



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41130

Entry Year 2021

Acreage: 1,838

County Schoolcraft

Management Area: Grand Marais Moraine Complex

Stand Examiner: Scott Kentner

Legal Description:

T47N R14W Sections 19, 29-33

Identified Planning Goals:

The main goal in this compartment is to conduct multiple resource management for current and future generations.

Soil and topography:

The topography in this compartment is mostly flat to rolling. The compartment lies within the Seney Drainage Land Type Association

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

The compartment is all State land with State land surrounding all sides.

Unique Natural Features:

Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

The Little Fox River is a natural and scenic waterway; aesthetics and water quality are major concerns. The Little Fox River is a High Conservation Value Area.

Watershed and Fisheries Considerations:

The eastern region of this compartment borders the Little Fox River which serves as a tributary to the Fox River. The Little Fox River is designated a Type 1 trout stream less than 50' width. This segment of the Little Fox River is managed as a "wild-scenic river" under authority of the Natural River Act (Part 305, P.A. 451 of 1994). A 300' buffer is recommended for the Little Fox River 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 Natural River Act and Best Management Practices.

Wildlife Habitat Considerations:

Located on the west side of the Fox River Road, this compartment is part of a large outwash plain that historically contained red and white pine. Turn of the century logging and slash fires destroyed the organic soils, resulting in a large opening complex that supported species such as sharptailed grouse, bluebirds, and kestrels. Subsequent plantation work and natural healing of the ecosystem has resulted in the reforestation of most of this compartment. Jack pine is the dominant tree species. Stands have undergone rotational harvests, providing variation in age classes across the landscape. Some openings also remain. This compartment borders marsh with pine ridges to the southwest. Wildlife goals for this compartment include maintaining structural diversity within the pine system as well as maintaining wildlife travel corridors and protecting marsh areas. Species benefitting from such management include wolf, black bear, American marten, sandhill crane, and black-backed woodpecker.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, glacial outwash sand & gravel and postglacial alluvium and peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subcrops below the glacial drift. The Black River is quarried for dolostone in the UP. Gravel pits are not found in the area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

The Fox River Road runs along the east side of the compartment. A good two-track system exists for timber sales.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The Fox River Pathway and snowmobile trail come together in the compartment to cross the Little Fox River at the Wagner Taylor Dam bridge. The Fox River campground is only 2.5 miles south of the compartment, and both the Fox and Little Fox Rivers provide excellent fishing opportunities.

Fire Protection:

Fire response to the area will be good with the Seney Field Office close by and the good access to the area. However, the main timber type in the area is jack pine.

Additional Compartment Information:**The following reports from the Inventory are attached:**

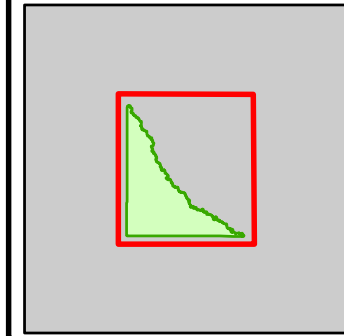
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

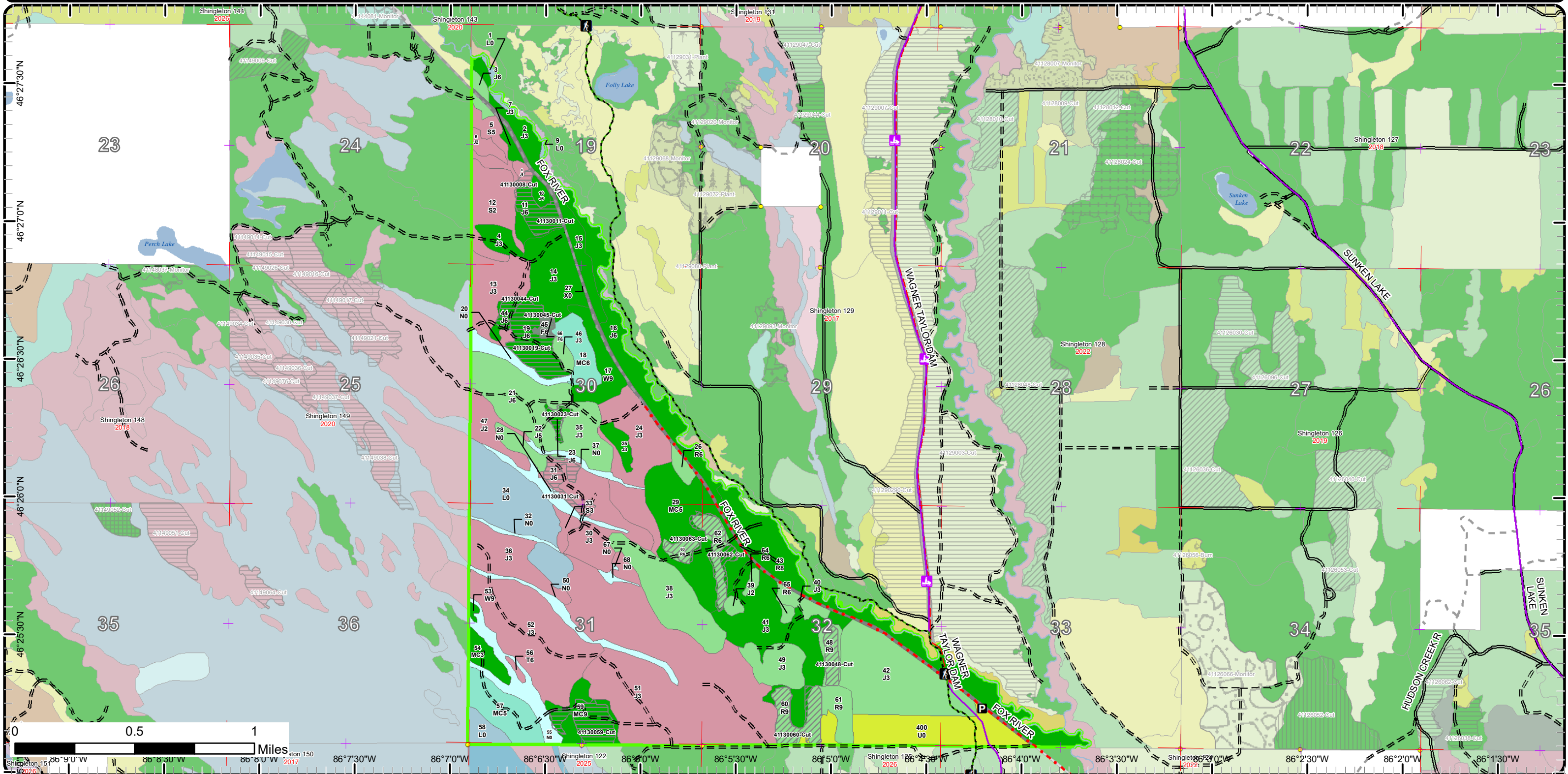
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 130
 T47N, R14W, Sec: 19, 29-33
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2021
 Acres: 1837.9 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 9/20/2023
 Map Phase: Post Review

