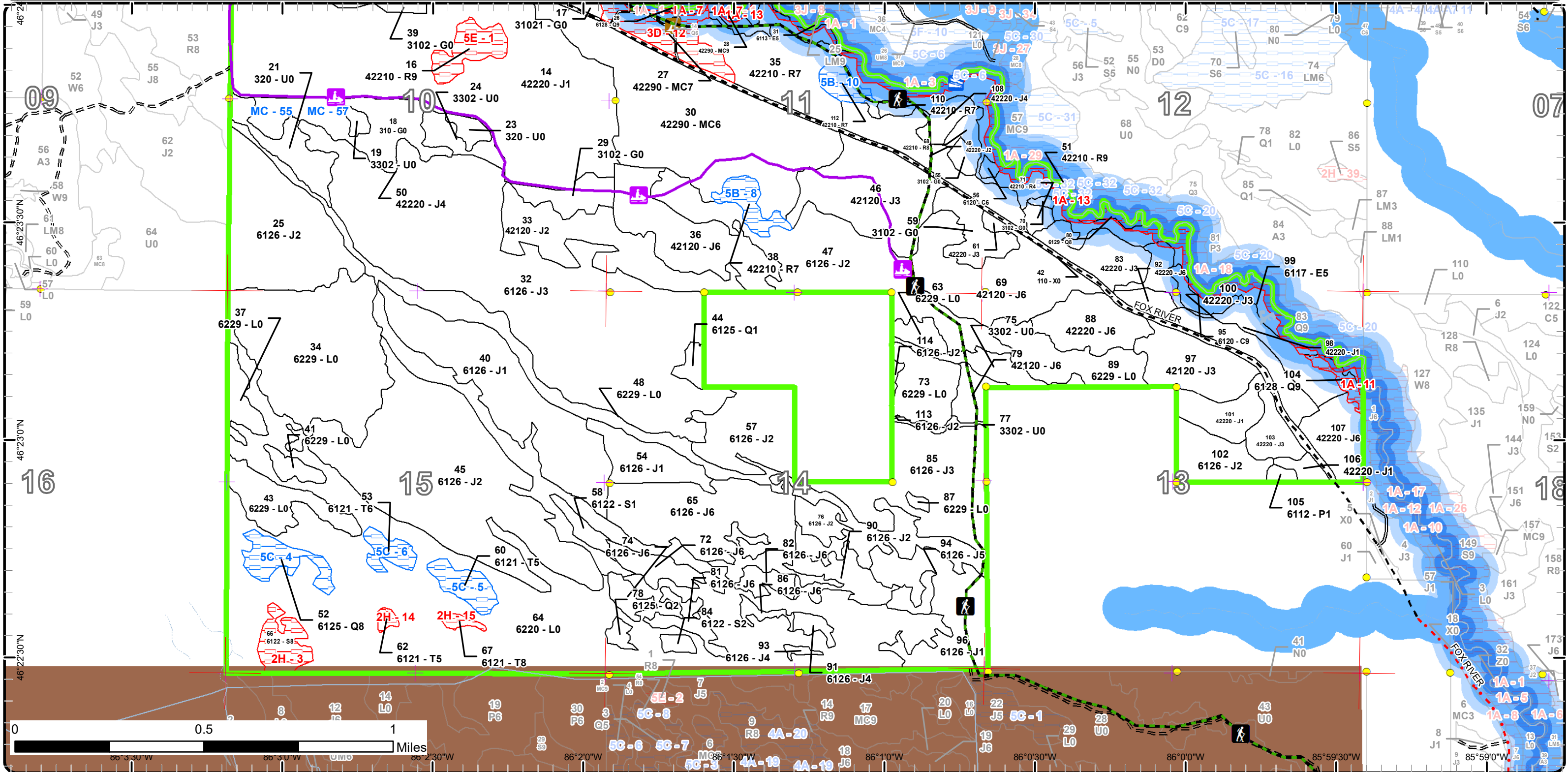


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- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 1A: Federal/State/Local Law
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality



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
Cedar	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Herbaceous Openland	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
Jack Pine	0	245	87	507	501	80	67	0	0	0	0	0	0	0	0	0	0	0	1486
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Aspen/Balsam Poplar	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	7	0	0	0	0	0	11	5	7	0	0	0	0	12	42
Lowland Deciduous	0	0	0	0	0	0	0	18	9	16	0	0	0	0	0	0	0	0	41
Lowland Shrub	572	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	572
Lowland Spruce/Fir	0	0	0	5	3	0	0	0	0	5	11	0	0	0	0	0	0	0	23
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	51	0	4	0	0	0	0	0	113	168
Red Pine	0	0	0	0	0	0	5	0	10	11	0	0	26	0	0	0	0	83	135
Tamarack	0	0	0	0	0	0	0	0	16	0	2	0	0	0	0	0	0	0	18
Upland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Urban	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Total	812	245	89	512	511	80	72	18	35	83	24	5	43	0	0	0	0	208	2733



