



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41114

Entry Year 2024

Acreage: 1,292

County Schoolcraft

Management Area: Bullock Ranch

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**Stand Examiner:** Scott Kentner

## Legal Description:

T46N R13W Sections 18, 19, 29 and 30.

## Identified Planning Goals:

Management of the compartment in accordance with the principles of sustainable forest ecosystem management, with emphasis on timber production, maintaining & enhancing wildlife habitat, and protection of riparian areas that help provide quality fish habitat.

## Soil and topography:

The compartment consists of sandy soils. The west side of the compartment is a mix of sandy ridges and low Marshes with Organic soils.

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

The southeast corner of the compartment is the village of Seney. The compartment also has the Seney Township Park and 120 acres of private property located within it.

## Unique Natural Features:

There are Osprey, Goshawk and Frigga Fritillary to the southeast and Eagle and Loon to the southwest also Fir club moss to the southeast. There is Potential for Incurvate Emerald, ebony boghaunter, Frigga fritillary and Freija fritillary in bogs, potential for wood turtle along Fox River. Potential for wetland plants such as Canada rice grass, black sedge, Clinton's bulrush, Juncus vaseyi, sweetcoltsfoot.

## Archeological, Historical, and Cultural Features:

N/A

## Special Management Designations or Considerations:

The Fox River borders the compartment it's a natural river and as a result land in the vicinity of the river has to be managed in concert with the Fox River natural river plan

## Watershed and Fisheries Considerations:

This compartment contains the Fox River, Twomile Ditch, Clarks Ditch, and two unnamed streams that serve as tributaries to the Fox River.

The Fox River is within the designated Michigan Natural Rivers area, is less than 50' wide, and has a predicted mean July temperature that ranges from 62.0 to 65.0 °F (cold stream). 300' buffers are recommended for the Fox River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 200' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices and the Fox River Natural Rivers Management Plan.

The two unnamed streams that serve as tributary to the Fox River are both designated Type 1 trout streams less than 50' width and have a predicted mean July temperature of 57.6 °F (cold streams). 300' buffers are recommended for the unnamed streams 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.

Twomile Ditch and Clarks Ditch are non-designated streams less than 50' width and have predicted mean July temperatures that range from 61.0 to 63.0 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended for Twomile Ditch and Clarks Ditch to protect these areas in accordance with Best Management Practices.

## Wildlife Habitat Considerations:

This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is

less than 100 days with extreme minimum winter temperatures of -46o F. Annual snowfall in this area averages approximately 150 inches.

The compartment falls within the Bullock Ranch Management Area which highlights the following Featured Species: Beaver, gray jay and sharp-tailed grouse. The Fox River forms the east boundary of this compartment. The majority of the compartment is lowland coniferous forest. General Land Office Surveyor notes show the pre-settlement forest in this compartment was dominated by tamarack, spruce, and red pine. White pine, white birch and hemlock were also recorded. Windthrow, fire, flooding, and beaver ponding were all likely contributors to the natural disturbance regime. Current upland forest stands in this compartment are dominated by jack pine. Aspen has also increased about pre-settlement levels. Wildlife habitat objectives in this compartment include providing age and structural diversity between conifer stands, and protecting the river corridor. Occasionally moose (Michigan special concern) use this compartment. There are no other known rare species within this compartment. Other wildlife species of interest that may utilize this compartment include black-backed woodpecker, spruce grouse, snowshoe hare and bobcat.

### **Mineral Resource and Development Concerns and/or Restrictions**

Sections 18-19 & 29-30, T46N-R13W, Schoolcraft County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. The State-owned Sunken Lake Road (Seney North) Pit is two miles to the northeast and is currently leased to the Schoolcraft County Road Commission. While there may be some potential for sand in the compartment, potential for surface mining appears limited. Aside from the Sunken Lake Pit, no other current mineral leasing activity exists in the area.

### **Vehicle Access:**

The main road into the compartment is the Fox River Road, which runs along the eastern side of the compartment. The majority of the compartment is easily accessed by 2-track roads and the snowmobile trail. Although M-28 runs ¼ mile to the South of the compartment access to the Southwest corner is difficult due to the low ground in the area.

### **Survey Needs:**

There are some issues in the southeast side of the compartment. DNR surveyors are aware of the issues and working on solutions.

### **Recreational Facilities and Opportunities:**

The compartment has a lot of recreational use due to its location near to Seney. The Fox River Pathway and trailhead are located within the compartment. There is 2 miles of Snowmobile Trail 43 in the compartment. The Fox River has several areas which can be accessed and fished. The compartment also has a high amount of hunting opportunities.

