



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41129

Entry Year 2017

Acreage: 2,321

County Schoolcraft

Management Area: Danaher Kingston Outwash

Revision Date: 2015-08-14

Stand Examiner: Robert Tylka

Legal Description:

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

Identified Planning Goals:

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

Soil and topography:

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

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

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

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

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

Watershed and Fisheries Considerations:

The Fox River and Little Fox River are found at the boundaries of this compartment. Both rivers are cold-water of high quality and support brook trout. The Fox River is currently stocked with brook trout, but natural reproduction is increasing and it is anticipated that the fishery may be able to support itself in the future. Both rivers are included in the Fox River Natural River Plan and are to be protected with 200' buffers.

Wildlife Habitat Considerations:

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

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist primarily of glacial outwash sand and gravel and postglacial alluvium with a minor amount of lacustrine sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subcrops below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

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

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

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

Fire Protection:

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

Additional Compartment Information:

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

The following reports from the Inventory are attached:

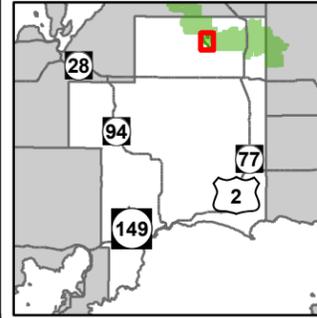
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

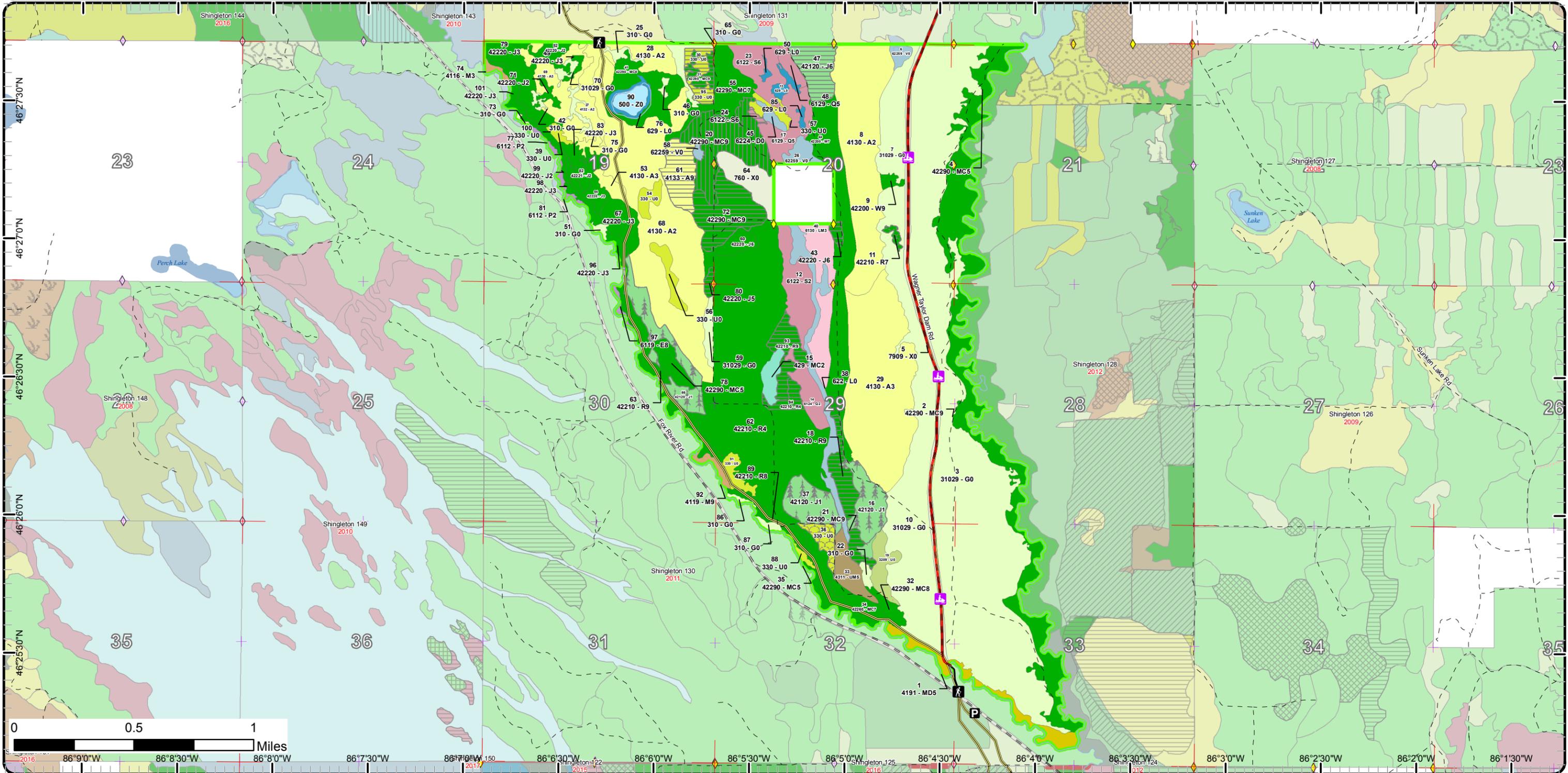
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

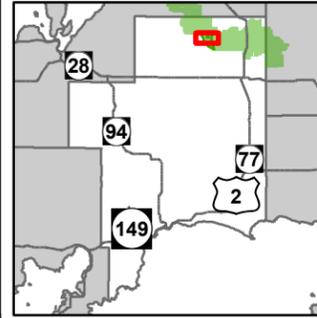
Compartment: 129
 T47N, R14W, Sec: 19-21, 28-33
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Danaher Kingston Outwash
 YOE: 2017
 Acres: 2321 GIS Calculated
 Examiner: Robert Tylka
 Map Revised: 8/25/2015
 Map Phase: Review



- ✚ Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- P Parking Lot
- 🚶 Hiking Trails
- 🏠 Snowmobile Trails
- Rivers
- Lakes
- Treatments
- ▨ Site Prep
- ▨ Clearcut (w/Reserves)
- ▨ Planting (tree species)
- ▨ Shelter Wood (w/Reserves)
- Forest Covertypes
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- 790 - Other Bare/Sparsely Vegetated
- Non-Forest Covertypes
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees