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 123

Total Compartment Acres: 2,730

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	70	70	0	0	157	0	0		297
Next Step	0	0	19	0	0	19	184	0	0	222
Total	0	70	89	0	0	19	341	0	0	519



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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:

39	41123014-Plant	70.3	3102 - Grass	Nonstocked			Planting	Replant	42110 - Planted Red Pine	Even-Aged	No
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Prescription replant stand to RP.

Specs:

Next Step Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

17	41123017-Prep	19.0	31021 - Cool Season Grass	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Two-Aged	No
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Prescription trench and plant RP.

Specs:

Next Step ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release

Treatments:

Acceptable Red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

18	41123018-Prep	31.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	SitePrep	Scarification	4222 - Natural Jack Pine	Even-Aged	No
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Prescription scarify stand.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable any species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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21	41123021- Prep	15.4	320 - Upland Shrub	Nonstocked	0	Unspec ified	SitePrep	Scarification	42290 - Natural Mixed Pine	Even-Aged	No
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Prescription

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable any species

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

23	41123023- Prep	3.8	320 - Upland Shrub	Nonstocked	0	Unspec ified	SitePrep	Scarification	42220 - Natural Jack Pine	Even-Aged	No
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Prescription

Specs:

Next Step ; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

34	41123034- Monitor	83.0	6229 - Mixed lowland shrub	Nonstocked	2021	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6126 - Lowland Jack Pine	Even-Aged	No
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Prescription

Specs:

Next Step

Treatments:

Acceptable any species on site

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 9 /21/2021

37	41123037- Monitor	8.0	6229 - Mixed lowland shrub	Nonstocked	2021	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6126 - Lowland Jack Pine	Even-Aged	No
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Prescription

Specs:

Next Step

Treatments:

Acceptable any species on site.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 9 /21/2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
55 41123055-Monitor	3.2	3102 - Grass	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> regen check <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Black spruce, Jack pine, Red Pine, white pine, aspen, red maple, oak <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
59 41123059-Monitor	13.6	3102 - Grass	Nonstocked	0		Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> check <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Jack pine, Red pine, white pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
63 41123063-Monitor	5.6	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> regen check. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> any species <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
73 41123073-Monitor	18.4	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> regen check <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> any species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
89 41123089-Monitor	24.7	6229 - Mixed lowland shrub	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species on site.</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 /2023</p>										

Total Treatment
Acreage Proposed: 296.8

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 123
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions									
		With Condition			5B	5C	MC	1A	2H	3D	5E			
6	6	0		0	Cedar				0					
168	168	0		0	Herbaceous Openland			0	0					
1485	1485	0		0	Jack Pine				0					
25	25	0		0	Low-Density Trees			0						
2	2	0		0	Lowland Aspen/Balsam Poplar									
41	7	11		23	Lowland Conifers		11		23					
42	9	0		32	Lowland Deciduous				32					
572	572	0		0	Lowland Shrub									
23	7	0		15	Lowland Spruce/Fir				5	11				
166	145	0		22	Natural Mixed Pines				3		19			
134	77	14		43	Red Pine	14			32				11	
18	0	15		4	Tamarack		15			4				
19	19	0		0	Upland Shrub									
27	27	0		0	Urban									
2,730	2,551	40		139	Total Forested Acres	14	26	0	95	14	19		11	
	93%	1%		5%	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	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	1A: Federal/State/Local Law	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Scott Kentner: Examiner

Compartment: 123
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3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	1A: Federal/State/Local Law	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River 100' zone							
8	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 123
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9	Unavailable	1A: Federal/State/Local Law	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Majority falls within the Fox River natural river management zone							
10	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Majority of stand is within Fox Natural River zone							
12	Unavailable	3D: Recreational / Scenic values	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River Campground is located within this stand and all trees should be maintained for scenic/ recreational proposes.							
13	Unavailable	1A: Federal/State/Local Law	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River 100' zone							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Scott Kentner: Examiner