### **Fire Protection:**

Fire response to the compartment should be quite fast due to its location near Seney. Most of the compartment is easily accessible by 2-track roads.

### **Additional Compartment Information:**

#### **The following reports from the Inventory are attached:**

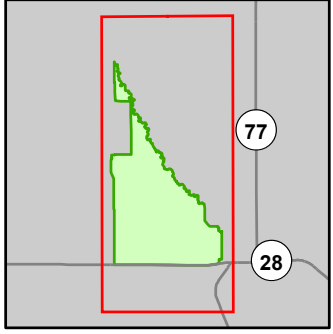
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

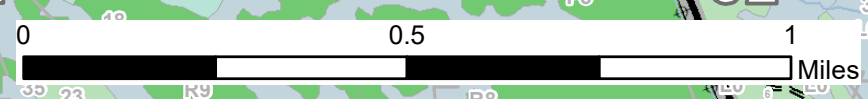
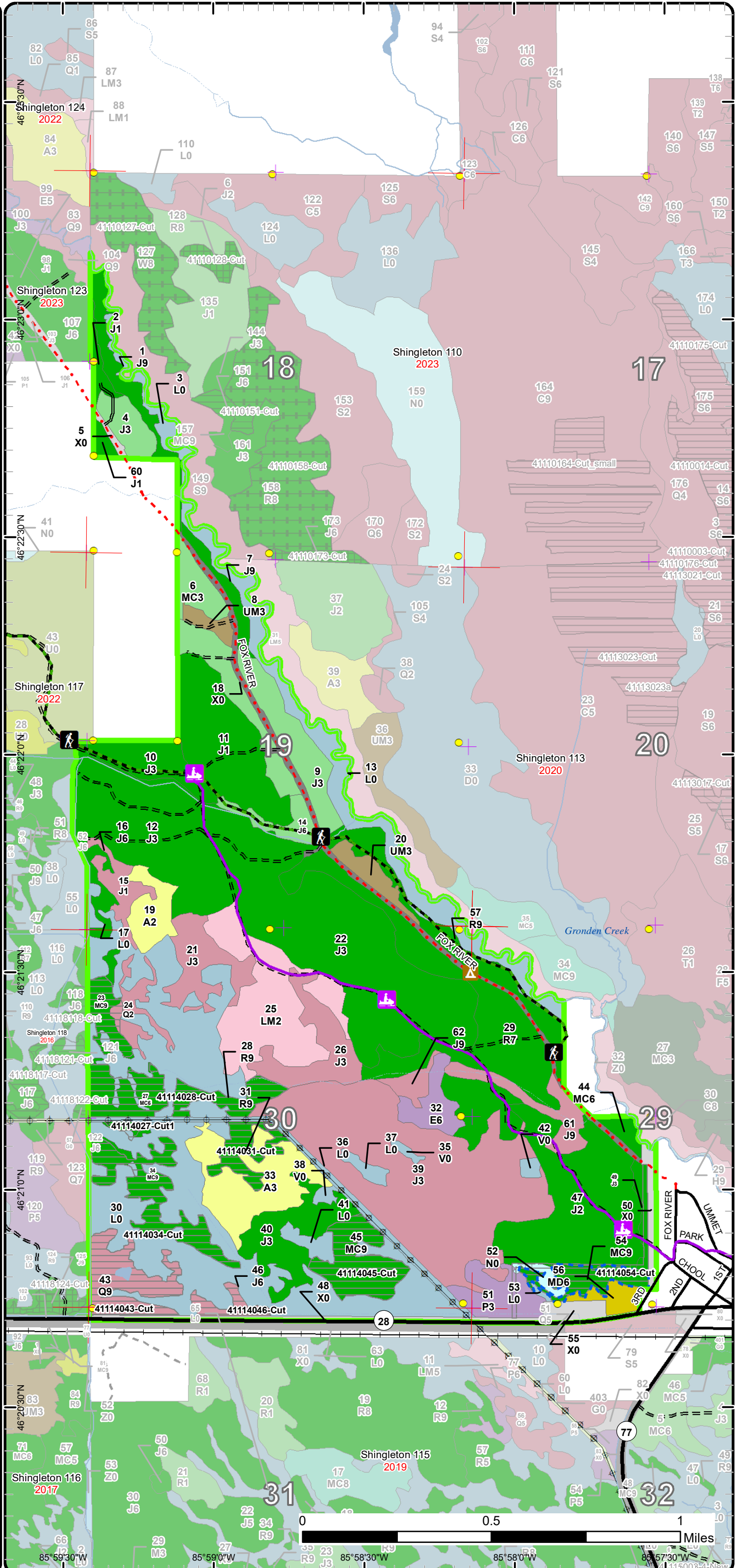
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 114  
 T46N, R13W, Sec. 18, 19, 29, 30  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Bullock Ranch  
 YOE: 2024  
 Acres: 1292 GIS Calculated  
 Examiner: Scott Kentner  
 Map Revised: 8/17/2022  
 Map Phase: Web Post