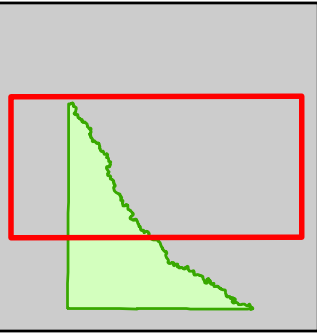


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Multi-Use Trails
- P Parking Lot
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

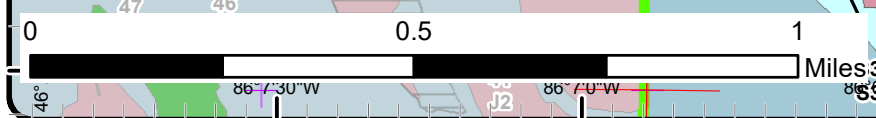
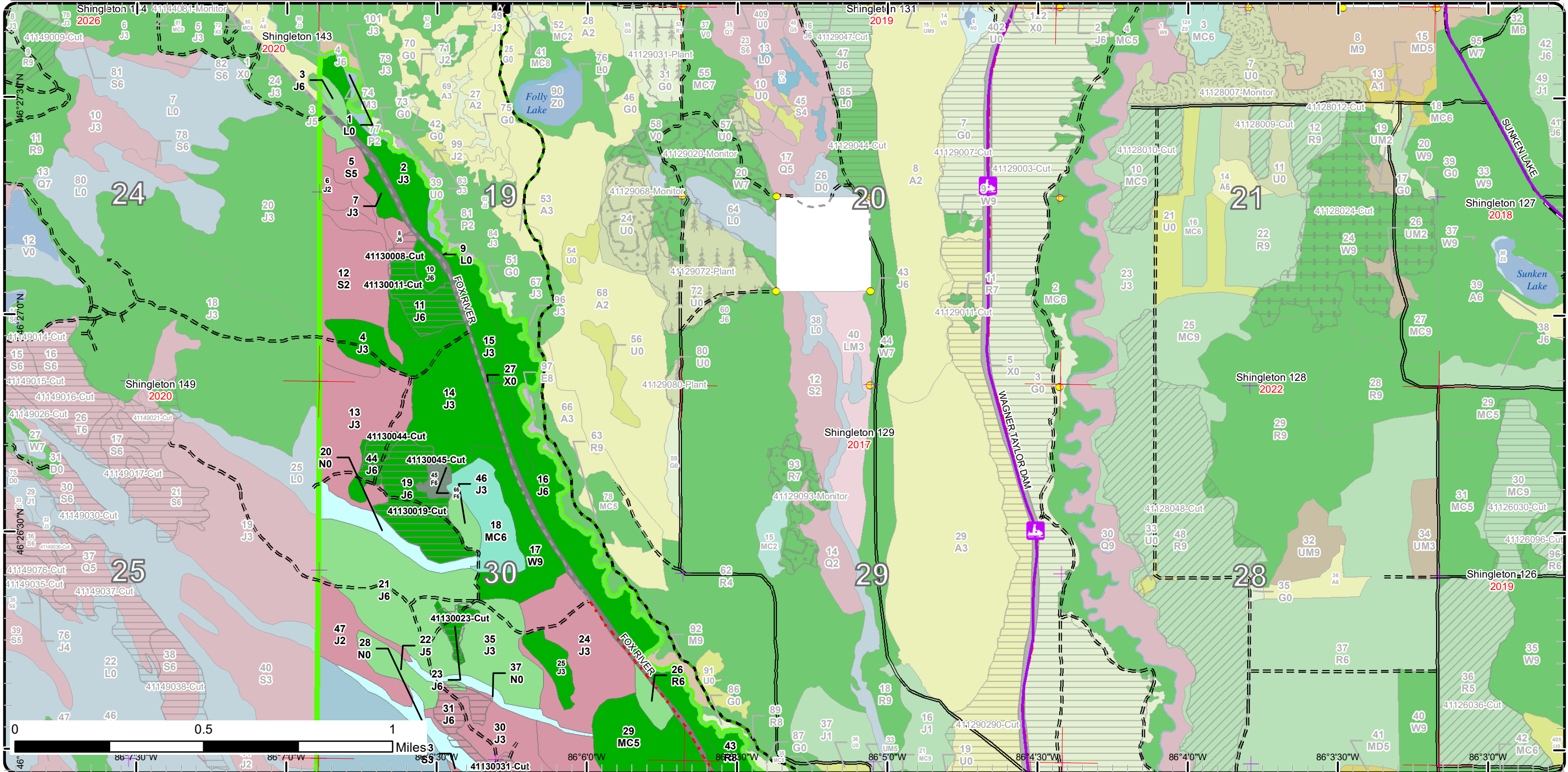


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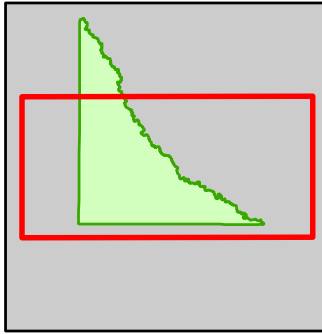


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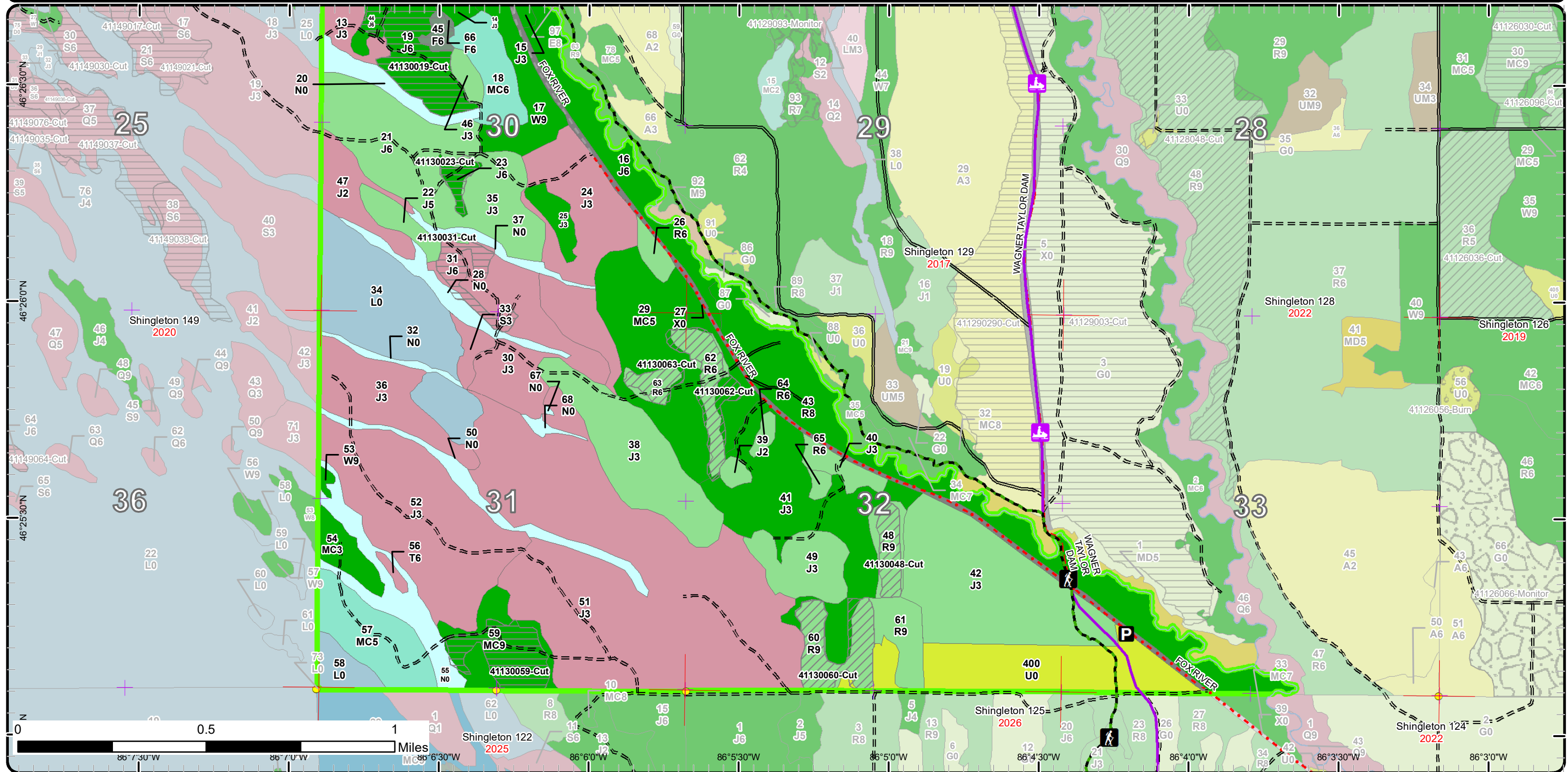


