



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41113

Entry Year 2020

Acreage: 2,720

County Schoolcraft

Management Area: Fox River Complex

Revision Date: 2018-07-16

Stand Examiner: Sheila Clark

Legal Description:

T46N, R13W sections 19-21, 28, 29, 32, 33

Identified Planning Goals:

To manage the compartment in accordance with the principles of sustainable forest eco-system management.

Soil and topography:

The majority of the compartment is level terrain with Carbondale-Lupton-Tawas Mucks and Dawson, Greenwood and Loxley Peats. The southern portion has steep ridges with Rosusseau, Wallace and other sands.

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

The town of Seney is within the compartment. There is private land to the east, and state owned land surrounding the rest of the compartment.

Unique Natural Features:

Fox River

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

HCVA – Natural River, Fox River. ERA - Poor Conifer Swamp, Rich Tamarack Swamp and Patterened Fen.

Watershed and Fisheries Considerations:

The western region of this compartment borders the Fox River. The Fox River is a designated trout stream less than 50' width. A 300' buffer is recommended for the Fox River in riparian areas susceptible to Aspen regeneration (specifically stand 41113). For areas not susceptible to Aspen regeneration, 200' buffers are recommended to protect these areas in accordance with Best Management Practices and the Fox River Natural River System Management Plan.

The northwestern region of this compartment contains Grondon Creek. Grondon Creek is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for Grondon Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices (specifically stand 23).

The northeast region of this compartment contains the East Branch of the Fox River. The East Branch of the Fox River is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for the East Branch of the Fox River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 200' buffers are recommended to protect these areas in accordance with Best Management Practices and the Fox River Natural Rivers System Management Plan.

Wildlife Habitat Considerations:

This compartment essentially wraps around the village of Seney. State lands lying immediately North, South, East, and Northwest of Seney are contained within this compartment. The Fox River forms the western boundary. A significant portion of this compartment has been designated as potential old growth. The Fox River is designated as a wild and scenic river, as well as a natural river. Wildlife objectives include maintaining lowland brush and mature lowland conifer forest habitat through old growth designation, maintaining the riverine and floodplain habitat by providing buffer zones along the Fox river, and providing young lowland conifer habitat and early successional young conifer habitat within four stands.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located less than two miles to the north, but sand & gravel potential within the compartment

appears to be limited. Much of the compartment is covered by wetlands. There is no known metallic mineral potential in this area, and there is no history of mineral leasing. There is no commercial oil and gas production in the UP. The state does not own all of the mineral rights within the compartment. Private mineral rights owners must be allowed reasonable access to the land should they choose to explore and/or develop the minerals.

Vehicle Access:

The majority of the compartment is without roads.

Survey Needs:

None

Recreational Facilities and Opportunities:

The snowmobile trail runs north/south through the compartment. The area is also used for fishing and hunting.

Fire Protection:

Most of this compartment lies within the Fox River Zone Dispatch Area. Access to much of this area is virtually impossible with wheeled equipment. Most fires in this area would need to be accessed with low ground pressure tracked equipment. Although there are few fires starts in this compartment, the potential for large fire is significant mainly due to the lack of access.

There are a lot of dead standing and down tamarack.

Additional Compartment Information:

The following reports from the Inventory are attached:

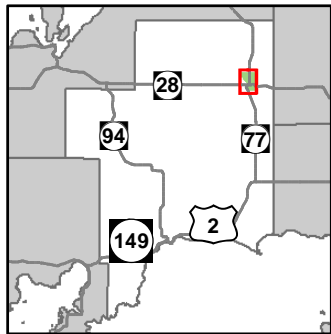
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

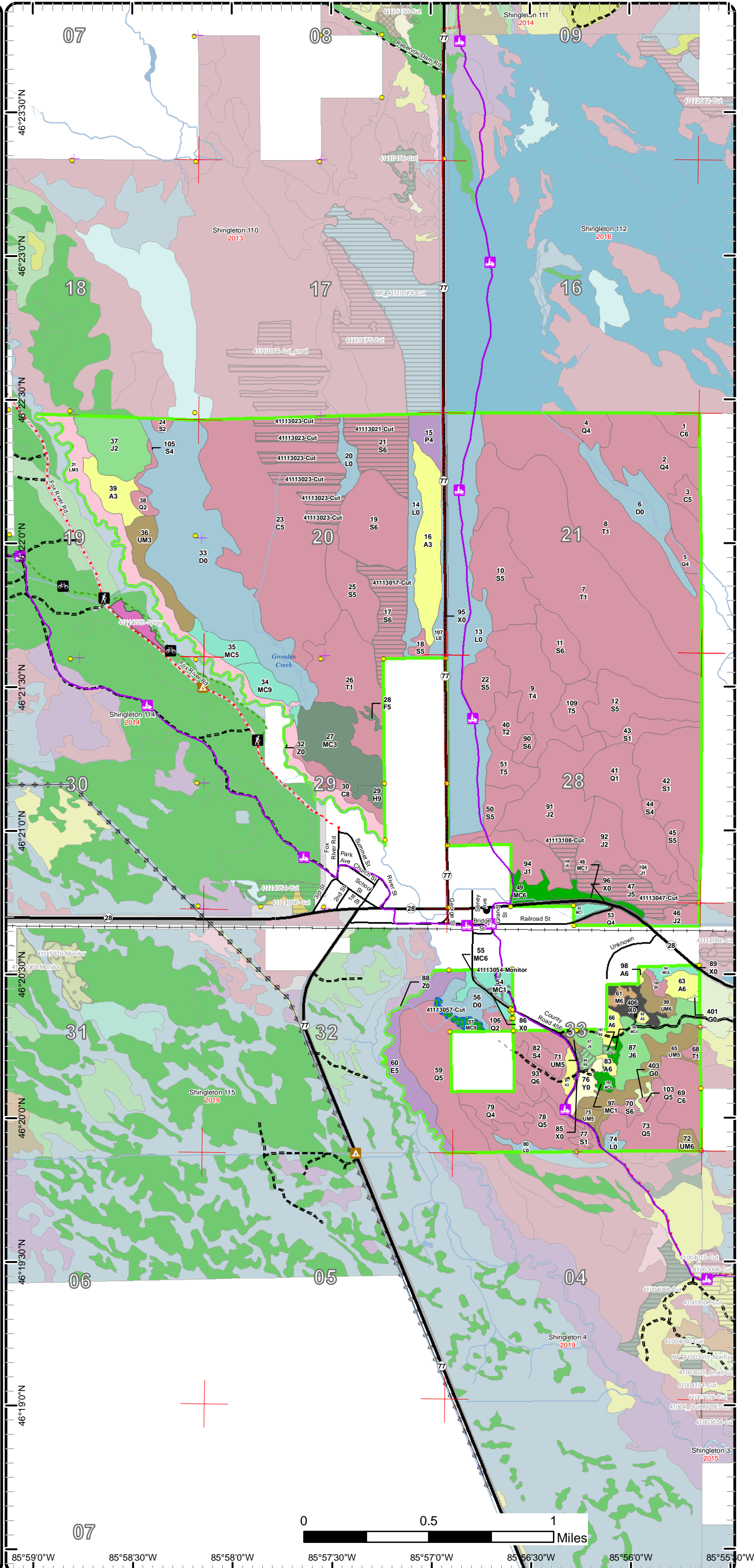
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 113
 T46N,R13W, Sec: 19-21, 28, 29, 32, 33
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Fox River Complex
 YOE: 2020
 Acres: 2,720 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 12/17/2018
 Map Phase: Post Review

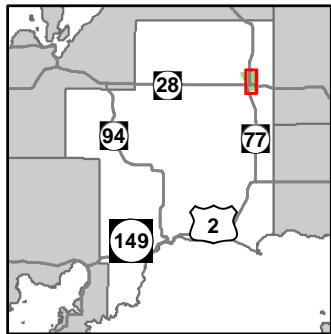


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
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- Perennial River
- Lakes and Rivers All
- ▲ Campground
- City
- ⚡ Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil
- Lakes

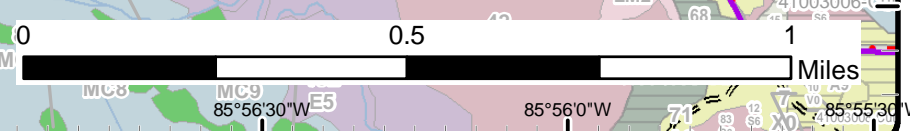
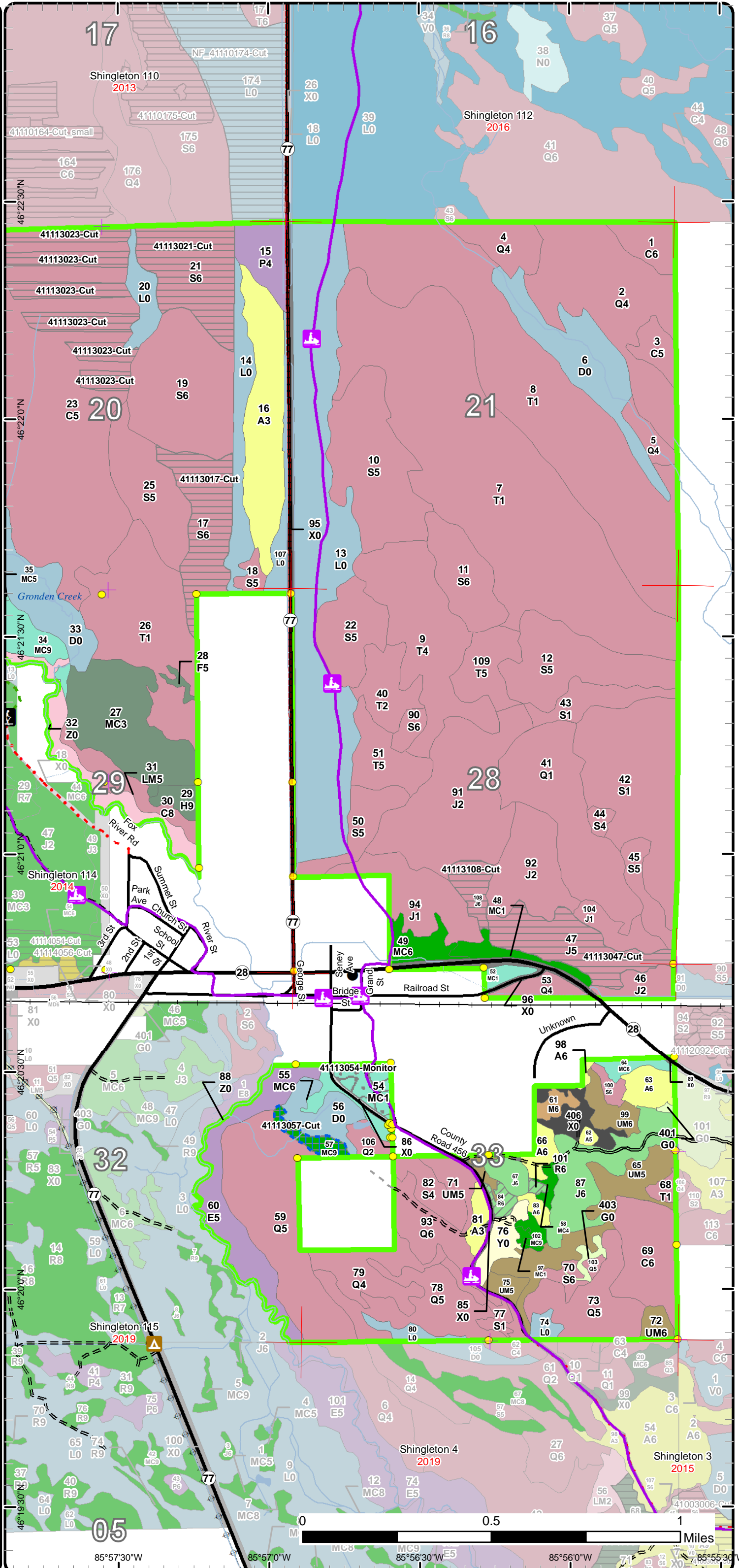