- 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
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Campground
- ⊕ Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Opening Maintenance
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland

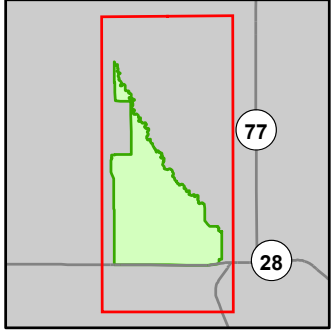


85°59'30"W 85°59'00"W 85°58'30"W 85°58'00"W 85°57'30"W 85°57'00"W 85°56'30"W 85°56'00"W 85°55'30"W 85°55'00"W 85°54'30"W 85°54'00"W 85°53'30"W 85°53'00"W 85°52'30"W 85°52'00"W 85°51'30"W 85°51'00"W 85°50'30"W 85°50'00"W 85°49'30"W 85°49'00"W 85°48'30"W 85°48'00"W 85°47'30"W 85°47'00"W 85°46'30"W 85°46'00"W 85°45'30"W 85°45'00"W 85°44'30"W 85°44'00"W 85°43'30"W 85°43'00"W 85°42'30"W 85°42'00"W 85°41'30"W 85°41'00"W 85°40'30"W 85°40'00"W 85°39'30"W 85°39'00"W 85°38'30"W 85°38'00"W 85°37'30"W 85°37'00"W 85°36'30"W 85°36'00"W 85°35'30"W 85°35'00"W 85°34'30"W 85°34'00"W 85°33'30"W 85°33'00"W 85°32'30"W 85°32'00"W 85°31'30"W 85°31'00"W 85°30'30"W 85°30'00"W 85°29'30"W 85°29'00"W 85°28'30"W 85°28'00"W 85°27'30"W 85°27'00"W 85°26'30"W 85°26'00"W 85°25'30"W 85°25'00"W 85°24'30"W 85°24'00"W 85°23'30"W 85°23'00"W 85°22'30"W 85°22'00"W 85°21'30"W 85°21'00"W 85°20'30"W 85°20'00"W 85°19'30"W 85°19'00"W 85°18'30"W 85°18'00"W 85°17'30"W 85°17'00"W 85°16'30"W 85°16'00"W 85°15'30"W 85°15'00"W 85°14'30"W 85°14'00"W 85°13'30"W 85°13'00"W 85°12'30"W 85°12'00"W 85°11'30"W 85°11'00"W 85°10'30"W 85°10'00"W 85°9'30"W 85°9'00"W 85°8'30"W 85°8'00"W 85°7'30"W 85°7'00"W 85°6'30"W 85°6'00"W 85°5'30"W 85°5'00"W 85°4'30"W 85°4'00"W 85°3'30"W 85°3'00"W 85°2'30"W 85°2'00"W 85°1'30"W 85°1'00"W 85°0'30"W 85°0'00"W