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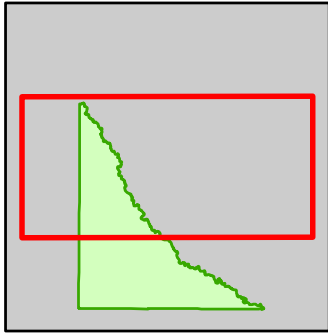


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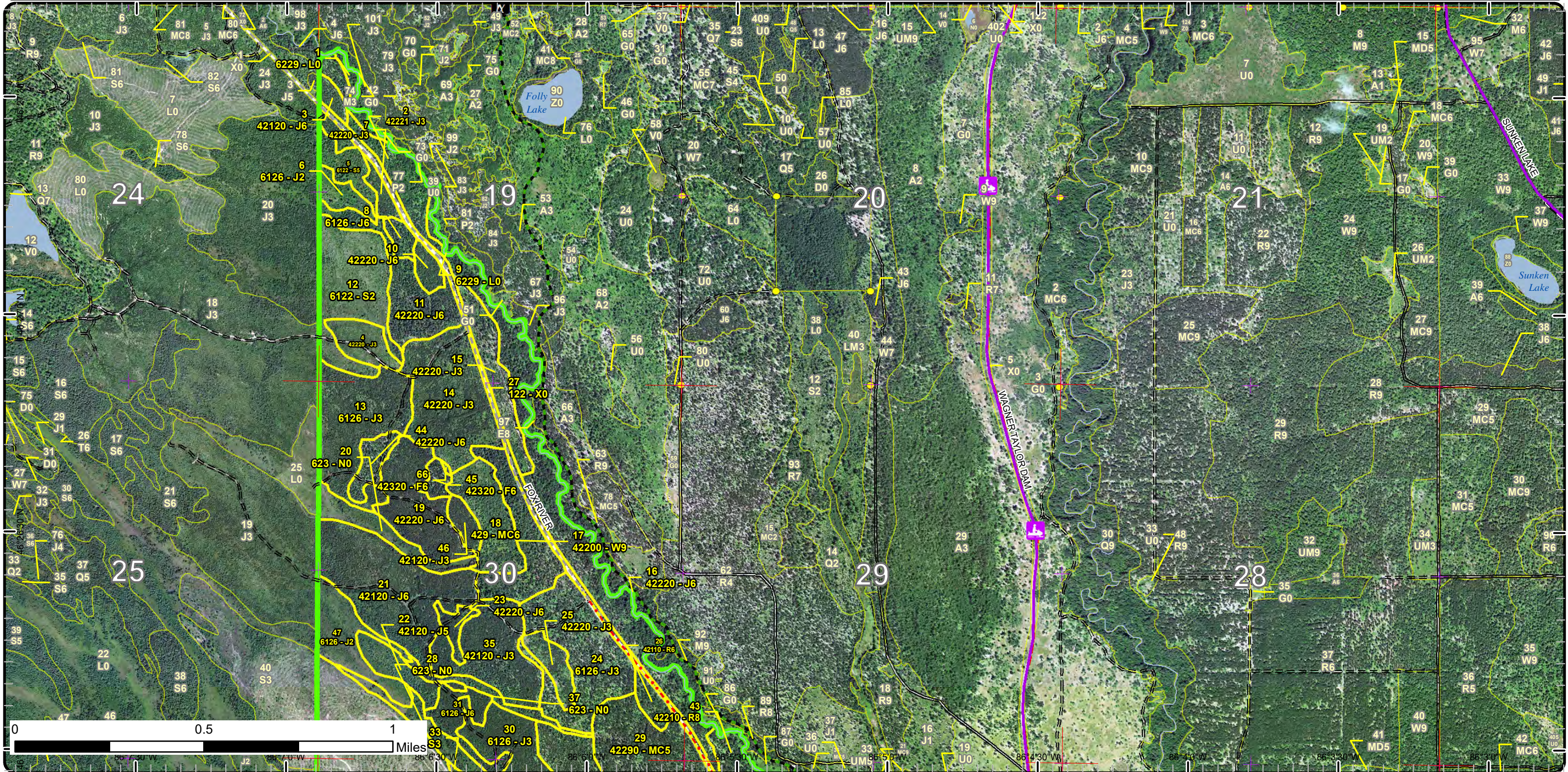


Stand Boundary Map

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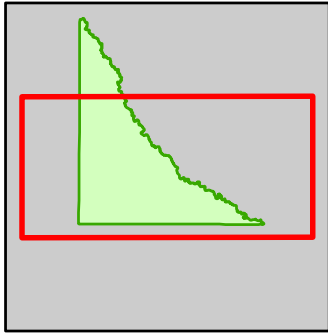