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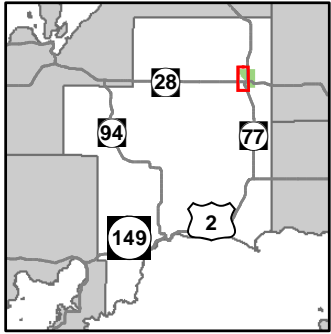


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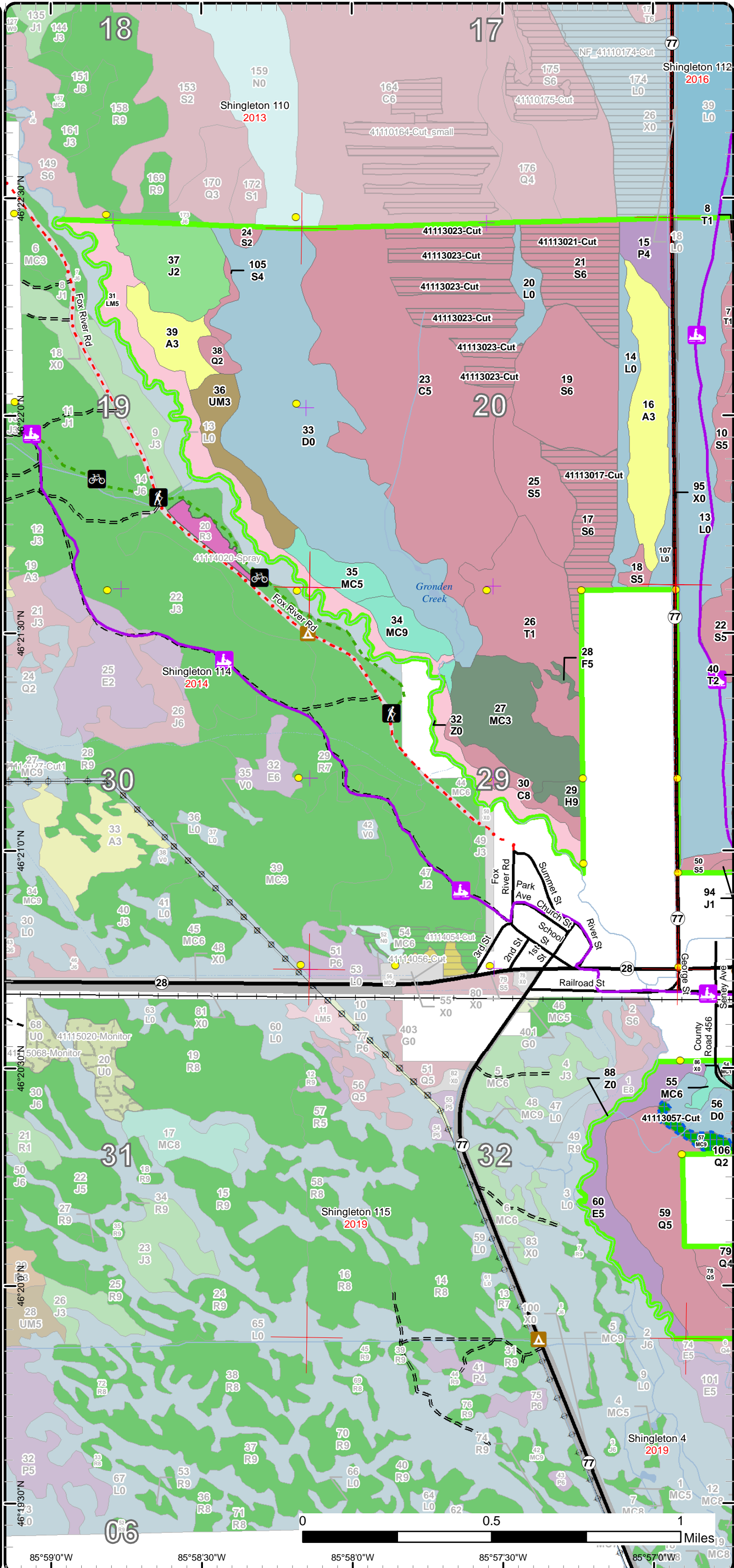


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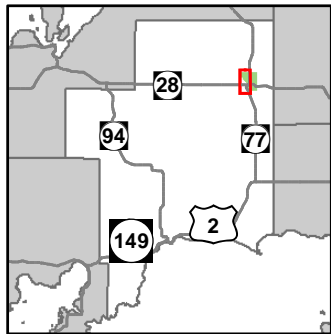
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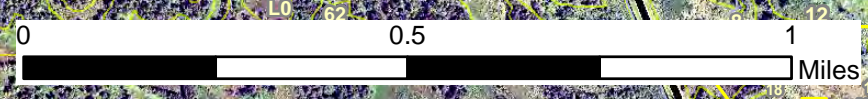
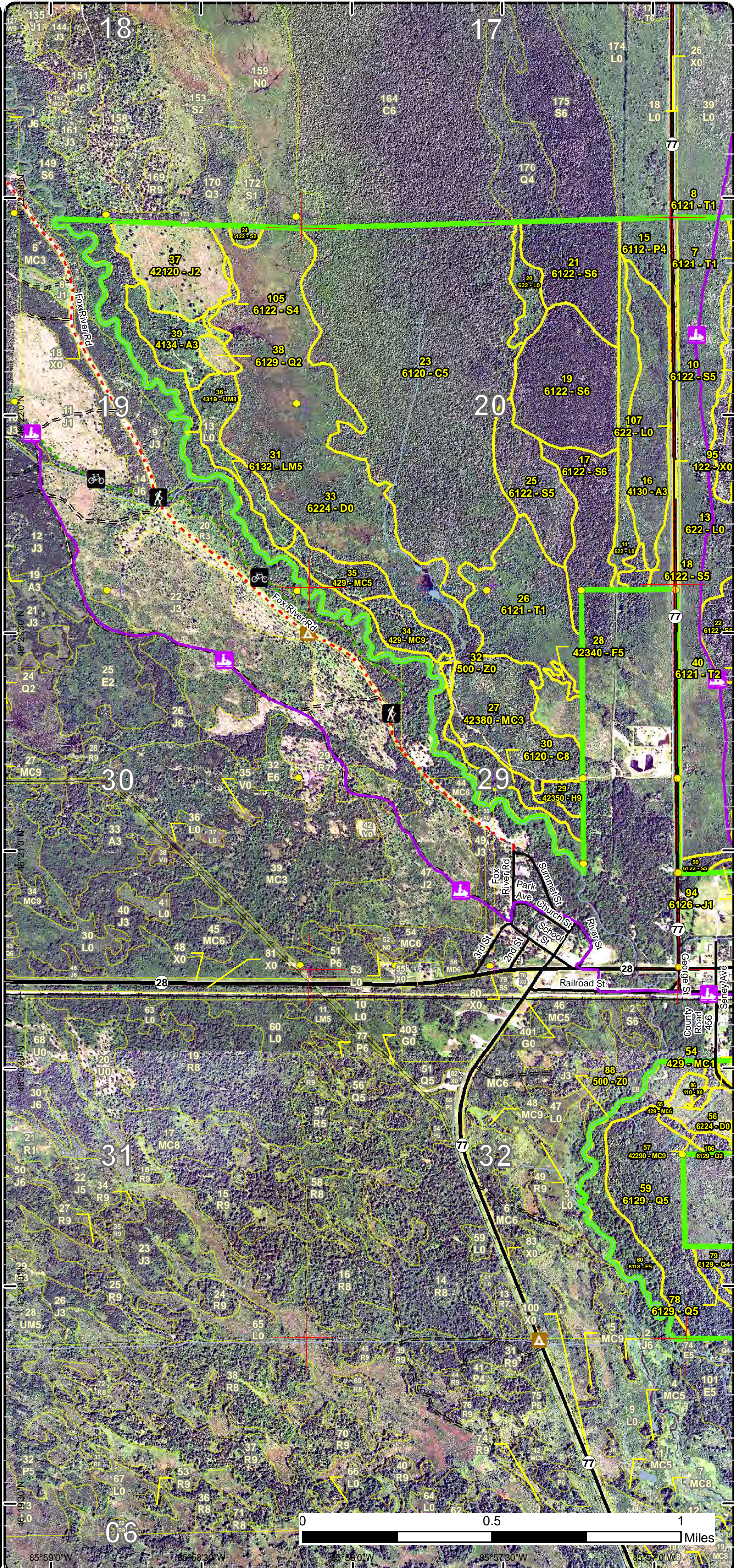
85°59'0"W 85°58'30"W 85°58'0"W 85°57'30"W 85°57'0"W