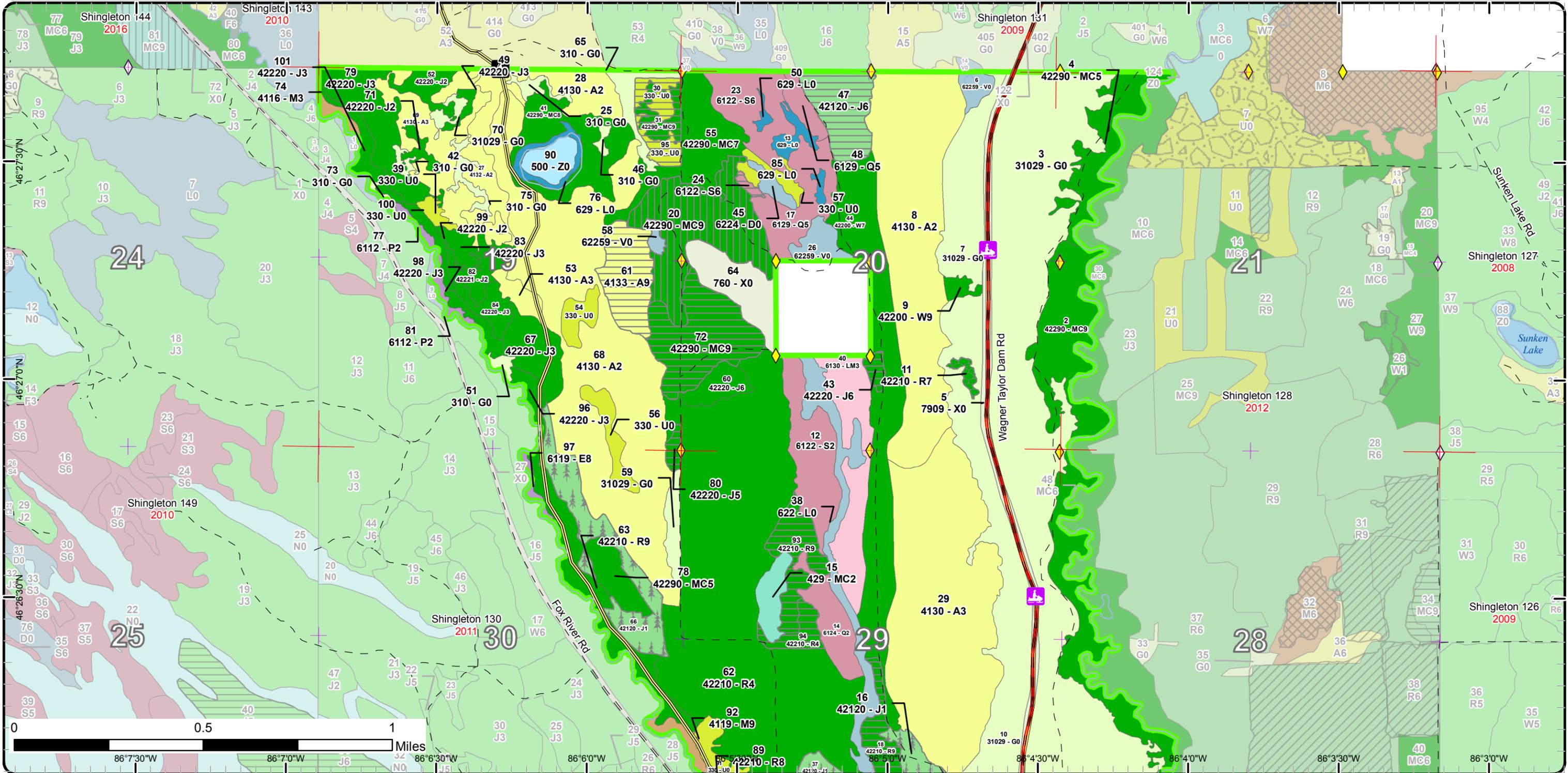


Cover Type & Treatments



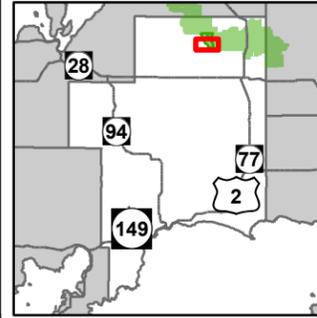
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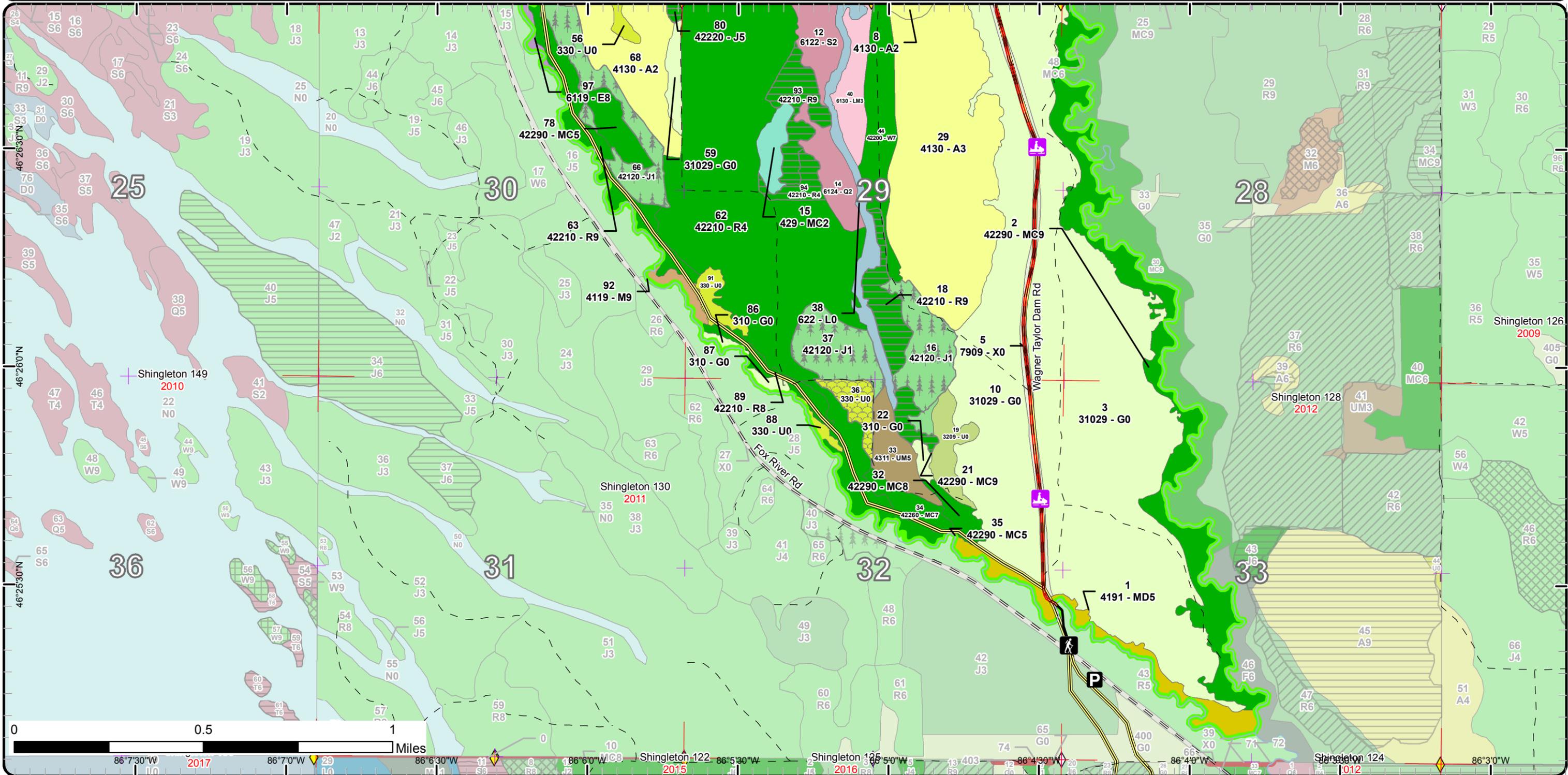


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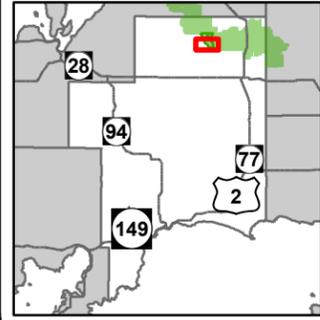
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Stand Boundary Map