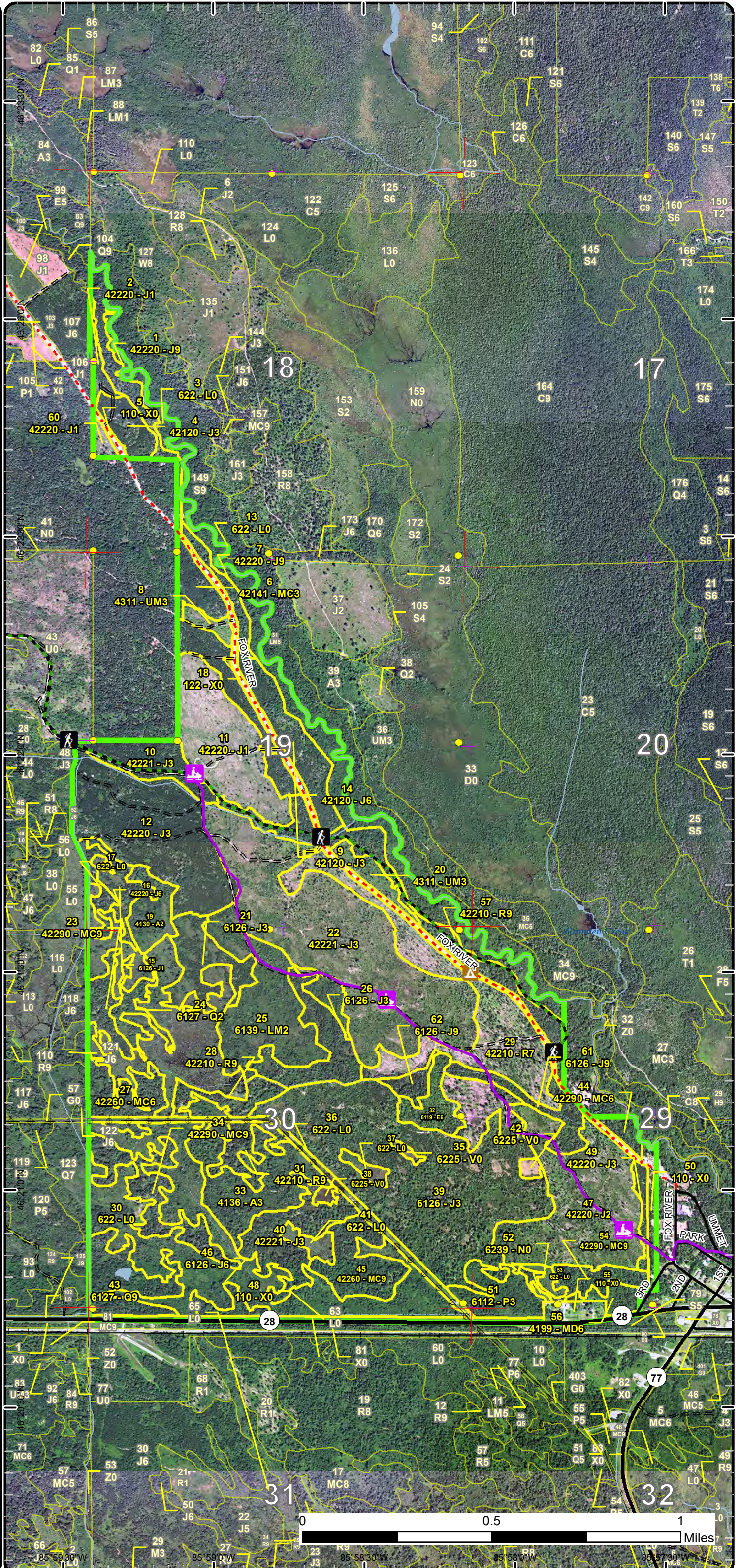


# Stand Boundary Map

Compartment: 114  
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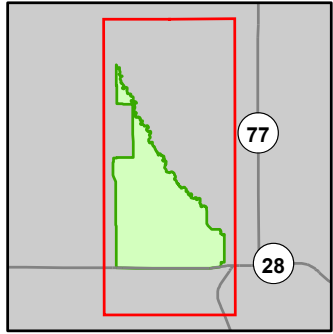
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- Survey Grade Corners
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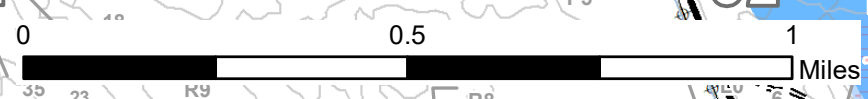
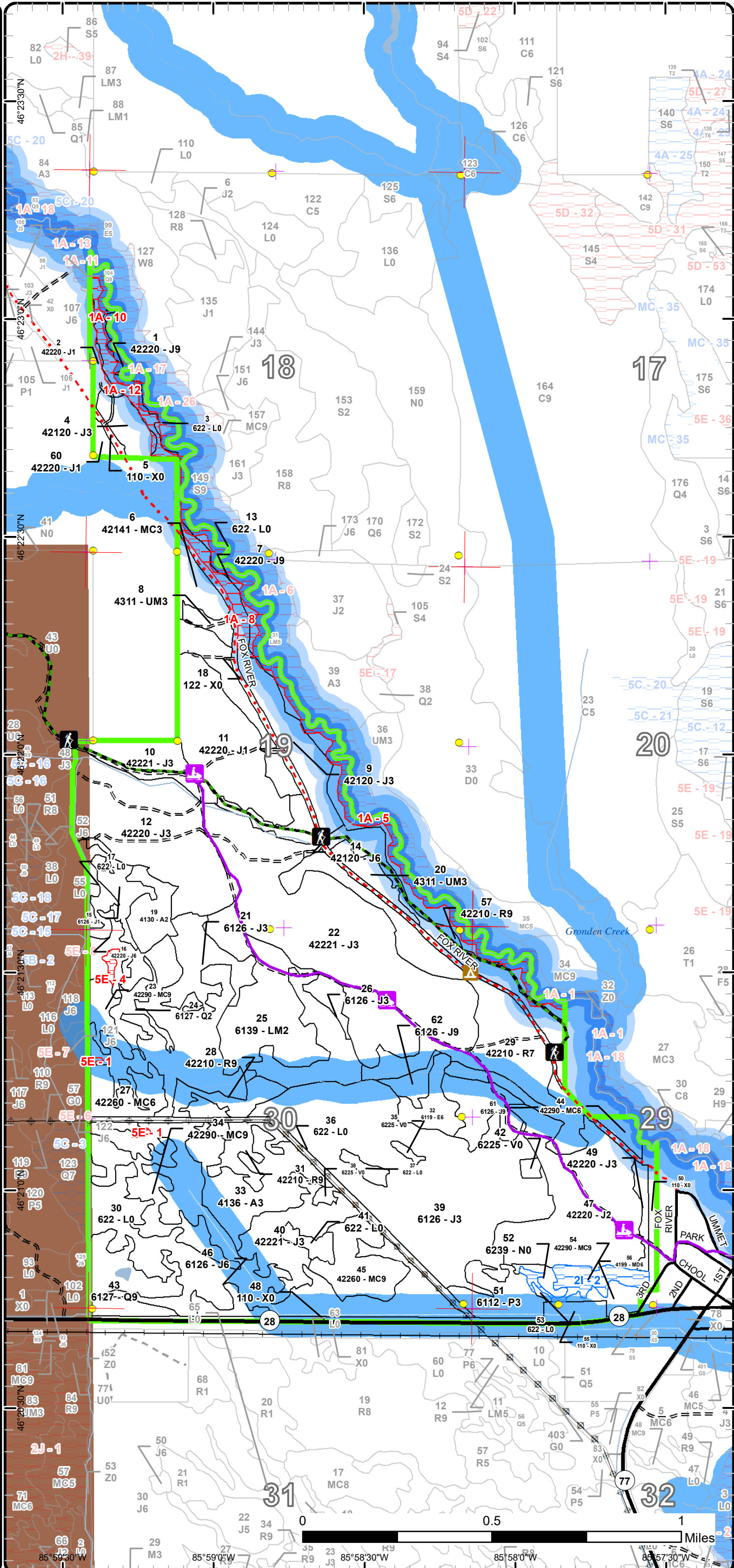


# Special Conservation Areas

Compartment: 114  
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Campground
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- Unavailable
- 1A: Federal/State/Local Law
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas



85°59'30"W 85°59'00"W 85°58'30"W 85°58'00"W 85°57'30"W

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	0	0	12	33	0	0	0	0	0	0	0	0	0	0	0	0	45
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	52	186	249	64	25	15	19	0	0	7	0	0	0	0	0	0	18	635
Lowland Aspen/Balsam Poplar	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	22	31
Lowland Deciduous	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11
Lowland Mixed Forest	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Lowland Shrub	236	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	236
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Natural Mixed Pines	0	0	0	0	0	0	0	4	32	48	0	0	0	0	0	0	0	0	84
Planted Mixed Pines	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	0	0	10	0	0	9	0	0	0	0	0	0	0	92	111
Upland Mixed Forest	0	4	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Urban	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
<b>Total</b>	<b>284</b>	<b>56</b>	<b>193</b>	<b>258</b>	<b>157</b>	<b>58</b>	<b>15</b>	<b>29</b>	<b>15</b>	<b>32</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>132</b>	<b>1293</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2024

Acres of Harvest

Compartment 114  
Total Compartment Acres: 1,292

Commercial Harvest - 115  
Harvests with Site Condition - 11  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	5	0	0	0	0	0	0	0	0	5
Lowland Conifers	22	0	0	0	0	0	0	0	0	22
Natural Mixed Pines	80	0	0	0	0	0	0	0	0	80
Red Pine	19	0	0	0	0	0	0	0	0	19
<b>Total</b>	<b>126</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	126	0	0	0	0	0	0	5	0	131
Next Step	0	16	0	0	0	99	0	0	0	115
<b>Total</b>	<b>126</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>99</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>245</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>28</b>	<b>41114028-Cut</b>	9.4	42210 - Natural Red Pine	Sawtimber Well	96	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with Retention: Remove all trees within stand. Retention should be left along edge of stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species on site before harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>31</b>	<b>41114031-Cut</b>	9.6	42210 - Natural Red Pine	Sawtimber Well	68	141-170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with Retention: Remove all trees within stand. Retention should be left as uncut finger.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species on site before harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>34</b>	<b>41114034-Cut</b>	21.6	42290 - Natural Mixed Pine	Sawtimber Well	96	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with Retention: Remove all trees within stand. Retention should be left as uncut finger. Also leave birch and white pine over 24" as retention in the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species present on site before harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>43</b>	<b>41114043-Cut</b>	21.7	6127 - Lowland Pine	Sawtimber Well	55	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with Retention: Remove all trees within stand. Retention should be left as uncut finger. Also leave birch and white pine over 24" as retention in the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species on site before harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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45	41114045-Cut	20.7	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	84	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with Retention: Remove all trees within stand. Retention should be left as uncut finger.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any species on site before harvest.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