Stand Boundary Map

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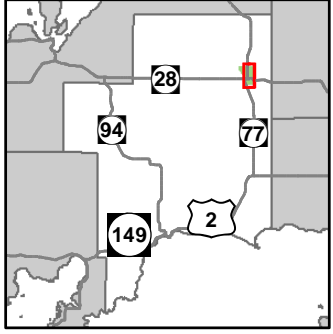
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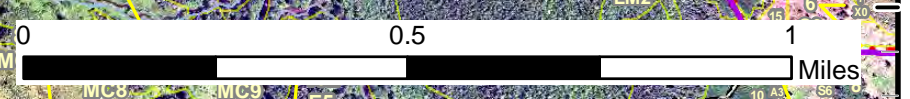
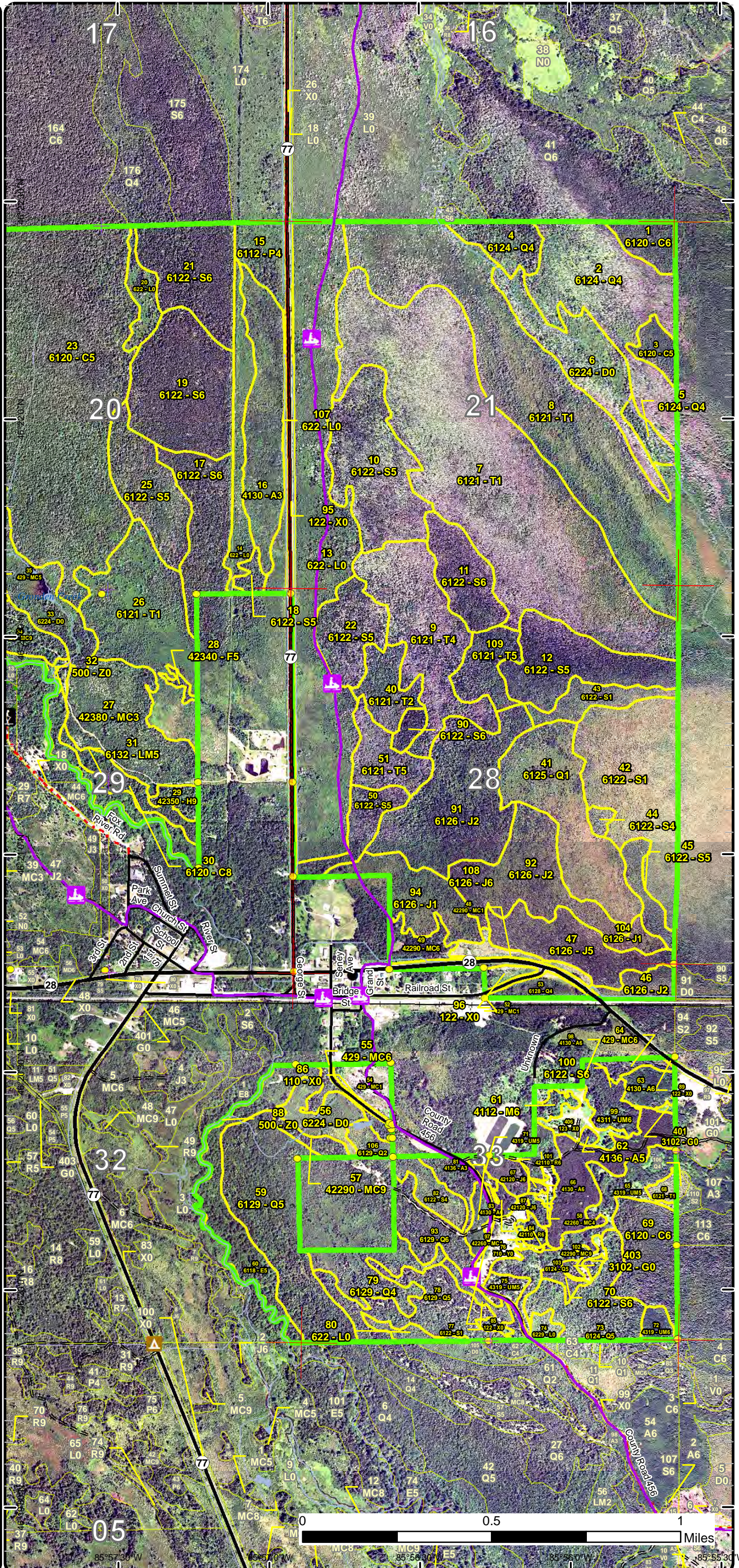
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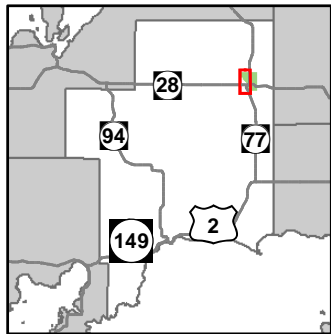
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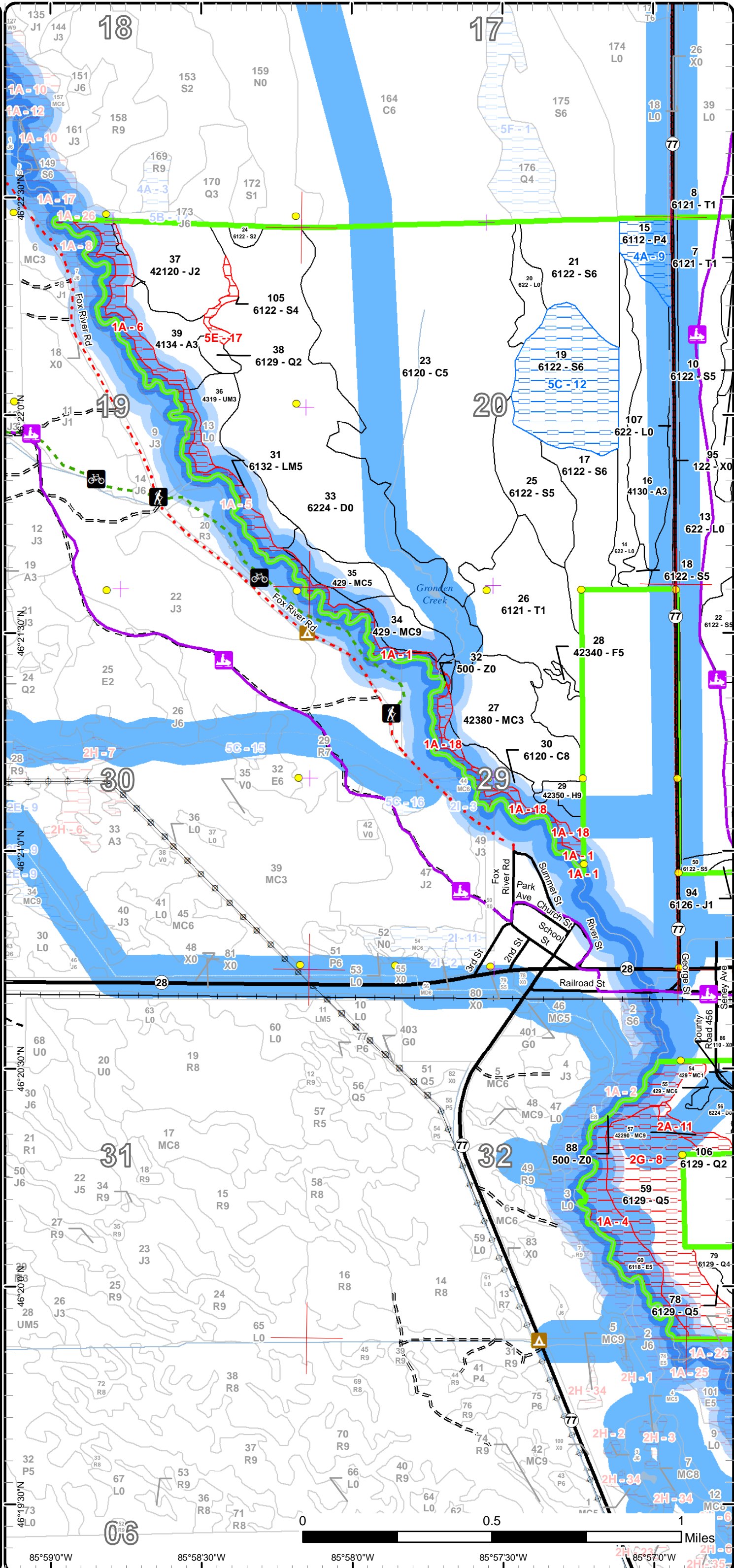
85°57'30" W 85°56'30" W 85°55'30" W

Special Conservation Areas & Site Conditions Map

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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