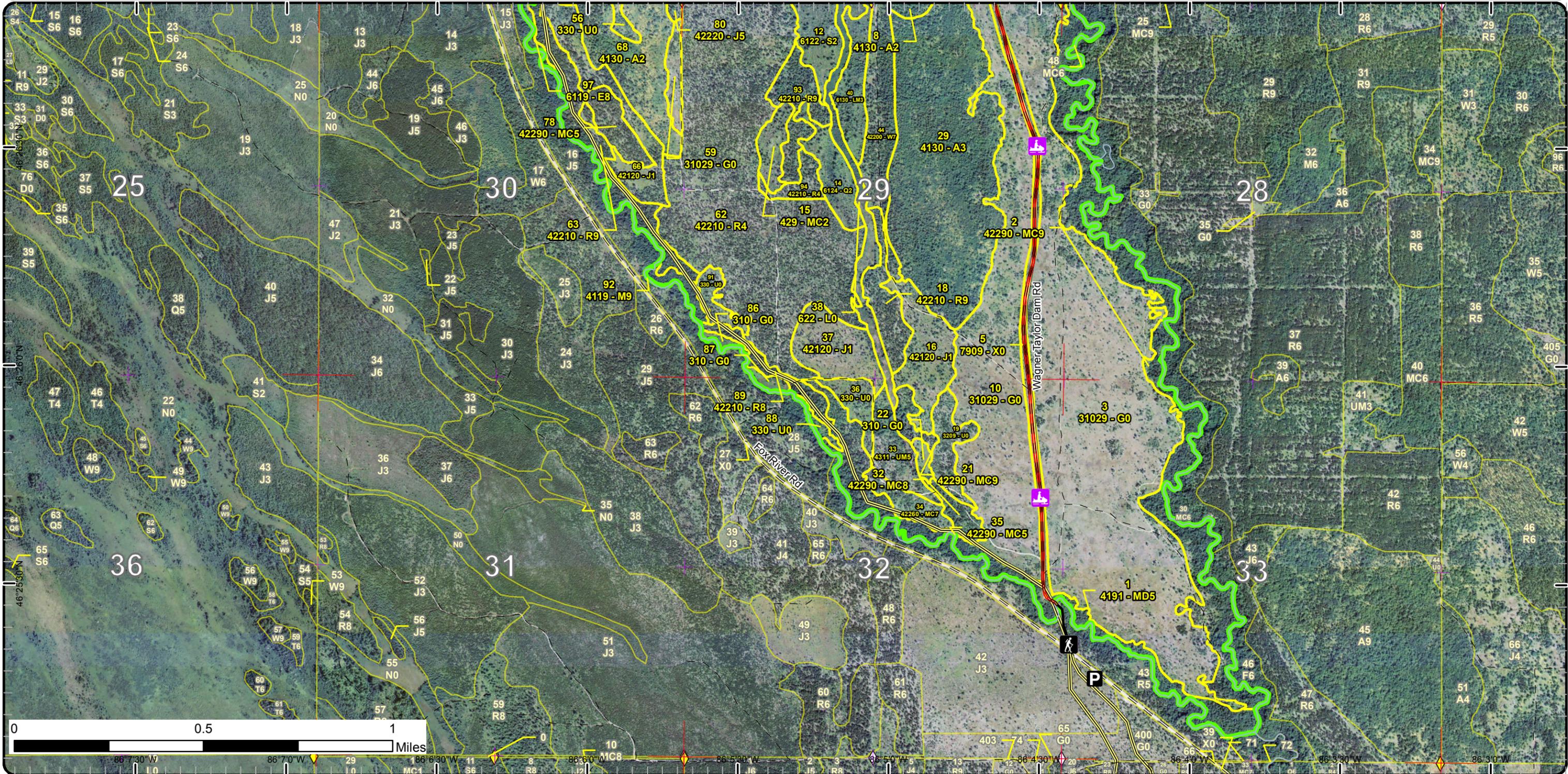
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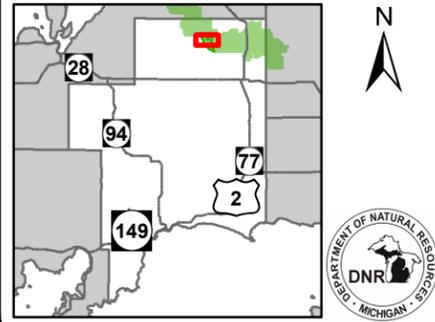
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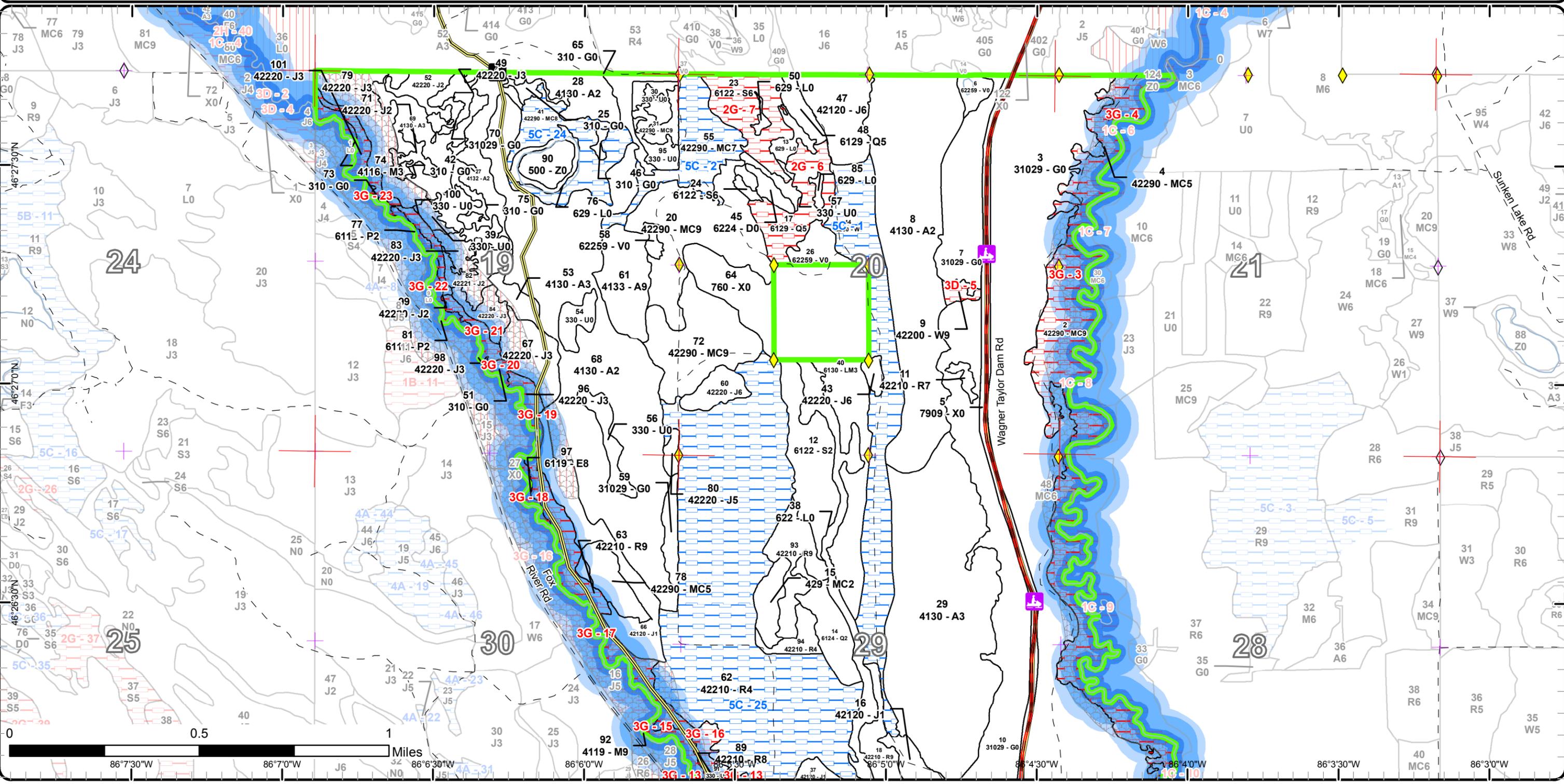


Special Conservation Areas & Site Conditions Map

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|--|---|--|
| <ul style="list-style-type: none"> ✦ Remonumented Section Corners ◆ Survey Grade GPS Corners ◇ Field Grade GPS Corners — Miris Corners — County Gravel Roads — Gravel Roads — Poor Dirt Roads 🚶 Hiking Trails 🏠 Snowmobile Trails — Rivers □ Stand Boundaries | <p>Recommendation</p> <ul style="list-style-type: none"> 🔲 SCA Removal Site Condition — Available w/ Constraints — Unavailable <p>Available Factors W/ Constraints</p> <ul style="list-style-type: none"> 5C: Delay treatment for age/size class diversity or exceptional site quality | <p>Unavailable Factors</p> <ul style="list-style-type: none"> 2G: Too wet (sensitive soils, does not include access issues) 3D: Recreational / Scenic values 3G: Other Influence zones - See comments <p>Special Conservation Areas</p> <ul style="list-style-type: none"> 🌊 Natural Rivers Vegetative Buffer 🌊 Natural Rivers Zoning District 🌊 High Priority Trout Stream Buffer 🔲 Other SCA (No Category Assigned) |
|--|---|--|



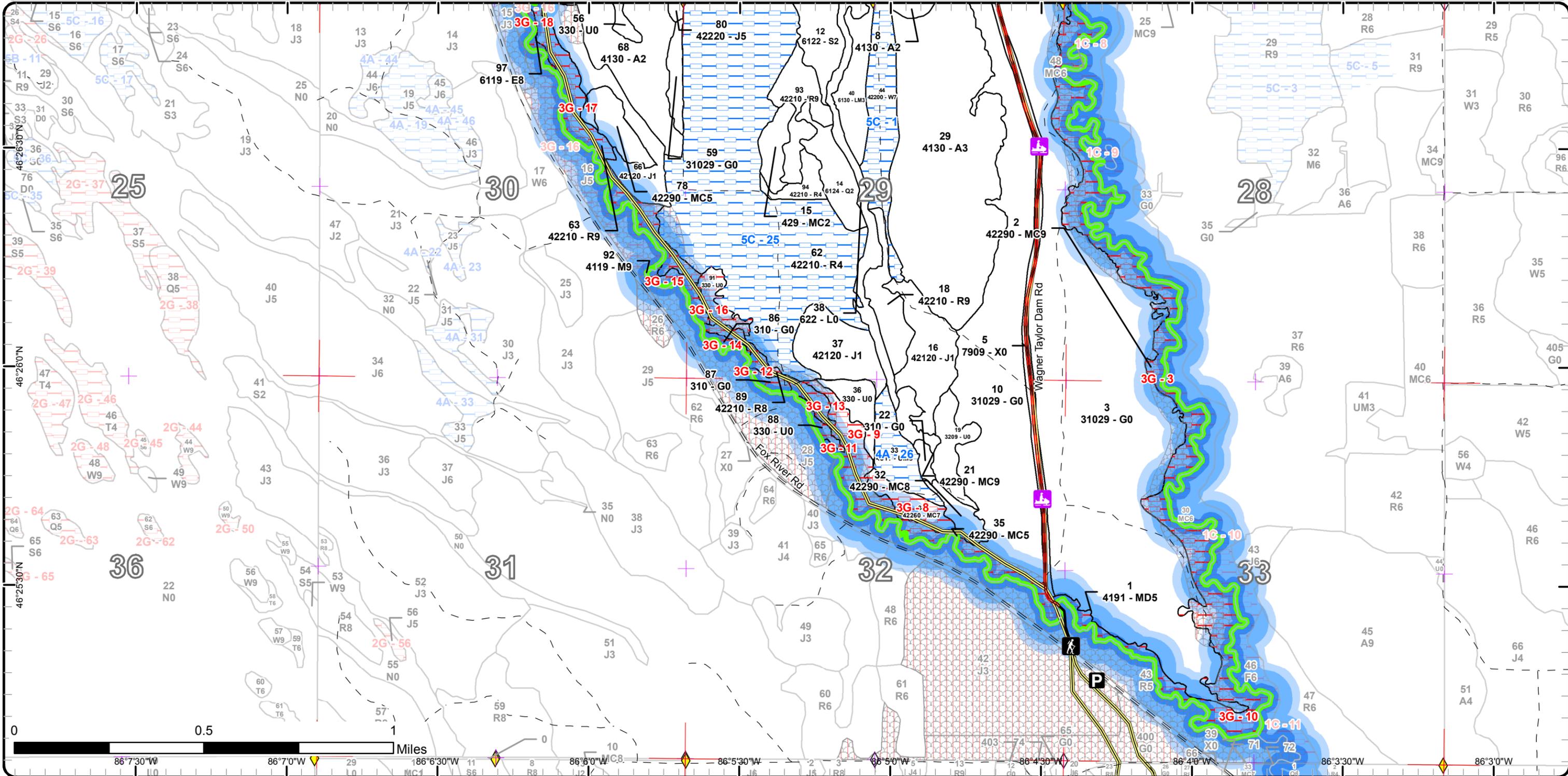
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- Stand Boundaries
- Recommendation**
- SCA Removal Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 4A: No Markets Available for these Forest Products