46	41114046-Cut	4.9	6126 - Lowland Jack Pine	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Clearcut with Retention: Remove all trees within stand. Retention should be left as uncut finger.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable any species on site before harvest.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

54	41114054-Cut	11.0	42290 - Natural Mixed Pine	Sawtimber Well	89	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with Retention: Remove all trees within stand. Retention should be left as uncut finger.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable any species on site before harvest.

Regen:

Other

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023

### Approved Treatments:

23	41114023-Cut1	9.8	42290 - Natural Mixed Pine	Sawtimber Well	98	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Clear-cut stand. retention should be in pockets (focus on areas thick with Red pine)

Specs:

Next Step

Treatments:

Acceptable Mixed conifer.

Regen:

Other Old next step comments: Scarify if possible, if not hand plant to Jack pine

Comment:

Site Condition:



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Start Date: 10/1 /2015

27	41114027-Cut1	17.1	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	96	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Clear-cut with reserves. Retention should be in pockets, focus on areas heavy to Red pine.

Specs:

Next Step

Treatments:

Acceptable JP

Regen:

Other Old next step comments: Scarify if possible, if not hand plant to Jack pine.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2015

49	41114049-NF	4.7	42220 - Natural Jack Pine	Sapling Well	33	111-140	NonForestMgt	Brush Cutting	31022 - Warm Season Grass		No
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Prescription The objective of this treatment is to create an approximate 50-66' fuel break. There are little to no merchantable trees and therefore the work will need to be done with a mastacator.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/15/2021

**Total Treatment  
Acreage Proposed: 130.5**



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 114  
Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2I	5C	1A	5E
		With Condition	Not Available					
45	45	0	0	Aspen				
4	4	0	0	Bog				
634	614	0	20	Jack Pine			20	
15	15	0	0	Lowland Aspen/Balsam Poplar				
30	30	0	0	Lowland Conifers		0		
11	11	0	0	Lowland Deciduous				
50	50	0	0	Lowland Mixed Forest				
236	196	0	40	Lowland Shrub		0	40	
3	3	0	0	Marsh				
6	6	0	0	Mixed Upland Deciduous				
84	71	11	2	Natural Mixed Pines	11			2
10	10	0	0	Planted Mixed Pines				
111	111	0	0	Red Pine			0	
11	11	0	0	Upland Mixed Forest				
41	41	0	0	Urban			0	
1,292	1,220	11	61	Total Forested Acres	11	0	60	2
	94%	1%	5%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	2I: Survey needed	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 114  
 Year of Entry: 2024

4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	1A: Federal/State/Local Law	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River 100' zone							
8	Unavailable	1A: Federal/State/Local Law	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much of this stand is within the Fox Natural river management zone							
10	Unavailable	1A: Federal/State/Local Law	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox natural river 100' zone							
12	Unavailable	1A: Federal/State/Local Law	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox natural river 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

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**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.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42220 - Natural Jack Pine	Sawtimber Well	13.7	66	81-110	N/A	This stand is in the Fox River natural river corridor.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sap/Log	8		Black Spruce	Low	< 5 feet	Sapling
Black Spruce	2	Pole/Sap/Log	8		White Pine	Low	< 5 feet	Sapling
Red Pine	5	Log/Pole/XLog	12		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	2	Sapling/Pole	2					
Jack Pine	80	Log	10	66				
Balsam Fir	6	Pole/Log/Sap	8					

2	42220 - Natural Jack Pine	Sapling Poor	4.4	8	Immature	N/A	Park side pine 41-017-15-01 FTP 1599. passed regen count fall 2018.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	100	Sapling	2	8

3	622 - Lowland Shrub	Nonstocked	8.0			No	
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4	42120 - Planted Jack Pine	Sapling Well	10.2	25	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	2	Pole/Log	9	
Red Pine	2	Log	12	
White Pine	2	Log	12	
Jack Pine	94	Sapling	2	25