Compartment: 123
 Year of Entry: 2023

15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River natural river 100' zone							
55	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Available	Minor Change in Acreage	0				
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
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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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
1	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	1.7	72	1-50	N/A	HCVA - Fox River. Mix of balsam fir, red maple & lowland brush along the Fox River.																																																												
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2	3102 - Grass	Nonstocked	8.2	0	Unspecified	4222 - Natural Jack Pine	TS: Jack on the Fox, 41-033-13-01 Scarified summer 2016 good regen, moderately stocked will seed in more. site passes regen check.																																																												
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3	42210 - Natural Red Pine	Sawtimber Well	14.3	112	81-110	N/A	HCVA - Fox River. Red pine mix on the transitional sites between the dry uplands and the river bottom. Maintain for aesthetics/wildlife habitat per the Fox River Plan, as this stand falls almost entirely within the buffer zone. The upper edge includes a few jack pine.																																																												
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4	3302 - Low Density Conifer Trees	Nonstocked	1.9			No	This area is mostly open, but is slowly filling in with jack pine regen after being cut in approximately 1977. A few scattered poles (mixed pine) are also present. Over time stocking may reach manageable levels, but it just isn't there yet.																																																												
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11	42210 - Natural Red Pine	Sawtimber Well	2.6	87	51-80	N/A	Pocket of larger pine left for aesthetics along the Fox River Rd. - maintain at least until the large cut adjacent to the south is fully regenerated. 2-storied stand characteristics are developing.																																																							
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12	42120 - Planted Jack Pine	Sapling Well	9.4	29	Immature	N/A	Young jack pine with a few scattered residuals from the previous stand, especially near the road.																																																							
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13	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	11.5	91	111-140	N/A	HCVA - Fox River. This stand occupies the transitional slopes between the dry uplands and the Fox River. The Fox River Pathway runs through this stand.																																											
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Red Maple	High	Variable	Sapling																																															
14	42220 - Natural Jack Pine	Sapling Poor	218.1	9	1-50	N/A	Site planted partly in 2012 and finished planting 2015. First year check done in 2016 passed (minimum). 3rd yea check only 432 TPA needs to be sprayed to kill JP competition then replanted. Sprayed summer 2020.																																											
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15	6122 - Black Spruce	Poletimber Well	4.7	82	81-110	N/A	HCVA - Fox River. Black spruce with large white pine throughout - maintain in accordance with the Fox River Plan.																																											
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16	42210 - Natural Red Pine	Sawtimber Well	11.3	112	81-110	N/A	Retention area from when the surrounding stand was recently harvested.																																											
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17	31021 - Cool Season Grass	Nonstocked	19.6	0	Unspecified	4211 - Planted Red Pine	Semi-open red pine with jack pine and other spp. mixed in - stand was cut in the early 1990's (sale closed in 1993.) Harvest now and regenerate red pine. Basal area varies from over 100 sq.ft./acre down to zero. Cut now - reserve approx. 20-40 sq.ft./acre of large pine plus any paper birch and oak. trench and plant RP. cut in summer 2021.																																											
18	310 - Herbaceous Openland	Nonstocked	31.9	0	Unspecified	4222 - Natural Jack Pine	sale cut summer, 21.																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 3302 - Low Density Conifer Trees Nonstocked 2.3 No

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low		Pole
White Pine	Low		Pole
Jack Pine	Low		Pole

20 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 10.5 82 51-80 N/A

HCVA - Fox River. The Fox River Pathway also runs through this stand. Maintain for aesthetics and as a buffer along the river.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole	8	
Balsam Poplar	3	Log	12	
White Pine	5	XLog/Log	20	
Red Maple	35	Pole/Log	9	81
Black Spruce	15	Log	12	
Paper Birch	35	Log/Pole	11	
Northern White Cedar	5	Log/XLog	16	

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

21 320 - Upland Shrub Nonstocked 15.5 0 Unspecified 4222 - Natural Jack Pine cut summer 2021

22 42290 - Natural Mixed Pine Sawtimber Well 3.5 112 111-140 N/A

HCVA - Fox River. White pine and spruce on a transitional zone between the dry uplands and the lowlands adjacent to the river.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	7	Log	14	
White Pine	53	Log/XLog	14	111
Black Spruce	38	Log/Pole	10	
Jack Pine	2	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	High	Variable	Sapling

23 320 - Upland Shrub Nonstocked 3.8 0 Unspecified 4222 - Natural Jack Pine cut summer 2021