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 3G: Other Influence zones - See comments
- Special Conservation Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Other SCA (No Category Assigned)



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	270	133	53	0	0	0	0	0	21	0	0	0	0	0	0	0	0	477
Bare/Sparsely Vegetated	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Bog	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Herbaceous Openland	591	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	591
Jack Pine	0	74	0	90	8	24	0	0	3	0	0	0	0	0	0	0	0	0	199
Low-Density Trees	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Aspen/Balsam Poplar	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	15	0	0	6	0	0	0	0	0	0	21	0	0	0	0	0	42
Lowland Deciduous	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Lowland Mixed Forest	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Spruce/Fir	0	0	26	0	0	0	0	0	0	1	0	0	22	0	0	0	0	0	49
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Natural Mixed Pines	0	0	0	0	0	0	10	25	103	199	0	0	0	0	0	0	0	0	337
Northern Hardwood	0	0	0	3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	8
Red Pine	0	0	0	0	0	0	0	2	14	275	0	0	0	0	0	0	0	0	291
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	67	70
Total	768	344	213	151	8	30	10	34	134	499	0	0	43	0	0	0	0	90	2324



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 129
Total Compartment Acres: 2,321

Commercial Harvest - 189
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
Aspen	21	0	0	0	0	0	0	0	0	21
Jack Pine	26	0	0	0	0	0	0	0	0	26
Low-Density Trees	9	0	0	0	0	0	0	0	0	9
Lowland Spruce/Fir	1	0	0	0	0	0	0	0	0	1
Natural Mixed Pines	47	0	0	0	47	0	0	0	0	94
Red Pine	37	0	0	0	0	0	0	0	0	37
Total	142	0	0	0	47	0	0	0	0	189

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	189	10	72	0	0	0	0	0	0	271
Next Step	0	166	130	0	0	21	380	0	0	698
Total	189	177	202	0	0	21	380	0	0	969



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	Approval Status
11	41129011- Prep	2.1	42210 - Natural Red Pine	Sawtimber Poor	65	1-50	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
Habitat Cut: Yes			Site Condition:								
<u>Prescription</u> trench and plant jack pine.											
<u>Specs:</u>											
<u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Jack pine											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
16	41129016- Plant	22.1	42120 - Planted Jack Pine	Sapling Poor	4	Immatu re	Planting	Replant	4212 - Planted Jack Pine	Even-Aged	Approved Proposal
Habitat Cut: Yes			Site Condition:								
<u>Prescription</u> Site failed regen survey site needs a replant.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Jack pine											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
18	41129018-Cut	14.1	42210 - Natural Red Pine	Sawtimber Well	73	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Hold until the adjacent jack pine to the east meets green-up specs, then harvest by clearcutting with retention. Retention will be determined at that time, but retaining red & white pine 18" DBH and larger, plus oak if present, should be sufficient.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Red pine is desirable; all conifers plus oak and birch are acceptable.											
<u>Regen:</u>											
<u>Other</u> After harvest, trench and plant red pine. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
20	41129020-Cut	46.6	42290 - Natural Mixed Pine	Sawtimber Well	78	111- 140	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Shelterwood with retention - retain 20-40 basal area of healthy red & white pine, favoring trees with the best potential as seed sources. Buffer the stand to the southeast that is still regenerating, and the larger lowland area along the stand's western perimeter. Protect other wet lowland openings as needed - this retention to be determined during field prep.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Red & white pine are desirable on the uplands, with jack pine/black spruce/tamarack in the lower areas. Aspen is also acceptable throughout.											
<u>Regen:</u>											
<u>Other</u> Consider leaving pockets of higher BA red/white pine near the south edge of the stand where this stand bounds against the lower density upland timber adjacent to the south, which is also being cut. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
21	41129021-Cut	5.4	42290 - Natural Mixed Pine	Sawtimber Well	73	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Hold for now, and schedule harvest for 10/01/2021, when the stand reaches rotation age. Harvest is contingent on the adjacent jack pine regen to the northeast meeting green-up specs. Harvest shall be a clearcut with retention, reserving any red & white pine 18" DBH or larger. Also retain oak if present. After harvest, trench and plant red pine.

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

Acceptable red pine is desirable; all conifers plus oak and birch are acceptable.

Other Old next step comments:

Proposed Start Date: 10/1 /2016

24	41129024-Cut	1.3	6122 - Black Spruce	Poetimber Well	80	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut - cut with the adjacent stand to the west. No retention required due to small stand acreage, but may leave any pine over 18" DBH and/or cedar if any of these are encountered in the stand.

Next Step Treatments:

Acceptable Spruce is desirable; any lowland timber species with commercial potential is acceptable.

Other Monitor for natural regeneration per standard procedures. Old next step comments:

Proposed Start Date: 10/1 /2016

30	41129030-Cut	4.9	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest any merchantable trees except oak if present. Also retain red & white pine 18" DBH and larger if any are encountered in the stand. After harvest, trench & plant to establish red pine.

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

Acceptable Red pine is desirable. All conifers plus aspen, birch and oak are acceptable.

Other Previously inventoried as part of a large R7 stand, where some cutting took place. Natural regeneration failed.

Comment: Due to small stand acreage, retention is not required but is still desirable here. Old next step comments:

Proposed Start Date: 10/1 /2016

31	41129031-Cut	6.5	42290 - Natural Mixed Pine	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention - reserve all red & white pine over 18" DBH, and any oak encountered in this stand. Trench and plant red pine.

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

Acceptable Red pine is desirable. All conifers plus oak and birch are acceptable.

Other Old next step comments:

Proposed Start Date: 10/1 /2016



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	Approval Status
36	41129036- Prep	8.3	330 - Low-Density Trees	Nonstocked	0	Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: Yes**Site Condition:**Prescription Trench and plant Jack pine.Specs:Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr)Treatments:Acceptable Jack pineRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

37	41129037- Plant	22.0	42120 - Planted Jack Pine	Sapling Poor	6	Immatur re	Planting	Replant	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: Yes**Site Condition:**Prescription Plant red pine or jack pine on site. Regen survey came back as failed.Specs:Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)Treatments:Acceptable Jack pine or red pineRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

43	41129043-Cut	2.7	42220 - Natural Jack Pine	Poletimber Well	44	51-80	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Harvest in YOE 2019 with the jack pine to the north in stand 47, and the rest of that stand where it crosses into C.131. No retention required due to small stand acreage, but may leave some red & white pine plus oak if encountered in the stand.Specs:Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)Treatments:Acceptable Jack pine is desirable, and all conifers plus birch and oak are acceptable.Regen:Other After harvest, trench & plant jack pine. Old next step comments:Comment:Proposed Start Date: 10/1 /2018

47	41129047-Cut	21.1	42120 - Planted Jack Pine	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Cut all jack pine - retain any red and white pine present. Other retention to be determined during field prep.Specs:Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder/MechanicalTreatments:Acceptable Jack Pine is desired, with other conifers plus oak and birch acceptable.Regen:Other Cut with the jack pine to the north in Cmp 131. Old next step comments:Comment:Proposed Start Date: 10/1 /2018



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	Approval Status
61	41129061-Cut	21.2	4133 - Aspen, Mixed Pine	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention - cut all trees 2" DBH and greater except for retaining all oak, and leaving 10-20 BA of larger red & white pine.

Specs:Next Step

Treatments:

Acceptable Aspen is the primary goal; pines and oak are also acceptable.