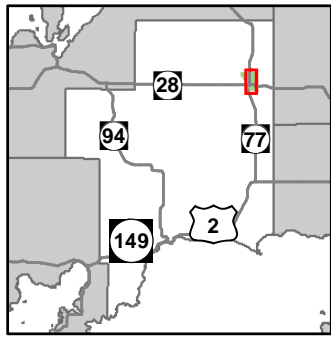
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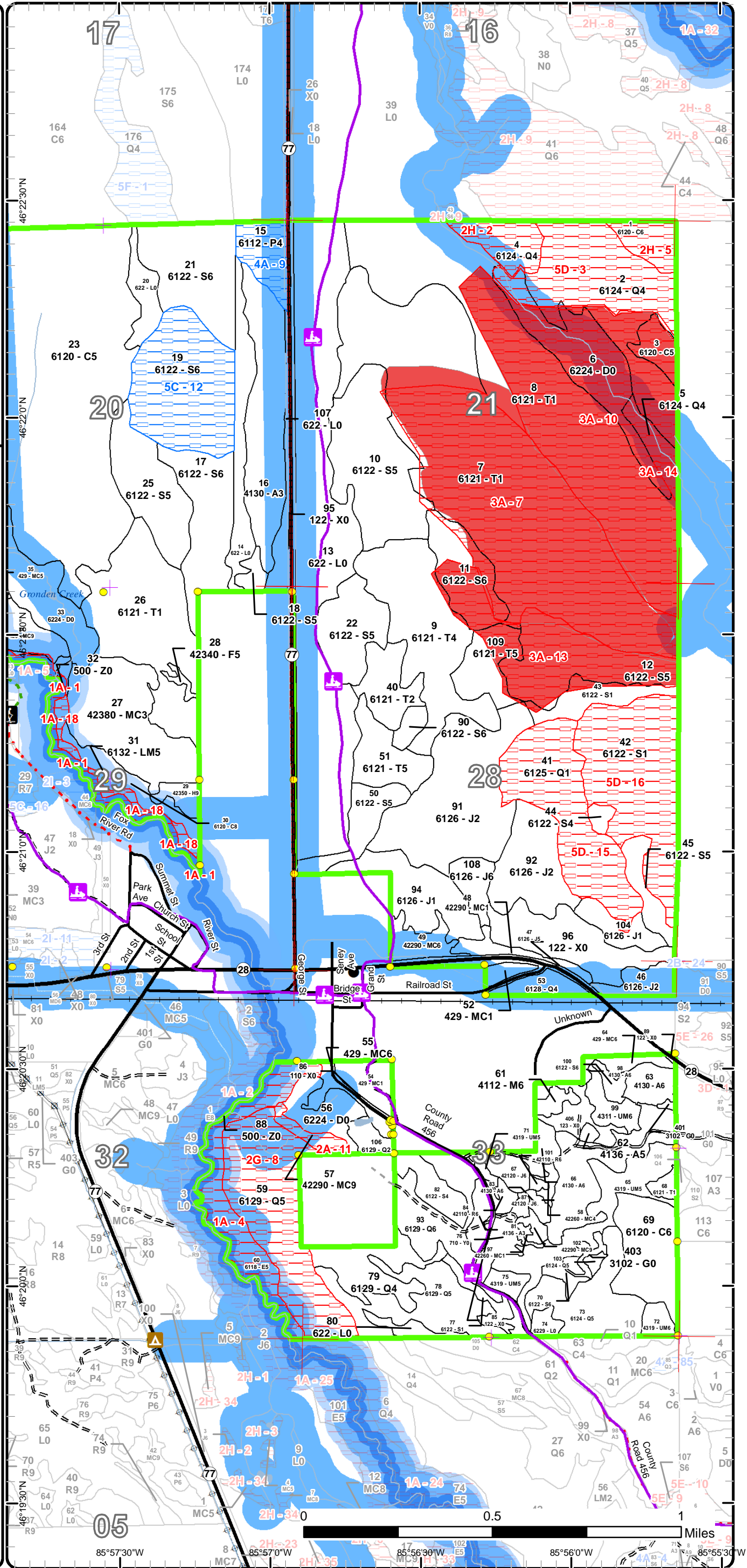
46°20'30"N 46°20'00"N 46°19'30"N

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- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	67	0	15	1	2	0	0	0	0	0	0	0	0	0	0	0	85
Cedar	0	0	0	0	0	0	0	0	8	28	276	0	0	0	0	0	0	0	312
Hemlock	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	36	0	10	93	36	73	0	0	0	0	0	0	0	0	0	0	0	248
Lowland Aspen/Balsam Poplar	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Conifers	0	4	0	122	5	21	7	21	148	0	0	0	0	0	0	0	0	0	328
Lowland Deciduous	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	32
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	60
Lowland Shrub	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181
Lowland Spruce/Fir	0	0	0	13	75	10	44	43	130	127	0	0	0	0	0	0	0	0	439
Natural Mixed Pines	0	7	0	0	10	0	3	0	5	0	0	0	0	0	0	0	0	2	26
Northern Hardwood	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Sand, Soil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Tamarack	0	0	3	232	18	0	285	0	0	0	0	0	0	0	0	0	0	0	538
Treed Bog	218	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	218
Upland Conifers	0	13	0	47	0	0	14	0	10	0	0	0	0	0	0	0	0	14	98
Upland Mixed Forest	0	0	21	0	40	6	0	0	0	0	0	0	0	0	0	0	0	0	67
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Urban	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	461	60	91	424	256	96	428	64	333	157	276	65	0	0	0	0	0	16	2721



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 113
Total Compartment Acres: 2,720

Commercial Harvest - 156
 Harvests with Site Condition - 5
 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
Cedar	43	0	0	0	0	0	0	0	0	43
Jack Pine	39	0	0	0	0	0	0	0	0	39
Lowland Spruce/Fir	71	0	0	0	0	0	0	0	0	71
Natural Mixed Pines	0	0	0	5	0	0	0	0	0	5
Red Pine	0	0	0	0	0	4	0	0	0	4
Total	153	0	0	5	0	4	0	0	0	162

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	162	0	0	0	0	10	0	0	0	171
Next Step	0	39	0	0	0	163	0	0	0	202
Total	162	39	0	0	0	173	0	0	0	373



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
17	41113017-Cut	32.6	6122 - Black Spruce	Poletimber Well	81	111- 140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Stand was previously set up as Spruce Fever 41-08-10-01. No cutting oak, cedar or hemlock. Change specs to allow for cutting aspen. No
Specs: chipping. Windrow slash for snowshoe hare.

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

Acceptable Any current species
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

21	41113021-Cut	38.6	6122 - Black Spruce	Poletimber Well	84	171- 200	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Specs: chipping. Windrow slash for snowshoe hare.

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

Acceptable Any current species.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

23	41113023-Cut	42.5	6120 - Lowland Cedar	Poletimber Medium	92	81-110	Harvest	Clearcut	6120 - Lowland Cedar	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Create clear cut strips roughly 3 chains in width.
Specs:

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

Acceptable Any current species.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

47	41113047-Cut	30.5	6126 - Lowland Jack Pine	Poletimber Medium	49	111- 140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest all trees. Leave retention on east side.
Specs:

Next Step SitePrep, Scarification; Monitoring, Artificial Regen(1yr)
Treatments:

Acceptable Any current species.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2024



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
54	41113054-Monitor	9.5	429 - Mixed Upland Conifers	Sapling Poor	3	Immature	Monitoring	Natural Regen (Re-Inventory)	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Any species currently on site.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
57	41113057-Cut	5.3	42290 - Natural Mixed Pine	Sawtimber Well	73	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Denied Access								
<u>Prescription</u> Stand will be regenerated naturally so leave red and white pine as seed source. Retention will be left across the creek.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any current species is acceptable.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
84	41113084-Cut	2.8	42110 - Planted Red Pine	Poletimber Well	40	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Third row thinning. Proposing starting a year earlier. Harvest with compartment 4.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/24/2018											
101	41113101-Cut	0.9	42110 - Planted Red Pine	Poletimber Well	40	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Third row thinning. Harvest with compartment 4.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/24/2018											



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
108	41113108-Cut	8.3	6126 - Lowland Jack Pine	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Harvest all trees. Leave retention.

Specs:

Next Step SitePrep, Scarification; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Any current species

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2024

**Total Treatment
Acreage Proposed: 171.0**

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 113
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				4A	5C	1A	2A	2G	2H	3A	5D	5E	
85	85	0		0	Aspen										
311	293	0		19	Cedar						11	8			
5	5	0		0	Hemlock										
3	3	0		0	Herbaceous Openland										
249	248	0		1	Jack Pine			1				0			
14	0	14		0	Lowland Aspen/Balsam Poplar	14									
328	125	0		202	Lowland Conifers					61	14	28	99		
32	0	0		32	Lowland Deciduous			32							
60	4	0		56	Lowland Mixed Forest			56							
181	181	0		0	Lowland Shrub										
440	256	56		129	Lowland Spruce/Fir		56					59	66	3	
27	22	0		5	Natural Mixed Pines				5						
4	4	0		0	Northern Hardwood										
4	4	0		0	Red Pine										
9	9	0		0	Sand, Soil										
537	273	0		264	Tamarack							264	0		
218	182	0		36	Treed Bog							32	4		
98	97	0		1	Upland Conifers			1							
67	67	0		0	Upland Mixed Forest										
2	2	0		0	Upland Spruce/Fir										
39	39	0		0	Urban										
11	11	0		0	Water			0							
2,721	1,907	70		744	Total Forested Acres	14	56	89	5	61	25	391	169	3	
	70%	3%		27%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	1A: Federal/State/Local Law	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River - natural river 100' zone							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 113
Year of Entry: 2020

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5D: Unproductive Forest Land	49	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	1A: Federal/State/Local Law	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River Natural River							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	1A: Federal/State/Local Law	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Majority of the stand is within the Fox River - natural river management zone							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	159	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of Rich Tamarack Swamp and Poor Conifer Swamp ERAs.							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 113

Sheila Clark : Examiner

Year of Entry: 2020

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	61	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Stand is low, lots of drains and low volume.</p>							
9	Available	4A: No Markets Available for these Forest Products	14	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
10	Unavailable	3A: Conservation Values incompatible with harvest at this time	170	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Part of Patterned Fen ERA.</p>							
11	Unavailable	2A: Adjacent landowner denied access	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Have not been able to cross private landowner to the south in the past.</p>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	56	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
13	Unavailable	3A: Conservation Values incompatible with harvest at this time	60	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: ERA</p>							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 113
Year of Entry: 2020