24 3302 - Low Density Conifer Trees Nonstocked 8.3 No

merge with 23

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low		Sapling
Jack Pine	Low		Pole
Red Pine	Low		Pole
Bracken Fern	Medium		Non-Wood
Blueberry/Bilberry/Cranberry	Medium		Tall Shrub
Jack Pine	Low		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
25	6126 - Lowland Jack Pine	Sapling Medium	59.9	31	1-50	N/A	Mix of upland and lowland habitats featuring jack pine regeneration with a few black spruce mixed in.																																																											
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26	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.7	105	111-140	N/A	HCVA - Fox River. Mixed stand along the Fox River flood plain - maintain in accordance with the Fox River Plan. Age class diversity is developing.																																																											
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Red Maple	Medium	Variable	Sapling																																																															
27	42290 - Natural Mixed Pine	Sawtimber Poor	19.6	86	81-110	N/A	Fox River High Conservation Value Area (Site condition 1A). Recreation site - Fox River State Forest Campground. Seven campsites, two pit toilets and two garbage cans at facility. Fox River Pathway passes through stand.																																																											
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28	42290 - Natural Mixed Pine	Sawtimber Well	2.3	112	171-200	N/A	HCVA - Fox River. Large white & red pine on a transitional site just above the fox River flood plain. Maintain in accordance w/the Fox River Plan. merge with 51 and make data this stand																																																											
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29	3102 - Grass	Nonstocked	11.2	2021	Unspecified	4222 - Natural Jack Pine	TS: Jack on the Fox, 41-033-13-01 Scarified summer 2016, fully stocked with u nextp. will be forested stand entry if growth continues																																																											
30	42290 - Natural Mixed Pine	Poletimber Well	110.4	76	81-110	N/A																																																												
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31	6113 - Lowland Maple	Poletimber Medium	4.5	87	1-50	N/A	HCVA - Fox River. Primarily red maple on a wet site along the flood plain - maintain per the Fox River Plan. Crown closure is highly variable.																																									
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32	6126 - Lowland Jack Pine	Sapling Well	218.1	31	1-50	N/A	Young, fully stocked jack pine with some areas that are about a 50/50 mix of jack pine/black spruce. Scattered tamarack are also present throughout the stand.																																									
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33	42120 - Planted Jack Pine	Sapling Medium	40.7	31	1-50	N/A																																										
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34	6229 - Mixed lowland shrub	Nonstocked	83.3	2021	Unspecified	4222 - Natural Jack Pine	TS: 41-0. winter fox cut last entry, non stocked scarified summer 2021.																																									
35	42210 - Natural Red Pine	Sawtimber Poor	35.6	76	51-80	N/A	Jack on the fox TS: 41-033-13-01 stand was thinned last entry, is now a mix of red and white pine pole sized trees.																																									
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36	42120 - Planted Jack Pine	Poletimber Well	39.2	56	81-110	N/A	mature jack pine, 5 to 6 sticks in height																																									
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37	6229 - Mixed lowland shrub	Nonstocked	8.8	2021	Unspecified	4222 - Natural Jack Pine	"Winter Fox" cut last entry, non stocked scarified summer 2021.																																									
38	42210 - Natural Red Pine	Sawtimber Poor	8.4	81	1-50	N/A	TS: Jack on the Fox, 41-033-13-01 Scarified summer 2016 regen is thick and 2 to 3 ft in height																																									
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39	3102 - Grass	Nonstocked	79.5			42110 - Planted Red Pine	Site planted partly in 2012 and finished planting 2015. First year check done in 2016 passed (minimum). 3rd yea check only 432 TPA needs to be sprayed to kill JP competition then replanted. Sprayed summer 2020.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	6126 - Lowland Jack Pine	Sapling Poor	66.8	24	1-50	N/A	Primarily lowland jack pine regeneration. The habitat consists of intermittent strips of sandy uplands featuring ground cover spp. such as blueberry and grasses, and wetter lowlands where labrador tea is the dominant ground cover species.
Canopy Species		% Cover	Size Class	DBH	Age		
Tamarack		3	Sapling	1			
Jack Pine		94	Sapling	2	23		
Black Spruce		3	Sapling	1			
41	6229 - Mixed lowland shrub	Nonstocked	4.8	2021	Unspecified	4222 - Natural Jack Pine	"Winter Fox" cut last entry, non stocked stand was never scarified due to wet conditions, check for regen at next inventory cycle.
42	110 - Low Intensity Urban	Nonstocked	26.7			No	Fox River Road
43	6229 - Mixed lowland shrub	Nonstocked	19.0	2021	Unspecified	4222 - Natural Jack Pine	winter fox sale, cut last entry, non stocked. Stand was never scarified due to wet conditions, check for regen at next inventory cycle.