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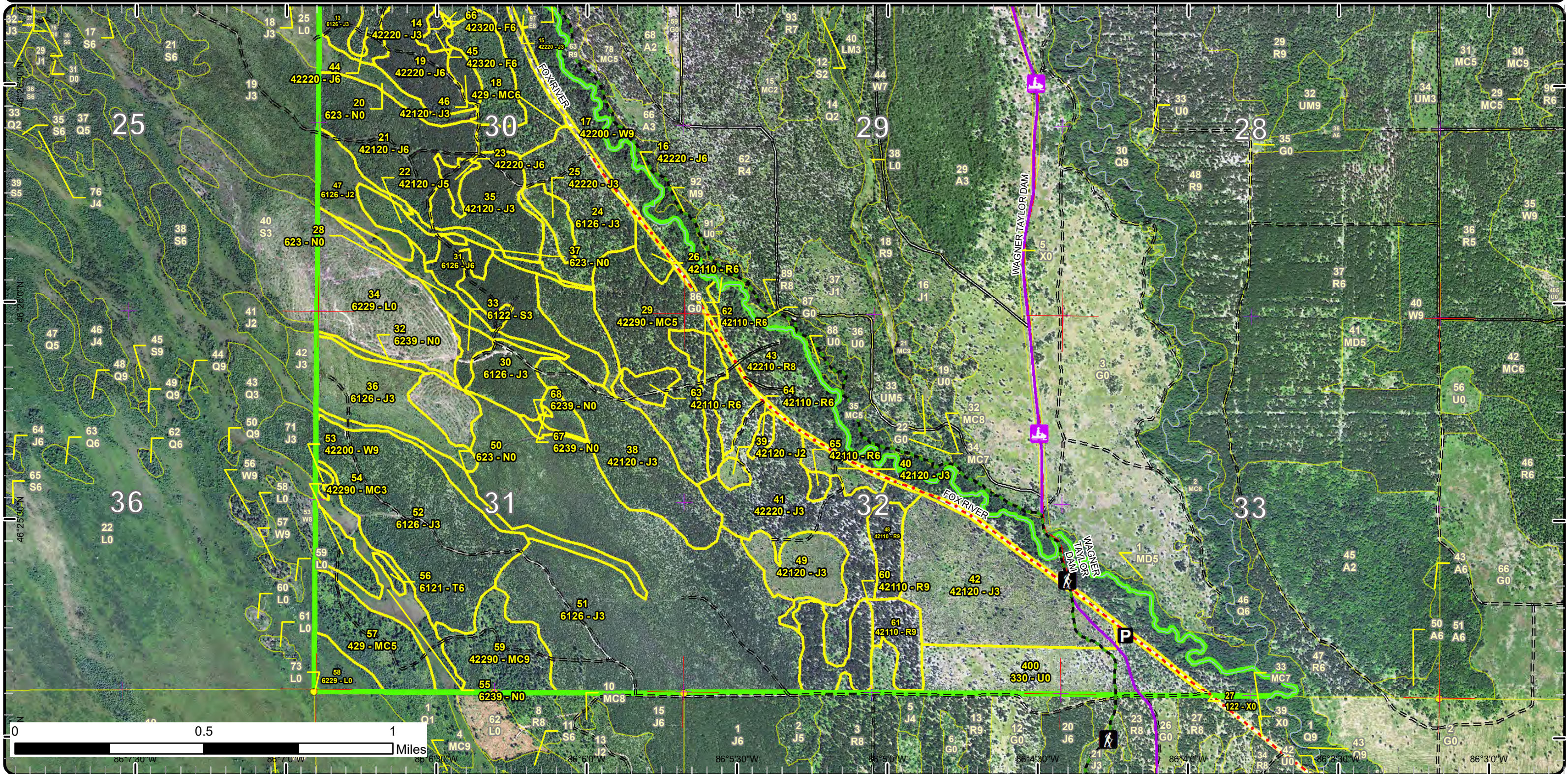


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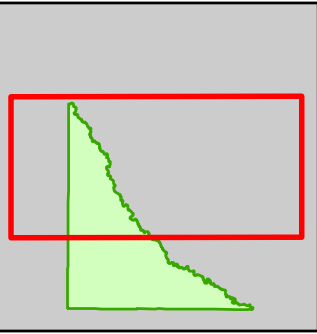


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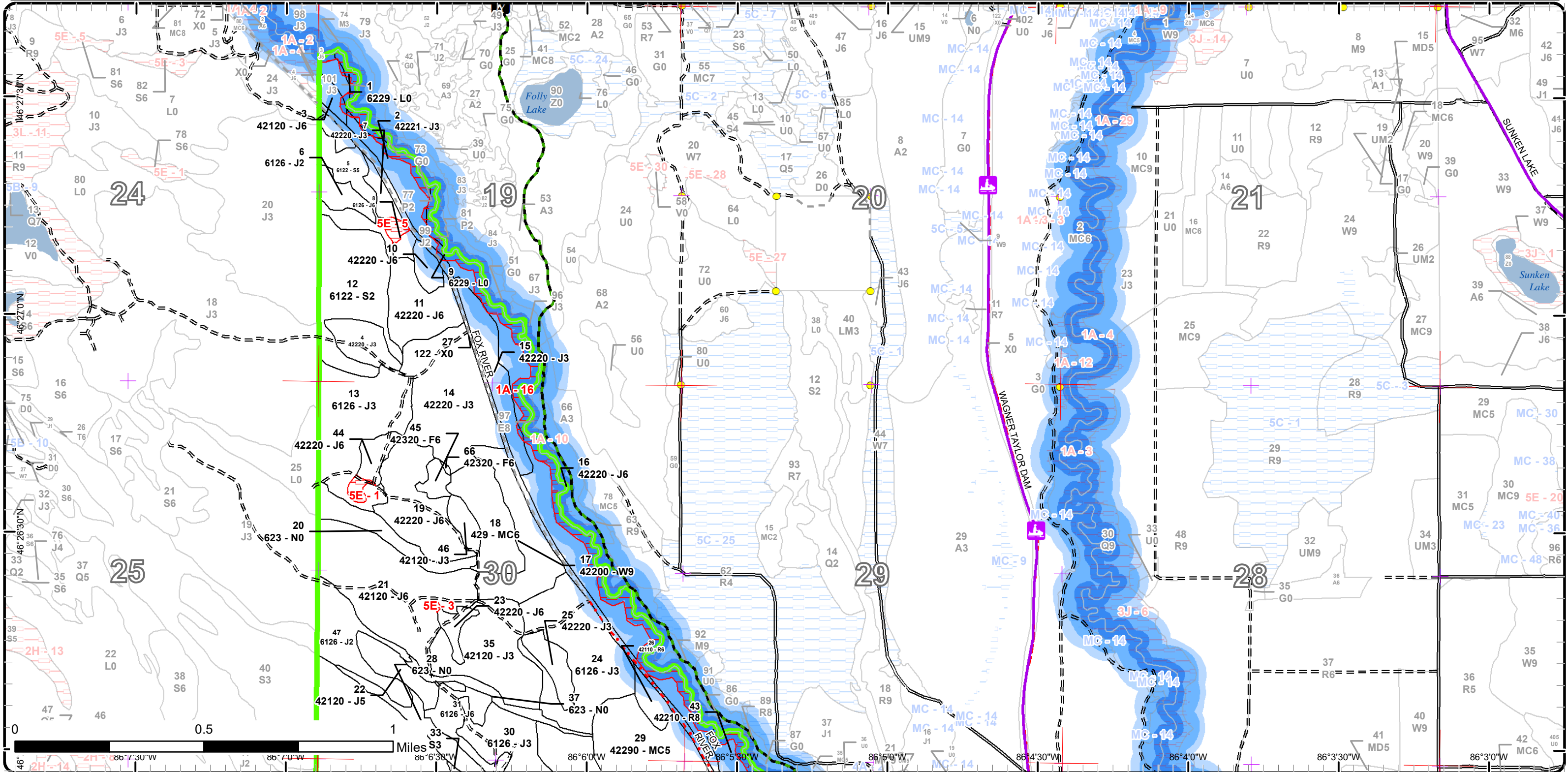