5	110 - Low Intensity Urban	Nonstocked	1.6		Unspecified	No	Fox River Road.
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6	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	10.0	34	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log/Pole/XLog	14		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Jack Pine	45	Sapling	4	34				
Red Maple	5	Sapling	1					
Quaking Aspen	25	Sapling	4					
Black Spruce	10	Sapling	2					
White Pine	5	Log/XLog/Pole	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
7	42220 - Natural Jack Pine	Sawtimber Well	6.6	90	111-140	N/A	This stand is in the Fox River natural river corridor.																																																				
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8	4311 - Pine, Aspen Mix	Sapling Well	4.1	8	Immature	N/A	Missing Jack Pine timber Sale. Area was scarified by DNR in fall of 2013 at a cost of \$602.42. Check regen in 2018, 1530 TPA.																																																				
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9	42120 - Planted Jack Pine	Sapling Well	38.8	34	51-80	N/A																																																					
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10	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	16.4	26	51-80	N/A																																																					
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11	42220 - Natural Jack Pine	Sapling Poor	45.1	8	Immature	N/A	Parkside pine. 41-017-14-01 FTP 1599. passed natural regen check done in fall 2018.																																																				
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12	42220 - Natural Jack Pine	Sapling Well	66.0	26	Immature	N/A	The stocking looks good stand is growing well.																																																				
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13	622 - Lowland Shrub	Nonstocked	44.3		Unspecified	No	Fox River buffer. low areas with some high banks in places.																																																				



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14	42120 - Planted Jack Pine	Poletimber Well	8.1	51	81-110	N/A																																									
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15	6126 - Lowland Jack Pine	Sapling Poor	9.5	26	Immature	N/A	This stand is a mix of jack pine regen some older pine and lowland brush as well as some aspen it was split from the stand to the north due to the lower stocking.																																								
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17	622 - Lowland Shrub	Nonstocked	1.9			No																																									
18	122 - Road/Parking Lot	Nonstocked	17.5		Unspecified	No	Fox River Road. Co. Rd 450																																								
19	4130 - Aspen	Sapling Medium	12.0	32	Immature	N/A	This stand looks ok with decent stocking and scattered wet areas.																																								
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Tag Alder	Low	10 - 20 feet	Tall Shrub																																												
20	4311 - Pine, Aspen Mix	Sapling Well	7.4	16	Immature	N/A	C41-1191 Planted red pine, with long size red pine as residual. also lots of jack pine and aspen mixed on as well.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>21</b>	6126 - Lowland Jack Pine	Sapling Well	19.0	26	Immature	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Sapling	3		Black Spruce	Low	5 - 10 feet	Sapling
Quaking Aspen		5	Sapling	3		Tag Alder	High	5 - 10 feet	Tall Shrub
Jack Pine		90	Sapling	3	26				

<b>22</b>	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	119.5	14	Immature	N/A	Passed regen count at 950T/A regen is a mix of jack pine, spruce, aspen, red and white pine. MO is jack pine and aspen FTP# C41-1168		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		5	Sapling	3	14				
Quaking Aspen		25	Sapling	3	14				
White Pine		3	Log/Pole	10	80				
Jack Pine		60	Sapling	3	14				
Red Pine		2	Log/Pole	10	80				
Black Spruce		5	Sapling	1	14				

<b>23</b>	42290 - Natural Mixed Pine	Sawtimber Well	9.6	98	51-80	N/A	Under contract TS: 41-006-16 Sean Cone-ery PU6		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		10	Log	10		Red Pine	Low	< 5 feet	Sapling
White Pine		10	Log	15		White Pine	Low	< 5 feet	Sapling
Jack Pine		30	Log/Pole/XLog	12		Black Spruce	Low	< 5 feet	Sapling
Black Spruce		5	Log	10					
Red Pine		40	Log	15	98				
Paper Birch		5	Log/Pole/XLog	10					

<b>24</b>	6127 - Lowland Pine	Sapling Medium	8.7	26	Immature	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Jack Pine		45	Sapling	2	26	Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		20	Sapling	2					
White Pine		10	Log/Pole	12					
Red Pine		25	Log/Pole	12					