Regen:

Other Buffer the steeper slopes as retention areas, especially along the eastern edge of the stand. Also leave a buffer along the wetland area o the
Comment: northeast, and consider leaving the BA of pine/oak heavier in areas where the aspen is thin. Old next step comments:

Proposed Start Date: 10/1 /2016

66	41129066- Plant	27.4	42120 - Planted Jack Pine	Sapling Poor	6	Immatur re	Planting	Replant	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: Yes**Site Condition:**

Prescription replant JP

Specs:Next Step

Treatments:

Acceptable Jack pine

Regen:

Other Percent to Treat = 100% Old next step comments:

Comment:

Proposed Start Date: 5 /27/2015

72	41129072-Cut	35.4	42290 - Natural Mixed Pine	Sawtimber Well	78	51-80	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription CC with retention - Cut all trees 2" DBH and larger except for reserving the oak, and also marking to leave red & white pine 18" DBH and larger.

Specs:

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

Treatments:

Acceptable Jack pine is the primary goal, but red & white pine are also acceptable. Areas that regenerate to a fully-stocked condition with bigtooth aspen are
Regen: also acceptable.

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

80	41129080-Cut	2.6	42220 - Natural Jack Pine	Poletimber Medium	70	1-50	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut now, then trench and plant jack pine. Leave the white pine and any oak.

Specs:

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

Treatments:

Acceptable Jack pine will do best but all pines are acceptable.

Regen:

Other Due to small stand acreage, retention is not required but is still desirable here. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
93	41129093-Cut	16.2	42210 - Natural Red Pine	Sawtimber Well	85	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention - Leave any red & white pine over 18" DBH, plus all oak. If this does not provide sufficient retention, then a patch may be left to satisfy certification requirements.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

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

Regen:

Other After harvest, trench & plant red pine. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

94	41129094-Cut	6.4	42210 - Natural Red Pine	Poletimber Poor	85	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention - retain a few log-sized red & white pine, plus any oak found in the stand.

Specs:

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

Treatments:

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

Regen:

Other After harvest, trench and plant red pine. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

95	41129095-Cut	4.6	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest any merchantable trees except oak if encountered in the stand. Also retain any red & white pine 18" DBH and larger, if these are present.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Red pine is desirable. All conifers plus birch and oak are acceptable.

Regen:

Other Previously inventoried as part of a large R7 stand, where some cutting took place. Natural regeneration failed.

Comment: Due to small stand acreage, retention is not required but is still desirable here. Old next step comments:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 270.8**

Report 5 – Site Conditions

Shingleton Mgt. Unit
Robert Tylka : Examiner

Compartment: 129
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail <i>With Condition</i> Acres Not Available			Dominant Site Conditions					
					4A	5C	1C	2G	3D	3G
477	477	0	0	Aspen						
52	52	0	0	Bare/Sparsely Vegetated						
14	14	0	0	Bog						
591	584	0	8	Herbaceous Openland						8
198	178	0	20	Jack Pine						20
48	39	0	9	Low-Density Trees						9
5	0	0	5	Lowland Aspen/Balsam Poplar						5
41	20	0	21	Lowland Conifers				21		
2	0	0	2	Lowland Deciduous						2
30	30	0	0	Lowland Mixed Forest						
39	39	0	0	Lowland Shrub						
49	27	0	22	Lowland Spruce/Fir				22		
23	0	0	23	Mixed Upland Deciduous						23
337	111	55	171	Natural Mixed Pines		55	0			171
8	0	0	8	Northern Hardwood						8
291	39	217	35	Red Pine		217				35
4	4	0	0	Treed Bog						
9	9	0	0	Upland Conifers						
14	0	14	0	Upland Mixed Forest	14					
12	12	0	0	Upland Shrub						
8	8	0	0	Water						
69	0	67	3	White Pine		67			3	
2,321	1,643	352	326	Total Forested Acres	14	338	0	43	3	280
	71%	15%	14%	Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Shingleton Mgt. Unit
Robert Tylka : Examiner

Compartment: 129
Year of Entry: 2017

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3G: Other Influence zones - See comments	116	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River. This is in the buffer zone along the Fox River.							
4	Unavailable	3G: Other Influence zones - See comments	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River. This is in the buffer zone along the Fox River.							
5	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Maintained to keep some larger trees in view of the snowmobile trail.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Shingleton Mgt. Unit
Robert Tylka : Examiner

Compartment: 129
Year of Entry: 2017

8	Unavailable	3G: Other Influence zones - See comments	9	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p>Comments: Part of this stand falls into the buffer zone along the Little Fox River per the Fox River Plan. Maintain it for aesthetics along the Fox River Pathway.</p>							
9	Unavailable	3G: Other Influence zones - See comments	21	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p>Comments: HCVA - Most of this stand falls within the buffer zone along the Little Fox River, per the Fox River Plan. The Fox River Pathway also crosses through this stand.</p>							
10	Unavailable	3G: Other Influence zones - See comments	23	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p>Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River. The Fox River pathway also runs the edge of the stand.</p>							
11	Unavailable	3G: Other Influence zones - See comments	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River.</p>							
12	Unavailable	3G: Other Influence zones - See comments	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River.</p>							
13	Unavailable	3G: Other Influence zones - See comments	9	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p>Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River. The Fox River Pathway also runs through the stand.</p>							
14	Unavailable	3G: Other Influence zones - See comments	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River.</p>							

Report 5 – Site Conditions

Shingleton Mgt. Unit
Robert Tylka : Examiner

Compartment: 129
Year of Entry: 2017

15	Unavailable	3G: Other Influence zones - See comments	5	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River. The Fox River pathway also runs along the edge of the stand.							
16	Unavailable	3G: Other Influence zones - See comments	6	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River - part of this stand is in the buffer zone along the Little Fox River. The Fox River pathway also runs along the edge of the stand.							
17	Unavailable	3G: Other Influence zones - See comments	27	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River. The Fox River Pathway also runs through the stand.							
18	Unavailable	3G: Other Influence zones - See comments	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River.							
19	Unavailable	3G: Other Influence zones - See comments	4	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River. The Fox River pathway also runs through the stand.							
20	Unavailable	3G: Other Influence zones - See comments	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River.							
21	Unavailable	3G: Other Influence zones - See comments	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River.							

Report 5 – Site Conditions

Shingleton Mgt. Unit
Robert Tylka : Examiner

Compartment: 129
Year of Entry: 2017

22	Unavailable	3G: Other Influence zones - See comments	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River.							
23	Unavailable	3G: Other Influence zones - See comments	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HCVA - Fox River - this stand is in the buffer zone along the Little Fox River.							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold for now until the adjacent stands that have recently been regenerated become more effective wildlife cover.							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	217	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sparse timber with several areas that have been underplanted in an attempt to raise the stocking levels - hold for now, and allow these plantings to grow. Next entry identify some areas to begin breaking out of the stand to regenerate.							
26	Available	4A: No Markets Available for these Forest Products	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Maintain this stand until the aspen component is marketable, as the rest is older but low-quality wood.							

**Report 6 – 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
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	1
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	47
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	29
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	80
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	5
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	41
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	47
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	7
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	3
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	18
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	54

**Report 6 – 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
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	108
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	7
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	10
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	17
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	17
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	2
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	4
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	18
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	4
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	5
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	3

**Report 6 – 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
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	4
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	9
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	5
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	41
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	5
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	2
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	7
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	31
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	5
Unspecified Comments the area is already covered by the Natural River HCVA	Other SCA		SCA Removal	15