44	6125 - Lowland Black Spruce, Jack Pine	Sapling Poor	4.1	31	Immature	N/A	Semi-open pocket of regeneration - still filling in, with a lot of spruce seedlings present. Ground flora (reindeer moss, grass & blueberry) indicate that this is a somewhat dryer site than the adjacent jack pine stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		5	Sapling	1			
Jack Pine		45	Sapling	3	32		
Black Spruce		45	Sapling	2	32		
45	6126 - Lowland Jack Pine	Sapling Medium	126.1	23	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Tamarack		10	Sapling	3			
Jack Pine		60	Sapling	4	23		
Black Spruce		30	Sapling	2	23		
46	42120 - Planted Jack Pine	Sapling Well	44.7	26	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	3	25		
47	6126 - Lowland Jack Pine	Sapling Medium	67.3	26	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Tamarack		3	Sapling	1			
Black Spruce		20	Sapling	1			
Quaking Aspen		2	Sapling	2			
Jack Pine		75	Sapling	3	25		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
48	6229 - Mixed lowland shrub	Nonstocked	98.4			No	Drainage channels out to the marsh complex - ground cover varies between patches of scattered trees, open wet grasses and low-to-medium density shrubs of various sizes. Labrador tea is a common species throughout the stand; some areas feature dense pockets of tag alder/willow.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium		Tall Shrub	
								Labrador Tea	High		Tall Shrub	
								Leatherleaf	Medium		Tall Shrub	
Willow spp.	Medium		Tall Shrub									
49	42220 - Natural Jack Pine	Sapling Medium	24.5	26	1-50	N/A	Jack pine regeneration 6-12' tall and 2 to 4" DBH. A few residual red & white pine are also present.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Sapling	3	
								Quaking Aspen	5	Sapling	3	
								Jack Pine	90	Sapling	4	25
50	42220 - Natural Jack Pine	Poletimber Poor	0.0	76	1-50	N/A	Maintain for for both wildlife cover and aesthetics along the snowmobile trail.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low	10 - 20 feet	Sapling	
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Pine	10	Log	12	
Jack Pine	5	Sapling	4	31								
Jack Pine	85	Pole	8	77								
51	42210 - Natural Red Pine	Sawtimber Well	46.6	86	111-140	N/A	Fox River uncut buffer, mostly large pine along with a mix of species in the understory on the banks of the Fox River.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low	5 - 10 feet	Sapling	
								Quaking Aspen	Medium	10 - 20 feet	Pole	
								Black Cherry	Low	5 - 10 feet	Sapling	
								Tag Alder	Medium	5 - 10 feet	Tall Shrub	
								Willow spp.	Medium	< 5 feet	Sapling	
								Red Maple	Low	5 - 10 feet	Sapling	
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Spruce	10	Pole	7	
Red Pine	70	Log	14	86								
White Pine	20	Log	16									
52	6125 - Lowland Black Spruce, Jack Pine	Sawtimber Medium	10.8	94	81-110	N/A						
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	Variable	Sapling	
								Balsam Fir	Low	Variable	Sapling	
								Black Spruce	Low	Variable	Sapling	
								Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	16									
Red Pine	15	Log	16									
Tamarack	25	Log/Pole	10									
Black Spruce	45	Pole	9	94								
Jack Pine	10	Log/Pole	10									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
53	6121 - Tamarack	Poletimber Well	6.1	77	51-80	N/A	Lowland tamarack mix.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Log	12		Black Spruce	
Jack Pine		20	Pole/Log	9		Tag Alder	
Black Spruce		10	Pole/Log	8		Density	
Red Pine		5	Log	12		Avg. Height	
Tamarack		60	Pole/Log	9	77	Size	
						Sapling	
						Tall Shrub	
54	6126 - Lowland Jack Pine	Sapling Poor	18.1	32	1-50	N/A	Mix of jack pine & black spruce regeneration, with a few tamarack also present. The Basal area shown consists of a few residual spruce from the previous stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		66	Sapling	3	31		
Black Spruce		32	Sapling	2			
Tamarack		2	Sapling	4			
55	3102 - Grass	Nonstocked	3.5	0		4222 - Natural Jack Pine	Jack on the fox TS: 41-033-13-01 TCR: 8/10/16 Scarified summer 2016scattered residual red pine, but no sign of regeneration. 2020
Sub-Canopy Species		Density	Avg. Height	Size			
Red Pine		Low	>20 feet	Log			
56	6120 - Lowland Cedar	Poletimber Well	1.3	112	141-170	N/A	HCVA - Fox River. Small cedar stand just above the Fox River floodplain. Age class diversity is developing.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Log	10		Balsam Fir	
Northern White Cedar		85	Pole/Log	9	111	Black Spruce	
Paper Birch		5	Pole	8		Red Maple	
White Pine		5	Log/XLog	16		Density	
						Avg. Height	
						Size	
						Sapling	
						Sapling	
						Sapling	
57	6126 - Lowland Jack Pine	Sapling Medium	32.5	22	Immature	N/A	Fully-stocked jack pine regen on a transitional site between true upland and wetter lowlands.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		7	Sapling	1			
Jack Pine		93	Sapling	2	21		
58	6122 - Black Spruce	Sapling Poor	4.6	23	1-50	N/A	Approximately a 50/50 mix of jack pine/black spruce regeneration.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		50	Sapling	2	23	Jack Pine	
Black Spruce		50	Sapling	1	23	Tag Alder	
						Density	
						Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
59	3102 - Grass	Nonstocked	13.6	0		4212 - Planted Jack Pine	Planted in 1976 with a mix of scotch and jack pine. Jack on the fox TS: 41-033-13-01 TCR: 8/10/16 Site sprayed summer 2019. Site was then trenched fall 2019. Site planted spring 2020. 1st season check fall 2020, passed 986 TPA