14	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5D: Unproductive Forest Land	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5D: Unproductive Forest Land	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	1A: Federal/State/Local Law	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Majority of stand is in Fox River - natural river management 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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Well	10.8	90	51-80	OPIC - FMD: E. Branch Fox River Slough. Stand extends into C112 s.122. 98/2=b.spruce, tamarack soil=Carbondale, Lupton & Tawas soils 2018 - Stand is low ground and low productivity.
2	6124 - Lowland Spruce- Fir	Poletimber Poor	67.9	20	1-50	OPIC - FMD: E. Branch Fox River Slough. Low, wet ground. Soil=Carbondale, Lupton & Tawas soils 2018 - Lots of dead tamarack. The ground is low and has low productivity and lots of tag alder.
3	6120 - Lowland Cedar	Poletimber Medium	8.0	70	51-80	OPIC - FMD: Part of Patterned Fen ERA., E. Branch Fox River Slough. Stunted b.spruce and tamarack. Soil=Carbondale, Lupton & Tawas soils
4	6124 - Lowland Spruce- Fir	Poletimber Poor	14.5	63	1-50	OPIC - FMD: SCA - Potential Old Growth, E. Branch Fox River Slough. Soil=Carbondale, Lupton & Tawas soils. 2018 - Stand is along a creek and is not very productive, very low. Stand was reviewed and no longer fits into the potential old growth category.
5	6124 - Lowland Spruce- Fir	Poletimber Poor	6.3	63	51-80	OPIC - FMD: Part of Patterned Fen ERA., E. Branch Fox River Slough. Tall brush near edges. A few scattered trees (tamarack, b.spruce). Soil=Carbondale, Lupton & Tawas soils. 2018 - Low productivity.
7	6121 - Tamarack	Sapling Poor	210.4	53	1-50	OPIC - FMD: SCA-Potential Old Growth. Mostly tamarack, with very few other tree species (cedar, b.spruce, w.pine). Many trees 2-4" DBH. Low, wet ground with tall shrubs. Soil=Carbondale, Lupton & Tawas soils 2018 - Large tamarack are dead with tops snapping off. Not a lot of regeneration. Fire hazard. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.
8	6121 - Tamarack	Sapling Poor	152.1	20	1-50	OPIC - FMD: SCA - Potential Old Growth, E. Branch Fox River Slough. Tall brush around the edges. A few scattered trees (b.spruce, tamarack). Soil=Carbondale, Lupton & Tawas soils. 2018 - Stand is converting from a V0 to a forested stand. Very low productivity. This stand is different from stand 7 in that it does not have dead tamarack in the over-story. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.
9	6121 - Tamarack	Poletimber Poor	57.1	53	1-50	OPIC - FMD: SCA - Potential Old Growth. Tamarack with b. spruce; most trees are 1-4" DBH. Med-Tall shrubs with leatherleaf underneath. Soil=Dawson, Greenwood & Loxley soils and Carbondale, Lupton & Tawas soils 2018 - Tamarack is half dead. Not a lot of regeneration, but slowly starting to fill in. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
10	6122 - Black Spruce	Poletimber Medium	52.5	88	81-110	<p>OPIC - FMD: SCA-Potential Old Growth. Adjacent to the snowmobile trail. Mainly tamarack with some b.spruce. Regeneration is a mixture of spruce and tamarack. Low, wet ground with med-tall shrubs. Soil=Carbondale, Lupton & Tawas soils</p> <p>2018 - Older tamarack is dead, younger tamarack is still alive. Trees are small with low volume, but some present. Could cut or leave. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>
11	6122 - Black Spruce	Poletimber Well	23.8	70	111-140	<p>OPIC - FMD: SCA-Potential Old Growth. Mix of spruce and tamarack. Many trees are 1-4" DBH. Low, wet ground. Soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - Most of the pole sized tamarack is dead, some saplings are alive. Can cut or leave. Trees are small 2-3 sticks tall. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>
12	6122 - Black Spruce	Poletimber Medium	39.7	70	51-80	<p>OPIC - FMD: SCA-Potential Old Growth. Dense regeneration 2-4" DBH, spruce with tamarack. Tall shrubs. Soil=Carbondale, Lupton & Tawas soils, and Dawson, Greenwood & Loxley soils</p> <p>2018 - Low productivity, will never harvest. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>
15	6112 - Lowland Aspen	Poletimber Poor	14.3	48	51-80	<p>OPIC - FMD: West side of M-77. Low, wet ground with tall shrubs. Some areas with poor quality aspen. Soil=Carbondale, Lupton and Tawas soils</p> <p>2018 - Stand is starting to fill in and is more than 25% stocked.</p>
16	4130 - Aspen	Sapling Well	43.6	14	Immature	<p>OPIC - FMD: [4/14/03] Under contract TS#012-00 M-77 Spruce. [5/11/04] Sale is now completed. Schedule regen survey for 2008. [1/08 - 2010 YOE inventory] Aspen with very few spruce and b.fir. Along M-77. Previously a spruce stand with some aspen that naturally converted to aspen after being cut. Soil=Carbondale, Lupton & Tawas soils</p> <p>2018 - For being on lower ground that stand is regenerating well. On the higher ground aspen is well stocked, on lower ground more conifer and tag alder. No activity.</p>
17	6122 - Black Spruce	Poletimber Well	32.6	81	111-140	<p>OPIC - FMD: Clearcut all trees. Retention will be met by leaving small "no cut" areas. Also, leave all aspen. Spruce is the preferred management species, but regeneration including a combination of species presently on site will be acceptable. Soil=Carbondale, Lupton & Tawas soils. [10-12-11] Stand is now under contract 41-008-10-01 Spruce Fever. Residual BA = 3 sq.ft./acre of mixed aspen.</p> <p>(3/25/15) Sale was never done, returned uncut.</p> <p>2018 - Some of the tamarack is dead, with tamarack being heavier to the south. Stand should be harvested.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6122 - Black Spruce	Poletimber Medium	3.8	79	1-50	OPIC - FMD: Small area with lower BA and smaller trees that was left when adjacent stand was cut last entry. Soil=Carbondale, Lupton & Tawas soils 2018 - No activity, stand looks good - not well stocked.
19	6122 - Black Spruce	Poletimber Well	55.8	79	171-200	OPIC - FMD: Nice spruce with very few other tree species. Soil=Carbondale, Lupton & Tawas soils. 2018 - Similar to stand 21, could cut, but recommend leave and then harvest when surrounding stands have fully regenerated. Looks healthy.
21	6122 - Black Spruce	Poletimber Well	38.6	84	171-200	OPIC - FMD: Spruce with scattered large diameter aspen. Med-tall brush. Some sparse areas (BA ranges 50-120). Clearcut using reserve areas to meet retention. A combination of spruce and aspen will be acceptable regeneration. Soil=Carbondale, Lupton & Tawas soils [10-12-11] Stand is now under contract 41-008-10-01 Spruce Fever. No residual BA. 2018 - Stand was never cut. Will setup again along with stand 17.
22	6122 - Black Spruce	Poletimber Medium	23.8	60	81-110	OPIC - FMD: SCA - Potential Old Growth. Low, wet ground with tall shrubs. Near the snowmobile trail. Soil=Carbondale, Lupton & Tawas soils 2018 - Most of the tamarack is dead and starting to fill in with black spruce. Some young tamarack is still alive. The southern half is not harvestable. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.
23	6120 - Lowland Cedar	Poletimber Medium	252.5	92	81-110	OPIC - FMD: Cedar with spruce, tamarack, b.fir and aspen. Cedar was selectively cut out of portions of the stand in the 1970's. These areas did not regenerate, and grew in with shrubs. Low, wet ground. Soil=Carbondale, Lupton & Tawas soils. 2018 - Part of stand could be cut. Looks like better timber to the north. Could maybe join with harvest to the north in compartment 110. However, according to notes the potential for aspen to come in is great. Not sure what to do.
24	6122 - Black Spruce	Sapling Medium	2.5	24	Immature	OPIC - FMD: Mainly b.spruce with b.fir, w.pine and j.pine. Some residual trees (<10BA). Soil=Spot-Finch Complex 0-3% slopes.
25	6122 - Black Spruce	Poletimber Medium	31.1	53	81-110	OPIC - FMD: Low, wet ground. Regeneration species are tamarack, b.spruce, and r.maple. Soil=Carbondale, Lupton & Tawas soils 2018 - Most of the larger tamarack is dead due to sawfly. Stand is filling in with black spruce. Not heavily stocked. No activity.
26	6121 - Tamarack	Sapling Poor	63.7	20	1-50	OPIC - FMD: Low, wet ground. Tall shrubs with leatherleaf underneath. A few scattered suppressed trees (b.spruce, tamarack, cedar, w.pine). Soil=Carbondale, Lupton & Tawas soils 2018 - Stand is filling in, there are still areas of tag alder, but hard to delineate.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	47.1	22	81-110	OPIC - FMD: Contains a mix of species including: b.fir, aspen, b.spruce, w.pine, r.maple, p.birch and cedar. Scattered large w.pine and hemlock. A small part of the stand is within the HCVA - Fox River, Natural River. Soil=Spot-Finch Complex, 0-3% slopes.2017 - Stand looks healthy. Regeneration is over 10 feet tall.
28	42340 - Upland Spruce/Fir	Poletimber Medium	1.7	80	51-80	OPIC - FMD: Narrow ridge of pine within a large low area. 98/2=b.fir, b.spruce, hemlock soil=Carbondale, Lupton & Tawas soils 2018 - Large quaking aspen is dying, stand is small and difficult to access, no activity. Good rabbit habitat.
29	42350 - Upland Hemlock	Sawtimber Well	4.9	103	81-110	OPIC - FMD: Thinned in 1996. Regeneration consists of b.fir, hemlock and b.spruce. Soil=Spot-Finch Complex, 0-3% slopes. 2018 - Stand is healthy, some regeneration is coming in. The southern end of the stand is lower and part of the transition to the Fox River.
30	6120 - Lowland Cedar	Sawtimber Medium	12.1	90	51-80	OPIC - FMD: HCVA - Natural River, Fox River. Low, wet ground. Soil=Spot-Finch Complex, 0-3% slopes 2018 - This is a small transition strip going to Fox River. No activity, stand is healthy.
31	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	59.6	103	51-80	OPIC - FMD: HCVA - Natural River, Fox River. Low, wet ground with tall shrubs. The north part of this stand contains a narrow fringe of jack pine within 200" of the river. This jack pine is part of the retention for s.37. Soil=AuSable, Deford, and Tawas Mucks, Frequently flooded.2018-This stand is a buffer along the Fox River. Stand is starting to fill in, but still very low and dominated by tag alder. Retained jack pine is healthy.
34	429 - Mixed Upland Conifers	Sawtimber Well	14.3	68	51-80	OPIC - FMD: HCVA - Natural River, Fox River; portions of this stand are within this designation. Large diameter white pine throughout, with a mix of smaller trees. Contains drainages flowing into the Fox River. Regeneration is a mix of b.fir, w.pine, b.spruce, aspen, r.maple and cherry. 98/2=w.pine and b.spruce soil=Spot-Finch Complex, 0-3% slopes 2018 - Not much change, stand is healthy. No activity.
35	429 - Mixed Upland Conifers	Poletimber Medium	14.1	58	51-80	OPIC - FMD: HCVA - Natural River, Fox River; portions of this stand are within this designation. Contains drainages flowing into the Fox River. Thinned last entry. 98/2=b.spruce and w.pine soil=Spot-Finch Complex, 0-3% slopes 2018 - Stand is healthy. There is not enough volume to warrant a harvest at this time.
36	4319 - Mixed Upland Forest	Sapling Well	21.2	19	Immature	OPIC - FMD: HCVA - Natural River, Fox River; part of this stand falls within this designation. Cut under TS# 078-97-01. A few scattered residual Cedar and White Pine (<10BA). Regeneration is a mix of b.fir, b.spruce, aspen, w.pine and r.maple. Contains drainages into the Fox River. Soil=Spot-Finch Complex, 0-3% slopes 2018 - Stand is healthy and regeneration is well-stocked.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	42120 - Planted Jack Pine	Sapling Medium	36.4	6	Immature	<p>OPIC - FMD: Jack pine with some red pine, white pine, aspen and b.spruce. Cut all trees, except p.birch, oak and hemlock, and some scattered red and white pine for retention. Also, a small area of jack pine in adjacent stand 31 will be left as retention for this stand. Leave all trees within 200 feet of the Fox River (stand 31). Scarify after cutting. Jack Pine is the preferred regeneration species, but a mix of jack pine with red pine, white pine, aspen and b.spruce is acceptable. 98/2=white pine and b.spruce soil=Proper Sand, 0-6% slopes See FTP # C41-1477</p> <p>[11-10-11] Stand is now under contract 41-038-10-01 Fox River Jackn Spruce. Residual BA: w.pine = 4; red pine = 2; paper birch = 0.4 sq/ft/acre.</p> <p>[8-10-12] Sale is now closed/completed TCR dtd 6-29-12. Area was scarified by dnr in 2012 at a cpst of \$2946.00. Regen count in 2016.</p> <p>2018 - Stand looks good. Well-stocked and good survival. Some aspen competition, but overall successful regen. Free to grow. Planted and natural seedlings are doing good.</p>