Report 7 – 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. 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	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	22.8	65	51-80	<p>HCVA - Fox River Management Plan; protect this stand in accordance with guidance in the plan.</p> <p>This stand is a mix of lowland hardwood, conifers and aspen on transitional slopes dropping down to the Fox and Little Fox Rivers. The site varies from dry gentle-to-steep slopes to wet bottomlands, and unevenaged characteristics are evident. Basal area/crown closure/species composition/size class are all highly variable.</p> <p>The year of origin was formerly listed as 1950, but size class diversity suggests that a greater range of age classes is present.</p>
2	42290 - Natural Mixed Pine	Sawtimber Well	116.5	85	111-140	<p>HCVA - Fox River Management Plan; protect this stand in accordance with the guidance from the plan.</p> <p>This stand features mature pine and a mix of other species on the slopes and bottomlands along the banks of the Fox River. The year of origin reflects the approximate age of the spruce and hardwoods, which average 8-10" DBH; many of the white pine are older. Stand density and composition are variable, with the white pine being the most consistently represented species.</p>
4	42290 - Natural Mixed Pine	Poletimber Medium	24.7	65	51-80	<p>HCVA - Fox River Management Plan; protect this stand in accordance with guidelines in the plan.</p> <p>Stand featuring mature jack pine and other species on the slopes and banks along the Fox River. The red & white pine (16+'' DBH) are older than the year of origin shown here.</p>
8	4130 - Aspen	Sapling Medium	105.1	6	Immature	Cut in 2009, leaving residual BA: Red pine = 10, jack pine = 12, oak = 9; total = 31 sq.ft/acre.
9	42200 - Natural White Pine	Sawtimber Well	2.7	85	51-80	Stand featuring mixed few pine. Red maple & aspen were cut out in 2009. The pine were kept for aesthetics along the snowmobile trail.
11	42210 - Natural Red Pine	Sawtimber Poor	2.1	65	1-50	This stand was cut under Ts 41-024-07-01, which waqs completed 8-28-09. Apparently the stand was listed for cult treatment under FTP C41-1354 (RP regeneration) but no work was done.
12	6122 - Black Spruce	Sapling Medium	26.1	17	Immature	Fully-stocked spruce regen with a few residual red & white pine from the last stand. Lots of black spruce and white pine seedlings on the ground as well.
14	6124 - Lowland Spruce-Fir	Sapling Medium	14.5	17	Immature	Lowland spruce/fir regen with a mix of others thrown in. Fully-stocked, and the stand includes a few large residual pines from the last stand.
15	429 - Mixed Upland Conifers	Sapling Medium	8.5	17	Immature	Fully-stocked with black spruce/jack pine regeneration. A surprising number of red pine saplings are present as well as white pine, etc. The large red & white pine are residuals from the previous stand.
16	42120 - Planted Jack Pine	Sapling Poor	24.2	4	Immature	Stand was trenched and planted. 3rd year regen check done in summer 2015 = 293 TPA. Site needs a replant.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	21.2	111	1-50	This stand appears to feature slow-growing lowland timber that has become an unevenaged stand of mixed conifers on a relatively wet site. The wet terrain presents difficulties for harvesting operations in many areas of the stand. The red & white pine logs are 12-18" DBH residuals from the previous stand, which was apparently partially cut during the mid 1960's and has now regenerated naturally. Site indices appear to be variable, making it even more difficult to recognize the different age classes. The S2 understory varies from saplings 2-10' tall up to trees 3-5" DBH, further indicating that several age classes are now present. Some areas are still fairly open, but appear to be filling in slowly. The lower age classes given here represent a best guess on when the stand was cut.
18	42210 - Natural Red Pine	Sawtimber Well	14.1	73	111-140	Fully-stocked stand of red pine with white pine plus a few oak, aspen and paper birch. Ready for final harvest as soon as the adjacent jack pine regen to the east meets green-up specs. This stand was thinned last entry, removing aspen, jack pine etc. This has resulted in bigtooth aspen regeneration in the more open areas, and scattered white pine regen throughout.
20	42290 - Natural Mixed Pine	Sawtimber Well	46.6	78	111-140	This stand on gently rolling terrain features variable species and density. Basal area runs from about 70 to 160 sq.ft. per acre. The higher ground features a mix of pines with a few red maple, while the lower areas display a mix of spruce and jack pine, with a few aspen and tamarack scattered throughout. Age class variability is also present, but the age shown here represents the average age of the red & white pine. This stand also includes numerous small, wetter openings that should be protected during harvest operations to avoid excessive rutting.
21	42290 - Natural Mixed Pine	Sawtimber Well	5.4	73	81-110	Fully-stocked stand featuring red & white pine with a few oak, etc. on rolling terrain. This stand was partially cut in 2009, resulting in a flush of aspen regen in the more open areas. Ready for final harvest as soon as the jack pine regen adjacent to the northeast reaches green-up specs.
23	6122 - Black Spruce	Poletimber Well	22.0	111	51-80	Very old stand on relatively wet ground. There is evidence of age class diversity present, and site indices vary somewhat throughout the stand. Operations may be limited by the wet terrain.
24	6122 - Black Spruce	Poletimber Well	1.3	80	51-80	Small pocket of spruce & pine on a transitional site between the dry uplands and the lowlands.
27	4132 - Aspen, Jack Pine	Sapling Medium	17.3	28	Immature	Stand of mixed regeneration that appears to be about as old as the nearby stands that burned in 1987. Some aspen and jack pine have now reached merchantable size but overall the stand is still in the sapling stage, with dbh's generally around 3-5". Stand density and composition vary; aspen is the dominant species. A few larger pine are also present.
28	4130 - Aspen	Sapling Medium	13.8	6	Immature	Cut in 2009. Fully-stocked bigtooth aspen regen. A few residual white pine and oak from the last stand are present, and oak seedlings are present throughout.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4130 - Aspen	Sapling Well	132.6	14	Immature	Cut in 2001 - Aspen regen with oak, red maple and pine regen mixed in. There are also scattered red & white pine sawlogs/poles - residuals from the previous stand. A few larger oak are also scattered throughout the area.
31	42290 - Natural Mixed Pine	Sawtimber Well	6.5	80	81-110	Mixed pine stand that is mature - never entered from the look of it.
32	42290 - Natural Mixed Pine	Sawtimber Medium	6.5	73	81-110	The history of this stand is somewhat unclear, as it appears that jack pine was planted to supplement the stocking of this pine stand when the basal area was lower - probably after a partial cut to remove aspen and red maple. The aspen and jack pine components appear to be approximately the same age, with a best guess that they originated during the mid-to-late 1980's. No clear documentation exists to confirm this and there have been numerous episodes of partial cuts and underplanting in this vicinity. The best bet now is to harvest the stand next entry and start it over.
33	4311 - Pine, Aspen Mix	Poletimber Medium	14.4	73	1-50	Two storied stand on rolling terrain, featuring several size classes of white pine and regeneration. About half of the stand's crown closure actually consists of mixed aspen poles and saplings, and there appears to be a component of both natural and planted jack pine scattered throughout. Volume and quality of the white pine is too low to consider this as the featured species, so managing for the aspen makes the most sense.
34	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	8.8	73	1-50	HCVA - Fox River. Sparse timber over brush and grass on the slopes and bottomland along the river. The Fox River Pathway runs through this stand.
35	42290 - Natural Mixed Pine	Poletimber Medium	21.3	85	51-80	HCVA - Fox River Management Plan. Maintain as a buffer along the river. Fairly open mix of pines (some up to 18" DBH) plus a few aspen & red maple on the slopes above the Little Fox River. Stand density and composition are highly variable. The understory is also a mix of pines and maple. The terrain itself is broken and features numerous steep gullies. The Fox River Pathway also runs through this stand.
37	42120 - Planted Jack Pine	Sapling Poor	22.0	6	Immature	T-sale was completed 8-28-09; Residual BA: Red pine = 9 sq.ft/acre. See FTP C41-1354 (JP regeneration) - Stand planted to jack pine in spring of 2012. (rh10/1/12) 2013 1st year check - results 400 T/A (needs a replant.) Summer 2015 regen survey = 305 TPA with 100 Volunteers/acre. Site needs a replant.
40	6130 - Fir, Aspen, Maple	Sapling Well	30.3	13	Immature	Regenerating to a mix of black spruce, white pine, balsam fir and hardwoods. There are older residuals up to 10' tall and new seedlings 0-2'. Scattered large old white pine & a few red pine are also present.
41	42290 - Natural Mixed Pine	Sawtimber Medium	26.8	80	51-80	Mix of pine, with white pine more dominant. Others scattered throughout, including a few oak. The understory is generally a mix of white pine and pockets of black spruce. Basal area varies and there are a few low wetter spots included, especially near the pond.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	42220 - Natural Jack Pine	Poletimber Well	2.7	44	51-80	Jack pine with spruce scattered throughout. This stand is a result of natural regen after a timber sale. Cut this stand in YOE 2019 with the J6 at the north edge of this compartment and the J6 immediately adjacent to the north in Cmp 131.
44	42200 - Natural White Pine	Sawtimber Poor	66.6	85	1-50	This stand has been entered on several occasions for partial harvests and cult work, but in general it has become a mixed stand with white pine dominant, and several apparent age classes. Hold for now while the stands that have been regenerated to both the east and west grow into more effective wildlife cover.
47	42120 - Planted Jack Pine	Poletimber Well	21.1	48	51-80	Jack pine - ready to harvest. Scattered red pine logs (residuals from a previous stand) and white pine poles are also present. [9-19-07] NOTE: Hold until YOE 2019 and include this stand in a timber sale with the adjacent J6 immediately to the north in Cmp 131.
48	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	5.8	48	1-50	This has become an unevenaged stand of mixed conifers on a relatively wet site. The red & white pine logs are 12-18" DBH residuals from the previous stand, which was apparently cut over during the mid 1960's and has now regenerated naturally. The S2 understory varies from 2-10' tall up to trees 4-5" DBH, further indicating that several age classes are now present. Some areas are still fairly open, but appear to be filling in slowly. The year of origin given here represents a best guess on when the stand was cut.