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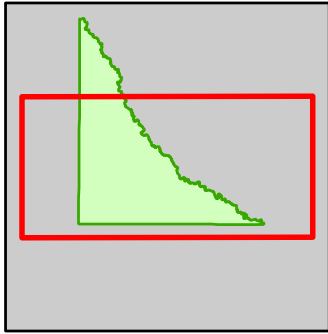


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- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 1A: Federal/State/Local Law
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer

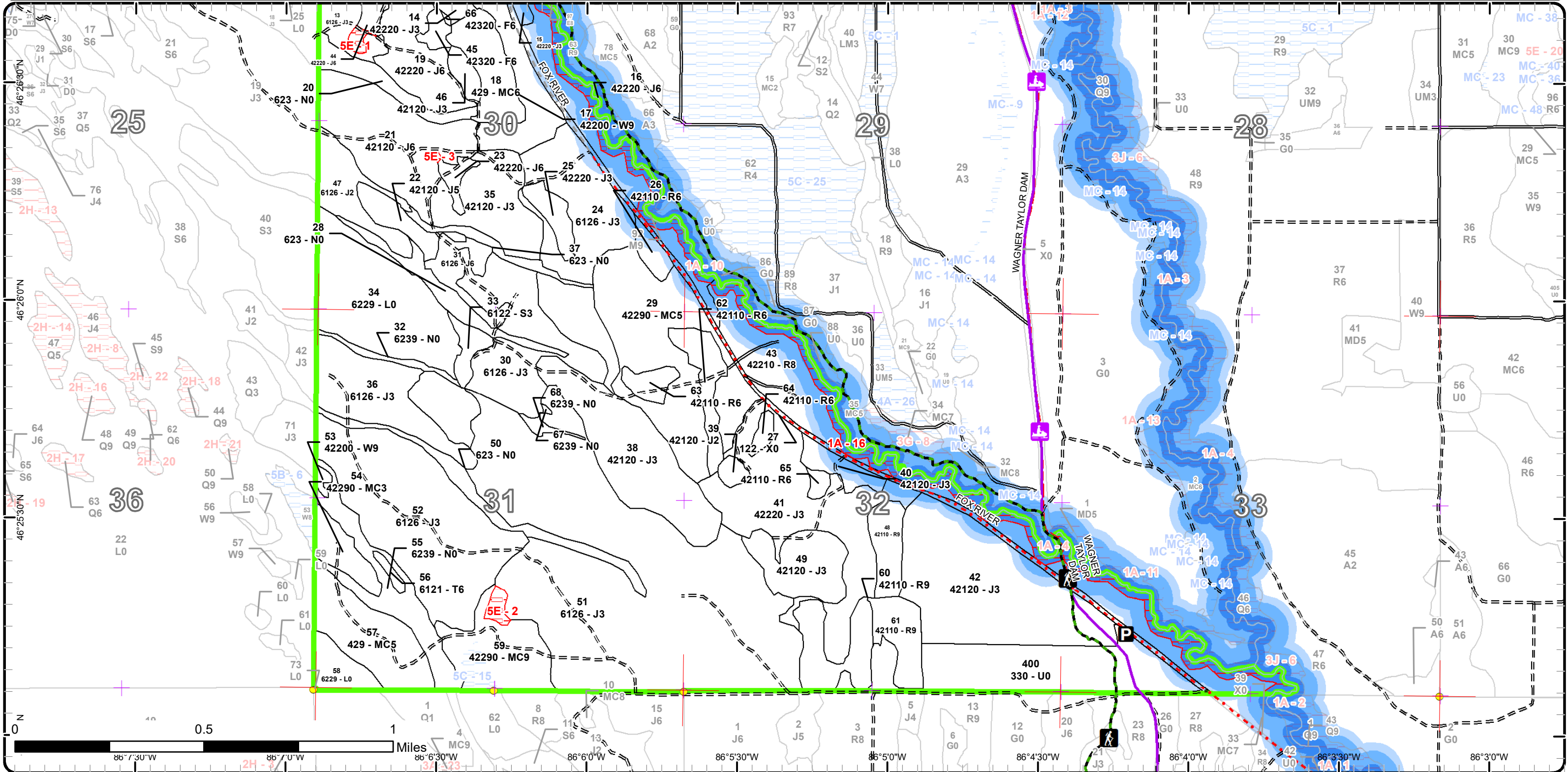


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Report 1 – Total Acres by Cover Type and Age Class



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
Jack Pine	0	0	235	295	463	0	58	0	55	19	0	0	0	0	0	0	0	18	1143
Low-Density Trees	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Shrub	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
Lowland Spruce/Fir	0	0	0	36	0	0	0	0	6	0	0	0	0	0	0	0	0	14	56
Marsh	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Natural Mixed Pines	0	0	0	12	0	0	0	74	0	0	0	0	0	0	0	0	0	34	120
Red Pine	0	0	0	0	0	5	0	152	0	0	0	0	0	0	0	0	0	15	170
Tamarack	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	33	21	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Urban	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
White Pine	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	24	25
Total	263	0	235	376	484	5	58	226	61	21	1	0	0	0	0	0	0	109	1837



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 130

Total Compartment Acres: 1,838

Commercial Harvest - 140
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	61	0	0	0	0	0	0	0	0	61
Natural Mixed Pines	20	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	55	0	0	0	0	55
Upland Spruce/Fir	4	0	0	0	0	0	0	0	0	4
Total	85	0	0	0	55	0	0	0	0	140

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	140	0	0	0	0	0	0	0	0	140
Next Step	0	150	85	0	20	20	105	0	0	381
Total	140	150	85	0	20	20	105	0	0	520



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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:

8	41130008-Cut	2.2	6126 - Lowland Jack Pine	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	6126 - Lowland Jack Pine	Even-Aged	No
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Prescription Specs: Clear cut: Remove all tree down to 2". Cut with stand 11 and retention should be one patch for both stand 11 and 8. Scarify post harvest to regenerate jack pine. If regen fails trench and plant jack pine.

Next Step Treatments: SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant

Acceptable Regen: Jack pine, Black Spruce, Red Pine, White Pine, Tamarack, Aspen.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

11	41130011-Cut	14.4	42220 - Natural Jack Pine	Poletimber Well	88	111-140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Specs: Clear cut with retention: Remove all trees down to 2". Leave retention in pocket. Scarify post harvest to regenerate jack pine. If regen fails trench and plant jack pine.

Next Step Treatments: SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant

Acceptable Regen: jack pine, Red pine, white pine, Black spruce, Tamerack, Aspen.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

19	41130019-Cut	27.6	42220 - Natural Jack Pine	Poletimber Well	74	111-140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Specs: Clearcut with retention: Remove all trees, leave retention in pocket. Scarify post harvest to regenerate jack pine. If regen fails trench and plant jack pine.