38	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	4.2	6	Immature	<p>OPIC - FMD: Spruce with scattered other trees including: w.pine, red pine, jack pine, cedar and aspen. Cut all trees except those needed for retention. B.Spruce is the preferred regeneration species; but a combination of tree species currently on site is acceptable. 98/2=r.pine, cedar and b.fir soil=Spot-Finch Complex, 0-3% slopes; and Carbondale, Lupton & Tawas soils</p> <p>[11-10-11] Stand is now under contract 41-038-10-01 Fox River Jackn Spruce. Residual BA: Paper birch = 2; cedar/hemlock = 1.</p> <p>[8-10-12] Sale is now closed/completed TCR dtd 6-29-12.</p> <p>2018 - Stand is starting to regenerate and fill in. Seedlings are 1-4 feet.</p>
39	4134 - Aspen, Spruce/Fir	Sapling Well	18.5	19	Immature	<p>OPIC - FMD: Cut under TS# 78-97-01. Regeneration is aspen with other species including: b.fir, w.pine, b.spruce, j.pine, r.maple and r.pine. Scattered large white pine residual throughout. Soil=Proper Sand, 0-6% slopes</p> <p>2018- Stand is healthy and looks good. No activity.</p>
40	6121 - Tamarack	Sapling Medium	16.2	20	51-80	<p>OPIC - FMD: SCA - Potential old growth. Tamarack with some b.spruce, mainly 1-3" DBH. Soil=Carbondale, Lupton & Tawas soils</p> <p>2018 - Large tamarack is dead, younger saplings look better. Not a lot of regeneration. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>
41	6125 - Lowland Black Spruce, Jack Pine	Sapling Poor	53.9	20	51-80	<p>OPIC - FMD: SCA - Potential Old Growth. Bog with scattered trees - b.spruce, tamarack, j.pine. Soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - Stand was reviewed and is no longer in the Potential Old Growth category.</p>
42	6122 - Black Spruce	Sapling Poor	65.8	30	Immature	<p>OPIC - FMD: SCA - Potential Old Growth. Stunted spruce and tamarack. Soil=Dawson, Greenwood and Loxley soils</p> <p>2018 - Stand is un-merchantable and will never be productive. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	6122 - Black Spruce	Sapling Poor	13.2	50	81-110	<p>OPIC - FMD: SCA - Potential Old Growth. Bog area that has filled in with trees - spruce, tamarack, j.pine, cedar. Soil=Dawson, Greenwood & Loxley soils.</p> <p>2018 - Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>
44	6122 - Black Spruce	Poletimber Poor	2.6	83	1-50	<p>OPIC - FMD: SCA - Potential Old Growth. Slow growing jack pine within a large bog. Soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - Trees are starting to die and being replaced by black spruce. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>
45	6122 - Black Spruce	Poletimber Medium	9.6	48	51-80	<p>OPIC - FMD: Slow growing trees. Soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - Jack Pine is starting to die. Stand is converting to black spruce, not well stocked or productive. No activity.</p>
46	6126 - Lowland Jack Pine	Sapling Medium	8.3	32	Immature	<p>OPIC - FMD: Adjacent to RR tracks, near M-28. Jack pine with some spruce and tamarack. Soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - High water table, very wet and unproductive. No activity.</p>
47	6126 - Lowland Jack Pine	Poletimber Medium	30.6	49	111-140	<p>OPIC - FMD: Low, wet ground. Jack pine with some spruce. Some trees have 1 stick now. Soil=Dawson, Greenwood & Loxley soils</p> <p>2017 - Trees are one to three sticks tall. roughly 10 cords/acre. Trees are starting to die. Regeneration will be a challenge due to heavy moss and grass and high water table.</p>
48	42290 - Natural Mixed Pine	Sapling Poor	6.6	3	1-50	<p>OPIC - FMD: Narrow stand along M-28. Manage for red and white pine. Clearcut all trees except oak, hemlock, red and white pine. May cut red and white pine if access is a problem. Due to the small size of this stand, no other retention will be applied. Hand plant with red and white pine. 35/2=red and white pine soil=Dawson, Greenwood & Loxley soils.</p> <p>10/27/11 bb Stand is now on proposal, 21-10 Big Seney Lights Softwood. Stand is 7 acres, Unit 1. FTP C41-1511 submitted to plant red and white pine.</p> <p>[8-10-12] Stand is now under contract. TCR 6/12/15. CASP Crew planted 1000 RP in 3 rows along highway, and 4 oak trees.</p> <p>2018 - Stand is filling in adequately. Trees are approximately 2 feet tall. Fully stocked stand</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	42290 - Natural Mixed Pine	Poletimber Well	9.2	36	81-110	<p>OPIC - FMD: [2010 OI] The snowmobile trail goes through the stand. FTP still open. Soil=Dawson, Greenwood & Loxley soils. [9-8-06 JS] FTP# C41-1309 is being submitted to plant a 1 acre opening within this stand. The opening is the former site of a drain field that was used by several businesses in Seney and goes back to a land exchange that was not completed in the 1980s. Within the last few years, a land exchange was completed with the township and as part of that exchange, they reclaimed this site. Part of the reclamation agreement was they would restore the site and we would then plant the site to put it back into general forest. The township's contractor has completed their work and this FTP is being generated to complete the restoration. A change of OI is not being submitted, but this explanation (the stand sheet) is being attached to the FTP so signatories are aware of the planting that is occurring. No MNFI or archeological sites were discovered at the time of inventory. Because this is a disturbed site being restored, it's assumed no MNFI or archeological impacts exist.</p> <p>2018 - Red pine on the north end is mature, but the rest of the stand is younger. Not old enough for harvest. Wait at least one</p>
50	6122 - Black Spruce	Poletimber Medium	14.8	68	111-140	<p>OPIC - FMD: SCA - Potential Old Growth. The snowmobile trail goes through the corner of this stand. Soil=Carbondale, Lupton & Tawas soils.</p> <p>2018 - All tamarack is dead the spruce could be cut, there are lots of drains in the stand. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>
51	6121 - Tamarack	Poletimber Medium	17.7	38	51-80	<p>OPIC - FMD: SCA - Potential Old Growth. Tamarack with b.spruce, j.pine and w.pine. Many trees are 2-4"DBH. Soil=Carbondale, Lupton & Tawas soils, and Dawson, Greenwood & Loxley soils</p> <p>2018 - Tamarack is over half dead due to larch beetle. Some of small tamarack is still alive. Some black spruce, but not a lot of understory. Drains in the stand. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>
52	429 - Mixed Upland Conifers	Sapling Poor	3.2	3	Immature	<p>OPIC - FMD: Adjacent to M-28 on the east side of Seney. Low, wet ground. Regeneration is mainly b.spruce and b.fir. Clearcut and manage for an all aged mix of species. Due to the small size of this stand, retention will not be applied. Hand plant red and white pine. Survey request submitted on 2/21/08. Soil=Dawson, Greenwood & Loxley soils 10/27/11 bb Stand is now on proposal, 21-10 Big Seney Lights Softwood. Stand is 7 acres, Unit 1. FTP C41-1511 submitted to plant red and white pine. [8-10-12] Stand is now under contract. TCR 6/12/15. 2018 - Stand is filling in, drop planting prescription. Looks good.</p>
53	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	7.1	59	Unspecified	<p>OPIC - FMD: Adjacent to M-28 and the railroad. Low, wet ground with tall shrubs. Soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - Mostly low ground with tag alder and Labrador tea. Trees on higher ground. Lots of water. No activity.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	429 - Mixed Upland Conifers	Sapling Poor	9.5	3	Immature	<p>OPIC - FMD: The stand is adjacent to the Old Seney Rd, and the snowmobile trail goes through the stand. Per pre-review, have FO's widen the trail in conjunction with the cut. Lower ground has cedar and spruce; higher ground has pine. Borders private land on 2 sides: survey request was submitted on 2/21/08. Clearcut all trees except hemlock and oak, and any other trees needed for retention. Some red and white pine may be left for aesthetics.</p> <p>Soil=Spot-Finch Complex, 0-3% slopes [1-12-10] Deleted limiting factor (2H) and put stand on 2010 POW</p> <p>10/27/11 bb Stand is now on proposal, 21-10 Big Seney Lights Softwood. Stand is 10 acres, Unit 3. Residual BA white pine 13' and red pine 1'</p> <p>[8-10-12] Stand is now under contract. TCR 6/12/15</p> <p>2018 - Very poor conifer regeneration on ridges. Conifer less than 1 foot tall. Residual tamarack in swales. Consider free style planting on ridges to increase numbers.</p>
55	429 - Mixed Upland Conifers	Poletimber Well	5.3	74	81-110	<p>OPIC - FMD: Adjacent to the Old Seney Rd. Low, wet ground. Soil=AuSable, Deford & Tawas Mucks, Frequently flooded.</p> <p>2018 - No change.</p>
57	42290 - Natural Mixed Pine	Sawtimber Well	5.3	73	81-110	<p>OPIC - FMD: Ridge in marsh. 98/2=b.fir and cedar 99/2=aspen and p.birch soil=Kinross-AuGres-Rubicon complex, 0-15% slopes</p> <p>2018-Stand could be cut, the aspen is over-mature and some of the white pine are oversized. The other trees are healthy, and openings are starting to fill in.</p>
58	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	2.4	50	51-80	<p>OPIC - FMD: Scattered trees - aspen, w.pine, r.maple, spruce. Steep, hilly terrain. Habitat type=PVE Soil=Rousseau Fine Sand, 15-35% slopes</p> <p>2018 - Stand is filling in, no longer a true opening. There are trails through the stand.</p>
59	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	60.7	78	81-110	<p>OPIC - FMD: HCVA - Natural River, Fox River. Small creeks and drainages throughout the stand. Low, wet ground with a mix of conifers and hardwoods. A few areas of pine on higher ground. 99/2=p.birch, r.maple, aspen 35/1=w.pine, r.pine soil=Dawson, Greenwood & Loxley soils, and AuSable, Deford & Tawas mucks, frequently flooded</p> <p>2018 - Stand has lots of drains and creeks flowing through it. There are hemlock, white pine and cedar groves on the higher ground. The remaining trees are short and small diameter due to low ground. Will never cut.</p>
60	6118 - Lowland Deciduous with Cedar	Poletimber Medium	31.6	79	51-80	<p>OPIC - FMD: HCVA - Natural River, Fox River. Low, wet ground with creeks and drainages throughout. Soil=AuSable, Deford & Tawas Mucks, frequently flooded</p> <p>2018 - Stand is adjacent to the Fox River very low and full of drains. Ash look healthy for now.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.5	48	81-110	OPIC - FMD: Part of the parcel being used for the State Police cell tower; behind a locked gate. Scattered large red pine. Soil=Wallace Sand, 15-35% slopes 2017 - This is a pole stand now with lots of saplings, it is open grown with lots of stump sprouts. No activity.
62	4136 - Aspen, Mixed Conifer	Poletimber Medium	1.2	43	51-80	OPIC - FMD: Small clone of aspen at the edge of a grassy opening. Soil=Wallace sand 15-35% slopes. 2018 - Stand is harvestable, but small volume.
63	4130 - Aspen	Poletimber Well	8.2	38	111-140	OPIC - FMD: Steep hills. Mix of bigtooth and trembling aspen with r.maple, p.birch and w.pine. A3 last entry; many trees still 2-4" DBH. 99/2=r.maple, p.birch soil=Wallace Sand, 15-35% slopes. 2018 - Stand is healthy, not quite ready for harvest yet. No activity.
64	429 - Mixed Upland Conifers	Poletimber Well	4.2	78	81-110	2018 - This is a ridge with red and white pine and spruce in the swale. Aspen spread throughout.No activity.
65	4319 - Mixed Upland Forest	Poletimber Medium	27.7	33	51-80	OPIC - FMD: Narrow ridges with steep sidehills. Old opening filling in with trees. Regeneration is aspen with b.fir, w.pine, p.birch and spruce. 91/2=r.maple, b.fir and w.pine soil=Rousseau Fine Sand, 15-35% slopes 2018 - Stand is variable, there are pockets of immature and over-mature aspen, and ridges of jack and white pine. There are open areas as well. Stand is healthy for the most part, some over-mature aspen, but no activity for now. When harvest one of adjacent stands should consider harvest then.
66	4130 - Aspen	Poletimber Well	5.4	38	81-110	OPIC - FMD: Half of this stand is in the parcel being leased for the State Police cell tower. There is a locked gate on the road. A3 last entry, many trees are still not merchantable; should be A6 next entry. Aspen with some red maple and paper birch. Soil=Wallace Sand, 15-35% slopes 2018 - Stand is healthy and regenerated well, some bigger pole sized aspen, but stand is still not merchantable.
67	42120 - Planted Jack Pine	Poletimber Well	5.3	40	111-140	OPIC - FMD: Planted jack pine, with a few other trees. 91/2=aspen, b.fir, r.pine, w.pine soil=Rousseau Fine Sand, 15-35% slopes. 2018 - Stand is young, hold for at least 10 to 20 years.