49	42220 - Natural Jack Pine	Sapling Well	1.9	28	Immature	Burned in 1987 - mostly jack pine regen with scattered aspen.
52	42220 - Natural Jack Pine	Sapling Medium	7.2	28	Immature	Burned in 1987 - jack pine regen with scattered aspen and grassy openings. Where present the pockets of jack pine are fully stocked, but the amount of open area reduces the overall crown closure to the level shown here.
53	4130 - Aspen	Sapling Well	5.4	28	Immature	Burned in 1987 - mostly mixed aspen but also scattered jack pine. The Fox River Pathway runs through this stand.
55	42290 - Natural Mixed Pine	Sawtimber Poor	27.9	80	1-50	Semi-open stand on rolling terrain that was partially cut as recently as 1990, but very little regeneration has become established. The timber here tends to be in small fully-stocked pockets separated by open areas covered with lichens, ferns etc. Recommend that we break this stand up into blocks and try to establish pine species via artificial regeneration.
60	42220 - Natural Jack Pine	Poletimber Well	8.0	37	51-80	Jack pine cut in 1978 - now about 5-8" DBH range. Most of the stems that are going to reach merchantable size have made it, but there are still a few in the 4-5" category. Merchantable heights run about 1-3 sticks, with a few taller. There are also a few red and white pine scattered in the stand, with logs in the 12-14" size class and a poles about the same size as the jack pine. Not much of an understory at this time, though a few white pine saplings are beginning to pop up.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4133 - Aspen, Mixed Pine	Sawtimber Well	21.2	82	81-110	Hilly ground featuring a stand of aspen with a variety of other species mixed in.
62	42210 - Natural Red Pine	Poletimber Poor	216.6	85	1-50	[8/14/03 RFT] 29000 red pine were planted on 70 acres by inmates during the spring of 2003. This was done to re-stock a failed plantation under FTP #C41-809 - schedule survival check for 2004.07/2005: Some of the red pine planted in 2003 have survived, but overall stocking on this harsh site remains poor. Evidence of budworm damage and mortality are present. Mixed pine pulpwood includes jack and white pines. A complete regeneration survey is needed to identify gaps in stocking, and fill in these areas by planting jack pine. Areas planted to jack pine will be mapped out as separate new stands. [07/2006] Regeneration survey results this year indicate that 80 of 146 (54.8%) survey plots are stocked with a variety of seedlings including jack pine, red pine, aspen, white pine, spruce, red maple and cherry totaling an average of 572 trees/acre. Given the nature of the site and the history of repeated attempts at planting trees, this is considered adequate stocking. Jack and red pines are by far the most prevalent, accounting for 390 trees/acres that are 2-3' tall. As these are the desired species for management, no further cultural work is recommended at this time.
63	42210 - Natural Red Pine	Sawtimber Well	26.7	80	111-140	HCVA - Fox River Management Plan Stand of large red pine in the buffer zone along the Little Fox River. The poletimber averages about 8-9" DBH, while the logs run 12-18" with a few larger. The Fox River Pathway runs through this stand.
66	42120 - Planted Jack Pine	Sapling Poor	27.4	6	Immature	OPIC - FMD: Jack pine is badly damaged and dying due to budworm damage - must salvage it quickly or lose it. Leave the red pine, but it's okay to mark a few as needed to allow logging access. Scarify and/or plant to regenerate jack pine. The Fox River Pathway also runs through this stand. Deducted area for retention. Rd.12-07 [2-22-08] Additional deduction was due to char discovered in the stand. [7-18-08] Stand is now under contract TS 41-024-07-01 Broken Branch Aspen. See also FTP C41-1354 (JP regeneration.) Residual BA: Red pine = 13 sq.ft/acre. [1-15-09] Deducted 11 acres from this stand to create stand 78. This is the deduction mentioned on 2-22-08 above. The original acreage of this stand is 43 and it's being reduced to 32. [8-28-09] Sale is completed TCR dtd 8-24-09. [08/29/2011 JB] Received completion report for this FTP and Stand for trenching on about 56 acres as a whole. Needs to be planted. Sale is completed TCR dtd 8-24-09. Stand planted in to jack pine in spring of 2012 regeneration check scheduled for 2013. (rh10/1/12) (2013 1st year check 335 T/A.) Summer 2015 Regen check = 268 TPA. Site needs a replant.
67	42220 - Natural Jack Pine	Sapling Well	15.1	28	Immature	HCVA - Fox River Management Plan Burned in 1987 - now a mix of J3 and A3, and the Fox River Pathway also runs through this stand. The eastern edge of the stand has a few mature trees that were left when the adjacent stand to the east was cut in 2009.
68	4130 - Aspen	Sapling Medium	151.5	6	Immature	Cut in 2009. Aspen regen plus others mixed in. The density varies significantly but still enough to be considered fully-stocked.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	4130 - Aspen	Sapling Well	30.6	28	Immature	Burned in 1987 - mostly aspen regen with scattered jack pine and others. Here and there a few stems are reaching merchantable DBH, but overall the trees are still smaller than pole class with many stems in the 3-4" class.
71	42220 - Natural Jack Pine	Sapling Medium	3.1	28	Immature	Burned in 1987 - mostly semi-open jack pine regen with scattered aspen and grassy areas.
72	42290 - Natural Mixed Pine	Sawtimber Well	35.4	78	51-80	This is a large, semi-open stand on gently rolling terrain. Basal area varies from 0 to 150 sq.ft. per acre, but most of the merchantable timber tends to be in small pockets that are medium- to fully-stocked. The poletimber averages about 8" DBH, while the sawlogs run 12-18". The understory stocking and composition are highly variable, with white pine most common. Oaks are also present in all size classes. Timber sale records indicate that partial cutting has occurred in parts of this stand.
74	4116 - Mixed N. Hardwood - Aspen	Sapling Well	2.7	28	Immature	HCVA - Fox River Management Plan - this stand is in the buffer zone along the Little Fox River. Part of this stand burned in 1987 - now it is a mix of cherry, aspen, red maple etc.
77	6112 - Lowland Aspen	Sapling Medium	1.8	28	Immature	HCVA - Fox River Management Plan Some of this stand on the banks of the Little Fox River burned in 1987 - now a mix of aspen and red maple with a few scattered residuals that were present before the fire. The area itself represents a rapid transition from the river to the much dryer uplands.
78	42290 - Natural Mixed Pine	Poletimber Medium	10.4	50	51-80	The Fox River Pathway runs through this stand. This stand was excluded when TS 24-07 was prepped and sold because there is fire damage from the Fox River Fire in 1987 (charring at the base of trees) on too many of the stems. Budworm damage has also occurred, killing many of the jack pine. Some of the larger red pine are undoubtedly older than the age shown here, but the majority of the trees are in a single age class. A few jack pine seedlings & saplings are appearing in the more open areas of the stand. Best to leave this stand intact for now as the rest of the timber sale area is still in the process of becoming fully reforested.
79	42220 - Natural Jack Pine	Sapling Well	22.9	28	Immature	HCVA - Fox River Management Plan Burned in 1987 - now a mix of J3 and A3 - mostly jack pine but also quite a bit of bigtooth aspen. The Fox River Pathway also runs through this stand.
80	42220 - Natural Jack Pine	Poletimber Medium	2.6	70	1-50	Pocket of mature jack pine with trees 5-12" DBH - ready to cut and regenerate. Basal area is about 70-90, and a few oaks are also present.
81	6112 - Lowland Aspen	Sapling Medium	3.1	28	Immature	HCVA - Fox River Management Plan Partially burned in 1987 - now mostly aspen and red maple regen on the banks of the Little Fox River, and reaching up the grassy slopes to the true uplands above the floodplain. A few scattered conifers and other hardwoods are present as well.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	8.8	28	Immature	HCVA - Fox River Management Plan Burned in 1987 - now a semi-open stand that features pockets of fully-stocked timber (jack pine with scattered aspen throughout) and approximately 20-25% open grass/upland brush.
83	42220 - Natural Jack Pine	Sapling Well	4.7	28	Immature	HCVA - Fox River Management Plan Burned in 1987 - now a mostly jack pine with scattered bigtooth aspen.
84	42220 - Natural Jack Pine	Sapling Well	6.7	28	Immature	HCVA - Fox River Management Plan Burned in 1987 - now young jack pine but also a few bigtooth aspen.
89	42210 - Natural Red Pine	Sawtimber Medium	8.6	80	111-140	HCVA - Fox River Management Plan Stand of large red pine along the Little Fox River. The poletimber averages about 8" DBH. The Fox River Pathway runs through this stand.
92	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.8	60	81-110	HCVA - Fox River Management Plan Mixed stand on the slopes along the Little Fox River. Stand density is variable, and the poletimber averages about 8-10" DBH. Timber quality is variable but this stand is more important for aesthetics and protection of the river corridor anyway. Some unevenaged characteristics are developing. The Fox River Pathway runs through this stand.
93	42210 - Natural Red Pine	Sawtimber Well	16.2	85	111-140	Mature red pine with white pine mixed in, as well as a few red maple. Basal area varies somewhat, but is generally in the 100-160 range.
94	42210 - Natural Red Pine	Poletimber Poor	6.4	85	1-50	Variable density pine mix, but predominantly a semi-open red pine stand. Cut now along with the R9 stand to the north.
96	42220 - Natural Jack Pine	Sapling Well	3.9	28	Immature	HCVA - Fox River Management Plan Burned in 1987 - now a J3 with trees starting to reach merchantable size. The Fox River Pathway also runs through this stand. A few larger pine that survived the fire are present.
97	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	2.4	60	51-80	HCVA - Fox River Management Plan Mixed stand on the slopes and lowlands along the Little Fox River. The poletimber averages about 6-8" DBH. Timber quality is variable but this stand is more important for aesthetics and protection of the river corridor anyway. Unevenaged characteristics are developing, and the age shown here approximates the average. It appears that a part of the stand may have been burned in the Fox River Fire, but it had little impact due to the semi-open the semi-open nature of this stand. The Fox River Pathway runs very close to this stand, though not right through it.
98	42220 - Natural Jack Pine	Sapling Well	4.4	28	Immature	HCVA - Fox River Management Plan Burned in 1987 - now young jack pine but also a few bigtooth aspen.