Next Step Treatments: SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant

Acceptable Regen: Jack pine, Red pine, White pine, Tamrack, Red maple, Aspen, Black spruce.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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23	41130023-Cut	4.7	42220 - Natural Jack Pine	Poletimber Well	74	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut with retention: Remove all trees, leave retention in pocket. Scarify post harvest to regenerate jack pine. If regen fails trench and plant jack pine.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable Jack pine, Red pine, white pine, Black spruce, Aspen, Tamarack
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

31	41130031-Cut	11.7	6126 - Lowland Jack Pine	Poletimber Well	74	81-110	Harvest	Clearcut with Retention	6126 - Lowland Jack Pine	Even-Aged	No
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Prescription Clearcut with Retention: Remove all trees, leave retention in small pocket. Scarify post harvest to regenerate jack pine. If regen fails trench and plant jack pine.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable Jack pine, Black spruce, Tamarack, Red pine, White pine, red maple, Aspen.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

44	41130044-Cut	4.7	42220 - Natural Jack Pine	Poletimber Well	74	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Clearcut with retention: Remove all trees, retention should be in pocket. Scarify post harvest to regenerate jack pine. If regen fails trench and plant jack pine.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable Jack pine, Red pine, white pine, Tamarack, Black spruce, Aspen.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

45	41130045-Cut	4.0	42320 - Upland Spruce	Poletimber Well	74	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut with retention: Remove all species, retention should be left in pocket. Scarify post harvest to regenerate jack pine. If regen fails trench and plant jack pine.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable Any species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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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48	41130048-Cut	8.7	42110 - Planted Red Pine	Sawtimber Well	69	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription First Entry Thinning: Remove 1/3 of the BA by creating skid rows for harvest. Mark every third row where possible.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

59	41130059-Cut	20.4	42290 - Natural Mixed Pine	Sawtimber Well	96	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear-cut with Retention: Remove all trees species down to 2". Leave retention in pocket on edge of stand.

Specs:

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

Treatments: Skidder - Site Prep

Acceptable Planted Red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

60	41130060-Cut	21.4	42110 - Planted Red Pine	Sawtimber Well	69	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription First Entry Thinning: Remove 1/3 of the BA by creating skid rows for harvest. Mark every third row where possible.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

62	41130062-Cut	18.0	42110 - Planted Red Pine	Poletimber Well	64	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription First Entry Thinning: Remove 1/3 of the BA by creating skid rows for harvest. Mark every third row where possible.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Site Condition

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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
63 41130063-Cut	6.4	42110 - Planted Red Pine	Poletimber Well	64	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> First Entry Thinning: Remove 1/3 of the BA by creating skid rows for harvest. Mark every third row where possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: 144.2

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 130
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	1A	5E
		With Condition	Not Available				
1143	1108	0	35	Jack Pine		31	4
62	62	0	0	Low-Density Trees			
92	86	0	6	Lowland Shrub		6	
56	56	0	0	Lowland Spruce/Fir			
79	79	0	0	Marsh			
100	92	5	3	Natural Mixed Pines	5		3
171	135	0	36	Red Pine		36	
2	2	0	0	Tamarack			
54	54	0	0	Upland Conifers			
4	4	0	0	Upland Spruce/Fir			
29	29	0	0	Urban		0	
25	25	0	0	White Pine			
1,818	1,733	5	80	Total Forested Acres	5	73	7
	95%	0%	4%	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	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 130
Year of Entry: 2021

5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	1A: Federal/State/Local Law	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River 100' zone							

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	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
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1	6229 - Mixed lowland shrub	Nonstocked	3.8		Unspecified	No	HCVA- Fox River Management Plan
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2	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	17.7	38	51-80	N/A	STAND BURNED OVER IN 1987 FOX RIVER FIRE.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	70	Sapling/Pole	4	38	Jack Pine	High	< 5 feet	Sapling
Paper Birch	2	Sapling/Pole	4		Quaking Aspen	High	< 5 feet	Sapling
Quaking Aspen	28	Sapling/Pole	4					

3	42120 - Planted Jack Pine	Poletimber Well	6.2	38	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	100	Pole	6	38

4	42220 - Natural Jack Pine	Sapling Well	10.2	20	Immature	N/A	[1-7-03 RFT] Cut under TS # 04-01 TCR dtd 12-08-02. See FTP # C41-1036 (scarification - natural jack pine regen).
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	100	Sapling	2	20

[02/04/04 RFT] 43 acres scarified in 08/2003 under FTP C41-1036. Schedule regen check for 2006. [11/15/06 jb] Regen checks from Don indicate stand is regenerated. FTP can be closed. Regen is about 1-3' tall.

5	6122 - Black Spruce	Poletimber Medium	14.0	38	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	60	Pole	6	38	Paper Birch	Low	< 5 feet	Sapling
Tamarack	10	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Jack Pine	30	Pole	6					

6	6126 - Lowland Jack Pine	Sapling Medium	6.4	20	Immature	N/A	[1-7-03RFT] Cut under TS # 04-01 TCR dtd 12-08-02. See FTP # C41-1036 (scarification - natural jack pine regen).
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	75	Sapling	3	20
White Pine	5	XLog/Log	18	
Black Spruce	20	Pole/Sapling	5	

[02/04/04 RFT] 9 acres scarified in 08/2003 under FTP C41-1036. Schedule regen check for 2006. [11/15/06 jb] Regen checks from Don indicate stand is regenerated. FTP can be closed. There are scattered residual red pine, white pine in some areas. Regen is about 1-3' tall.

7	42220 - Natural Jack Pine	Sapling Well	4.0	38	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	100	Sapling	4	38