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
60	6121 - Tamarack	Poletimber Medium	8.8	77	1-50	N/A	Lowland tamarack mix - semi-open in many places. Very wet site - may be inoperable.																																										
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61	42220 - Natural Jack Pine	Sapling Well	1.6	26	Immature	N/A	Jack pine regeneration.																																										
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62	6121 - Tamarack	Poletimber Medium	1.6	77	51-80	N/A	Small island of tamarack/jack pine out in the marsh.																																										
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63	6229 - Mixed lowland shrub	Nonstocked	5.7	0	Unspecified	612 - Lowland Coniferous Forest	TS:41-044-13 Cut in 2020																																										
64	6220 - Alder/willow	Nonstocked	308.1			No	Semi-open lowland brush/marsh complex. Also includes numerous pockets of both upland & lowland timber too small to be mapped as individual stands.																																										
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65	6126 - Lowland Jack Pine	Poletimber Well	53.1	39	1-50	N/A	Young jack pine - many stems still 3-4" DBH. The basal area shown consists of 1-2 stick jack pine.																																										
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66	6122 - Black Spruce	Sawtimber Medium	10.8	94	81-110	N/A	difficult access, island in a marsh.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
67	6121 - Tamarack	Sawtimber Medium	1.9	94	81-110	N/A	Island of conifers including tamarack, red & jack pines and spruce.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		10	Pole/Log/Sap	9		Tag Alder	
Black Spruce		10	Pole	7		Black Spruce	
Tamarack		50	Log/Pole	10	94	Balsam Fir	
Red Pine		30	Log	16			
68	42210 - Natural Red Pine	Sawtimber Medium	4.0	79	51-80	N/A	Jack on the fox TS: 41-033-13-01 TCR: 8/10/16 Scarified summer 2016 area that fell within the fox river buffer is a separate stand. other stand should be the same as stand 70
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		5	Log	14			
Red Pine		95	Log	12	79		
69	42120 - Planted Jack Pine	Poletimber Well	49.5	46	141-170	N/A	Fully-stocked young jack pine now reaching merchantable size, but many stems are still 4" dry.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Pole	5	45		
70	3102 - Grass	Nonstocked	1.0	0	Unspecified	No	stand is a grassy opening, with a heavily used dispersed campsite.
Sub-Canopy Species		Density	Avg. Height	Size			
Red Pine		Low	>20 feet	Log			
71	42210 - Natural Red Pine	Poletimber Poor	3.0	56	1-50	N/A	Jack on the fox TS: 41-033-13-01 TCR: 8/10/16 Scarified summer 2016 residual red and white pine growing over top fully stocked Jack pine make up the two age structure of this stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		20	Log	10		Jack Pine	
Red Pine		70	Pole/Log	8	56	High	
Jack Pine		10	Pole	5		< 5 feet	
72	6126 - Lowland Jack Pine	Poletimber Well	9.1	38	1-50	N/A	Young jack pine
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		20	Sapling	3		Tag Alder	
Jack Pine		80	Pole/Sapling	5	38	Low	
73	6229 - Mixed lowland shrub	Nonstocked	18.6	0	Unspecified	612 - Lowland Coniferous Forest	TS:41-044-13 cut in 2020
74	6126 - Lowland Jack Pine	Poletimber Well	5.2	38	1-50	N/A	Young jack pine
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		80	Pole	6	38		
Black Spruce		20	Sapling	3			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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75 3302 - Low Density Conifer Trees Nonstocked 11.0 No Semi-open wet area with scattered spruce and aspen, most of which are submerchantable. The stand also features low-density pockets of willow & tag alder, and labrador tea is present over significant portions of the area.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low		Tall Shrub
Willow spp.	Low		Tall Shrub
Quaking Aspen	Low		Sapling
Black Spruce	Low		Sapling
Jack Pine	Low		Sapling
Tamarack	Low		Pole

76 6126 - Lowland Jack Pine Sapling Medium 7.5 35 1-50 N/A Semi-open jack pine/black spruce mix.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	60	Sapling/Pole	4	34	Willow spp.	Low	Variable	Tall Shrub
Tamarack	10	Sapling	3		Tag Alder	Low	Variable	Tall Shrub
Black Spruce	30	Sapling	3					