68	6121 - Tamarack	Sapling Poor	2.8	11	Immature	OPIC - FMD: Low, wet ground with slow growing spruce, tamarack & cedar. Soil=Carbondale, Lupton & Tawas soils 2018- Very low and unproductive.
69	6120 - Lowland Cedar	Poletimber Well	27.9	83	111-140	OPIC - FMD: Low, wet ground. Regeneration species are mainly b.fir, cedar, & b.spruce. Soil=Carbondale, Lupton & Tawas soils 2018 - Stand could be harvested.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	6122 - Black Spruce	Poletimber Well	3.7	70	111-140	OPIC - FMD: Low, wet ground at the bottom of steep ridges. 91/2=b.fir, p.birch, r.pine soil=Dawson, Greenwood & Loxley soils 2018 - Low ground with a ridge going through it. No activity.
71	4319 - Mixed Upland Forest	Poletimber Medium	2.1	48	51-80	OPIC - FMD: Adjacent to the Old Seney Rd & snowmobile trail. Seasonal drainage through the stand. Soil=Rousseau Fine Sand, 15-35% slopes. 2018- No activity. Couple of small, low pockets of tag alder.
72	4319 - Mixed Upland Forest	Poletimber Well	4.2	38	51-80	OPIC - FMD: soil=Dawson, Greenwood & Loxley soils 2018 - For the most part, saplings and small pole aspen, but also larger softwood, not enough volume to cut. Wait 10 -20 years until saplings are poles.
73	6124 - Lowland Spruce- Fir	Poletimber Medium	27.5	73	51-80	OPIC - FMD: Low, wet ground with tall shrubs. Soil=Dawson, Greenwood & Loxley soils 2018 - Trees are small with low volume. The trees and tamarack are healthy. Trees could be cut or left. Not fully stocked with lots of area of tag alder.
75	4319 - Mixed Upland Forest	Poletimber Medium	3.8	48	81-110	OPIC - FMD: Adjacent to the Old Seney Rd & snowmobile trail. Hilly ground with a mix of species including: j.pine, w.pine, aspen & spruce. 99/2=p.birch, r.maple, aspen soil=Rousseau Fine Sand, 15-35% slopes. 2018 - Stand is healthy, could cut or leave.
77	6122 - Black Spruce	Sapling Poor	5.4	30	Immature	OPIC - FMD: Low, wet ground. Slow growing trees - spruce, tamarack, cedar. Soil=Dawson, Greenwood & Loxley soils, and Kinross-AuGres-Rubicon Complex, 0-15% slopes 2018 - Stand slowly filling in.
78	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	33.1	75	81-110	OPIC - FMD: Low, wet ground with some higher areas of pine. 99/2=r.maple, p.birch soil=Dawson, Greenwood & Loxley soils, and Kinross-AuGres-Rubicon Complex, 0-15% slopes 2018 - Not very well stocked. Big tamarack is dead, lots of sub- merchantable trees. Stand could be harvested if needed, but trees are healthy.
79	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	20.9	48	1-50	OPIC - FMD: Scattered trees - spruce, cedar, tamarack. Soil=Dawson, Greenwood & Loxley soils 2018 - Stand low and open. Stand is starting to fill in, no longer a V0, parts of the stand are still open, but they are small pockets. No activity. Bigger tamarack is dead.
81	4136 - Aspen, Mixed Conifer	Sapling Well	5.0	18	Immature	OPIC - FMD: Adjacent to the Old Seney Rd & snowmobile trail. A few scattered red and white pine. Soil=Rousseau Fine Sand, 15-35% slopes 2018 - Stand looks good, almost a pole stand. No activity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	6122 - Black Spruce	Poletimber Poor	10.3	20	Immature	OPIC - FMD: Scattered trees - spruce, cedar, tamarack. Soil=Dawson, Greenwood & Loxley soils 2018 - Stand is starting to fill in. There is still a lot of tag alder to the north of the stand.
83	4130 - Aspen	Poletimber Well	2.4	54	81-110	OPIC - FMD: 91/2=aspen, b.fir soil=Rousseau Fine Sand, 15- 35% slopes
84	42110 - Planted Red Pine	Poletimber Well	2.8	40	141-170	OPIC - FMD: Small red pine plantation, adjacent to the Old Seney Rd & snowmobile trail. Soil=Rousseau Fine Sand, 15-35% slopes 2018 - Stand needs to be thinned, less than 1/3 live crown. Use individual trees selection.
87	42120 - Planted Jack Pine	Poletimber Well	29.4	36	111-140	OPIC - FMD: A small portion in the NW of this stand is in the parcel being leased for the State Police cell towers. Hilly terrain. Planted Jack pine with a few small openings in the canopy. Soil=Wallace Sand, 6-15% slopes, and Rousseau Fine Sand, 15- 35% slopes 2018 - Stand is healthy and too young to cut.
90	6122 - Black Spruce	Poletimber Well	4.3	64	111-140	OPIC - FMD: SCA - Potential Old Growth. Many trees 1-4" DBH. Soil=Carbondale, Lupton & Tawas soils 2018 - Stand could cut or leave. Stand is healthy. There are a lot of drains and small black spruce. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.
91	6126 - Lowland Jack Pine	Sapling Medium	64.9	50	81-110	OPIC - FMD: SCA - Potential Old Growth. Bog area that has filled in with trees - spruce, tamarack, j.pine, cedar. Soil=Dawson, Greenwood & Loxley soils. 2018 - Stand is filling in and will someday be harvestable. Trees are healthy. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.
92	6126 - Lowland Jack Pine	Sapling Medium	29.0	34	Immature	OPIC - FMD: SCA - Potential Old Growth. Bog area that has filled in with trees - spruce, tamarack, j.pine, cedar. Soil=Dawson, Greenwood & Loxley soils. 2018 - Stand is borderline 50% coverage. Variable stocking. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.
93	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	25.2	75	81-110	OPIC - FMD: Low, wet ground with some higher areas of pine. 99/2=r.maple, p.birch soil=Dawson, Greenwood & Loxley soils, and Kinross-Au Gres-Rubicon Complex, 0-15% slopes 2018 - Very low ground with some ridges with spruce, pine and balsam fir. Low ground has cedar, balsam, black spruce and cedar very difficult to delineate. Lots of rabbit activity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
94	6126 - Lowland Jack Pine	Sapling Poor	26.9	34	1-50	<p>OPIC - FMD: SCA - Potential Old Growth. The snowmobile trail goes through the NW corner of this stand. Bog with scattered trees - b.spruce, tamarack, j.pine. Soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - Stand is starting to fill in. Sapling are healthy. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>
97	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	1.1	30	Immature	<p>OPIC - FMD: Scattered trees - apsen, w.pine, r.maple, spruce. Steep, hilly terrain. Habitat type=PVE Soil=Rousseau Fine Sand, 15-35% slopes</p> <p>2018 - Stand is slowly starting to fill in with white pine seedlings.</p>
98	4130 - Aspen	Poletimber Well	1.1	38	111-140	<p>OPIC - FMD: Steep hills. Mix of bigtooth and trembling aspen with r.maple, p.birch and w.pine. A3 last entry; many trees still 2-4" DBH. 99/2=r.maple, p.birch soil=Wallace Sand, 15-35% slopes</p> <p>2018 - Stand is healthy, still a little young to harvest, consider next entry.</p>
99	4311 - Pine, Aspen Mix	Poletimber Well	7.7	38	81-110	<p>OPIC - FMD: Steep hills. Mix of bigtooth and trembling aspen with r.maple, p.birch and w.pine. A3 last entry; many trees still 2-4" DBH. 99/2=r.maple, p.birch soil=Wallace Sand, 15-35% slopes</p> <p>2018 - Bigger trees, ready to be cut, but mixed variable stocking. It is a mixed stand. Some trees are 1 stick tall, others are 5.</p>
100	6122 - Black Spruce	Poletimber Well	3.1	78	111-140	<p>OPIC - FMD: Low, wet ground. Spruce with scattered other conifers. Regeneration is mainly b.spruce & b.fir. Soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - very low and mossy. Stand is healthy, could cut or leave.</p>
101	42110 - Planted Red Pine	Poletimber Well	0.9	40	81-110	<p>OPIC - FMD: Planted jack pine, with a few other trees. 91/2=aspen, b.fir, r.pine, w.pine soil=Rousseau Fine Sand, 15-35% slopes</p> <p>2018 - Stand is small red pine. Could thin when thin stand 84</p>
102	42290 - Natural Mixed Pine	Sawtimber Well	2.5	54	81-110	<p>OPIC - FMD: 91/2=aspen, b.fir soil=Rousseau Fine Sand, 15-35% slopes</p>
103	6124 - Lowland Spruce- Fir	Poletimber Medium	1.3	70	81-110	<p>OPIC - FMD: Low, wet ground at the bottom of steep ridges. 91/2=b.fir, p.birch, r.pine soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - Stand is on a ridge from upland to low ground. Doesn't match any surround stands. Not swamp and not high ground. Stand could be harvested.</p>
104	6126 - Lowland Jack Pine	Sapling Poor	9.5	20	Immature	<p>OPIC - FMD: SCA - Potential Old Growth. Bog with scattered trees - b.spruce, tamarack, j.pine. Soil=Dawson, Greenwood & Loxley soils</p> <p>2018 - V0 is filling in on the edges. Most of the trees are growing on higher hummocks. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
105	6122 - Black Spruce	Poletimber Poor	3.3	30	51-80	<p>OPIC - FMD: Spruce with scattered other trees including: w.pine, red pine, jack pine, cedar and aspen. Cut all trees except those needed for retention. B.Spruce is the preferred regeneration species; but a combination of tree species currently on site is acceptable. 98/2=r.pine, cedar and b.fir soil=Spot-Finch Complex, 0-3% slopes; and Carbondale, Lupton & Tawas soils [11-10-11] Stand is now under contract 41-038-10-01 Fox River Jackn Spruce. Residual BA: Paper birch = 2; cedar/hemlock = 1. [8-10-12] Sale is now closed/completed TCR dtd 6-29-12.</p> <p>2018 - A remaining strip of timber between opening and swamp.</p>
106	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	5.0	30	Immature	<p>OPIC - FMD: Low, wet ground with tall shrubs and leatherleaf. A few scattered trees. Drainage ditch through the stand. Soil=AuSable, Deford & Tawas Mucks, frequently flooded, and Dawson, Greenwood & Loxley soils</p> <p>2018- This was originally part of the adjacent low ground, separated this part of the stand out because it is a stocked stand now.</p>
108	6126 - Lowland Jack Pine	Poletimber Well	8.3	50	81-110	<p>OPIC - FMD: Low ground, with some wet areas. Ground cover is mainly leatherleaf and sedge. Many trees are 2-4" DBH. Soil=Dawson, Greenwood & Loxley soils.</p> <p>2018 - Stand is healthy, could harvest this entry or next.</p>
109	6121 - Tamarack	Poletimber Medium	16.8	50	81-110	<p>OPIC - FMD: SCA - Potential Old Growth. Bog area that has filled in with trees - spruce, tamarack, j.pine, cedar. Soil=Dawson, Greenwood & Loxley soils.</p> <p>2018 - Stand is healthy and continues to fill in. Stand was reviewed and no longer fits into the potential old growth category, so condition was removed.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
6	6224 - Treed Bog	36.9	No	OPIC - FMD: SCA - Potential Old Growth, E.Branch Fox River Slough. Tall brush near edges. A few scattered trees (tamarack, b.spruce). Soil=Carbondale, Lupton & Tawas soils. 2018 - Tamarack are dead, not a lot of regeneration.
13	622 - Lowland Shrub	134.1	No	OPIC - FMD: SCA - Potential Old Growth. Stand is adjacent to M-77, with a snowmobile trail going through the stand. Low, wet ground with tall shrubs; a few scattered trees (b.spruce, tamarack, w.pine, aspen). There is a ditch along M-77. Soil=Carbondale, Lupton & Tawas soils 2018 - No change other than dead tamarack.
14	622 - Lowland Shrub	20.4	No	OPIC - FMD: Low, wet ground with tall shrubs. A few scattered trees. Old RR grade in stand, with a small ditch on the west side of it. Soil=Carbondale, Lupton & Tawas soils. 2018 - Along with the old grade is a ditch along the west side. Stand now includes the low ground to the east. That part of the stand was originally cut with stand 16, but is lower and has not regenerated as well. No activity.
20	622 - Lowland Shrub	10.0	No	OPIC - FMD: Low, wet ground with tall shrubs. Soil=Carbondale, Lupton & Tawas soils
32	500 - Water	8.2	No	OPIC - FMD: HCVA - Natural River, Fox River.
33	6224 - Treed Bog	167.4	No	OPIC - FMD: Low, wet ground. Tall shrubs near the edges; leatherleaf and sedge throughout. Scattered suppressed trees (<10BA): b.spruce, tamarack, w.pine. Soil=Carbondale, Lupton & Tawas soils 2018-Trees growing on higher ground, otherwise tag alder and leather leaf.
56	6224 - Treed Bog	13.7	No	OPIC - FMD: Low, wet ground with tall shrubs and leatherleaf. A few scattered trees. Drainage ditch through the stand. Soil=AuSable, Deford & Tawas Mucks, frequently flooded, and Dawson, Greenwood & Loxley soils 2018 - Low ground with lots of water and drains flowing through stand.
74	6229 - Mixed lowland shrub	3.2	No	OPIC - FMD: Adjacent to the Old Seney Rd & snowmobile trail. Low, wet ground with tall shrubs and a few scattered trees. Soil=Dawson, Greenwood & Loxley soils 2018 - Low ground with scattered trees.
76	710 - Sand, Soil	8.5	No	OPIC - FMD: Adjacent to the Old Seney Rd & snowmobile trail. Sand pits being used for target practice and by ORV's. Soil=Pits, sand2018 - Created RDR for this stand 1-11-18.
80	622 - Lowland Shrub	4.3	No	OPIC - FMD: Scattered trees - spruce, cedar, tamarack. Soil=Dawson, Greenwood & Loxley soils
85	122 - Road/Parking Lot	4.0	No	OPIC - FMD: Old Seney Rd, snowmobile trail ROW.