8	6126 - Lowland Jack Pine	Poletimber Well	3.9	78	81-110	N/A	Stand has some mortality from recent budworm.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Pole/Log	9		Black Spruce	High	< 5 feet	Sapling
Quaking Aspen	3	Pole	9					
Paper Birch	2	Pole	9					
Jack Pine	65	Pole	9	78				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
9	6229 - Mixed lowland shrub	Nonstocked	2.3		Unspecified	No	HCVA- Fox River Management Plan		
10	42220 - Natural Jack Pine	Poletimber Well	4.6	39	111-140	N/A	CLEARCUT AND SCARIFIED. FTP# C41-225 Trees about 20' tall.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		40	Sapling/Pole	4		Black Spruce	Medium	< 5 feet	Sapling
Jack Pine		60	Sapling/Pole	4	39	Jack Pine	Medium	< 5 feet	Sapling
11	42220 - Natural Jack Pine	Poletimber Well	19.4	88	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		60	Pole/Log	9	88	Quaking Aspen	Low	5 - 10 feet	Sapling
Quaking Aspen		5	Pole/Sapling	5		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce		35	Log/Pole	9					
12	6122 - Black Spruce	Sapling Medium	35.7	20	Immature	N/A	[1-7-03 RFT] Cut under TS # 04-01 TCR dtd 12-08-02. See FTP # C41-1036 (scarification - natural jack pine regen). [02/04/04 RFT] 43 acres scarified in 08/2003 under FTP C41-1036. Schedule regen check for 2006. [11/15/06 jb] Regen checks from Don indicate stand is regenerated. FTP can be closed. Regen is about 1-3' tall.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		40	Sapling	3		Jack Pine	Low	< 5 feet	Sapling
Black Spruce		60	Sapling/Pole	3	20	Black Spruce	Low	< 5 feet	Sapling
13	6126 - Lowland Jack Pine	Sapling Well	39.0	38	Immature	N/A	20-30' regen, trees look healthy, some spruce mixed in.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		20	Sapling	3		Black Spruce	Low	< 5 feet	Sapling
Jack Pine		80	Sapling	4	38	Jack Pine	Low	< 5 feet	Sapling
14	42220 - Natural Jack Pine	Sapling Well	42.9	31	Immature	N/A	CLEARCUT AND SCARIFIED. FTP# C41-563		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		10	Sapling	3		Quaking Aspen	Medium	< 5 feet	Sapling
Jack Pine		90	Sapling	3	31	Jack Pine	Medium	< 5 feet	Sapling
15	42220 - Natural Jack Pine	Sapling Well	16.9	31	Immature	N/A	CLEARCUT AND SCARIFIED. FTP# C41-563 Regen 5-15' tall. There is aspen, red maple and spruce mixed in. Only about 3 acres of the stand fall within the 200' buffer.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		5	Log	10					
Jack Pine		95	Sapling	3	31				
16	42220 - Natural Jack Pine	Poletimber Well	57.8	53	51-80	N/A	There are patches of the stand where it is a J4 with a J2 understory.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Pole	5		Quaking Aspen	Low	< 5 feet	Sapling
White Pine		5	Log	10		Jack Pine	Low	< 5 feet	Sapling
Red Pine		15	Pole/Log	8					
Jack Pine		75	Pole	5	53				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
17	42200 - Natural White Pine	Sawtimber Well	23.8	89	81-110	N/A																																																											
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18	429 - Mixed Upland Conifers	Poletimber Well	20.6	31	81-110	N/A	Cut under sale # 41-025-092-01, no FTP. Scattered large red pine																																																										
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22	42120 - Planted Jack Pine	Poletimber Medium	10.4	38	Immature	N/A	PLANTED IN 1984 WITH A 2-0 STOCK. 20-30' tall regen, trees look healthy, some spruce mixed in but less than 2%.																																																										
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24	6126 - Lowland Jack Pine	Sapling Well	59.5	37	Immature	N/A																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
25	42220 - Natural Jack Pine	Sapling Well	7.9	26	Immature	N/A	THE BIG ONE II 1997 WILDLAND FIRE. KILLED MOST OF THE JACK PINE AND SOME OF THE WHITE PINE. Stand has regenerated from burn to be a J3 from a W4.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine	100	Sapling	3	26					
26	42110 - Planted Red Pine	Poletimber Well	5.4	47	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine	70	Pole	6	47					
Quaking Aspen	10	Sapling	4						
Jack Pine	20	Pole	6						
27	122 - Road/Parking Lot	Nonstocked	29.5		Unspecified	No	Fox River Road		
28	623 - Emergent Wetland	Nonstocked	12.8		Unspecified	No			
29	42290 - Natural Mixed Pine	Poletimber Medium	74.0	61	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine	55	Pole	5	61					
Quaking Aspen	5	Pole	8						
Red Pine	40	Pole/Log	8						
30	6126 - Lowland Jack Pine	Sapling Well	46.6	39	Unspecified	N/A	CLEARCUT AND PLANTED. FTP# C41-241.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce	20	Sapling	4						
Jack Pine	80	Sapling	4	39					
31	6126 - Lowland Jack Pine	Poletimber Well	11.8	74	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	60	Pole/Log	9	74	Jack Pine	Medium	< 5 feet	Sapling	
Black Spruce	40	Pole	7		Black Spruce	Medium	< 5 feet	Sapling	
32	6239 - Mixed Emergent Wetland	Nonstocked	3.6		Unspecified	No			
33	6122 - Black Spruce	Sapling Well	6.1	74	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	60	Sapling/Pole	4	74	Black Spruce	High	< 5 feet	Sapling	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
34	6229 - Mixed lowland shrub	Nonstocked	74.6	0	Unspecified	4222 - Natural Jack Pine	11/1/11 Stand is now on proposal 7-11, Jack N Tammys Softwood, Part of Units 2-4 FTP C41-1494 submitted for jack pine regen. 12/3/12 RFT Stand is now under contract 41-007-11-01 Jack and Tammys Softwood. 1/4/16 - TCR12/11/18 - A few Jack pine are popping through the snow, there are lots of BS that were unmerchanable left after harvest. Site was scarified in the high grounds.																																					
35	42120 - Planted Jack Pine	Sapling Well	31.9	39	1-50	N/A	CLEARCUT AND PLANTED. FTP# C41-241.																																					
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36	6126 - Lowland Jack Pine	Sapling Well	36.8	19	Immature	N/A	[1-16-03] Under contract - The west half of the stand (approx. 17 acres) has been cut as Unit 2 of TS #21-01 and is now available for cultural treatments (jack pine regeneration) under FTP # C41-1020. The sale contract is still open. [9-10-04] Cutting complete. Sale is closed TCR dtd 9-8-04. See also FTP C41-1020 (JP regen). FTP cancelled b/c of the wet ground, however the trees are 1-3' tall, look good. Spruce is found in the lower ground. 1177 T/A from counts.																																					
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37	623 - Emergent Wetland	Nonstocked	6.4		Unspecified	No																																						
38	42120 - Planted Jack Pine	Sapling Well	53.7	31	Immature	N/A	Regen from FTP C41-574. Trees look healthy.																																					
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39	42120 - Planted Jack Pine	Sapling Medium	3.2	15	Immature	N/A	OPIC - FMD: [4/4/03] This stand is under contract TS #032-01 Big 450 Switch. Also see FTP #C41-1043 (conversion to jack pine). [4/5/05] Cutting is complete and the sale is closed. [5/3/08 jb] Jack pine planted 1083t/a. Needs regen check again in 2009. [6/6/11 JB] Regen was counted and total about 250 T/A with an average height of 0.65ft. May need additional planting. (6/19/12 RH) Replanted 2012 total cost of 284.70, 2000 JP planted (2013 1st year check 575 T/A.)																																					