<b>25</b>	6139 - Mixed Lowland Forest	Sapling Medium	49.9	32	Immature	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		6	Sapling	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		50	Sapling	3	32				
Black Spruce		5	Sapling/Pole	4					
Paper Birch		3	Sapling	3					
Jack Pine		36	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
<b>26</b>	6126 - Lowland Jack Pine	Sapling Well	21.0	33	51-80	N/A																																																																
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<b>27</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	16.2	96	81-110	N/A	Under contract TS: 41-006-16 Sean Cone-ery PU5																																																															
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<b>28</b>	42210 - Natural Red Pine	Sawtimber Well	9.4	96	51-80	N/A	This stand has been thinned in the last 20 years.																																																															
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<b>29</b>	42210 - Natural Red Pine	Sawtimber Poor	69.7	84	1-50	N/A	Parkside Pine 41-017-14-01 FTP 1599. Stand was scarified in 2015. Regen check done in fall of 2018. JP seedlings are present, and just passes a regen check, residual BA of RP is still very high. Stand will be coded as a RP stand.																																																															
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<b>30</b>	622 - Lowland Shrub	Nonstocked	161.2			No																																																																
<b>31</b>	42210 - Natural Red Pine	Sawtimber Well	9.6	68	141-170	N/A	majority of stand is red with jp and aspen on marsh edges.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>32</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	10.7	77	51-80	N/A																																														
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<b>33</b>	4136 - Aspen, Mixed Conifer	Sapling Well	33.4	41	1-50	N/A																																														
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<b>34</b>	42290 - Natural Mixed Pine	Sawtimber Well	22.2	96	81-110	N/A	This is an old fire established series of pine islands.																																													
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<b>35</b>	6225 - Bog	Nonstocked	1.2			No																																														
<b>36</b>	622 - Lowland Shrub	Nonstocked	12.3		Unspecified	No	Transmission line cut.																																													
<b>37</b>	622 - Lowland Shrub	Nonstocked	3.1			No																																														
<b>38</b>	6225 - Bog	Nonstocked	1.5		Unspecified	No																																														





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39	6126 - Lowland Jack Pine	Sapling Well	127.8	25	1-50	N/A	This stand is low with a mix of pine aspen and low areas.																																																															
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40	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	24.8	40	81-110	N/A																																																																
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41	622 - Lowland Shrub	Nonstocked	4.5		Unspecified	No																																																																
42	6225 - Bog	Nonstocked	1.7		Unspecified	No																																																																
43	6127 - Lowland Pine	Sawtimber Well	21.7	55	81-110	N/A	This stand was cut in the 1970s there is a lot of diversity in the stand, there are also some lowland brush scattered though the stand. There is a pond in the stand.																																																															
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44	42290 - Natural Mixed Pine	Poletimber Well	4.2	77	81-110	N/A	This is a small triangle of land bordered by the township campground on the north the Fox River on the east the Fox River road on the west and a home on the south.																																																															
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<b>45</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	20.7	84	81-110	N/A	This stand is a mix of red pine ridges with aspen and tag alder in the low swales																																						
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<b>46</b>	6126 - Lowland Jack Pine	Poletimber Well	4.9	65	81-110	N/A	This stand a mix of Aspen and Jack Pine with some low areas of tag alder mixed in.																																						
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<b>47</b>	42220 - Natural Jack Pine	Sapling Medium	65.9	17	Immature	N/A																																							
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<b>48</b>	110 - Low Intensity Urban	Nonstocked	10.3			No																																							
<b>49</b>	42220 - Natural Jack Pine	Sapling Well	4.5	33	111-140	N/A																																							
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<b>51</b>	6112 - Lowland Aspen	Sapling Well	15.1	39	51-80	N/A																																																								
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<b>52</b>	6239 - Mixed Emergent Wetland	Nonstocked	2.8			No																																																								
<b>53</b>	622 - Lowland Shrub	Nonstocked	0.6			No																																																								
<b>54</b>	42290 - Natural Mixed Pine	Sawtimber Well	11.0	89	111-140	N/A	This stand was left as a visual buffer it needs to be cut this year of entry. Some survey work will be needed also green up will have to be dealt with when the sale is prepped																																																							
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<b>55</b>	110 - Low Intensity Urban	Nonstocked	5.9		Unspecified	No																																																								
<b>56</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	5.8	38	51-80	N/A																																																								
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<b>57</b>	42210 - Natural Red Pine	Sawtimber Well	22.4	84	111-140	N/A	Uncut buffer of the Fox River. Fox River Pathway runs thru this stand.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>60</b>	42220 - Natural Jack Pine	Sapling Poor	2.7	8	Immature	N/A	Park side pine 41-017-15-01 FTP 1599. passed regen count fall 2018.																																													
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<b>61</b>	6126 - Lowland Jack Pine	Sawtimber Well	13.0	65	111-140	N/A	Lower area that was removed from stand 29 when it was harvested. A ditch runs through the center of stand which seasonally floods into the stand.																																													
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<b>62</b>	6126 - Lowland Jack Pine	Sawtimber Well	5.0	65	111-140	N/A	Lower area that was removed from stand 29 when it was harvested. The north edge of stand butts up to a ditch, that seasonally floods parts of the stand.																																													
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