77 3302 - Low Density Conifer Trees Nonstocked 1.9 No Wetter area/possible seasonal drainage between stands of conifers featuring scattered submerchantable spruce and relatively light lowland brush.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low		Sapling
Willow spp.	Low		Tall Shrub
Tag Alder	Low		Tall Shrub
Black Spruce	Low		Sapling
Labrador Tea	Medium		Tall Shrub

78 6125 - Lowland Black Spruce, Jack Pine Sapling Medium 2.6 38 1-50 N/A Lowland spruce/jack pine mix, starting to reach merchantable size. A few trees are big enough to have a merchantable stick or two.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	40	Sapling/Pole	4	38	Tag Alder	Low	Variable	Tall Shrub
Tamarack	15	Sapling/Pole	4					
Quaking Aspen	5	Pole/Log	8					
Black Spruce	40	Sapling	3					

79 42120 - Planted Jack Pine Poletimber Well 7.7 26 141-170 N/A Jack pine planted on a transitional site. The snowmobile trail runs north-south through this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	100	Pole/Sapling	5	25	Black Spruce	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
80	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	2.8	112	81-110	N/A	HCVA - Fox River. Slow-growing mixed timber along the Fox River floodplain - semi-open in areas.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		3	Log	14		Tag Alder	
Black Cherry		2	Pole	8		Red Maple	
Red Maple		10	Pole	7		Balsam Fir	
White Pine		10	Log	14			
Balsam Fir		42	Log/Pole	10	111		
Northern White Cedar		33	Log/Pole	10			
81	6126 - Lowland Jack Pine	Poletimber Well	7.9	38	1-50	N/A	Somewhat wetter than the other young jack pine stands nearby - habitat is more transitional between uplands & lowlands.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		70	Pole/Sapling	5	38		
Black Spruce		30	Sapling	3			
82	6126 - Lowland Jack Pine	Poletimber Well	5.7	38	1-50	N/A	Jack pine mix on a transitional site - trees beginning to reach merchantable size.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		70	Pole/Sapling	5	38		
Red Pine		5	Log	14			
Black Spruce		20	Sapling	3			
Tamarack		5	Sapling	3			
83	42220 - Natural Jack Pine	Sapling Well	17.9	26	141-170	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	4	25		
84	6122 - Black Spruce	Sapling Medium	2.5	38	1-50	N/A	Lowland spruce/jack pine mix on a transitional site. The basal area shown represents the few trees that have reached merchantable size.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		50	Sapling/Pole	4	38		
Black Spruce		50	Sapling	3	38		
85	6126 - Lowland Jack Pine	Sapling Well	54.2	33	Immature	N/A	Fully-stocked jack pine regeneration.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Sapling	2		Tamarack	
Jack Pine		95	Sapling	3	33	Black Spruce	
86	6126 - Lowland Jack Pine	Poletimber Well	2.7	38	1-50	N/A	Young jack pine on a transitional site.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		20	Sapling	3		Tag Alder	
Jack Pine		80	Pole/Sapling	5	38		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
87	6229 - Mixed lowland shrub	Nonstocked	1.2			No																																	
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88	42220 - Natural Jack Pine	Poletimber Well	22.4	54	81-110	N/A	Healthy 3-4 stick jack pine and just a few white pine. The understory is generally sparse, but consists of scattered white pine & black spruce saplings.																																
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89	6229 - Mixed lowland shrub	Nonstocked	24.7	0		612 - Lowland Coniferous Forest	Winter Fox 044-13-01, Site was Scarified summer 2019.																																
90	6126 - Lowland Jack Pine	Sapling Medium	14.1	35	1-50	N/A	Stand density and site indices are highly variable in this lowland jack pine/black spruce stand. In the dryer areas trees are denser and reaching merchantable size, while the wetter areas feature smaller diameters, fewer trees overall and more lowland brush.																																
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91	6126 - Lowland Jack Pine	Poletimber Poor	3.2	34	1-50	N/A	Young jack pine just beginning to reach merchantable size. Stand density varies significantly.																																
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92	42220 - Natural Jack Pine	Poletimber Well	5.2	56	81-110	N/A																																	
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93	6126 - Lowland Jack Pine	Poletimber Poor	1.2	38	1-50	N/A	Not as dense as the other jack pine stands nearby, but still filling in with more jack pine & spruce. Appears to be somewhat slower growing, too.																																
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94	6126 - Lowland Jack Pine	Poletimber Medium	4.6	45	51-80	N/A	Jack pine - last cut in 1976																																
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95	6120 - Lowland Cedar	Sawtimber Well	5.0	114	111-140	N/A	HCVA - Fox River. Bottomland cedar stand just above the Fox River floodplain.																																																							