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40	42120 - Planted Jack Pine	Sapling Well	8.6	15	Immature	N/A	HCVA - Fox River Management Plan. Stand contains about 1 acre within the buffer area. [4/4/03] This stand is under contract TS #032-01 Big 450 Switch. Also see FTP #C41-1043 (conversion to jack pine). [4/5/05] Cutting is complete and the sale is closed. [5/3/08 jb] Jack pine planted 1083t/a. Regen check needed in 2009 [6/6/11 JB] Regen was counted and total of about 408 T/A with an average height of 0.96ft. May need additional planting FTP 1043 cancelled due to adequate stocking in the stand due to circumstances.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	42220 - Natural Jack Pine	Sapling Well	73.4	18	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		5	Pole	8			
Jack Pine		90	Sapling	2	18		
Red Pine		5	Pole	8	60		
42	42120 - Planted Jack Pine	Sapling Well	88.4	15	Immature	N/A	HCVA- Fox River Management Plan. Not all of the acreage is within the buffer area. [4/4/03] This stand is under contract TS #032-01 Big 450 Switch. Also see FTP #C41-1043 (conversion to jack pine). [4/5/05] Cutting is complete and the sale is closed. [5/3/08 jb] Jack pine planted 1083t/a. Needs a regeneration check in 2009, Residual trees were left (red pine, white pine, white birch, especially near the pathway and snowmobile trail. Some oak and 1 stick jack pine are present. [6/6/11 JB] Regen was counted and total of about 602 T/A with an average height of 1.0ft. Regen check done in 2015, 586 TPA, FTP C41-1043 = completed.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		3	Pole/Log	9	63		
Jack Pine		97	Sapling	2	15		
43	42210 - Natural Red Pine	Sawtimber Medium	92.5	64	51-80	N/A	Red Pine was planted in 56-62 with replants. Scattered lg white pine, some aspen.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		15	Pole	6			
Quaking Aspen		5	Log	10			
Paper Birch		5	Pole	6			
Red Pine		70	Log	10	64		
White Pine		5	Log	12			
Sub-Canopy Species		Density	Avg. Height	Size			
White Pine		Medium	< 5 feet	Sapling			
Balsam Fir		Medium	< 5 feet	Sapling			
44	42220 - Natural Jack Pine	Poletimber Well	7.3	74	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Pole/Log	8	74		
Sub-Canopy Species		Density	Avg. Height	Size			
Black Spruce		Low	Variable	Sapling			
45	42320 - Upland Spruce	Poletimber Well	3.8	74	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		60	Pole	8	74		
Jack Pine		40	Pole/Log	9			
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		High	5 - 10 feet	Sapling			
Black Spruce		High	< 5 feet	Sapling			
46	42120 - Planted Jack Pine	Sapling Well	4.9	28	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	4	28		
Sub-Canopy Species		Density	Avg. Height	Size			
Black Spruce		Low	< 5 feet	Sapling			
47	6126 - Lowland Jack Pine	Sapling Medium	19.7	28	51-80	N/A	Stand was cut with adjacent timber sale in compartment 149. Very low ground- stand was trenched and planted but none of the planting stock survived. Stand is now fully regenerated with Jack that are growing on the furrows. Trenches are full of water.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	3	28		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	42110 - Planted Red Pine	Sawtimber Well	12.4	69	111-140	N/A	Starting to prune in areas where the BA is higher.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		5	Pole	8			
Red Pine		95	Sapling/Pole/Log	10	69		
49	42120 - Planted Jack Pine	Sapling Well	24.3	15	Immature	N/A	OPIC - FMD: [4/4/03] This stand is under contract TS #032-01 Big 450 Switch. Also see FTP #C41-1043 (conversion to jack pine). [4/5/05] Cutting is complete and the sale is closed. [5/3/08 jb] Jack pine planted 1083t/a. Needs regeneration check in 2009. Trees that are there look healthy. Some residual rp, wp, jp, oak were left. [6/6/11 JB] Regen was counted and total of about 700 T/A with an average height of 1.4 ft. Regen check in 2015, TPA was over 600 for most the stand, edges are a little more sparse. Stand will pass.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	2	15		
50	623 - Emergent Wetland	Nonstocked	15.2		Unspecified	No	
51	6126 - Lowland Jack Pine	Sapling Well	246.1	28	141-170	N/A	CLEARCUT AND SCARIFIED. FTP# C41-580. [1/17/01] c41-581 completed. 1150 ss/ac. [12/09/08] Trees look good. 10-15' tall.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		5	Log	16			
Jack Pine		70	Sapling	4	28		
Black Spruce		20	Sapling	4			
Red Pine		5	Log	16			
52	6126 - Lowland Jack Pine	Sapling Well	94.5	35	141-170	N/A	CUT AND PLANTED 1988. FTP# C41-635 [12/08/08] Trees look good. 15-20' tall.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		10	Sapling	4			
Jack Pine		90	Sapling	4	35		
Sub-Canopy Species		Density	Avg. Height	Size			
Black Spruce		Full	< 5 feet	Sapling			
Jack Pine		Full	< 5 feet	Sapling			
53	42200 - Natural White Pine	Sawtimber Well	1.4	94	51-80	N/A	STAND THINNED IN 1995 There are areas where the stand is dominated by mature wp- then moves into nice rp and pockets of good jp 5-8' tall from the cut. There are also some nice pockets where natural rp regeneration is 1-3' tall.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		40	Pole/Log	8			
White Pine		60	Log	10	94		
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Medium	< 5 feet	Sapling			
Jack Pine		Medium	5 - 10 feet	Sapling			
Black Spruce		Low	< 5 feet	Sapling			
54	42290 - Natural Mixed Pine	Sapling Well	11.6	28	1-50	N/A	OPIC - FMD: STAND THINNED IN 1995. There are areas where the stand is dominated by mature wp- then moves into nice rp and pockets of good jp 5-8' tall from the cut. There are also some nice pockets where natural rp regeneration is 1-3' tall.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		40	Sapling	4			
White Pine		10	XLog/Log	20	96		
Jack Pine		50	Sapling	4	28		
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		Medium	< 5 feet	Sapling			
Tag Alder		Low	5 - 10 feet	Tall Shrub			
White Pine		Medium	< 5 feet	Sapling			
Black Spruce		Medium	< 5 feet	Sapling			
55	6239 - Mixed Emergent Wetland	Nonstocked	26.7		Unspecified	No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
56	6121 - Tamarack	Poletimber Well	1.9	89	51-80	N/A	very wet ground.																																				
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57	429 - Mixed Upland Conifers	Poletimber Medium	33.3	28	1-50	N/A	STAND THINNED IN 1995. There are areas where the stand is dominated by mature wp.																																				
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62	42110 - Planted Red Pine	Poletimber Well	13.9	64	111-140	N/A	Red pine plantation- not great quality but where the BA is higher they are self pruning and look good, replanted several times.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																										
64	42110 - Planted Red Pine	Poletimber Well	2.9	64	81-110	N/A	Red pine plantation- not great quality but where the BA is higher they are self pruning and look good, replanted several times. JP understory creeping in from the surrounding stand is starting to get some merchantable sticks in it.																										
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66	42320 - Upland Spruce	Poletimber Well	0.3	74	81-110	N/A	Red pine plantation- not great quality but where the BA is higher they are self pruning and look good, replanted several times. JP understory creeping in from the surrounding stand is starting to get some merchantable sticks in it.																										
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67	6239 - Mixed Emergent Wetland	Nonstocked	0.3		Unspecified	No																											
68	6239 - Mixed Emergent Wetland	Nonstocked	2.0		Unspecified	No																											
400	330 - Low-Density Trees	Nonstocked	62.3	0	Unspecified	Managed Opening	Stand was cut in with Big 450 switch sale and left unplanted for a fire break and wildlife purposes. Residual rp, wp, oak, jp, rm, wb were left especially near the pathway and snowmobile trail.2018: Stand is starting to fill in with JP seedlings where grass once was.																										
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