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 129
Year of Entry: 2017



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	42220 - Natural Jack Pine	Sapling Medium	3.9	28	Immature	HCVA - Fox River Management Plan Burned in 1987 - now a semi-open stand that features pockets of fully-stocked timber (jack pine with scattered aspen throughout) and approximately 20-25% open grass/upland brush.
101	42220 - Natural Jack Pine	Sapling Well	7.3	28	Immature	HCVA - Fox River Management Plan Burned in 1987 - now mostly J3 with a mix of deciduous species in some places right along the river bank.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	31029 - Grass (OI)	383.5	Yes	Large grassy opening along Wagner-Taylor Dam Rd. with pockets of slow-growing trees and upland brush. Opening maintenance was done on the northern portion of this stand as part of a timber sale in 2009. The road itself is a part of the snowmobile trail system.
5	7909 - Nonstocked (OI)	32.3	No	Wagner-Taylor Dam Rd. (county road) and right-of-way. The road is also part of the snowmobile trail system.
6	62259 - Bog (OI)	4.2	No	Boggy area with a small pond - water level varies seasonally.
7	31029 - Grass (OI)	32.0	No	Large grassy opening along Wagner-Taylor Dam Rd. that is filling in with slow-growing trees and upland brush. The road is a part of the snowmobile trail system. Some opening maintenance was done as part of a timber sale in 2009.
10	31029 - Grass (OI)	139.8	No	Large grassy opening along Wagner-Taylor Dam Rd. that is filling in with slow-growing trees and upland brush. The road is a part of the snowmobile trail system. Opening Maintenance on the northern part of the stand was done as part of a timber sale in 2009.
13	629 - Mixed non-forested wetland	4.3	No	Open wet area featuring wet grass and various shrubs with scattered spruce and a few pine. Access across this stand appears to be difficult under any but the driest summer conditions.
19	3209 - Upland Shrub (OI)	12.1	No	Large grassy/brushy opening adjacent to open grassland.
22	310 - Herbaceous Openland	2.5	No	
25	310 - Herbaceous Openland	3.4	No	Open grassy area with scattered trees.
26	62259 - Bog (OI)	7.4	No	Wet grass and low shrubs with scattered conifers throughout.
30	330 - Low-Density Trees	4.9		Open area featuring scattered trees, brush, ferns, lichens etc.



Stand	Cover Type	Acres	Managed Site	General Comments:
36	330 - Low-Density Trees	8.3		<p>[8/15/03 RFT] 1500 jack pine were planted on 20 acres by inmates during the spring of 2003. This was done under FTP #C41-800 to fill in areas of the plantation that had failed. Schedule survival check for 2004.</p> <p>2005: The mature jack pine is in trouble due to budworm damage/mortality, but the natural regeneration and those planted in 2003 appear to be surviving. Recommend attempting to salvage the jack pine and cutting the merchantable aspen. Protect the jack pine regen during the cut. More jack pine should be planted afterward, as this species appears to be much better suited to this site than the red pine. The existing red pine poles are growing slowly but appear to be healthy, so leaving them on site is acceptable. Serviceberry is also present. Acceptable regeneration includes all pines and aspen.</p> <p>[1/26/06 jb] #'s from 6/17/02, 275 t/a planted, 105 volunteered. Close FTP. Retention along river. Rd.12-07</p> <p>[2-22-08] JS: At review this stand did not have any cultural work prescribed, but comments clearly indicate jack pine should be planted after harvest. On this date I added cult codes 111 so the coding matches the comment. A new FTP (C41-1354) has been created to accomplish this.</p> <p>[7-18-08] Stand is now under contract TS 41-024-07-01 Broken Branch Aspen. See also FTP C41-1354 (JP regeneration.) Residual BA: Red pine = 15, white pine = 1; total = 16 sq.ft/acre.</p> <p>[8-28-09] Sale is completed TCR dtd 8-24-09.</p> <p>[08/29/2011 JB] Received completion report for this FTP and Stand for trenching on about 56 acres as a whole. Needs to be planted. Sale is completed TCR dtd 8-24-09. Stand planted in to jack pine in spring of 2012 regeneration check scheduled for 2013.(rh10/1/12) (2013 1st year check results this stand was not treated.)</p> <p>(6-24-15) Trench & plant jp asap.</p>
38	622 - Lowland Shrub	27.8	No	tag alder plus wetland grasses and scattered trees on boggy ground. Dries out during extended dry spells in spring & summer.
39	330 - Low-Density Trees	2.7	No	HCVA - Fox River Management Plan Burned in 1987 - now mostly open with scattered pockets of jack pine and aspen regeneration.
42	310 - Herbaceous Openland	1.5	No	Open grassland with scattered trees.
45	6224 - Treed Bog	3.6	No	This stand is a lower, wetter swale featuring scattered trees and various lowland shrubs & grasses.
46	310 - Herbaceous Openland	1.2	No	Grassy area w/scattered trees.
50	629 - Mixed non-forested wetland	1.1	No	Wet grass, low shrubs and scattered slow-growing conifers. A few of these have reached merchantable size but the site index appears to be too low for commercial timber management. This area appears to be slowly filling in with trees but may be too wet for commercial timber management.
51	310 - Herbaceous Openland	1.9	No	HCVA - Fox River Management Plan Open area featuring scattered trees, brush, ferns, lichens etc. along the banks of the Little Fox River.
54	330 - Low-Density Trees	6.1	No	Semi-open, low density trees, brush and grassland. Retention area when TS 24-07 Broken Branch Aspen was cut.



Stand	Cover Type	Acres	Managed Site	General Comments:
56	330 - Low-Density Trees	7.6	No	Semi-open grassland and scattered clumps of red pine etc. - retention area when TS 24-07 Broken Branch Aspen was cut.
57	330 - Low-Density Trees	4.8	No	Open stand with scattered trees.
58	62259 - Bog (OI)	2.0	No	Boggy area with low shrubs and a few scattered conifers
59	31029 - Grass (OI)	6.3	No	Open area featuring scattered trees, brush, ferns, lichens etc.
64	760 - Non-stocked Forest	19.6	No	TS was finished in 2009.
65	310 - Herbaceous Openland	7.5	No	Open area featuring scattered trees, brush, ferns, lichens etc.
70	31029 - Grass (OI)	2.5	No	Open area featuring scattered trees, brush, ferns, lichens etc.
73	310 - Herbaceous Openland	1.2	No	HCVA - Fox River Management Plan Burned in 1987 - open grassy area along the banks of the Little Fox River.
75	310 - Herbaceous Openland	3.9	No	Open grassland with scattered trees & brush.
76	629 - Mixed non-forested wetland	4.7	No	Non-forested lowland surrounding a pond. Vegetation includes brush and emergent spp.
85	629 - Mixed non-forested wetland	1.3	No	Wet grass, low shrubs and scattered slow-growing spruce. A few of these have reached merchantable size but the site index appears to be too low for commercial timber management.
86	310 - Herbaceous Openland	1.8	No	HCVA - Fox River Management Plan Open area featuring scattered trees, brush, ferns, lichens etc. along the banks of the Little Fox River.
87	310 - Herbaceous Openland	2.5	No	HCVA - Fox River Management Plan Open area featuring scattered trees, brush, ferns, lichens etc. along the banks of the Little Fox River.
88	330 - Low-Density Trees	2.3	No	HCVA - Fox River Management Plan Open area featuring scattered trees, brush, ferns, lichens etc. along the banks of the Little Fox River. There are more trees along the riverbank here than in other grassy areas nearby.
90	500 - Water	7.9	No	Pond
91	330 - Low-Density Trees	6.4	No	Semi-open area with scattered trees.



Stand	Cover Type	Acres	Managed Site	General Comments:
95	330 - Low-Density Trees	4.6		Sparse timber - last entry this was included as part of large R7 stand where partial cutting took place, but natural regeneration has failed.
100	330 - Low-Density Trees	0.0	No	HCVA - Fox River Management Plan Burned in 1987 - now mostly open with scattered pockets of jack pine and aspen regeneration.