Stand	Cover Type	Acres	Managed Site	General Comments:
86	110 - Low Intensity Urban	1.6	No	OPIC - FMD: Old Seney Rd ROW.
88	500 - Water	2.3	No	OPIC - FMD: HCVA - Natural River, Fox River.
89	122 - Road/Parking Lot	0.3	No	OPIC - FMD: M-28 R-O-W
95	122 - Road/Parking Lot	14.3	No	OPIC - FMD: M-77 R-O-W
96	122 - Road/Parking Lot	9.1	No	OPIC - FMD: M-28 and old M-28 R-O-W.
107	622 - Lowland Shrub	8.7	No	OPIC - FMD: Low, wet ground with tall shrubs. A few scattered trees. Soil=Carbondale, Lupton & Tawas soils. Stand includes ditch on west side of M-77. 2018 - No change.
401	3102 - Grass	0.7	No	OPIC - FMD: Part of a large grass opening in the adjacent compartment. Scattered trees - apsen, w.pine. Hilly terrain. Soil=Wallace Sand, 6-15% slopes
403	3102 - Grass	2.4	No	OPIC - FMD: Scattered trees - apsen, w.pine, r.maple, spruce. Steep, hilly terrain. Habitat type=PVE Soil=Rousseau Fine Sand, 15-35% slopes 2018 - Stand is continuing to fill in.
406	123 - Other High Intensity Urban	9.4	No	OPIC - FMD: The majority of this stand is being leased for the State Police sell tower, which is in this stand. Scattered trees - apsen, w.pine, r.maple, spruce. Hilly terrain. Habitat type=PVE Soil=Wallace Sand, 6-15% slopes 2018 - No change.