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96	6126 - Lowland Jack Pine	Sapling Poor	38.5	15	Immature	N/A	Spruce and all other lowland conifers are acceptable regeneration, in addition to jack pine.																																																							
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97	42120 - Planted Jack Pine	Sapling Well	26.1	22	Immature	N/A	Jack pine regeneration 6-12' tall and 3 to 4 in DBH. Planted in 2000.																																																							
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98	42220 - Natural Jack Pine	Sapling Poor	22.5	7	Immature	N/A	Jack on the fox TS: 41-033-13-01TCR: 8/10/16Scarified summer 2016fully stocked with jp that is 2 to 3 ft tall.																																																							
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99	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	17.7	61	1-50	N/A	HCVA - Fox River. Mixed lowland stand located along the banks/floodplain of the Fox River.																																																							
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100	42220 - Natural Jack Pine	Sapling Well	16.0	16	171-200	N/A	Natural jack pine with planted red pine mixed in, and a few aspen/red maple stems as well.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
101	42220 - Natural Jack Pine	Sapling Poor	14.5	15	Immature	N/A	Cut & scarified in 2007 - now passes regen check. Seedlings generally 5 to 8ft tall, spaced apart in most areas.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		80	Sapling	3	14		
Black Spruce		20	Sapling	3			
102	6126 - Lowland Jack Pine	Sapling Medium	18.0	15	Immature	N/A	Cut and scarified wherever possible (not too wet) in 2007. Now passes natural regen check(850T/A). - saplings are generally 4.5' tall.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		10	Sapling	2			
Black Spruce		30	Sapling	1			
Jack Pine		60	Sapling	2	14		
103	42220 - Natural Jack Pine	Sapling Well	10.1	26	111-140	N/A	Fully-stocked healthy jack pine regeneration 6-12' tall, and 3 to 5 DBH. A few residual red & white pine are also present from the last stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		5	Sapling	2			
Jack Pine		95	Sapling/Pole	4	25		
104	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.4	114	111-140	N/A	HCVA - Fox River. Mix of conifers along with red maple and a few paper birch along the slopes just above the Fox River floodplain. Some age class diversity due to natural disturbances is evident. stand also includes a strip over very mature Jack pine which was left due to Fox river buffer.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		10	Log/Pole	10			
Jack Pine		10	Pole	8			
Paper Birch		3	Log	14			
White Pine		10	Log/Pole	12			
Balsam Fir		15	Pole/Log	9			
Red Pine		20	XLog	18	113		
Red Maple		17	Pole/Log	9			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Medium	Variable	Sapling			
White Pine		Medium	Variable	Sapling			
105	6112 - Lowland Aspen	Sapling Poor	2.0	14	1-50	N/A	Cut in 2006-07. A few residual pine & cedar were left.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling	1			
Quaking Aspen		90	Sapling	1	15		
Sub-Canopy Species		Density	Avg. Height	Size			
White Pine		Low	Variable	Sapling			
Willow spp.		Low	< 5 feet	Tall Shrub			
Black Spruce		Low	Variable	Sapling			
Tag Alder		Low	< 5 feet	Tall Shrub			
106	42220 - Natural Jack Pine	Sapling Poor	4.0	7	1-50	N/A	Jack on the Fox; TS: 41-033-13 TCR 8/10/16 Scarified summer 2016 regeneration is great, most seedlings are about 3 ft tall.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	1	7		
107	42220 - Natural Jack Pine	Poletimber Well	17.0	26	141-170	N/A	Healthy jack pine regeneration - fully stocked, 6-12' tall
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Pole/Sapling	5	25		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
108	42220 - Natural Jack Pine	Poletimber Poor	6.5	21	1-50	N/A	Jack on the fox TS: 41-033-13-01 TCR: 8/10/16 Scarified summer 2016 Jack pine regeneration looks good within stand.																												
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110	42210 - Natural Red Pine	Sawtimber Poor	2.3	56	1-50	N/A	Jack on the fox TS: 41-033-13-01 TCR: 8/10/16 Scarified summer 2016 non-stocked regeneration, but residual red and white pine make a forested stand, would need to harvest again to obtain successful regen.																												
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112	42210 - Natural Red Pine	Sawtimber Poor	5.9	79	1-50	N/A	Jack on the fox TS: 41-033-13-01 TCR: 8/10/16 Scarified summer 2016 regeneration is nonexistent but stand is a forested red pine with remaining residual, would need to harvest again to obtain successful regen.																												
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